



**BOARD COORDINATOR
GENESEE COUNTY BOARD OF COMMISSIONERS**

1101 BEACH STREET, ROOM 312
FLINT, MICHIGAN 48502

TELEPHONE: (810) 257-3020
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JOSHUA M. FREEMAN
COORDINATOR

**PUBLIC WORKS COMMITTEE
Monday, August 28, 2017, 9:15 a.m.
AMENDED AGENDA**

I. CALL TO ORDER

II. ROLL CALL

III. MINUTES – August 14, 2017 - Attached

IV. PUBLIC COMMENT TO COMMITTEE

V. COMMUNICATIONS

Present Laudatory Resolution to Taylor Michael Lawrence

VI. OLD BUSINESS

VII. NEW BUSINESS

- A. P082817VIIA: Drain Commission: Request approval of the Fluoridation Ordinance for Public Water Supply – Attached
- B. P082817VIIB: Drain Commission: Request approval to refinance District 3 and Interceptor and Treatment Revenue Bonds – Attached
- C. P082817VIIC: Parks Commission: Request approval of the encumbering of Flushing County Park bridge by the State of MI DNR Trust Fund – Attached
- D. P082817VIID: Parks Commission: Request approval to reimburse three seasonal employees and compensate three seasonal employees to correct a payroll discrepancy -- Attached
- E. P082817VIIIE: GCCARD: Request approval of capital expenditures for 601 N. Saginaw Street building location – Attached **(ROLL CALL VOTE REQUESTED)**
- F. P082817VIIF: Board Coordinator: Request approval of the RFP 17-118 Engineering Design Services for Surface Parking Lot proposal from Johnson & Anderson – Attached **(ROLL CALL VOTE REQUESTED)**

VIII. OTHER BUSINESS

IX. ADJOURNMENT

PUBLIC WORKS COMMITTEE
Monday, August 14, 2017, 9:15 a.m.
MINUTES



CALL TO ORDER

Vice Chairperson Nolden called the Public Works Committee meeting to order at 9:36 a.m.



ROLL CALL

Roll Call.

Present: Nolden, Clack, Ellenburg, Courts, Young, Cousineau, Martin.

Absent: Shapiro, Henry.



MINUTES – July 31, 2017 - Attached

Motion: To approve minutes of the July 31, 2017 Public Works Committee, as presented.

Action: Approve, **Moved by** Young, **Seconded by** Ellenburg.

Motion passed unanimously.



PUBLIC COMMENT TO COMMITTEE

None



COMMUNICATIONS

None



OLD BUSINESS

None



NEW BUSINESS

P081417VIA: Circuit Court: Request approval to install security cameras in the six attorney client conference rooms in the jail that are currently not utilized for attorney client conferences because of a security concern – Attached

Motion: To approve request to install security cameras in the six attorney client conference rooms in the jail that are currently not utilized for attorney client conferences because of a security concern.

Action: Approve, **Moved by** Young, **Seconded by** Ellenburg.
Motion passed unanimously.



P081417VIIB: Parks Commission: Request approval to accept the terms of a MI-DNR Project Agreement – Attached (ROLL CALL VOTE REQUESTED)

Motion: To approve request to accept the terms of a MI-DNR Project Agreement.

Action: Approve, **Moved by** Young, **Seconded by** Clack.

Vote: Motion carried by unanimous roll call vote (**summary:** Yes = 7).

Yes: Clack, Courts, Cousineau, Ellenburg, Martin, Nolden, Young.



P081417VIIC: Parks Commission: Request approval to enter into a Brownfield Cleanup Revolving Loan Fund Loan Agreement and authorize the Parks Commission to enter into an agreement with the City of Flint and Genesee County Land Bank regarding environmental cleanup at Chevy Commons – Attached (ROLL CALL VOTE REQUESTED)

Motion: To approve request to enter into a Brownfield Cleanup Revolving Loan Fund Loan Agreement and authorize the Parks Commission to enter into an agreement with the City of Flint and Genesee County Land Bank regarding environmental cleanup at Chevy Commons.

Action: Approve, **Moved by** Martin, **Seconded by** Courts.

Vote: Motion carried by unanimous roll call vote (**summary:** Yes = 7).

Yes: Clack, Courts, Cousineau, Ellenburg, Martin, Nolden, Young.



OTHER BUSINESS

None



ADJOURNMENT

Motion: To adjourn the Public Works Committee meeting.

Action: Adjourn, **Moved by** Young, **Seconded by** Courts.

Motion passed unanimously.

Vice Chairperson Nolden adjourned the Public Works Committee meeting at 9:48 a.m.

Transcribed by:
Kimberly L. Cunningham
Secretary/Stenographer



GENESEE COUNTY DRAIN COMMISSIONER'S OFFICE

- DIVISION OF -

WATER & WASTE SERVICES

G-4610 BEECHER ROAD - FLINT, MICHIGAN 48532-2617

PHONE (810) 732-7870 - FAX (810) 732-9773

JEFFREY WRIGHT
COMMISSIONER

MEMORANDUM

DATE: August 9, 2017

TO: Ted Henry, Chairperson
Public Works Committee

FROM: Jeff Wright, Drain Commissioner

SUBJECT: Fluoridation of Water Supply

Find enclosed a copy of the proposed Fluoridation Ordinance for Public Water Supply, for water systems served by Genesee County Agency Division of Water and Waste Services.

As you are aware, the County Agency provides water supply to 17 municipal communities in Genesee County as part of the Water Supply District. In the fall of 2017, Genesee County will discontinue purchasing water from GLWA and begin operations of a new water treatment facility, on behalf of the 17 communities.

GLWA and the former DWSD provided fluoridated water to its customers. The County Agency and its communities have the opportunity to choose to fluoridate or not fluoridate. Since fluoridation occurs at the water treatment facility, it is an "all or none situation" for our 17 communities. Therefore, the appropriate legislative body is the County Board of Commissioners.

The Ordinance was prepared to address only those communities that receive water from the County Agency. Therefore, it would not affect those communities with independent water supplies, such as the City of Flint, City of Davison, and Beecher Metropolitan District to name a few. I have attached a map of the Genesee County Water Service District.

The Ordinance authorizes and directs the County Agency to fluoridate the water being produced by the new water treatment facility. The Ordinance does set the effective date 45 days after adoption.

We are requesting approval of the Public Works Committee and to forward to the County Board of Commissioners for approval.

My staff and I are available at your convenience to discuss this matter. Should you have any questions or need further comment, do not hesitate to contact this office.

CC: JFO

ORDINANCE NO. _____

**AN ORDINANCE AUTHORIZING FLUORIDE TO BE ADDED TO THE
WATER PRODUCED AT THE GENESEE COUNTY WATER TREATMENT
PLANT**

County of Genesee
State of Michigan

WHEREAS, on November 10, 1966, the Board of Supervisors of Genesee County, Michigan authorized and directed that there be established, maintained, and operated under the provisions of Act No. 342 of the Public Acts of 1939, State of Michigan, as amended (“Act 342”) and any other act applicable, a system or systems of water distribution, improvements, facilities and services, and for the acquisition or purchase of a supply of water for said system or systems, for the purpose of supplying and providing water services for or between any or all units of government in the County of Genesee, Michigan; and

WHEREAS, also on November 10, 1966, the Board of Supervisors of Genesee County, Michigan pursuant to Act 342 designated the Genesee County Drain Commissioner as the County Agency (“County Agency”) responsible for the establishment, maintenance, and operation of such system or systems of water distribution, improvements, facilities and services, and for the acquisition or purchase of a supply of water for such system or systems and as the person who shall have supervision and operation of the same; and

WHEREAS, in 1968, the County of Genesee entered into a contract with the City of Flint to purchase treated water from the Detroit Water and Sewerage Department via Flint which it then distributed to other units of government within the County of Genesee, Michigan; and

WHEREAS, in 2010, the Counties of Genesee, Lapeer, Sanilac and the City of Flint and Lapeer, formed the Karegnondi Water Authority to deliver raw untreated water to the member communities, including Genesee County; and

WHEREAS, in 2012, the County Agency began construction of a water treatment plant (“WTP”) to process the raw untreated water delivered by the KWA to the County Agency; and

WHEREAS, in 2013, the GCDC entered into an agreement with the KWA to purchase raw untreated water from the KWA; and

WHEREAS, in 2014, the City of Flint began treating water from the Flint River and the GCDC began purchasing treated water directly from the Great Lakes Water Authority (formerly Detroit Water and Sewerage Department); and

WHEREAS, once the GCDC begins to treat and deliver the raw water delivered by the KWA, the GCDC will cease purchasing water from the Great Lakes Water Authority; and

WHEREAS, it is anticipated that the construction of the WTP will be completed in October 2017 and GCDC will be providing water to the other units of government within the County of Genesee, Michigan; and

WHEREAS, the GCDC currently provides water to all of the units of government located within Genesee County, with the exception of the following: City of Fenton; City of Flint; City of Grand Blanc; City of Linden; Village of Gaines; Village of Otisville; Village of Goodrich; and the Beecher Metropolitan District ("GCDC Service Area"); and

WHEREAS, as part of the treatment process of the raw untreated water delivered by KWA to the GCDC, the GCDC is requesting a decision from the County Board of Commissioners as to whether to fluoridate the water during the treatment process; and

WHEREAS, fluoridation of community water supplies is the single most effective public health measure to prevent tooth decay and to improve oral health for a lifetime; and

WHEREAS, the Centers for Disease Control and Prevention has proclaimed community water fluoridation one of the 10 great public health achievements of the 20th century; and

WHEREAS, fluoridation of community water supplies is supported by the American Dental Association, the United States Public Health Services ("USPHS"), the American Medical Association and the World Health Organization; and

WHEREAS, studies over the past 60 years have repeatedly confirmed the safety of water fluoridation and its effectiveness in preventing dental decay; and

WHEREAS, community water fluoridation is a public health measure that benefits individuals of all ages and socioeconomic groups, especially those without access to regular dental care; and

THE COUNTY OF GENESEE, MICHIGAN, ORDAINS:

Section 1. **Authorization, Direction and Responsibility.** The County Agency is authorized and directed to fluoridate the water being transmitted to the GCDC Service Area after the effective date of this Ordinance and is thereafter responsible for the fluoridation of that supply.

Section 2. **Funding.** The cost for the fluoridation of the water being transmitted to the GCDC Service Area shall be included in the rates charged to the purchasers of the treated water and shall not be paid for by taxes levied in the County of Genesee.

Section 3. **Introduction of Fluoride.** The County Agency, shall take the steps necessary to fluoridate the water being transmitted to the GCDC Service Area and shall introduce a fluoride compound meeting American Water Works Association (“AWWA”) standards into the county water supply in such quantities as required to maintain throughout the distribution system a fluoride concentration at levels recommended by the USPHS, or otherwise required by the state health department.

Section 4. **Records.** The County Agency shall keep an accurate record of the type and amount of fluoride compound introduced and the quantities of water treated.

The County Agency shall conduct and keep records of tests for fluoride compound in the treated and untreated waters in accordance with CDC engineering and administrative recommendations for water fluoridation, or otherwise required by the state health department.

The County Agency shall make copies of the records required above to the County Board of Commissioner’s upon request.

Section 5. **Effective Date.** This Ordinance shall become effective 45 days after publication.

Adopted this _____ day of _____, 2017, by the
Genesee County Board of Commissioners, Genesee County, Michigan.

On roll call, the vote was:

Yeas:

Nays:

Genesee County Board of Commissioners

By: _____
Chairperson

Certification

I, John J. Gleason, Clerk of the County of Genesee, Michigan, do hereby certify that the foregoing is a true copy of the ordinance ____, adopted by the Genesee County Board of Commissioners of the County of Genesee at a regular meeting held on _____, 2017, at _____, and that it was published in The Flint Journal Newspaper on _____, 2017.

_____, Clerk
John J. Gleason



GENESEE COUNTY DRAIN COMMISSIONER'S OFFICE

- DIVISION OF -

WATER & WASTE SERVICES

G-4610 BEECHER ROAD - FLINT, MICHIGAN 48532-2617

PHONE (810) 732-7870 - FAX (810) 732-9773

JEFFREY WRIGHT
COMMISSIONER

MEMORANDUM

DATE: August 9, 2017

TO: Ted Henry, Chairperson
Public Works Committee

FROM: Jeff Wright, Drain Commissioner

SUBJECT: Refinancing District 3 and Interceptor and Treatment Revenue Bonds

As part of our annual review, it was determined that three of our bonds: Disposal System No. 3 Revenue Bonds Series 2007, Sanitary Sewage Disposal System Revenue Bonds Series 2007B, and Sewage Disposal System Revenue Bonds Series 2009A are likely candidates for refinancing. Based on an analysis of the current market, we could see a savings of \$2,950,000.00 over the next 12 years.

Based upon that analysis, I am submitting the enclosed two refunding ordinances for your consideration. The ordinances will allow us to watch the market and sell the refunding bond at the most opportune time.

Since this is a refunding and not new debt, no referendum period is required. We are requesting you place this refunding ordinance on the agenda for your next regularly scheduled meeting.

Should you have any questions, or need further comment, please do not hesitate to contact this office.

CC: JFO

ORDINANCE NO. _____

AN ORDINANCE TO PROVIDE FOR THE ISSUANCE AND SALE OF REVENUE REFUNDING BONDS FOR THE PURPOSE OF REFUNDING CERTAIN OUTSTANDING REVENUE BONDS OF THE SEWAGE DISPOSAL SYSTEM (INTERCEPTORS AND TREATMENT FACILITIES) OF THE COUNTY OF GENESEE, MICHIGAN; TO PRESCRIBE THE FORM OF THE REVENUE REFUNDING BONDS; TO PROVIDE FOR THE RETIREMENT AND SECURITY OF THE REVENUE REFUNDING BONDS HEREIN AUTHORIZED; AND TO PROVIDE FOR OTHER MATTERS RELATIVE TO THE SYSTEM AND THE REVENUE REFUNDING BONDS.

WHEREAS, the County of Genesee, State of Michigan (the "County") has previously issued the Outstanding Bonds (as hereinafter defined) to defray the cost of certain improvements and extensions to the Genesee County Sewage Disposal System (Interceptors and Treatment Facilities); and

WHEREAS, the Series 2007B Bonds (as hereinafter defined) are currently outstanding in the principal amount of \$5,690,000; and

WHEREAS, the Series 2009A Bonds (as hereinafter defined) are currently outstanding in the principal amount of \$11,425,000; and

WHEREAS, the County has been advised that it may be able to achieve interest cost savings by refunding all or portions of the callable maturities of the Series 2007B Bonds and the Series 2009A Bonds (collectively, the "Refunded Bonds"); and

WHEREAS, the cost of refunding the Refunded Bonds, including incidental financing and legal expenses, is estimated to be approximately Seventeen Million One Hundred Thousand Dollars (\$17,100,000); and

WHEREAS, the Outstanding Ordinances (as hereinafter defined) authorize the issuance of Additional Bonds for the purpose of, among other things, refunding all or part of the Outstanding Bonds and paying the costs of issuing such Additional Bonds; and

WHEREAS, to finance the cost of refunding the Refunded Bonds, including incidental financing and legal expenses, the County has determined that it is necessary to issue Additional Bonds therefor in the aggregate principal amount of not to exceed Seventeen Million One Hundred Thousand Dollars (\$17,100,000); and

WHEREAS, all things necessary to the authorization and issuance of Additional Bonds under the Constitution and laws of the State of Michigan and the Original Bond Ordinance (as hereinafter defined) have been done or will be completed prior to the issuance of the Additional Bonds, and the Board of Commissioners of the County is now empowered and desires to authorize the issuance of said Additional Bonds.

THE COUNTY OF GENESEE ORDAINS:

Section 1. Definitions. Capitalized terms used in this Ordinance (including the recitals hereto) and not otherwise defined herein shall have the meanings assigned to such terms in the Original Bond Ordinance. In addition to the terms defined in the Original Bond Ordinance, the following terms as used in this Ordinance shall have the following meanings:

“Act 34” means Act 34, Public Acts of Michigan, 2001, as amended.

“Act 94” means Act 94, Public Acts of Michigan, 1933, as amended.

“Act 342” means Act 342, Public Acts of Michigan, 1939, as amended.

“County” means the County of Genesee, State of Michigan.

“County Agency” means the Genesee County Drain Commissioner, as the designated “county agency” pursuant to Act 342.

“Original Bond Ordinance” means Resolution No. 00-88 of the County, adopted March 14, 2000, providing for the issuance of Additional Bonds and Junior Lien Bonds.

“Outstanding Bonds” means, collectively, the Series 2003 Bonds, the Series 2005A Bonds, the Series 2005B Bonds, the Series 2006A Bonds, the Series 2006B Bonds, the Series 2006C Bonds, the Series 2007A Bonds, the Series 2007B Bonds, the Series 2009A Bonds, the Series 2010A Bonds, the Series 2011A Bonds, the Series 2011B Bonds and the Series 2011C Bonds.

“Outstanding Ordinances” means, collectively, the following resolutions and ordinances of the County: (i) Resolution No. 00-88, adopted March 14, 2000, and Resolution No. 00-176, adopted May 9, 2000; (ii) Ordinance No. 02-02, adopted February 5, 2002, and Ordinance No. 02-04, adopted April 9, 2002; (iii) Ordinance No. 03-04, adopted June 10, 2003; (iv) Ordinance No. 05-02, adopted May 24, 2005; (v) Ordinance No. 06-07, adopted November 21, 2006; (vi) Ordinance No. 07-03, adopted August 7, 2007; (vii) Ordinance No. 08-04, adopted December 16, 2008; (viii) Ordinance No. 09-03, adopted November 17, 2009; and (ix) Ordinance No. 10-03, adopted November 16, 2010.

“Refunded Bonds” means (i) the outstanding Series 2007B Bonds maturing on November 1 of the years 2018 to 2028, inclusive, and (ii) the outstanding Series 2009A Bonds maturing on November 1 of the years 2019 to 2029, inclusive, or such portions of the foregoing as may be determined by the County Agency at the time of sale of the Series 2017 Bonds.

“Sale Order” means an order of the County Agency awarding the sale of the Series 2017 Bonds and approving the final terms of the Series 2017 Bonds as provided in this Ordinance.

“Series 2003 Bonds” means the County’s Sanitary Sewage Disposal System Revenue Bonds (Western Trunk Relief Sewer) (Limited Tax General Obligation), Series 2003, issued in the original principal amount of \$9,000,000.

“Series 2005A Bonds” means the County’s Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2005A, issued in the original principal amount of \$22,180,000.

“Series 2005B Bonds” means the County’s Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2005B, issued in the original principal amount of \$15,505,000.

“Series 2006A Bonds” means the County’s Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2006A, issued in the original principal amount of \$2,815,000.

“Series 2006B Bonds” means the County’s Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2006B, issued in the original principal amount of \$7,705,000.

“Series 2006C Bonds” means the County’s Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2006C, issued in the original principal amount of \$4,335,000.

“Series 2007A Bonds” means the County’s Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2007A, issued in the original principal amount of \$10,500,000.

“Series 2007B Bonds” means the County’s Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2007B, issued in the original principal amount of \$8,000,000.

“Series 2009A Bonds” means the County’s Sewage Disposal System (Interceptors and Treatment Facilities) Revenue Bonds (Limited Tax General Obligation), Series 2009A, issued in the original principal amount of \$15,000,000.

“Series 2010A Bonds” means the County’s Sewage Disposal System (Interceptors and Treatment Facilities) Revenue Bonds (Limited Tax General Obligation), Series 2010A, issued in the original principal amount of \$24,240,000.

“Series 2011A Bonds” means the County’s Sewage Disposal System (Interceptors and Treatment Facilities) Revenue Bonds (Limited Tax General Obligation), Series 2011A, issued in the original principal amount of \$1,445,000.

“Series 2011B Bonds” means the County’s Sewage Disposal System (Interceptors and Treatment Facilities) Revenue Bonds (Limited Tax General Obligation), Series 2011B, issued in the original principal amount of \$4,825,000.

“Series 2011C Bonds” means the County’s Sewage Disposal System (Interceptors and Treatment Facilities) Revenue Refunding Bonds (Limited Tax General Obligation), Series 2011C, issued in the original principal amount of \$7,870,000.

“Series 2017 Bonds” means the Sewage Disposal System (Interceptors and Treatment Facilities) Revenue Refunding Bonds (Limited Tax General Obligation), Series 2017, in one or more series, issued pursuant to Section 4 of this Ordinance.

“Transfer Agent” means, with respect to the Series 2017 Bonds, the person or entity appointed from time to time to act as paying agent, registrar and transfer agent for the Series 2017 Bonds as provided in Section 5 of this Ordinance.

Section 2. Necessity; Public Purpose; Estimated Cost. It is hereby determined and declared to be a necessary public purpose of the County to refund the Refunded Bonds. The estimated cost of refunding the Refunded Bonds, including incidental financing and legal expenses, in the amount of not to exceed Seventeen Million One Hundred Thousand Dollars (\$17,100,000), is hereby approved and confirmed.

Section 3. Payment of Cost; Series 2017 Bonds Authorized. To pay the costs of refunding the Refunded Bonds, including financial, legal and other expenses incident thereto and incident to the issuance and sale of the Series 2017 Bonds, the County shall borrow the sum of not to exceed Seventeen Million One Hundred Thousand Dollars (\$17,100,000) and issue the Series 2017 Bonds therefor, in one or more series, pursuant to the provisions of Act 94. The remaining costs of refunding the Refunded Bonds, if any, shall be defrayed from funds of the System on hand and legally available for such use.

Except as amended by or expressly provided to the contrary in this Ordinance, all of the provisions of the Outstanding Ordinances shall apply to the Series 2017 Bonds issued pursuant to this Ordinance, the same as though each of said provisions were repeated in this Ordinance in detail; the purpose of this Ordinance being to authorize the issuance of Additional Bonds of equal standing and priority of lien as to the Net Revenues with the Outstanding Bonds for the purpose of refunding the Refunded Bonds and paying the costs of issuing the Series 2017 Bonds as herein provided. The issuance of Additional Bonds for such purpose is authorized by the provisions of Section 21 of the Original Bond Ordinance, upon the conditions therein stated, which conditions have been fully met.

Section 4. Issuance of Series 2017 Bonds; Details. Bonds of the County, to be designated “SEWAGE DISPOSAL SYSTEM (INTERCEPTORS AND TREATMENT FACILITIES) REVENUE REFUNDING BONDS (LIMITED TAX GENERAL OBLIGATION), SERIES 2017” (with such additional or alternate series designations as may be deemed appropriate by the County Agency) (the “Series 2017 Bonds”), are authorized to be issued in one or more series in the aggregate principal amount of not to exceed Seventeen Million One Hundred Thousand Dollars (\$17,100,000), as finally determined by the County Agency in the Sale Order, for the purpose of refunding all or a portion of the Refunded Bonds, as finally determined in the Sale Order, and paying costs incidental to the issuance of the Series 2017 Bonds. The Series 2017 Bonds shall be payable out of the Net Revenues, as set forth more fully in Section 6 hereof.

The Series 2017 Bonds shall consist of fully-registered bonds of the denomination of \$5,000 each, or integral multiples of \$5,000 (or such greater minimum authorized denomination as finally determined in the Sale Order) not exceeding for each maturity the aggregate principal

amount of that maturity, shall be dated as of a date determined by the County Agency in the Sale Order, and shall be numbered in order of registration. The Series 2017 Bonds may be issued as Serial Bonds or Term Bonds, or both, and shall mature or be subject to Mandatory Redemption Requirements on the dates and in the principal amounts as determined by the County Agency in the Sale Order; *provided, however*, that the final maturity date of the Series 2017 Bonds shall be not later than November 1, 2030.

The Series 2017 Bonds shall bear interest at the rate or rates to be determined at the time of sale thereof, but in any event not exceeding eight percent (8%) per annum, payable semi-annually on May 1 and November 1 of each year, or such other dates as determined by the County Agency in the Sale Order, commencing on the date determined by the County Agency in the Sale Order, by check or draft mailed by the Transfer Agent to the person or entity who or which is, as of the 15th day of the month preceding each interest payment date, the registered owner at the registered address as shown on the registration books of the County maintained by the Transfer Agent. The date of determination of registered owner for purposes of payment of interest as provided in this paragraph may be changed by the County to conform to market practice in the future. The principal of the Series 2017 Bonds shall be payable at the designated office of the Transfer Agent.

The Series 2017 Bonds may be issued in book-entry-only form through The Depository Trust Company in New York, New York ("DTC"). So long as the Series 2017 Bonds are in book-entry-only form, the Transfer Agent shall comply with the terms of the Letter of Representations to be entered into among the County, the Transfer Agent and DTC, which provisions shall govern registration, notices and payment, among other things, and which provisions are incorporated herein with the same effect as if fully set forth herein. The County Controller and County Agency are each hereby authorized and directed to enter into the Letter of Representations with DTC for and on behalf of the County. In the event the County determines that the continuation of the system of book-entry-only transfer through DTC (or successor securities depository) is not in the best interest of the DTC participants, beneficial owners of the Series 2017 Bonds, or the County, the County will notify the Transfer Agent, whereupon the Transfer Agent will notify DTC of the availability through DTC of bond certificates. In such event, the County shall issue and the Transfer Agent shall transfer and exchange bonds as requested by DTC of like principal amount, series and maturity, in authorized denominations, to the identifiable beneficial owners in replacement of the beneficial interest of such beneficial owners in the bonds.

The Series 2017 Bonds shall be subject to redemption prior to maturity at the times and prices and in the manner determined by the County Agency in the Sale Order and as permitted by law, provided that the redemption premium on the Series 2017 Bonds may not exceed two percent (2%). Unless waived by any registered owner of the Series 2017 Bonds to be redeemed, notice of redemption shall be given in the manner specified in the form of the Series 2017 Bonds contained in Section 10 of this Ordinance.

The Series 2017 Bonds shall be executed in the name of the County with the manual or facsimile signatures of the Chairman of the Board of Commissioners and the County Clerk and shall have the seal of the County or a facsimile thereof impressed or printed thereon. No Series 2017 Bond shall be valid until authenticated by an authorized representative of the Transfer

Agent. The Series 2017 Bonds shall be delivered to the Transfer Agent for authentication and be delivered by the Transfer Agent to the purchaser thereof in accordance with instructions from the County Agency upon payment to the County of the purchase price for the Series 2017 Bonds. Executed blank bonds for registration and issuance to transferees shall simultaneously, and from time to time thereafter as necessary, be delivered to the Transfer Agent for safekeeping.

Section 5. Transfer Agent; Registration and Transfer. The County Agency shall appoint a bank or trust company qualified under Michigan law to act as Transfer Agent with respect to the Series 2017 Bonds. Any Series 2017 Bond may be transferred upon the books required to be kept pursuant to this Section by the person in whose name it is registered, in person or by the registered owner's duly authorized attorney, upon surrender of the Series 2017 Bond for cancellation, accompanied by delivery of a duly executed written instrument of transfer in a form approved by the Transfer Agent. Whenever any Series 2017 Bond or Bonds shall be surrendered for transfer, the County shall execute and the Transfer Agent shall authenticate and deliver a new Series 2017 Bond or Bonds, for like aggregate principal amount. The Transfer Agent shall require payment by the bondholder requesting the transfer of any tax or other governmental charge required to be paid with respect to the transfer. The Transfer Agent shall not be required (i) to issue, register the transfer of or exchange any Series 2017 Bond during a period beginning at the opening of business 15 days before the day of the giving of a notice of redemption of Series 2017 Bonds selected for redemption and ending at the close of business on the day of that giving of notice, or (ii) to register the transfer of or exchange any Series 2017 Bond so selected for redemption in whole or in part, except the unredeemed portion of Series 2017 Bonds being redeemed in part. Unless waived by the Transfer Agent, the County shall give the Transfer Agent notice of call for redemption at least 20 days prior to the date notice of redemption is to be given.

The Transfer Agent shall keep or cause to be kept, at its principal office, sufficient books for the registration and transfer of the Series 2017 Bonds, which shall at all times be open to inspection by the County; and, upon presentation for such purpose, the Transfer Agent shall, under such reasonable regulations as it may prescribe, transfer or cause to be transferred, on said books, Series 2017 Bonds as hereinbefore provided.

If any Series 2017 Bond shall become mutilated, the County, at the expense of the holder of the Series 2017 Bond, shall execute, and the Transfer Agent shall authenticate and deliver, a new Series 2017 Bond of like tenor in exchange and substitution for the mutilated Series 2017 Bond, upon surrender to the Transfer Agent of the mutilated Series 2017 Bond. If any Series 2017 Bond shall be lost, destroyed or stolen, evidence of the ownership of the Series 2017 Bond and of the loss, destruction or theft may be submitted to the Transfer Agent and, if this evidence is satisfactory to the County and the Transfer Agent and indemnity satisfactory to the County and the Transfer Agent shall be given, and if all requirements of any applicable law, including Act 354, Public Acts of Michigan, 1972, as amended ("Act 354"), have been met, the County, at the expense of the registered owner, shall execute, and the Transfer Agent shall thereupon authenticate and deliver, a new Series 2017 Bond of like tenor and bearing the statement required by Act 354, or any applicable law hereafter enacted, in lieu of and in substitution for the Series 2017 Bond so lost, destroyed or stolen. If any such Series 2017 Bond shall have matured or shall be about to mature, instead of issuing a substitute Series 2017 Bond, the Transfer Agent may pay the same without surrender thereof.

Section 6. Payment of Series 2017 Bonds; Priority of Lien; Pledge of Full Faith and Credit; No Bond Reserve Account. Principal of and interest on the Series 2017 Bonds shall be payable primarily from the Net Revenues of the System, and to secure such payment, there is hereby recognized the statutory lien upon the whole of the Net Revenues created by the Original Bond Ordinance, which shall be a first lien to continue with respect to the Series 2017 Bonds until payment in full of the principal of and interest on the Series 2017 Bonds, or until Sufficient cash or Sufficient Government Obligations, or a combination thereof, have been deposited in trust for payment in full of all principal and interest on the Series 2017 Bonds then outstanding to maturity, or, if called for redemption, to the date fixed for redemption. The statutory first lien referred to herein shall be of equal standing and priority of lien as to the Net Revenues with the Outstanding Bonds. Upon deposit of Sufficient cash or Sufficient Government Obligations for payment in full of all principal and interest on the Series 2017 Bonds then outstanding, as provided in this paragraph, the statutory lien shall be terminated with respect to the Series 2017 Bonds, the holders of the Series 2017 Bonds shall have no further rights under this Ordinance or the Outstanding Ordinances, except for payment from the deposited funds and for rights of replacement, registration and transfer, and the Series 2017 Bonds shall no longer be considered to be outstanding under this Ordinance or the Outstanding Ordinances.

In addition, as additional security for the payment of the principal of and interest on the Series 2017 Bonds, the County, pursuant to the provisions of Act 342, hereby irrevocably pledges its full faith and credit for the prompt payment of the principal of and interest on the Series 2017 Bonds. If the Net Revenues of the System are at any time insufficient to pay the principal of and interest on the Series 2017 Bonds when due, then the County shall advance from any funds available therefor, or, if necessary, levy taxes upon all taxable property in the County, subject to applicable constitutional and statutory limitations, such sums as may be necessary to pay said principal and interest. If the County shall be required to pay principal of and interest on the Series 2017 Bonds from its general funds, it shall be reimbursed the amount paid as soon as possible from the Net Revenues of the System.

The Series 2017 Bonds shall not be secured by a Bond Reserve Account, and the "Bond Reserve Requirement" (as defined in the Outstanding Ordinances) for the Series 2017 Bonds is hereby determined to be zero dollars (\$0.00).

Section 7. Rates and Charges. The rates and charges for service furnished by and the use of the System and the methods of collection and enforcement of the collection of the rates shall be those established by the County Agency and in effect on the date of adoption of this Ordinance, as the same may be modified by the County Agency from time to time. The rates presently in effect in the County as established by the County Agency are estimated to be sufficient to provide for the payment of the expenses of administration and operation and such expenses for maintenance of the System as are necessary to preserve the System in good repair and working order, to provide for the payment of the principal of and interest on the Outstanding Bonds and the Series 2017 Bonds as the same become due and payable and to provide for all other obligations, expenditures and funds for the System required by law, this Ordinance and the Outstanding Ordinances. In addition, it is hereby covenanted and agreed that the rates shall be reviewed and shall be fixed and revised from time to time as may be necessary to produce these amounts, and it is hereby covenanted and agreed to fix and maintain rates for services furnished by the System at all times sufficient to provide for the foregoing.

Section 8. No Free Service or Use. No free service or use of the System, or service or use of the System at less than the reasonable cost and value thereof, shall be furnished by the System to any person, firm or corporation, public or private, or to any public agency or instrumentality, including the County.

Section 9. Bond Proceeds; Escrow Fund. The proceeds of the Series 2017 Bonds shall be used to secure payment of the Refunded Bonds and to pay the costs of issuance of the Series 2017 Bonds as provided in this Section. Upon receipt of the proceeds of the Series 2017 Bonds, the accrued interest, if any, shall be deposited into the Bond and Interest Redemption Fund established by the Original Bond Ordinance. From the proceeds of the Series 2017 Bonds there shall next be set aside a sum sufficient to pay the costs of issuance of the Series 2017 Bonds. Such funds may be deposited in an account established by the County or by the Escrow Agent (as hereinafter defined). Such funds shall be used solely to pay the costs of issuance of the Series 2017 Bonds, and if any such funds shall not be required to pay the costs of issuance of the Series 2017 Bonds, the surplus shall be transferred to the Bond and Interest Redemption Fund or used for any other purpose permitted by applicable law.

The balance of the proceeds of the Series 2017 Bonds, together with other available funds of the County, if any, shall be deposited into an escrow fund (the "Escrow Fund") and shall be held in cash or invested in direct obligations of the United States of America or obligations the principal of and interest on which are fully guaranteed by the United States of America, not redeemable at the option of the issuer thereof, and used to pay the principal of and interest on all or a portion of the Refunded Bonds as shall be finally identified in the Sale Order. The Escrow Fund shall be held by an escrow agent (the "Escrow Agent"), in trust, pursuant to an escrow agreement (the "Escrow Agreement") which shall irrevocably direct the Escrow Agent to take all necessary steps to call for redemption the Refunded Bonds specified in the Sale Order, including publication and mailing of redemption notices, on the first date on which the Refunded Bonds may be called for redemption. The investments held in the Escrow Fund shall be such that the principal and interest payments received thereon will be sufficient, without reinvestment, to pay the principal of and interest on the Refunded Bonds when due and upon call of the Refunded Bonds for redemption as provided in this paragraph. The County Agency is authorized to select and retain a bank or trust company to serve as Escrow Agent pursuant to the Escrow Agreement and to execute and deliver the Escrow Agreement for and on behalf of the County. The County Agency and County Controller are each hereby individually authorized to designate and empower the Escrow Agent to subscribe for United States Treasury Obligations, State and Local Government Series, on behalf of the County, as may be necessary in connection with the refunding of the Refunded Bonds.

Section 10. Form of Series 2017 Bonds. The Series 2017 Bonds shall be in substantially the following form, with such changes or completions as are necessary or appropriate to give effect to the intent of this Ordinance:

R-____
UNITED STATES OF AMERICA
STATE OF MICHIGAN

COUNTY OF GENESEE

SEWAGE DISPOSAL SYSTEM (INTERCEPTORS AND TREATMENT FACILITIES)
REVENUE REFUNDING BOND (LIMITED TAX GENERAL OBLIGATION), SERIES 2017__

<u>Interest Rate</u>	<u>Maturity Date</u>	<u>Date of Original Issue</u>	<u>CUSIP</u>
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REGISTERED OWNER:

PRINCIPAL AMOUNT:

The County of Genesee, State of Michigan (the "Issuer"), acknowledges itself to owe and for value received hereby promises to pay, out of the hereinafter described Net Revenues of the Issuer's System (hereinafter defined), the Principal Amount specified above, in lawful money of the United States of America, to the Registered Owner specified above, or registered assigns, on the Maturity Date specified above, unless prepaid prior thereto as hereinafter provided, with interest thereon (computed on the basis of a 360 day year consisting of twelve 30-day months) from the Date of Original Issue specified above or such later date to which interest has been paid, until paid, at the Interest Rate per annum specified above, first payable on _____, 201__, and semiannually thereafter. Principal of this bond is payable at the designated corporate trust office of _____, _____, Michigan or such other transfer agent as the Issuer may hereafter designate by notice mailed to the registered owner not less than sixty (60) days prior to any interest payment date (the "Transfer Agent"). Interest on this bond is payable by check or draft mailed by the Transfer Agent to the person or entity who or which is, as of the fifteenth (15th) day of the month preceding the interest payment date, the registered owner of record, at the registered address as shown on the registration books of the Issuer kept by the Transfer Agent. For prompt payment of principal of and interest on this bond, the Issuer has irrevocably pledged the revenues of the Genesee County Sewage Disposal System (Interceptors and Treatment Facilities), including all appurtenances, extensions and improvements thereto (the "System"), after provision has been made for reasonable and necessary expenses of operation, maintenance and administration thereof (the "Net Revenues"), and a statutory first lien thereon is hereby recognized and created.

This bond is one of a series of bonds of even Date of Original Issue aggregating the principal sum of \$_____, issued pursuant to Resolution Nos. 00-88 and 00-176 and Ordinance Nos. 02-02, 02-04, 03-04, 05-02, 06-07, 07-03, 08-04, 09-03, 10-03 and _____, duly adopted by the Board of Commissioners of the Issuer (the "Ordinances"), and under and in full compliance with the Constitution and statutes of the State of Michigan, including specifically Act 94, Public Acts of Michigan, 1933, as amended, and Act 342, Public Acts of Michigan, 1939, as amended ("Act 342"), for the purpose of refunding portions of the Issuer's outstanding Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2007B and Sewage Disposal System (Interceptors and Treatment Facilities) Revenue Bonds (Limited Tax General Obligation), Series 2009A.

For a complete statement of the revenues from which and the conditions under which this bond is payable, a statement of the conditions under which additional bonds of equal standing as to the Net Revenues may hereafter be issued and the general covenants and provisions pursuant to which this bond is issued, reference is made to the Ordinances. The bonds of this issue are of equal standing and priority of lien as to the Net Revenues with the Issuer's outstanding (i) Sanitary Sewage Disposal System Revenue Bonds (Western Trunk Relief Sewer) (Limited Tax General Obligation), Series 2003, (ii) Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2005A, (iii) Sanitary Sewage Disposal System Revenue

Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2005B, (iv) Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2006A, (v) Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2006B, (vi) Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2006C, (vii) Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2007A, (viii) Sanitary Sewage Disposal System Revenue Bonds (Northeast Extension Sewer Project) (Limited Tax General Obligation), Series 2007B, (ix) Sewage Disposal System (Interceptors and Treatment Facilities) Revenue Bonds (Limited Tax General Obligation), Series 2009A, (x) Sewage Disposal System (Interceptors and Treatment Facilities) Revenue Bonds (Limited Tax General Obligation), Series 2010A, (xi) Sewage Disposal System (Interceptors and Treatment Facilities) Revenue Bonds (Limited Tax General Obligation), Series 2011A, (xii) Sewage Disposal System (Interceptors and Treatment Facilities) Revenue Bonds (Limited Tax General Obligation), Series 2011B, and (xiii) Sewage Disposal System (Interceptors and Treatment Facilities) Revenue Refunding Bonds (Limited Tax General Obligation), Series 2011C (collectively, the "Outstanding Bonds"). The Issuer has reserved the right to issue Additional Bonds of equal standing with the bonds of this issue and the Outstanding Bonds on conditions stated in the Ordinances.

Bonds of this issue maturing in the years 20__ to 20__, inclusive, are not subject to redemption prior to maturity. Bonds or portions of bonds of this issue in multiples of \$5,000 maturing in the year 20__ and thereafter are subject to redemption prior to maturity at the option of the Issuer, in such order as the Issuer shall determine and within any maturity by lot, on any date on or after _____, 20__, at par plus accrued interest to the date fixed for redemption.

[Insert term bond provisions, if applicable]

In case less than the full amount of an outstanding bond is called for redemption, the Transfer Agent, upon presentation of the bond called in part for redemption, shall register, authenticate and deliver to the registered owner a new bond in the principal amount of the portion of the original bond not called for redemption.

Notice of redemption of any bond or portion thereof shall be given by the Transfer Agent at least thirty (30) days prior to the date fixed for redemption by mail to the registered owner at the registered address shown on the registration books kept by the Transfer Agent. Bonds shall be called for redemption in multiples of \$5,000 and any bond of a denomination of more than \$5,000 shall be treated as representing the number of bonds obtained by dividing the denomination of the bond by \$5,000 and such bond may be redeemed in part. Notice of redemption for a bond redeemed in part shall state that upon surrender of the bond to be redeemed a new bond or bonds in aggregate principal amount equal to the unredeemed portion of the bonds surrendered shall be issued to the registered owner thereof. No further interest on a bond or portion thereof called for redemption shall accrue after the date fixed for redemption, whether presented for redemption or not, provided funds are on hand with the Transfer Agent to redeem the bond or portion thereof.

This bond is primarily a self-liquidating bond, payable, both as to principal and interest, from the Net Revenues of the System. The principal of and interest on this bond are secured by the statutory lien hereinbefore mentioned. As additional security for the payment of the principal of and interest on this bond and the series of bonds of which this is one, the Issuer, pursuant to the provisions of Act 342, and the Ordinances, has pledged its full faith and credit for the prompt payment of the principal of and interest hereon. Pursuant to such pledge, if the Net Revenues of the System are at any time insufficient to pay the principal of and interest on this bond when due, then the Issuer shall advance from its general funds available therefor, or, if necessary, levy taxes upon all taxable property in the Issuer, subject to applicable constitutional and statutory tax rate limitations, such sums as may be necessary to pay said principal and interest.

The Issuer has covenanted and agreed, and does hereby covenant and agree, to fix and maintain at all times while any bonds payable from the Net Revenues of the System shall be outstanding, such rates for service furnished by the System as shall be sufficient to provide for payment of the interest on and the principal of the bonds of this issue, the Outstanding Bonds and any Additional Bonds of equal standing as and when the same shall become due and payable, and to create and maintain a Bond and Interest Redemption Fund therefor, to provide for the payment of expenses of administration and operation and such expenses for maintenance of the System as are necessary to

preserve the same in good repair and working order, and to provide for such other expenditures and funds for the bonds of this issue, the Outstanding Bonds and the System as are required by the Ordinances.

This bond is transferable only upon the books of the Issuer kept for that purpose at the office of the Transfer Agent by the registered owner hereof in person, or by the registered owner's attorney duly authorized in writing, upon the surrender of this bond together with a written instrument of transfer satisfactory to the Transfer Agent duly executed by the registered owner or the registered owner's attorney duly authorized in writing, and thereupon a new registered bond or bonds in the same aggregate principal amount and of the same maturity shall be issued to the transferee in exchange therefor as provided in the Ordinances, and upon the payment of the charges, if any, therein prescribed.

It is hereby certified and recited that all acts, conditions and things required by law to be done precedent to and in the issuance of this bond and the series of bonds of which this is one have been done and performed in regular and due time and form as required by law.

This bond is not valid or obligatory for any purpose until the Transfer Agent's Certificate of Authentication on this bond has been executed by the Transfer Agent.

IN WITNESS WHEREOF, the Issuer, by its Board of Commissioners, has caused this bond to be executed with the facsimile signatures of its Chairman and the County Clerk and a facsimile of its corporate seal to be printed on this bond, all as of the Date of Original Issue.

COUNTY OF GENESEE

By: _____
Chairman, Board of Commissioners

(Seal)

Countersigned:

By: _____
County Clerk

Certificate of Authentication

This bond is one of the bonds described in the within-mentioned Ordinance.

Transfer Agent

By: _____
Authorized Signatory

Date of Registration:

Section 11. Covenants Regarding Tax-Exempt Status of the Series 2017 Bonds. The County shall, to the extent permitted by law, take all actions within its control necessary to maintain the exclusion of the interest on the Series 2017 Bonds from gross income for federal income tax purposes under the Internal Revenue Code of 1986, as amended (the "Code"), including, but not limited to, actions relating to any required rebate of arbitrage earnings and the expenditure and investment of proceeds of the Series 2017 Bonds and moneys deemed to be proceeds of the Series 2017 Bonds, and to prevent the Series 2017 Bonds from being or becoming "private activity bonds" as that term is used in Section 141 of the Code.

Section 12. Negotiated Sale. The County has considered the option of selling the Series 2017 Bonds through a competitive sale and a negotiated sale and, pursuant to the requirements of Act 34, and based on the recommendation of the County's financial advisor for the Series 2017 Bonds, determines that a negotiated sale of the Series 2017 Bonds is in the best interests of the County and will provide the County with greater flexibility in structuring the terms of the Series 2017 Bonds and in accessing the municipal bond market at the time that is expected to achieve the most advantageous interest rates for the County.

Section 13. Sale and Award of Series 2017 Bonds. The County Agency is hereby authorized to place the Series 2017 Bonds with a bank or financial institution selected by the County Agency or, in the alternative, to appoint one or more underwriters for the Series 2017 Bonds (the "Purchaser"). The County Agency is authorized to negotiate the sale of the Series 2017 Bonds to the Purchaser, negotiate and execute a bond purchase agreement with the Purchaser, if required, and execute a Sale Order specifying the final terms of the Series 2017 Bonds and making such other determinations as provided for in this Ordinance, without further authorization or approval of the Board of Commissioners, subject to the following terms:

(a) The final terms of the Series 2017 Bonds shall be within the parameters established by this Ordinance;

(b) The underwriter's discount shall not exceed 0.55% of the principal amount of the Series 2017 Bonds;

(c) The true interest cost of the Series 2017 Bonds shall not exceed 4.50%;
and

(d) The net present value savings to be realized upon the refunding of the Refunded Bonds shall not be less than three percent (3.00%) of the principal amount of the Refunded Bonds.

Section 14. Approval of Details of Series 2017 Bonds. The County Agency is hereby authorized to adjust the final bond details set forth herein to the extent necessary or convenient to complete the transactions authorized herein, and in pursuance of the foregoing is authorized to exercise the authority and make the determinations authorized pursuant to Section 7a(1)(c) of Act 94 and Section 315(1)(d) of Act 34, including, but not limited to, determinations regarding interest rates, prices, discounts, serial and term maturities, principal amounts, denominations, dates of issuance, interest payment dates, redemption rights, the place of delivery and payment,

designation of series, and other matters necessary to effectuate the sale and issuance of the Series 2017 Bonds authorized herein, within the parameters established by this Ordinance.

Section 15. Official Statement; Bond Insurance; Ratings. If necessary in connection with the sale of any series of the Series 2017 Bonds authorized by this Ordinance, the County Agency and the County Controller are authorized and directed to: (a) cause the preparation and circulation of a Preliminary Official Statement with respect to such Series 2017 Bonds and to deem the Preliminary Official Statement “final” for purposes of Rule 15c2-12 of the U.S. Securities and Exchange Commission, and to approve circulation of a final Official Statement with respect to such Series 2017 Bonds; and (b) obtain ratings on such Series 2017 Bonds. In addition, the County Agency and County Controller are authorized to solicit bids for and approve the purchase of a municipal bond insurance policy for any series of the Series 2017 Bonds if deemed economically advantageous to the County based on the advice of the County’s financial advisor for the Series 2017 Bonds.

Section 16. Authorization of Other Actions. The County Agency, Chairman of the Board, County Controller and County Clerk are each hereby individually authorized to complete, execute and file any and all applications or requests for waivers with the Michigan Department of Treasury necessary to effectuate the sale and delivery of the Series 2017 Bonds as contemplated by this Ordinance, including, if necessary, an application for an exemption from the rating requirement of Act 34. The County Agency and County Treasurer are further authorized to pay any necessary fees in connection with any such applications or waivers. The County Agency, County Treasurer, County Clerk and County Controller are each hereby individually authorized and directed to execute and deliver all other documents and certificates and to take all other actions and to make such other filings with any parties necessary or advisable to enable the sale and delivery of the Series 2017 Bonds as contemplated herein.

Section 17. Continuing Disclosure. If required in connection with the sale of any series of the Series 2017 Bonds, the County agrees to enter into a continuing disclosure undertaking for the benefit of the holders and beneficial owners of such Series 2017 Bonds pursuant to Rule 15c2-12 of the U.S. Securities and Exchange Commission, and the County Agency and the County Controller are each hereby authorized to execute such undertaking prior to delivery of such Series 2017 Bonds.

Section 18. Severability; Paragraph Headings; and Conflict. If any section, paragraph, clause or provision of this Ordinance shall be held invalid, the invalidity of such section, paragraph, clause or provision shall not affect any of the other provisions of this Ordinance. The paragraph headings in this Ordinance are furnished for convenience of reference only and shall not be considered to be part of this Ordinance.

Section 19. Publication and Recordation. This Ordinance shall be published in full in *The Flint Journal*, a newspaper of general circulation in the County qualified under Michigan law to publish legal notices, promptly after its adoption, and shall be recorded in the Ordinance Book of the County and such recording authenticated by the signatures of the Chairman of the Board of Commissioners and the County Clerk.

Section 20. Effective Date. This Ordinance shall be effective immediately upon its adoption.

Adopted and signed this 11th day of September, 2017.

Signed: _____
Chairman, Board of Commissioners

Signed: _____
County Clerk

I hereby certify that the foregoing constitutes a true and complete copy of an Ordinance duly adopted by the Board of Commissioners of the County of Genesee, Michigan, at a regular meeting held on the 11th day of September, 2017, and that said meeting was conducted and public notice of said meeting was given pursuant to and in full compliance with the Open Meetings Act, being Act 267, Public Acts of Michigan, 1976, and that the minutes of said meeting were kept and will be or have been made available as required by said Act.

I further certify that the following Commissioners were present at said meeting: _____, and that the following Commissioners were absent: _____.

I further certify that Commissioner _____ moved adoption of said Ordinance, and that said motion was supported by Commissioner _____.

I further certify that the following Commissioners voted for adoption of said Ordinance: _____, and that the following Commissioners voted against adoption of said Ordinance: _____.

I further certify that said Ordinance has been recorded in the Ordinance Book and that such recording has been authenticated by the signatures of the Chairman of the Board of Commissioners and County Clerk.

County Clerk

INTEROFFICE MEMORANDUM

TO: TED HENRY, PUBLIC WORKS CHAIR
FROM: AMY M. MCMILLAN, DIRECTOR
SUBJECT: ENCUMBERING FLUSHING COUNTY PARK
DATE: AUGUST 21, 2017
CC: CORPORATION COUNSEL, FILE

Background

At the February 23, 2017 regular meeting of the Parks Commission resolution 001-17 was approved to enter into a partnership with the City of Flushing for engineering costs for re-decking an existing bridge over the Flint River located within Flushing County Park. The City of Flushing submitted a grant request to the State of MI Department of Natural Resources for this project.

One of the grant conditions, should the grant be awarded to the City of Flushing, would be to allow Flushing County Park bridge to be encumbered by the State of MI, as the re-decking project falls within the boundaries of park property. The original bridge was constructed with grant funds that did not require the project area to be encumbered. This would not affect the ownership of the park property.

The attached proposed resolution will be presented to the Parks Commission at its August 24, 2017 meeting. Upon approval of the Parks Commission and the Board of Commissioners the resolution would be provided to the City of Flushing to submit with their grant application no later than October 1, 2017.

Action Requested

Approve, by resolution, the encumbering of Flushing County Park bridge by the State of MI DNR Trust Fund

Attachments

Pending Resolution #024-17

**GENESEE COUNTY PARKS AND RECREATION COMMISSION
RESOLUTION 024-17
CITY OF FLUSHING PARTNERSHIP AGREEMENT**

WHEREAS, the City of Flushing places a high priority on public parks and recreation for its residents, and

WHEREAS, the City of Flushing submitted a Recreation Passport Grant Application to the Michigan Department of Natural Resources for improvements to the city's trail system, specifically, the scope of work under the grant would cover the replacement of decking boards for the pedestrian bridge crossing the Flint River, which is within the boundaries of Flushing County Park, and

WHEREAS, the trail improvements would provide abundant opportunities to City of Flushing, Flushing Charter Township and all county residents for walking, running, jogging and biking, among other recreation opportunities, and

WHEREAS, the Genesee County Parks and Recreation Commission and the City of Flushing will formally collaborate and partner together, if the City of Flushing is successful in its efforts to secure a Michigan Department of Natural Resources Recreation Passport grant to make bridge improvements in Flushing County Park, and

THEREFORE BE IT RESOLVED, Genesee County Parks and Recreation Commission acknowledges and agrees that pedestrian bridge inside Flushing County Park, which is owned by Genesee County and operated and maintained by Genesee County Parks and Recreation Commission, is within the project boundary and the bridge will be encumbered as part of this grant project.

Motion by:
Supported by:

Ayes:

Nays:

Absent:

GENESEE COUNTY PARKS AND
RECREATION COMMISSION
Genesee County, Michigan

By:

Its:

INTEROFFICE MEMORANDUM

TO: TED HENRY, CHAIR PUBLIC WORKS, MARK YOUNG, BOARD CHAIR
FROM: AMY M. MCMILLAN, DIRECTOR
SUBJECT: PAYROLL CORRECTIONS
DATE: AUGUST 24, 2017
CC: CORPORATION COUNSEL, FILE

Background

Approximately two weeks ago the Parks Commission was made aware of an inconsistency in the wage being paid to seasonal employees in the same job classification (landscape worker). Out of the six seasonal employees holding that position, three were paid \$8.90 per hour and three were paid \$9.90 per hour.

The amount that was overpaid to employees, with the associated fringes is \$1,190.74. These overages were withheld from either in total, or in part, their paychecks issued 8-25-17 and 9-8-17.

At the August 24, 2017 regular meeting of the Parks Commission, the commissioners approved these amounts to be refunded to the employees in full. Furthermore, the parks commissioners approved the employees that were paid at the rate of \$8.90 be compensated for the extra \$1.00 per hour. The cost with the associated fringes is \$989.02.

The total amount to correct this discrepancy would be approximately \$2,179.76. The differences in hours worked has been verified with the payroll department and all six employee's hourly rates of pay have since been corrected as of July 29, 2017. The funds are within the Parks Commission budget and no general funds are needed to correct this discrepancy.

Action Requested

Approve reimbursements to three seasonal employees and compensate three employees to correct the payroll discrepancy.

Attachments

Payroll Correction Worksheet

Genesee County Parks & Recreation Commission
Landscape Worker Payroll Correction

Employees paid at \$9.90 per hour

	Overpayment	Social Security	Workers Compensation	Total
Bigelow, Chancery	359.90	27.53	10.37	397.80
Gunther, Joshua	236.80	18.12	6.82	261.74
Peck, Justin	480.60	36.77	13.84	531.21
	1,077.30	82.41	31.03	1,190.74

Employees paid at \$8.90 per hour

	Underpayment	Social Security	Workers Compensation	Total
Alexander Elijah	331.30	25.34	9.54	366.19
Henig, Luke	353.20	27.02	10.17	390.39
Nunn, Jordan	210.30	16.09	6.06	232.44
	894.80	68.45	25.77	989.02
Total	1,972.10	150.87	56.80	2,179.76

Based on hours worked and verified by Payroll Department



Commissioners

Bryant Nolden
District 1

Brenda Clack
District 2

Ellen Ellenburg
District 3

Kim Courts
District 4

Mark Young
District 5

Drew Shapiro
District 6

Martin Cousineau
District 7

Ted Henry
District 8

David Martin
District 9

Administration

Matthew A. Purcell
Executive Director

Stephanie L. Howard
Deputy Executive Director

Program Directors

Daniel Newcombe
Neighborhood Svcs. Director

Tamitha Taylor
Nutrition Svcs. Director

Chevon Wilborn
Nutrition Svcs. Asst. Director

Matthew Odette
Home Maint. Asst. Director

Kelli Webb
Head Start Director

Memorandum

TO: Ted Henry, Chair Public Works Committee

FROM: Matt Purcell, Executive Director 

SUBJECT: GCCARD request for Capital expenditures

DATE: August 16, 2017

Background Information:

GCCARD is in need of the following facility improvements at the 601 N Saginaw St. building location. All numbers are informal estimates and will require a formal procurement process.

1. Exterior Facade repair/replacement/painting \$200,000
This repair is necessary to replace some pieces that have blown off from wind and repair/seal remaining pieces to assure no future damage. Repaint entire building.
2. Parking lot resurfacing/sidewalk repairs \$160,000
This repair is necessary to fix a deteriorating parking lot and crumbling sidewalks as well as correct some drainage issues.
3. HVAC replacement/upgrades \$140,000
This is necessary to replace some old outdated inefficient units.
4. Roof repairs/replacement \$100,000
This is necessary to repair/replace some old deteriorated sections.
5. Install new façade on the main "entrance" \$100,000
This is necessary to provide an appropriate entrance for public accessing the GCCARD building.
6. Interior Renovations \$1,200,000
This is necessary to modify some unfinished space to create additional workstations/offices to accommodate the Head Start Staff that have been displaced behind the sale of the 719 Harrison Rd GCCARD Building.



Total Capital Improvement needs total \$1,900,000, however it would be prudent to address items #1-5 (\$700,000) prior to an investment in item #6 (\$1,200,000).

GCCARD requests to utilize the proceeds from the sale of 719 Harrison St in the amount of \$700,000 in exchange for taking over/continuing the corresponding portion of the annual Bond Payment related to Harrison St. of \$81,000(approx). This amount is 40% of the total payment of \$204,000(approx) that is related to both Saginaw St building AND Harrison St building and will terminate at conclusion of FYE Sept 30, 2022.

NOTE: the bonds issued for the original purchase of both buildings have been refinanced and are included in a new Bond issue that combined the old Court House Square debt with the GCCARD building debt.

Breakdown of total (combined) County bond payment

GCCARD Portion (36%)	\$204,000	Approximate
Court House SQ (64%)	<u>\$362,000</u>	Approximate
Total New Bond Payment	\$566,000	Approximate

Breakdown of GCCARD payments

Saginaw St (60%)	\$123,000	Approximate
Harrison St (40%)	<u>\$ 81,000</u>	Approximate
Total GCCARD Payment	\$204,000	Approximate

This request will relieve the General Fund Budget of the need to include \$81,000 for the continuing annual payment, reducing General Fund expenditures and freeing up those resources for other General Fund budgetary needs.

Requested Action

GCCARD requests to use the \$700,000 proceeds from the sale of the former GCCARD 719 Harrison St building to perform facility repairs and improvements to the current GCCARD 601 N Saginaw St. building, which is currently utilized by GCCARD programming, and assume the General Fund obligation for the annual payment of \$81,000(approx.). GCCARD further requests to have any portion that is not covered by the initial \$700,000 (initial estimated additional request \$1,200,000) to be taken into consideration for discussion and possible inclusion in any future proposed Genesee County Capital Improvement projects, as GCCARD has the ability to cover any annual payment costs that are associated with GCCARD utilized buildings. GCCARD will also diligently pursue Grant opportunities for possible building improvements.

2012 Bond Refunding Maturity Schedule

GCCARD \$1,738,800 + Genesee County \$3,091,200 = \$4,830,000 (GCCARD % = 36)

Assumed GEN CO \$	\$ 3,091,200.00
Assumed GCCARD \$	\$ 1,738,800.00
Total Refunded \$	\$ 4,830,000.00
GCCARD %	36.00000000%

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Re-Financed Combined GCCARD/Court House Square Bonds after FYE 2012

Assumed GEN CO \$	\$ 3,091,200.00
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Assumed GCCARD \$ 1,738,800.00

Assumed GEN CO \$	\$ 3,091,200.00
Assumed GCCARD \$	\$ 1,738,800.00
Total Refunded \$	\$ 4,830,000.00
GCCARD %	36.00000000%

YEAR	36.0000000000%			36.0000000000%			36.0000000000%			36.0000000000%			36.0000000000%			Owed (est) Harrison St	Balance	39.7%
	GEN CO Interest Due Nov-1	GEN CO Interest Due May-1	GEN CO Total Due	GCCARD Interest Due	GEN CO Principal Due May-1	GCCARD Principal Due May-1	GEN CO FY Total Payment	GEN CO FY Total Payment	GCCARD FY Total Payment	GEN CO Principal Due (after)	GCCARD Principal Due (after)	GEN CO Balance Due (after)	GCCARD Balance Due (after)	GEN CO Owed (est) Saginaw St	GCCARD Owed (est) Saginaw St			
FYE 2012																		
FYE 2013	70,035.00		147,462.56	53,086.52	400,000.00	144,000.00	547,462.56	197,086.52	201,103.00	197,086.52	201,103.00	4,830,000.00	1,735,800.00	2012	1,048,013.00	690,787.00		
FYE 2014	64,235.00		128,470.00	46,249.20	440,000.00	158,400.00	568,470.00	204,649.20	203,544.00	204,649.20	203,544.00	4,430,000.00	1,594,800.00	2013	961,221.00	633,579.00		
FYE 2015	57,855.00		115,710.00	41,655.60	450,000.00	162,000.00	565,710.00	209,655.60	203,828.40	209,655.60	203,828.40	3,990,000.00	1,436,400.00	2014	865,750.00	570,650.00		
FYE 2016	51,330.00		102,660.00	36,957.60	465,000.00	167,400.00	567,660.00	204,357.60	203,103.00	204,357.60	203,103.00	3,540,000.00	1,274,400.00	2015	768,109.00	506,291.00		
FYE 2017	44,587.50		89,175.00	32,103.00	475,000.00	171,000.00	564,175.00	203,103.00	203,544.00	203,103.00	203,544.00	3,075,000.00	1,107,000.00	2016	667,213.00	439,787.00		
FYE 2018	37,700.00		75,400.00	27,144.00	490,000.00	176,400.00	565,400.00	203,544.00	203,828.40	203,544.00	203,828.40	2,600,000.00	936,000.00	2017	564,148.00	371,852.00		
FYE 2019	30,595.00		61,190.00	22,028.40	505,000.00	181,800.00	566,190.00	203,828.40	203,956.20	203,828.40	203,956.20	1,605,000.00	577,800.00	2018	457,827.00	301,773.00		
FYE 2020	23,272.50		46,545.00	16,756.20	520,000.00	187,200.00	566,545.00	203,956.20	203,927.40	203,956.20	203,927.40	1,085,000.00	390,600.00	2019	348,253.00	229,547.00		
FYE 2021	15,732.50		31,465.00	11,327.40	535,000.00	192,800.00	566,465.00	203,927.40	203,742.00	203,927.40	203,742.00	550,000.00	186,000.00	2020	235,423.00	155,177.00		
FYE 2022	7,975.00		15,950.00	5,742.00	550,000.00	198,000.00	565,950.00	203,742.00	203,742.00	203,742.00	203,742.00			2021	119,339.00	78,661.00		

[illegible]

GCCARD Series 2002 Bond Maturity Schedule
(Harrison / Saginaw Street Building Purchase \$2,700,000, Sept 2001)
Payments beginning Nov 2003 (FYE 2004)

		Interest Due Nov-1	Interest Due May-1	Total Interest Due	Principal Due May-1	Total	Principal Balance Due	
FYE	2004	63,736.25	63,736.25	127,472.50	90,000.00	217,472.50	2,610,000.00	2004
FYE	2005	61,936.25	61,936.25	123,872.50	95,000.00	218,872.50	2,515,000.00	2005
FYE	2006	59,988.75	59,988.75	119,977.50	95,000.00	214,977.50	2,420,000.00	2006
FYE	2007	57,993.75	57,993.75	115,987.50	100,000.00	215,987.50	2,320,000.00	2007
FYE	2008	55,843.75	55,843.75	111,687.50	110,000.00	221,687.50	2,210,000.00	2008
FYE	2009	53,423.75	53,423.75	106,847.50	115,000.00	221,847.50	2,095,000.00	2009
FYE	2010	50,836.25	50,836.25	101,672.50	120,000.00	221,672.50	1,975,000.00	2010
FYE	2011	48,136.25	48,136.25	96,272.50	125,000.00	221,272.50	1,850,000.00	2011
FYE	2012	45,261.25	45,261.25	90,522.50	130,000.00	220,522.50	1,720,000.00	2012
FYE	2013	42,271.25	42,271.25	84,542.50	135,000.00	219,542.50	1,585,000.00	2013
FYE	2014	39,166.25	39,166.25	78,332.50	145,000.00	223,332.50	1,440,000.00	2014
FYE	2015	35,758.75	35,758.75	71,517.50	150,000.00	221,517.50	1,290,000.00	2015
FYE	2016	32,158.75	32,158.75	64,317.50	160,000.00	224,317.50	1,130,000.00	2016
FYE	2017	28,278.75	28,278.75	56,557.50	165,000.00	221,557.50	965,000.00	2017
FYE	2018	24,236.25	24,236.25	48,472.50	175,000.00	223,472.50	790,000.00	2018
FYE	2019	19,905.00	19,905.00	39,810.00	185,000.00	224,810.00	605,000.00	2019
FYE	2020	15,280.00	15,280.00	30,560.00	195,000.00	225,560.00	410,000.00	2020
FYE	2021	10,405.00	10,405.00	20,810.00	200,000.00	220,810.00	210,000.00	2021
FYE	2022	5,355.00	5,355.00	10,710.00	210,000.00	220,710.00	-	2022
		749,971.25	749,971.25	1,499,942.50	2,700,000.00	4,199,942.50		

Breakdown of \$2,700,000 bond amount

			capitalized
Saginaw Street Purchase Price		1,263,222.76	1,263,222.76
Environmental		11,300.00	
Asbestos		6,500.00	
Boiler removal		6,000.00	
Renovation Costs		289,826.04	289,826.04
Bond Costs		48,000.00	
Building Study		2,500.00	
	60.27%	1,627,348.80	1,553,048.80
Harrison Street Purchase Price		804,679.38	804,679.38
Environmental		7,120.00	
Tank Removal		7,454.00	
Survey		2,000.00	
Renovation Costs		216,897.82	216,897.82
Bond Costs		32,000.00	
Building Study		2,500.00	
	39.73%	1,072,651.20	1,021,577.20
	100.00%	2,700,000.00	2,574,626.00

6

GCCARD - 2ND FLOOR - SOUTHWEST SUITE IMPROVEMENTS

11,100 SF

Construction Cost Estimate

May 31, 2017

Architectural Items

A. Shell Improvements

1. Upgrade northwest stairway	\$14,400	
2. Add windows at north wall	\$26,900	
3. Pour floor leveler throughout	\$70,200	
4. Infill window openings	\$5,000	
5. Roof replacement (this area only)	\$70,200	

Architectural Items-Shell Improvements Sub Total	\$186,700	\$186,700
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B. General Remodeling

1. New stud walls (insulated)	\$46,000	
2. Glass walls/sliding doors	\$98,000	
3. New wood doors/frames	\$14,000	
4. Suspended ceilings/PVC ceiling	\$156,300	
5. Painting	\$31,600	
6. Carpet	\$44,000	
7. Toilet Rooms	\$45,000	
8. Miscellaneous	\$25,000	

Architectural Items-General Remodeling Sub Total	\$459,900	\$459,900
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Mechanical Items

A. Plumbing (Toilet Rooms/Roof Drains/Gas)	\$60,000	
B. HVAC (New Heating/Cooling, Rooftop Units, Exhaust)	\$225,000	

Mechanical Items Sub Total	\$285,000	\$285,000
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Electrical Items

A. Lighting/Emergency Lighting	\$85,000	
B. Power/Data/Fire Alarm	\$98,000	

Electrical Items Sub Total	\$183,000	\$183,000
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CONSTRUCTION SUBTOTAL

\$1,114,600

Contingency Fund (10% Design)

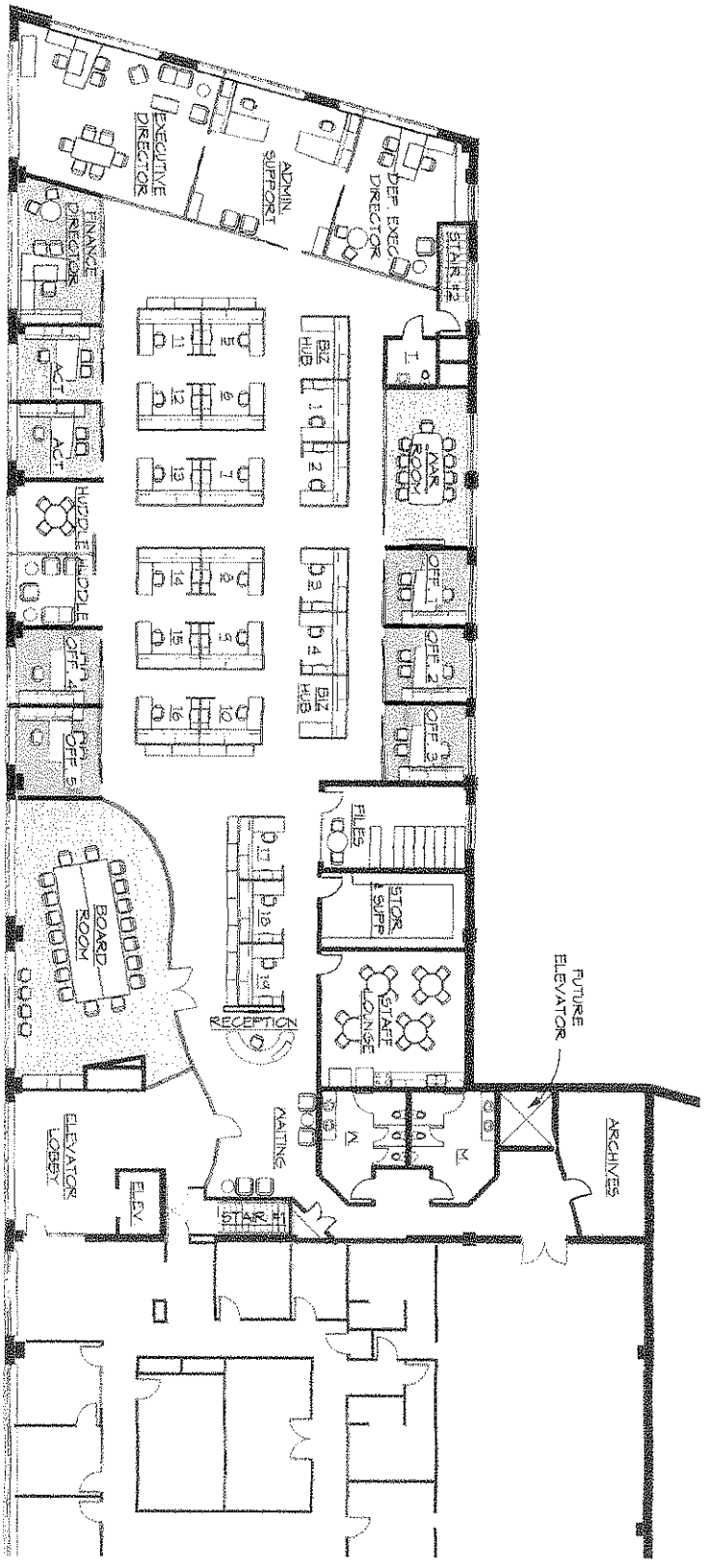
\$111,400

TOTAL PROJECTED CONSTRUCTION COSTS

\$1,226,000

JLB/clh

#6



NORTH
 1/16" = 1'-0"
 11,100 S.F.
 SOUTHWEST CORNER SUITE
SECOND FLOOR PLAN

Genesee County Community Action Resource Department FLOOR PLAN
 601 North Saginaw St. Flint, MI 48502

May 31, 2017

#6



Genesee County Community Action Resource Department
601 North Saginaw St. Flint, MI 48502

RECEPTION

May 31, 2017

#6



Genesee County Community Action Resource Department
601 North Saginaw St. Flint, MI 48502

OFFICE

MAY 31, 2017



**GENESEE COUNTY BOARD OF COMMISSIONERS
BOARD COORDINATOR**

1101 BEACH STREET, ROOM 312
FLINT, MICHIGAN 48502

TELEPHONE: (810) 257-3020
FAX: (810) 257-3008

JOSHUA FREEMAN
COORDINATOR

TO: Commissioner Henry, Chair Public Works
FROM: Joshua Freeman
DATE: August 25, 2017
RE: Flat Lot Design Work

Because of the tight timelines that we are working under to get a finished surface lot after demolition is finished at the McCree Ramp, this Committee should consider, via a **ROLL CALL VOTE**, the highest rated vendor from our review committee. The attached email from Purchasing outlines the process that the committee used in order to determine who, among the 7 proposals that we received, was best suited to meet the aggressive project that we have undertaken.

The review committee decided that the proposal from Johnson & Anderson would be the best choice to meet the needs of the County and would recommend your approval.

Please understand the immediacy of this matter. Just a matter of a couple days could have considerable impact on the County's ability to finish this project during this construction season.

Cunningham, Kim

From: Freeman, Josh
Sent: Friday, August 25, 2017 3:21 PM
To: Cunningham, Kim
Subject: FW: Scores for criteria evaluation 17-118
Attachments: JohnsonAnderson.pdf; Flat Lot.doc

See the attached letter. Please attach this email, the attached letter and proposal and add as agenda item.

Let me know if you see any errors.

Joshua M Freeman

Board Coordinator
Genesee County Board of Commissioners
1101 Beach St Room 312
Flint MI 48502

(810) 762-7762 Office
(810) 397-3797 Cell
jfreeman@co.genesee.mi.us

From: Carnes, Cindy
Sent: Friday, August 25, 2017 2:47 PM
To: Freeman, Josh
Cc: Zanke, Ray
Subject: Scores for criteria evaluation 17-118

Scoring was very consistent across the board. We each scored Johnson&Anderson the highest.

Final scores were:

Spalding DeDecker	78.71
Rowe	79.75
Johnson&Anderson	80.33

Josh, these are a bit higher than I initially stated, my formula was not summing all the data, same results just higher scores.

One modification to the scoring was the score for cost. I made that a static score for each proposal based on the lowest total cost was score 4, the next lowest 3.5 and so on. No score was given for Financial Stability, verification at SAM has been done and all firms have no exclusions.

Process selection summary:

Proposals for **RFP 17-118 Engineering Design Services for Surface Parking Lot** were due at 2:00 pm on August 24, 2017. Seven proposals were received, opened and reviewed for responsiveness and that the contractors were capable to do the proposed work. All seven proposals were acceptable and provided to the review team. Following individual review of the proposals, the team met to discuss qualifications, ability to meet the project deadline for 2017 and reasonableness of the cost.

The top three qualifying proposals were then scored by 3 team members on a 4 point scale applied to the six criteria defined in the RFP. After the weighted score was applied Johnson&Anderson is the top scoring proposal at 80.33.

I checked with the firms regarding construction staking and permits, all 3 firms responded essentially the same way.

Construction Staking- This service was not listed in the RFP and therefore that is why it was not addressed in our proposal. This matter can be handled in two different ways. It can be included in the bidding documents as a responsibility of the Contractor; which is fairly common, or it can be an additional service performed by Johnson & Anderson for an additional fee to be determined.

All required permit applications will be prepared by Johnson & Anderson, Inc. Permit fees are assumed to be a responsibility of the Owner, Genesee County. Permit fees are not included in our current proposal cost, but if so desired we would include them as an additional fee based on the actual charges incurred for each permit.

Cindy Carnes | Purchasing Manager | Genesee County Purchasing | 1101 Beach St., 3rd Floor | Flint, MI 48502 | 
(810) 257-3030 |  (810) 257-3380 | ccarnes@co.genesee.mi.us | gc4me.com

RESPONSE TO REQUEST FOR PROPOSALS

ENGINEERING DESIGN SERVICES

GENESEE COUNTY



SURFACE PARKING LOT

#17-118

August 24, 2017



 **Johnson & Anderson**

2387 S. Linden Road
Suite B-142
Flint, Michigan 48532



August 24, 2017

Ms. Cindy Carnes, Purchasing Manager
Genesee County
Purchasing Department
1101 Beach Street
Room 343
Flint, MI 48502

Re: Request for Proposals – Engineering Design Services for Surface Parking Lot #17-118

Dear Ms. Carnes:

Johnson & Anderson, Inc. (J&A) is pleased to submit our qualifications and proposal to Genesee County to perform preliminary engineering for the surface parking lot, located at Beach and 2nd Streets in the City of Flint. We have identified a project team of experienced professionals with expertise in various disciplines of design and construction engineering, survey, and project administration experience on local projects of a nature similar to the proposed project for Genesee County. Our proposal and qualifications are based on information provided by County staff, information contained in the Request for Proposals and Addendum #1, and previous experience in the area. We have examined the requirements of the Request for Proposals and based on this, we have included a proposed work plan and project team.

Johnson & Anderson provides consulting engineering services to a number of local and county governmental agencies throughout the State. We are currently providing Genesee County Drain Commissioner Water & Waste Services (GCDC-WWS) Supervisory Control and Data Acquisition (SCADA) support, training, and engineering services for the District #3 Wastewater Treatment Plant, as well as engineering services for a pilot closed-circuit television (CCTV) integration into GIS project. J&A is also currently providing engineering and project administration services to the City of Flint for their Stormwater, Asset Management, and Wastewater (SAW) Grant Implementation Project.

J&A has provided design and construction engineering services for numerous parking lot, pathway, and roadway projects, for: Oakland University; the Huron-Clinton Metropolitan Authority (HCMA); Berry Junction Trail Commission; the City of Bay City; the Village of Carleton; Laketon, Muskegon, Port Huron Charter, Waterford Township, and West Bloomfield Townships; Lapeer County and Saginaw County Road Commissions; Birmingham Public Schools; Chippewa Valley Schools; and a number of private development sites for Tim Hortons, General Motors, Ford, and Somerset Mall.

4494 Elizabeth Lake Road
Waterford, Michigan 48328
tel (248) 681-7800
fax (248) 681-2660

1060 W. Norton Avenue, Suite 7
Muskegon, Michigan 49441
tel (231) 780-3100
fax (231) 780-3115

2291 Water Street, Suite 6
Port Huron, Michigan 48060
tel (810) 987-7820
fax (810) 987-7895

2387 S. Linden Road, Suite B-142
Flint, Michigan 48532
tel (810) 820-9159
fax (248) 681-2660

Ms. Cindy Carnes, Purchasing Manager
Genesee County
Proposal for Engineering Services for Surface Parking Lot #17-118
August 24, 2017

J&A is currently providing engineering and project management services to the HCMA for the reconstruction of the Stony Creek Boat Launch, which includes removal and replacement of the existing boat ramp, docks, piers, and adjacent parking area.

We propose Mr. Ryan Whiteherse, P.E. as the Project Manager for this very important Genesee County project. Mr. Whiteherse has extensive experience with design engineering, construction engineering, and project oversight, previously serving as Director of Engineering for the Saginaw County Road Commission (SCRC). Furthermore, in his role with SCRC, Mr. Whiteherse has over 6 years' experience dealing with residents, businesses, and their patrons during construction projects, both through public meetings as well as one-on-one meeting to address their concerns. Mr. Whiteherse will be responsible for public engagement, technical expertise, utility coordination, and overall project implementation.

The staff that we have committed to this assignment has demonstrated experience in all aspects of consulting engineering to include: support surveying, right-of-way evaluation, preparation of design plans and specifications; permit and grant development; administration; and transportation engineering to include: parking lots, roads, and pathways; stormwater management, and a thorough knowledge of the governmental regulatory systems.

We are pleased to be partnering with DiClimente Siegel Design, Inc. (DSD) for mechanical and electrical engineering services, and with D&M Site, Inc. for geotechnical services on this project.

J&A's submittal reflects our understanding, vision, experience, and methodology to successfully complete the project while providing the great service and quality our firm has provided to our clients for over 70 years.

We look forward to the opportunity of working with you. Please call me if you have any questions regarding this proposal or Johnson & Anderson, Inc.

Very truly yours,

JOHNSON & ANDERSON, INC.



Terry G. Broemer., P.E.
President
(248) 681-7800
TGBroemer@ja-engr.com

Section 1	Business Organization
Section 2	Work Plan & Statement of the Project
Section 3	Labor Requirements, Staff Qualifications & Experience
Section 4	Additional Information & Comments
Section 5	Forms Statement of Exceptions Signed Signature Page Executed Insurance Checklist References
Section 6	Cost Proposals

HISTORY OF FIRM

The consulting engineering firm of Johnson & Anderson, Inc. (J&A) was originally founded in 1946 as Clark, Johnson & Anderson. Since that time, Johnson & Anderson has continued to strengthen and diversify our engineering and technical expertise to provide a comprehensive range of surveying, civil engineering design, construction, and study services. J&A is a Michigan-based, C-Corporation, registered with the Michigan Department of Commerce under the name of Phoenix Engineering, Inc. doing business under the name of Johnson & Anderson, Inc. J&A has professional engineers and a surveyor on staff licensed in the States of Michigan and Ohio.

CORPORATE OFFICERS AND PRINCIPALS

Johnson & Anderson is engaged in the practice of engineering in the State of Michigan. The officers and principals are:

- Terry G. Broemer, P.E., President, Michigan Registration
- John J. Emig, Jr., P.E., Vice President, Michigan Registration
- Gregory J. Gucwa, P.E., Secretary, Michigan Registration
- Terry E. Biederman, P.E., Principal, Michigan Registration
- Randy L. Parrett, P.E., Principal, Michigan Registration
- Timothy W. Weir, P.S., Principal, Michigan and Ohio Registration

FACILITIES

J&A's home office is located in Waterford, Michigan, serving clients throughout the State of Michigan. To better provide services to our clients, J&A also maintains branch offices in Flint, Port Huron, and Muskegon. The office addresses are listed below. Our Principal-in-Charge, Project Managers, and the majority of the staff for this proposed project are retained out of the Flint and Waterford offices, which are in close proximity to the proposed project area.

4494 Elizabeth Lake Road
Waterford, Michigan 48328
Phone: (248) 681-7800
Fax: (248) 681-2660

2387 S. Linden Road, Suite B-142
Flint, Michigan 48532
Phone: (810) 820-9159
Fax: (248) 681-2660

2291 Water Street, Suite 6
Port Huron, Michigan 48060
Phone: (810) 987-7820
Fax: (810) 987-7895

1060 W. Norton Avenue, Suite 7
Muskegon, Michigan 49441
Phone: (231) 780-3100
Fax: (231) 780-3115

BRIEF OVERVIEW OF TECHNICAL EXPERTISE

J&A has significant local experience representing municipalities, school districts, universities, and developers in service areas that include:

- Surveying
- Geographic Information System (GIS) development
- Road, sidewalk, and pathway design services
- Traffic and signal design services
- Pedestrian pathways
- Site development engineering
- Water resources management
- Construction layout and inspection
- Construction administration
- Supervisory Control and Data Acquisition (SCADA) program development and implementation
- Computerized Maintenance Management Systems (CMMS) development and implementation
- Asset Management
- Document Management development and implementation
- Capital Improvement Planning
- Sanitary sewer, storm sewer and water system design and analysis
- Site plan review
- Hydraulics including water, sewer and storm hydraulic modeling
- Environmental services including municipal water and waste water treatment
- Solid waste management
- MS4 regulatory compliance
- Soil Erosion and Sedimentation Control and NPDES Services
- Bioengineering
- River restoration and aquatic habitat enhancement
- Recreation site with water play features
- Sports fields
- Docks and boat launches
- Auxiliary buildings
- Playgrounds
- Project Funding

Survey Services

J&A utilizes modern surveying equipment and practices to provide clients with a quality product at a reasonable rate. The survey staff utilizes the Michigan Spatial Reference Network (MSRN), along with Leica GS15 series GPS receivers, to establish control for multiple projects. Fully robotic total stations, Leica TS15P, are utilized for data collection when



Real Time GPS is not feasible. The final product is processed in Civil 3D 2016 or ArcGIS 10.3 and reviewed by senior staff before release.

J&A has skilled surveyors that are capable of performing construction staking and layout as well as construction inspection. This experience gives them the ability to detect conflicts and inconsistencies in the field before construction begins resulting in fewer construction and post-construction problems, complaints and claims.

J&A offers the following survey and inspection services to meet the day to day needs of clients:

- ALTA & Boundary Surveys
- Asset Management Support for GIS and Municipalities
- NASSCO Manhole Inspections
- County Drain, Wetland & Well Head Protection Mapping
- Condominium Exhibits
- Topographic & Photometric Control Surveys
- Subdivision Plats & Land Divisions
- Easement Exhibits and Acquisition
- Flood Certificates
- Construction Staking & Layout
- As-Built Surveys
- Industrial & Municipal Infrastructure Mapping

CAD

J&A designers are fully trained and experienced in the use of AutoCAD Civil 3D software. Our knowledge and use of this software enables the project team to design, analyze, and visualize projects more efficiently. The built-in functions of the software combined with the experience of our project team of engineers and designers allow for better identification and resolution of potential conflicts and to optimize design. Benefits of this approach include:

- Reduction of drawing and calculation time as a result of using automatic generation for mapping, profile plans, latitudinal sections, general earthwork, etc.;
- Elimination of graphic representation errors ensuring plans are generated based on the client's drawing standards;
- Reduced drawing change requests with the use of a unique and dynamic 3D model;
- Automatic transfer of data from the CAD software to survey data instruments;
- Elimination of quantity estimation errors by using optimized calculations for filling and excavating;
- Creation of as-built files in a format that can be easily imported into a client's GIS.

Engineering Design and Site Development Services

Johnson & Anderson performs professional services related to surveying, design, and construction of local and major roads, parking lots, pathways and sidewalks, water supply systems, storm drainage systems, waste water collection systems, park improvements, commercial site

development, and projects that include bio-engineering. J&A has been performing these services meeting federal, state, and county criteria and regulations, and local engineering standards for clients for many years.

Generation and acquisition of field surveys, materials testing, geotechnical and soils investigations, subaqueous investigations, contaminated soil investigations, wetland and woodlands determinations, and other necessary information is obtained for the successful design of the project.

Plans and specifications, including all necessary bid documents and technical specifications, are developed meeting local, county, state, and federal standards and meet funding requirements as needed. Construction permit applications are filed with the appropriate agencies and once permits are obtained, J&A facilitates the bidding process.

J&A is also well versed in adopted road policies and procedures for processing special assessment districts. J&A has prepared engineer's opinions of probable cost (cost estimates) to assist clients in planning for financing and budgeting for all types of projects, as listed above.

J&A proposes to perform all necessary surveying and construction layout with stakes generally set on 100-foot centers (except on curves or other areas where tighter staking would be required to facilitate construction) for all radius points, points of beginning and ending of all curves, and at all bends, tees, and other appurtenances for all utilities. Some utility relocation staking may also be required as well as restoration staking. Staking of restricted areas may also be required. Items of work requiring construction staking generally includes sanitary and storm sewers, water main, roads, drainage, and lot lines. As with completion of survey work, construction layout will be performed using a combination of robotic total station and real time GPS equipment.

Inspection

J&A has been providing construction inspection services for over 60 years and was one of the pioneers in representing communities during the construction of extensions of utilities including sanitary and storm sewer collection systems and water distribution systems.

Our construction inspection services are performed by trained and knowledgeable project staff ensuring that construction activities are effectively monitored and built according to the approved project plans and specifications. In addition, construction services project staff will make certain all materials utilized are acceptable as specified and are properly installed. Upon completion of a project, project staff will witness and document milestone events including



water main pressure testing and disinfection and sanitary sewer air testing and/or infiltration/exfiltration testing.

Construction Engineering/Contract Administration

J&A has a long history of performing construction engineering for a variety of municipal clients on many types of projects, including projects for which plans and specifications were prepared by other firms. Contract administration responsibilities include: preparation of contract construction and insurance documents, issuance of notices to proceed, conduction of project meetings, review and reporting on claims, review of shop drawings and submittals, review and preparation of applications for payment and preparation of change orders, handling of complaints and general administration of the project.

Before recommending final acceptance of any project, project review staff and their project manager will meet at the job site with Township staff, contractor(s), regulating agency staff, and developer, as required, to review the work and to prepare a deficiency punch list. Before recommending final acceptance of the improvement to the Township, all punch list items will be monitored and corrected, appropriate bonds will be reviewed to accurately guarantee against faulty material and workmanship and As-built or Record drawings to the Township will be provided.

J&A project staff members are very sensitive in regards to handling of citizen complaints as they relate to the implementation of construction projects. Inspectors are taught to handle complaints objectively and to address the complaints in a timely manner. If possible, the incident is handled in the field and does not result in a formal complaint. Formal complaints are documented and must have a disposition rendered before the contract is complete. All project documents are packaged and submitted to the Owner upon completion of the project.

Project Close-out and As-Built

J&A will provide a complete construction certification package at the completion of the project, which will include a minimum of: witness sheets for each appurtenance, a complete set of approved shop drawings and catalog cuts, all test results and all daily inspection reports and record drawings. All as-built plans or record drawings will conform to the County's standard specifications and format. Plans will be provided to the County as hard copies and electronically, as required. Project record documentation for utilities and appurtenances, will be obtained using real time GPS to facilitate incorporation into GIS, as required.

Permit Acquisitions

Many engineering projects involve permitting through government agencies. J&A project staff has been involved in the acquisition of numerous permits for construction of roadways, parking lots, pathways and sidewalks, sanitary sewers, storm sewers and outfalls, flood plain and stream modifications, and water and wastewater treatment plants through a variety of agencies. Most J&A

project permits are issued through the MDEQ, MDOT, County Water Resources/Drain Commissioners' offices, Macomb County Department of Roads, and the U.S. Army Corps of Engineers. The following outlines permit applications that are routinely prepared and submitted for public works projects by J&A:

MDEQ Permits include:

- Act 451, Part 303, Wetland Protection;
- Act 451, Part 301, Inland Lakes and Streams;
- Act 399, Safe Drinking Water Act for Water System Construction permits;
- Act 451, Part 31, Water Resources Protection;
- Act 451, Part 41, Wastewater Systems; and
- Act 641, Solid Waste.

MDOT - Permits for construction activities on projects constructed within rights-of-way under jurisdiction of MDOT

U.S. Army Corps of Engineers (Joint Application with MDEQ) - Permits

Local Permits - Soil Erosion and Sedimentation Control under Act 451, Part 91 and local permits issued by various counties.

AUTHORIZED NEGOTIATORS

Mr. Terry G. Broemer, P.E., Johnson & Anderson, Inc.'s president is authorized to negotiate a contract with Genesee County.

Mr. John J. Emig, Jr., P.E., Johnson & Anderson, Inc.'s vice-president is also authorized to negotiate a contract with Genesee County.

Mr. Broemer can be reached at (248) 681-7800; TGBroemer@ja-engr.com. Mr. Emig can be reached at (248) 681-7800; Jemig@ja-engr.com.

UNDERSTANDING OF THE PROJECT

The project consists of design for a surface parking lot, located at Beach and 2nd Streets to be constructed at the location of a to-be-demolished parking structure (to be performed by others) in the City of Flint. The parking lot design will also include stormwater management, landscaping, lighting, electrical service, gate control, and decorative fencing. A review of the existing adjacent surface parking lot is to be included to determine if resurfacing or total reconstruction is required. All documentation during the parking structure demolition (soils assessments, etc.) will be reviewed prior to the design phase.

It is anticipated the deliverables for the design project will consist of a construction set of drawings and specifications suitable for construction of the proposed parking lot. The drawings will include, at a minimum: a Site Plan, Grading Plan, Utility Plan (for Stormwater Management), Electrical Plan, Lighting Plan, Landscaping Plan, and necessary detail sheets. If the existing employee parking lot is removed and incorporated into the design, a Demolition Plan will also be necessary. All design services will be performed in accordance with applicable local, state, and federal laws, regulations, and guidelines.

This project has a very aggressive planned schedule and can only be met if the following occurs:

1. The demolition of the existing parking deck, compacted Class II MDOT backfill is placed, and the area is cleaned up per the projected schedule;
2. No stormwater detention is required for the City's stormwater management program;
3. City of Flint Site Plan approval is not required. If required, add a minimum of six (6) weeks to the schedule; and
4. The weather remains suitable for hard surfacing the parking lot in late fall.

If these items are not met, J&A suggests that a temporary gravel parking lot be installed in the late fall to accommodate employees until a permanent lot can be completed.

DESIGN PHASE - WORK PLAN

Based on the information available, our experience, and expertise, the Design Phase will include the following tasks:

1. Relevant staff from Johnson & Anderson, Inc. (J&A) and DiClemente Siegel Design (DSD) shall attend a kick-off meeting with representatives of Genesee County and other stakeholders. A detailed review of the scope of services, schedule, and constraints will be completed. J&A will provide weekly email memo updates of design progress and will notify the Owner of any problems that arise as soon as they are identified.
2. J&A will meet with the City of Flint personnel to determine the stormwater outlet location, capacity and if stormwater detention will be required.

3. J&A will perform project management to monitor budgets, schedules, and assign personal to complete the project on time and within budget.
4. J&A will complete a QA/QC review of the plans and specification for constructability, completeness, and clarity.
5. J&A will coordinate and monitor work products, schedule, and budgets of subconsultants.
6. J&A will complete all necessary permit applications for the project.
7. J&A will complete a site topographic survey to include at a minimum to centerline of adjacent roads, but excluding the foot print of the existing parking structure and prepare a base plan sheet for design.
8. J&A will determine the location and number of soil borings to be taken and stake out these soil boring locations.
9. J&A will inspect and assess the current surface parking lot condition and determine if resurfacing or reconstruction is required.
10. J&A will prepare a preliminary parking lot design showing drainage, parking space layout, landscaping location, fence location, lighting locations, and access points. A temporary gravel parking surface plan will also be prepared.
11. J&A will review the preliminary design with the Owner and incorporate comments into the final plan set.
12. J&A will prepare technical specifications for the project to be used with the Owner's boiler plate front end documents.
13. J&A will prepare an engineer's estimate of probable cost for the project.

DESIGN PHASE DELIVERABLES

1. All design calculations.
2. Final plans and an electronic (PDF) version of the plans.
3. Technical specifications and an electronic version of these specifications.
4. Copies of meeting minutes and design review comments.
5. Copies of completed permit applications.

BIDDING & CONSTRUCTION SERVICES

In accordance with the Request for Proposals #17-118, the scope of services for this phase is as follows:

1. Provide bidding documents and clarifications during the bidding period.
2. Review working drawings.
3. Attend a preconstruction meeting and prepare minutes for the meeting.
4. Make occasional visits to the project site and provide site inspection reports.

BIDDING & CONSTRUCTION SERVICES PHASE DELIVERABLES

1. Bidding documents.
2. Specifications.
3. Minutes from preconstruction meeting.
4. Site visit reports.

SCHEDULE

Award from Genesee County ~ September 11, 2017
Project Kick-Off Meeting ~ September 12, 2017
Survey Field Work ~ September 13-15, 2017
Design Plans submitted to Genesee County ~ September 29, 2017
Bidding ~ October 16, 2017
Construction Commences ~ October 23, 2017
Construction Complete ~ November 22, 2017

The above schedule would have the construction completed in 2017, however there are some key assumptions necessary for that to happen. We have assumed the project will be awarded as anticipated on September 11th and kick-off can happen the day; The demolition of the existing parking structure is completed and all backfill properly placed and compacted by October 15th; the project can be advertised and bid between September 29th and October 16th (2 weeks); no Site Plan approval by the City of Flint will be required (zoning regulations will be adhered to); construction can start within one week of receiving bids (including award of the construction contract by the County); no major storm water management construction is required (i.e. underground detention or other time consuming earth changes).

If all of these assumptions do not hold, it will not be feasible for the construction to be completed in 2017. Likely, one (or more) of the listed items will not happen, and a majority of construction activity will have to take place in the spring of 2018. In the event the project cannot be completed this year, J&A will design and prepare specifications for a temporary gravel parking area for use during the winter, and will propose the following schedule:

Award from Genesee County ~ September 11, 2017
Project Kick-Off Meeting ~ September 14, 2017
Survey Field Work ~ September 18-22, 2017
Design Plans for temporary parking submitted to Genesee County ~ October 6, 2017
Bidding for temporary parking ~ November 1, 2017
Conceptual Design Plans submitted to Genesee County ~ November 10, 2017
Construction of temporary parking ~ November 20-December 15, 2017
Design Determination from Genesee County ~ December 1, 2017
Final Design Plans submitted to Genesee County ~ January 12, 2018
Genesee County and Permit Reviews ~ February 2, 2018
Bidding ~ February 28, 2018
Construction Contract Award ~ March 12, 2018
Construction Commences ~ April 9, 2018
Construction Complete ~ May 25, 2018

Section 3

Labor Requirements, Staff Qualifications & Experience

PROJECT TEAM

Johnson & Anderson, Inc. is proposing to utilize a team of experienced professionals to perform preliminary engineering and trail design services for the **Genesee County Engineering Design Services for Surface Parking Lot** project located in the City of Flint at Beach and 2nd Streets.

J&A is proposing that Mr. Gregory Gucwa, P.E., serve as Principal-In-Charge and the County's primary contact, or liaison between J&A and Genesee County. Mr. Gucwa is uniquely qualified to perform this function having recently served as Principal-In-Charge on similar projects that required extensive surveying, design of parking lots, and construction administration. Mr. Gucwa is a resident of Genesee County and is very familiar with the infrastructure in Genesee County and the City of Flint.

Mr. Ryan Whiteherse, P.E., will serve as Project Manager. Mr. Whiteherse has over 15 years' experience in transportation engineering, working, and cooperating with various County road agencies, cities, townships, villages, MDOT, Federal Highway Administration (FHWA), MDEQ, and MDNR. He also has a working knowledge of Act 51 administration, Rural and Urban Federal Aid funding, grant applications, (Local Bridge, Safety, Economic Development, etc.) and Road Commission operations. Mr. Whiteherse is the former Director of Engineering for the Saginaw County Road Commission.

Providing assistance to Mr. Whiteherse are Ms. Nancy Kolinski, P.E., and Mr. Michael Leuffgen, P.E. Ms. Kolinski has over 22 years of experience in the civil and municipal engineering field with a Bachelor of Science in Civil Engineering from Wayne State University and has been employed at J&A for 10 years. She is a Certified Storm Water Operator for Construction Sites and maintains the Soil Erosion and Sedimentation Control Certification as required by the MDEQ. Mr. Michael Leuffgen has over 13 years' experience civil engineering. He has a Bachelor of Science in Civil Engineering from Wayne State University and specializes in contract administration, site design, and hydraulics.

Mr. Timothy W. Weir, P.S., will coordinate and direct all surveying and CAD activities. He will be responsible for monitoring survey and CAD related work tasks to ensure that the proper resources are being allocated to maintain project schedules and be certain the deliverables meet the intent and timeline of the County. Mr. Weir has over 19 years of experience and is licensed in the States of Michigan and Ohio.

Subconsultants

J&A proposes to utilize DiClimente Siegel Design, Inc. (DSD), located in Southfield, Michigan, for mechanical and electrical services on this project. DSD has been providing engineering and architectural services for nearly 50 years. J&A has a great working relationship with DSD. We have worked on numerous projects together for nearly 15 years. The project example that DSD has provided (Birmingham Public Schools – Parking Improvements) was one in which J&A and DSD worked together for the school district.

Johnson & Anderson proposes to utilize D&M Site, Inc., located in Carrollton, Michigan, for geotechnical services. D&M Site, Inc. is staffed by qualified individuals with many years of experience with geotechnical engineering experience.

RESUMES

Resumes of J&A and DSD Project Team members are provided on the following pages. As can be seen from the resumes, J&A's staff members are highly qualified and have many years of experience on pathways grant projects and large parking areas similar to the **Genesee County Engineering Design Services for Surface Parking Lot** project.

RELATED EXPERIENCE

The following are recent examples of related project experience where J&A has provided planning, design, and construction engineering services for pavement reconstruction or installation throughout the State of Michigan:

- West Bloomfield Township – Water And Sewer Department Building Site Improvements
- Oakland University – 2011 Campus Wide Pavement Repairs
- Port Huron Township – Bakers Field Park Development – Phase I
- Laketon Township – Non-Motorized Pathway – Phase I
- Saginaw County Road Commission – Hart Road Reconstruction
- Charter Township of Muskegon – M-120 Non-Motorized Pathway
- West Bloomfield Township – Stonebridge Paving

The following are examples of related project experience, offered by our subconsultants:

DiClemente Siegel Design

- Oakland University – LED Site Lighting Evaluation and Upgrade
- University of Detroit Mercy – Dental School Parking Lot Revisions and Lighting Upgrades
- Birmingham Public Schools – Parking Improvements

POSITION: Principal

SPECIALIZATION: Water Treatment and Storage, Wastewater Treatment, Pumping Stations, Site Plan Design, Road Design

QUALIFICATIONS: B.S. Civil Engineering
Michigan State University

REGISTRATION: Professional Engineer: Michigan

EXPERIENCE: 1996 – Present: Johnson & Anderson, Inc.
1993 – 1996: CHMP
1975 – 1993: Wade Trim

PROJECT EXPERIENCE:

- Project Engineer for the exterior concrete pavement truck dock and road at the GM Pontiac Plant 25 facility in Pontiac, Michigan.
- Project Manager and Design Engineer for the State Street and Market Street Storm Sewers in the City of Algonac.
- Project Manager for Pierson Road widening project. Project was two miles long and involved changing a 4 lane curb and gutter roadway section to 5 lanes with curb and gutter.
- Project Manager on Bay City Riverwalk Pier. A 740 foot long foot bridge constructed on existing railroad piers and intermediate pile bents. Responsible for design, construction
Inspection, and pay estimates.
- Project Engineer for the parking lot for the Engine Plant at the Ford Rouge site in Dearborn, Michigan.
- Project Engineer for railroad track removal and site grading at the GM Truck and Bus facility in Flint, Michigan.
- Project Engineer for site work and utility relocation at Somerset South - Saks Fifth Avenue expansion.
- Project Manager for new 4,500 gpm iron filtration plant in Waterford Township. Project consisting of three new wells, two pressure filters, chemical additions, sanitary sewer pump station, and force main for filter backwash disposal, the treatment plant building, and all necessary controls (including SCADA) and appurtenances was funded with a Drinking Water Revolving Fund Loan.

- Project Manager for 3,000 gpm iron removal water treatment plant rehabilitation. Project consisted of feasibility study to determine cost effective alternatives and design of replacement pressure filters with associated piping.
- Project Manager for 1 million gallon ground storage tank and pump station with three 250 Hp vertical turbine can pumps for Muskegon Township. Project included complete control and SCADA system integrated with the City of Muskegon's existing SCADA system.
- Project Engineer for Waterford Township Drinking Water Revolving Fund Project Plan development and implementation, design engineering, plans and specification development, bidding, and construction contract administration for lining 11,400 feet of 8-inch water main, replacement of 8,600 feet of 6-inch water main with directionally drilled 8-inch water main and installation of 18,000 residential water meters.
- Project Manager for Design of a 2,000 GPM pressure vessel iron removal plant consisting of two horizontal pressure filters, chemical feed systems, air scour blowers, backwash tank and discharge pump, new building to house the facility for White Lake Township.
- Project Manager for a 3.5 MGD Water Booster Pump Station and 600,000 gallon elevated Water Storage for the Port Huron Charter Township. Responsible for design, shop drawing review, and start-up of the system.
- Project Engineer for a 6,000 GPM Water Booster Pump Station for the Charter Township of Waterford. Responsible for contract administration, shop drawing review, pay estimate preparation and start-up.
- Project Manager/Design Engineer for 12 inch diameter South Bogie Lake Road pressure sewer to serve the western district of White Lake Township. The project required design to maintain minimum velocity in the initial stage with the use of the existing Huron Valley Schools sanitary pump station and to provide for service for the entire western sewer district. The project consisted of 6000 LF of 12 inch diameter HDPE DIP size forcemain, several forcemain structures and a preliminary design for future side street connections.
- Project manager/engineer for a zero-depth water spray park, water supply well and water treatment system at Kensington Metropark for Huron-Clinton Metropolitan Authority.
- Project engineer for an environmental education center complex to include water supply well, water distribution, on-site wastewater disposal, and zero-depth water spray park at Indian Springs Metropark for Huron-Clinton Metropolitan Authority.
- Project Engineer for the mechanical and piping system for a water spray park at Lake St. Clair Metropark for the Huron-Clinton Metropolitan Authority.

POSITION: Transportation Engineer

SPECIALIZATION: Transportation Engineering, Road Design, Traffic Signal Design, Transportation Funding, Bridge System Management, Asset Management, Project Management

QUALIFICATIONS: Bachelor of Science in Aerospace Engineering, University of Michigan

REGISTRATION: Professional Engineer: Michigan

EXPERIENCE: 2 years with Johnson & Anderson, Inc.
2 years with OHM Advisors
6 years with Saginaw County Road Commission
6 years with RC Engineering/Wilcox Professional Services
Certified Storm Water Management Operator
Soil Erosion and Sedimentation Control Comprehensive

AFFILIATIONS: County Road Association of Michigan (CRAM) Engineering Committee, 2010-2013
Chair (2013) and Vice Chair (2012) of Michigan County Engineers Workshop
Mid-Eastern Michigan Chapter American Public Works Association President/Board Member, 2008-2011

PROJECT EXPERIENCE:

- Johnson & Anderson
 - Huron-Clinton Metropolitan Authority (HCMA) – Stony Creek Boat Launch Reconstruction. Provided design engineering for the removal and replacement of the existing boat launch, docks, piers, and adjacent parking lot.
 - Lapeer County Road Commission – Otter Lake Road at N. Lake Road Intersection Safety Project. Provided design engineering for the road reconstruction, consisting of 0.42 miles, funded by the Federal Road Safety Program.
 - Saginaw County Road Commission – Hart Road Reconstruction. Provided design engineering for the road reconstruction, consisting of 0.42 miles, funded by the Federal Land Access Program.
 - City of Pontiac – N. Saginaw Street Design of 0.91 Miles of Urban Collector road reconstruction with curb and gutter, water main replacement, drainage improvements, ADA ramp upgrades, access management and permanent signage and striping.
 - West Bloomfield Township – Manor Homes at Aldingbrooke. Construction management and oversight of \$1,500,000 subdivision road reconstruction project, with extremely tight work environment and resident involvement.
 - West Bloomfield Township – Stonebridge Subdivision. Construction

management and oversight of road resurfacing project in existing subdivision, including ADA ramp upgrades, spot curb replacement and repair of failing 14' - 8" x 4' - 1" aluminum box culvert.

- Port Huron Charter Township – Water Street Pathway. Design of non-motorized trail utilizing Federal Aid Transportation Alternatives Program (TAP) funds, which involved coordination with St. Clair County Road Commission road reconstruction and bridge replacement project.
- OHM Advisors
 - City of Livonia – Asphalt and Concrete Rehabilitation/Reconstruction Projects. Provided design and full construction engineering services dealing with public issues during construction.
 - City of Rochester Hills – Sheldon Road Reconstruction. Oversaw the design and coordinated the utility conflict resolution for a ¼ miles of roadway and storm drainage construction.
 - Generated projects and managed them from design to construction.
 - Assisted Departments and other Project Managers with overflow work from existing clients.
- Saginaw County Road Commission
 - Thomas Township – Miller Road, Gratiot to State. Project Engineer for the design of pavement removal and replacement of 1 ½ miles located within Saginaw County. Project included pavement and curb and gutter removal, drainage improvements, intermittent sidewalk removal and replacement, and pavement marking and signing upgrades.
 - Saginaw Township – Brockway Road. Project Manager for road reconstruction, including widening, crushing, and shaping, addition of curb and gutter, storm sewer replacement, and ADA sidewalks. Responsibilities included: preparing permits, utility coordination, budgeting, scheduling, and construction oversight.
 - Saginaw/Kochville Townships – Tittabawassee Road. Project Manager for full-depth mill and fill of over 1 mile of five lane roadway including multiple traffic upgrades while maintaining 2-way traffic. The project required coordination of the staging and maintenance of traffic with MDOT and local businesses. The project was completed in 6 weeks, utilizing Act 51 Funds with MDOT supervision as a Local Agency Project.
 - Saginaw Township – McCarty Road Reconstruction. Project Manager as County Highway Engineer for road reconstruction, including widening, crushing, shaping, addition of curb and gutter, storm sewer replacement, and ADA sidewalks. Responsibilities included: preparing permits, utility coordination, budgeting, scheduling, and construction oversight.
 - Saginaw/James Townships – Center Road over Tittabawassee River. Project included: construction of a four-span concrete beam bridge with an accompanying pedestrian structure, including earthwork, approach work, HMA pavement, traffic control and pavement markings in accordance with

MDOT, MTM, and ASTM specifications and standards.

- Saginaw County Annual Concrete Pavement Repair - Project Manager as County Highway Engineer for concrete pavement slab and joint repair/replacement projects for 2007-2013. Projects consisted of design, bidding, construction oversight and contract administration.
- Saginaw County – Signal design. Designed traffic signal replacements/installations at the following intersections:
 - o Tittabawassee Road at Mackinaw – replacement; upgrade to Flashing Yellow Arrow turn signal
 - o Tittabawassee Road at Fortune - replacement; upgrade to Flashing Yellow Arrow turn signal
 - o Tittabawassee Road at Center - replacement; upgrade to Flashing Yellow Arrow turn signal and addition of pedestrian signals
 - o Center Road at Heritage High School Student Entrance - replacement; upgrade to Flashing Yellow Arrow turn signal and addition of pedestrian signals
 - o Center Road at Heritage High School Bus/Staff entrance – new installation; New signal at previously uncontrolled intersection, added pedestrian signals and coordination with nearby student entrance signal
 - o McCarty Road at Barnard – replacement; upgraded existing diagonal span to a box span as part of safety project to add left-turn lanes at the intersection.
- Responsible for budgeting, planning, and implementing up to \$20 Million worth of projects on an annual basis.
- Prepared budgets and adherence for the Road Commission.
- Assisted the Director with day-to-day operations, represented the Road Commission to Townships, task forces, etc.
- Supervised operation of permits, construction, signals/electrical personnel, and ensuring all projects were completed on time and within budget.
- Obtained over \$20 Million in competitive grants (Safety/Economic Development/Critical Bridge)

AWARDS: CRAM Merit Award for Distinguished Service, 2014

POSITION: Project Engineer

SPECIALIZATION: Civil Engineering – Site Development, Water and Sanitary and Storm Sewer Design, Project Management

QUALIFICATIONS: Bachelor of Science Civil Engineering - Wayne State University
MDEQ – Certified Storm Water Operator
MDEQ – Soil Erosion and Sedimentation Control Training

REGISTRATION: Professional Engineer: Michigan, Arizona

EXPERIENCE: 22 years various Engineering Firms

PROJECT EXPERIENCE:

- Consulting Engineer for West Bloomfield Township, Michigan – includes:
 - Attending Planning meetings;
 - Office hours at Township Hall;
 - Answering questions by citizens, township employees, developers, design professionals;
 - Researching of historical data;
 - Assisting Engineering Aide with plot plans, grade certifications, drainage issues;
 - Construction plan design for installation of new and rehabilitated water mains;
 - Reviewing drainage issues; complete site visits if necessary;
 - Preparing preliminary cost opinions for special assessment districts;
 - Performing plan reviews.
- Stonebridge Paving – West Bloomfield Township. Provided site design and project management for the implementation of a Special Assessment District to replace an aging paved surface within the Stonebridge Subdivision.
- Nash Acres Paving – West Bloomfield Township. Provided site design and project management for the implementation of a Special Assessment District to replace an aging paved surface within the Nash Acres Subdivision.
- 2013/2014 Non-Motorized Pathway Program – West Bloomfield Township. Provided site design and project management for various segments identified in the Township Master Safety Path Program.
- Campus Wide Pavement Repairs – Oakland University. Responsible for site design and project administration for various road and parking lot repairs throughout the campus.
- DWRP Program – West Bloomfield Township. Provided Construction Contract Administration of DWRP Program that included several miles of water main installation and replacement and construction or rehabilitation of 13 Pressure Reducing Facilities.

POSITION: Project Engineer, Process Engineer

SPECIALIZATION: Hydraulics, Contract Administration

QUALIFICATIONS: Bachelor of Science Civil Engineering, 2005
Wayne State University

MDEQ – SESC Comprehensive

REGISTRATION: Professional Engineer: Michigan

EXPERIENCE: 8 years with Johnson & Anderson, Inc.
5 years with various Engineering Firms

AFFILIATIONS: Engineering Society of Detroit

PROJECT EXPERIENCE:

- Project Engineer/Contract Administration for development of Water Street Pathway in Port Huron Charter Township. The pathway project consisted of approximately 2,120 lineal feet of bituminous pathway, 10 feet in width.
- Project Engineer/Contract Administration for development of Bakers Field Park Improvements in Port Charter Huron Township. Project consisted of developing a park focused on recreational facilities that are handicap accessible. Accessible recreational facilities include a fishing pier, boat launch and kayak launch on the Black River, 2,000 feet of pathway, and picnic areas. 2011. Total Project Cost of \$800,000.
- Project Engineer for Brookshire Office Plaza in Sterling Heights, Michigan. Project consisting of site design for 5 building office plaza including grading, storm water management, water main, sanitary sewer. 2006. \$35,000 in Professional Services.
- Project Engineer for Shelby Woods North in Shelby Township, Michigan. Project consisting of site design for a 196 unit condominium development including grading, water main, sanitary sewer, storm water detention, wetland mitigation. 2006. \$35,000 in Professional Services.
- Project Engineer/Contract Administration for Strawberry Lane Pump Station and Forcemain Rehabilitation. Project included design and construction of 5,300 of directionally drilled 10-inch diameter forcemain and rehabilitation of existing pump station to include an above ground pump house, new valves, meters, and control equipment. The design also integrated station control and SCADA equipment into the existing Township system.

- Project Engineer/Contract Administration for Waterford Township State Revolving Fund (SRF) loan pump station rehabilitation project. Project included complete rehabilitation of 11 sanitary sewage pump stations including new pumps, control buildings, new controls and instrumentation, connections for portable emergency pump and coordination with the Township's SCADA system. Project also included meeting all Michigan Department of Environmental Quality SRF loan requirements and milestone dates.
- Project Engineer/Contract Administration for rehabilitation of 11 Sanitary Sewer Pump Stations in the City of Pontiac. Projects included pump replacements, SCADA RTU installation, control modifications, and pump building roof and structure renovations. Project consisting of assessment of existing facilities, determining scope of rehabilitation, design of mechanical systems, pump sizing, site restoration design. The project was funded with a SRF loan through the State of Michigan. 2010. Construction Cost of \$4.5M.
- Project Engineer/Contract Administration for new Water Booster Station in White Lake Township. Project consisting of building design, electrical and control system design (including SCADA), piping layout, and pump sizing. The booster pump is VFD controlled to provide consistent water pressure. The project was funded with a DWRP loan through the state of Michigan. 2010. Construction Cost of \$200,000.
- Project Engineer for Vulnerability Assessment Update for client located in Southeast Michigan with ground water source and interconnected wells. Determination of critical customers and credible threats; site visits; chemical inventory; employee procedures reviewed; and facility assessments. 2009. \$20,000 in Professional Services.
- Project Engineer/Contract Administration for new 3,000 GPM Iron Filtration Plant in Waterford Township. Project consisting of three new wells, two pressure filters, chemical additions, sanitary sewer pump station, and force main for filter backwash disposal, the treatment plant building, and all necessary controls (including SCADA) and appurtenances was funded with a Drinking Water Revolving Fund Loan. 2007. Construction Cost of \$6 M.
- Project Engineer for Shelby Macomb Medical Mall in Shelby Township Michigan. Project consisting of site grading, storm water management, water main design, sanitary sewer design, and a sanitary sewer grinder station for the three story medical facility. 2007. \$40,000 in Professional Services.
- Project Engineer for West Brooke Estates in Sterling Heights, Michigan. Project consisting of site design for 49 lot subdivision including road design, grading, storm water management, water main, sanitary sewer. 2005. \$40,000 in Professional Services.
- Project Engineer for Atikian Industrial in Sterling Heights, Michigan. Project consisting of site design for demolition of existing manufacturing facility and on-site utilities and design of site improvements related to construction of 4 new manufacturing buildings. 2004. \$25,000 in Professional Services.

POSITION: Survey Manager

SPECIALIZATION: Surveying Engineering:

QUALIFICATIONS: Bachelor of Science in Surveying Engineering, 1999
Ferris State University

Bachelor of Science in Ecology & Evolutionary Biology, 1995
Michigan State University

REGISTRATION: Professional Land Surveyor: Michigan License # 50457
Professional Land Surveyor: Ohio License # 8505

EXPERIENCE: 9 years with Johnson & Anderson, Inc.
9 years with various Surveying/Engineering Firms

AFFILIATIONS: Michigan Society of Professional Surveyors (MSPS)
National Society of Professional Surveyors (NSPS)
Lambda Sigma – Surveying Honor Society

PROJECT EXPERIENCE:

- Project Surveyor – North Saginaw Street. City of Pontiac, MI. Coordinated all survey related activities for .9 miles of urban reconstruction and water main replacement.
- Project Surveyor – Nash Acres Subdivision Repaving. West Bloomfield Township, MI. Coordinated all survey and construction management activities for the subdivision road resurfacing project.
- Project Surveyor – Stonebridge Subdivision Repaving. West Bloomfield Township, MI. Coordinated all survey and construction management activities for the subdivision road resurfacing project.
- Project Surveyor – Charter Township of West Bloomfield Safety Paths – Coordinated all survey related activities including construction layout for the following project years: 2010 (7,000 feet of pathway and bridges. \$515,000), 2011 (1,650 feet of pathway. \$112,000), 2012 (1,650 feet of pathway. \$244,000) and 2013(650 feet of pathway. \$75,000).
- Project Surveyor – M-120 Non-Motorized Pathway. Muskegon Township, MI. Coordinated mapping of 4,000 feet of M-120 right-of-way for non-motorized pathway design. 2012 – 2013. \$176,317.
- Project Surveyor – Bakers Field Park Improvements. Port Huron Charter Township, MI. Coordinated all survey and construction management activities for the parking lot, pathway, and fishing pier installation.

- Project Surveyor – State of Michigan Trail Mapping. Coordinated the mapping of 90 plus miles of trail way in the Pinckney/Waterloo Recreation Area. Utilized MDOT CORS for quality control purposes. Final product was delivered in ARC GIS for public presentation purposes by Private Planner.
- Project Surveyor – West Bloomfield Water Main Extensions (DWRF). Coordinated the mapping of over 6 miles of R.O.W. for Water Main Extension. Prepare easements and present to owners. Scheduled and reviewed Inspection & As-built services. Provide As-Built on State Plane Coordinate System for incorporation into Township GIS.
- Project Surveyor – Bear Lake Water Main Extension. Laketon Township. Coordinated Survey for 6 plus miles of roadway mapping for Water Main Extension.





PROJECT ROLE

Architect

REGISTRATIONS

Registered Architect
State of Michigan
State of Ohio

EDUCATION

Bachelor of Science
Architecture, 1979
Lawrence Technological
University

EXPERIENCE

DiClemente Siegel Design Inc.
10/2006 – Present

Cornerstone Engineering, Inc.
Account Manager

Ghafari Associates, Inc.
Project Manager

TMP Associates, Inc.
Project Architect

Cunningham Limp
Architectural Detailer

AFFILIATIONS

American Institute of
Architects (AIA)

Engineering Society of Detroit

National Council of
Architectural Registration
Boards (NCARB)

U.S. Green Building Council

Mr. John Ritchie has over 35 years of experience in the design of commercial, educational, healthcare, religious, governmental, and industrial facilities. He is a detailed-oriented architect who possesses the necessary technical and project management skills along with knowledge of building codes, construction type, and materials for the successful completion of projects. John excels at balancing the client's vision along with meeting the budget and schedule throughout the course of the project.

Government

- EECBG Condition Evaluation, Charter Township of West Bloomfield, Bloomfield Township, MI
- Police Station Renovations, Charter Township of West Bloomfield, Bloomfield Township, MI
- Township Hall Renovations, Charter Township of West Bloomfield, Bloomfield Township, MI
- Four Fire Station Renovations, Charter Township of West Bloomfield, Bloomfield Township, MI
- Water Building Site Lighting Upgrades, Charter Township of West Bloomfield, Bloomfield Township, MI
- Powerhouse Renovation, City of Dearborn, Dearborn, MI
- Grosse Pointe Library, Conceptual Design and Site Plan for Main Branch Renovation and Addition, City of Grosse Pointe Farms, Grosse Pointe Farms, MI
- Hall of Justice, HVAC Renovation, City of Troy, Troy, MI
- City Hall SCADA Room Expansion, City of Rochester, Rochester, MI
- Parks and Recreation Building Renovation, City of Southfield, Southfield, MI
- HVAC Assessment, Port of Monroe, Monroe, MI
- North Powerhouse Steam Plant Upgrades, Wayne County Airport Authority, Romulus, MI
- Walter B. Ford II Building, Project Manager/Architect for complete construction document package for a 100,000-SF computer lab/classroom building with a 300-seat auditorium, College for Creative Studies, Detroit, MI
- Kresge Ford, Roof Replacement, College for Creative Studies, Detroit, MI
- Wright Home Renovation, College for Creative Studies, Detroit, MI
- Audio Visual Studio, College for Creative Studies, Detroit, MI
- Ferry Street Homes (administrative offices), Renovation/Addition, College for Creative Studies, Detroit, MI
- Pray-Harrold Data Center, Power Study and Upgrade, Eastern Michigan University, Ypsilanti, MI
- Wise Hall, Renovation Study, Eastern Michigan University, Ypsilanti, MI
- West Campus Primary Electrical Upgrade Study, Ferris State University, Big Rapids, MI
- Powerhouse Condensate Tank Replacement, Ferris State University, Big Rapids, MI
- Engineering Research Court Addition, Michigan State University, East Lansing, MI
- Engineering Building Renovation, Michigan State University, East Lansing, MI
- HVAC Upgrade, Michigan State University, Troy, MI



PROJECT ROLE

Lead Electrical Engineer

REGISTRATIONS

Professional Engineer
State of Michigan, 1993
State of Connecticut

EDUCATION

Bachelor of Science
Electrical Engineering, 1985
Western Michigan University

EXPERIENCE

DiClemente Siegel Design Inc.
9/1989 – Present

Edelstein Associates
Electrical Engineer

DS&A Consulting Engineering
Electrical Engineer

AFFILIATION

U.S. Green Building Council

Mr. Sam Molin over 30 years of experience designing electrical power systems including lighting and instrumentation and controls. His responsibilities include analysis, documentation, engineering, specifications, overseeing preparation of construction documents, and field observation. He has provided engineering services for numerous primary and secondary electrical power distribution studies, and evaluations of electrical power systems and arc flash projects at hundreds of facilities over his career. Being Director of Engineering, Sam is responsible for project management and administration of the Engineering Department at DSD.

Project Experience

- Water Building Site Lighting Upgrades, West Bloomfield Township, West Bloomfield, MI
- Streetscape Lighting and Electrical Upgrades, City of Trenton, Trenton, MI
- Streetscape Lighting and Electrical Design, City of Trenton, Trenton, MI
- Lighting Study and Solar Study for Water Treatment Plants, Charter Township of Waterford, Waterford, MI
- Township Hall and Courthouse, HVAC Controls Upgrade, Charter Township of Waterford, Waterford Township, MI
- Waterford Township Library Generator, Charter Township of Waterford, Waterford, MI
- Building Energy Audits, Charter Township of Waterford, Waterford Township, MI
- Town Hall, Fire Alarm Upgrade, Charter Township of Waterford, Waterford Township, MI
- Sewerage Building, Office Renovations and Addition Feasibility Study, City of Dearborn, Dearborn, MI
- Police Station, HVAC Upgrades, City of Dearborn, Dearborn, MI
- Emergency Operations Center, City of Dearborn, Dearborn, MI
- Sewage Building, Office Renovations and Addition Feasibility Study, City of Dearborn, Dearborn, MI
- Emergency Generator Installation Studies, City of Dearborn, Dearborn, MI
- Municipal Complex, Generator System Installation, City of Southfield, Southfield, MI
- Powerhouse Electric Upgrade, Macomb County, Mt. Clemens, MI
- Old County and Circuit Court Renovations, Macomb County, Mt. Clemens, MI
- Martha T. Berry Building Electrical Distribution Study, Macomb County, Mt. Clemens, MI
- Management Education Center, Lighting Revisions, Michigan State University, Troy, MI
- Spencer Substation, Oakland University, Rochester, MI
- Site Infrastructure Analysis, Oakland University, Rochester, MI
- Primary Power Analysis, Oakland University, Rochester, MI
- Site Lighting Replacement, Oakland University, Rochester, MI
- Electrical System Study, Phase II, Western Michigan University, Kalamazoo, MI



PROJECT ROLE

Electrical Designer
Burton Office

EDUCATION

Electrical Engineering
Mott Community College
Flint, MI

EXPERIENCE

DiClemente Siegel Design Inc.
8/1982 – Present

Rose Engineering
Electrical Project Designer

Mr. Dan Lutes has over 45 years of experience in electrical engineering and works in DSD's Burton, Michigan office. He is responsible for the design of electrical power distribution systems including fire alarm, power amplifier, emergency, nurse call, security, card access, door control, master clock, and audio visual and intercom systems. His other duties include project coordination, field inspections, and specification writing. Dan has a great rapport with clients and works hard to meet their requirements.

- Federal Building, Solar Powered LED Exterior Lighting, General Services Administration, Battle Creek, MI
- McGrath Elementary School, New Electrical Service, Grand Blanc Community Schools, Grand Blanc, MI
- Junior High School, Stage Lighting, Bentley Community Schools, Burton, MI
- Municipal Center Hall of Justice, Electrical Engineering Services, Muskegon County, Muskegon, MI
- Site Improvements and Building Renovations, U.S. Coast Guard Center Mackinaw, Cheboygan, MI
- Kalamazoo Federal Building and U.S. Courthouse, U.S. Trustees ISA Renovations, General Services Administration, Kalamazoo, MI
- Courthouse No. 174 Lighting, General Services Administration, Kalamazoo, MI
- Fire and Police Facility, City of Burton, Burton, MI
- Chesaning/Brady Fire Station, City of Chesaning, Chesaning, MI
- Flynn Manor, Electrical Renovations for Senior Housing, City of Yonkers, Yonkers, MI
- Theodore Levin U.S. Courthouse, Grand Assembly and Mail Room Renovations, General Services Administration, Detroit, MI
- McNamara Federal Building, Executive Office of Immigration Review M&E Renovations, General Services Administration, Detroit, MI
- McNamara/Finley Federal Buildings, Security Bollard Installation, General Services Administration, Detroit, MI
- Hart-Dole-Inouye Federal Center, DHS/FPS Building No. 4 ISA Renovations, General Services Administration, Battle Creek, MI
- Hart-Dole-Inouye Federal Center, Emergency Generator Study, General Services Administration, Battle Creek, MI
- Hart-Dole-Inouye Federal Center, North Entry Renovation, General Services Administration, Battle Creek, MI
- IRS Building Renovations, General Service Administration, Flint, MI
- Ann Arbor Federal Building, Retro-Commissioning, General Services Administration, Ann Arbor, MI
- New Social Security, Hearing and Appeals Office, General Services Administration,, Flint, MI
- New Social Security Buildings, General Services Administration, Lansing and Detroit, MI
- Drain Commission Renovations, Genesee County, Flint, MI

RELATED EXPERIENCE

WEST BLOOMFIELD TOWNSHIP WATER AND SEWER DEPARTMENT BUILDING SITE IMPROVEMENTS

Johnson & Anderson was contracted by the West Bloomfield Township Water and Sewer Department to design improvements to the existing Water and Sewer Department Building and surrounding site. J&A is contracted with DiClimente Siegel Design Inc. (DSD) for mechanical and electrical enhancements to the existing building.

Location:	West Bloomfield Township Oakland County, Michigan
Construction Date:	2017
Construction Cost:	\$1,900,000
Client:	Water & Sewer Department West Bloomfield Township
Contact:	Edwin Haapala Chief Director, Water & Sewer Department (248) 451-4785

Improvements include:

- Removal and replacement of asphalt access drives and parking lots including ADA access, partial permeable pavement, and bumper blocks;
 - Removal and replacement of concrete sidewalks;
 - An 8 foot wide pedestrian pathway
- connection along Haggerty Road;
- An aggregate surface course connecting the south access drive to West Bloomfield Trail;
 - Outdoor and indoor lighting enhancements and upgrades;
 - An additional outdoor storage building;
 - Plumbing alterations for ADA compliance;
 - Vegetated swales to infiltrate storm water runoff;
 - A detention basin with native plants and flowers;
 - Sprinkler system upgrades; and
 - Fueling station upgrades.

The project will help support a pedestrian-friendly environment, enhance the quality of life for the Water and Sewer Department staff and Township residents, enhance ADA access, provide storm water management, and create storm water awareness.

With the addition of the attractive storm water management enhancements, this site will serve as a focal point for the Township to educate residents and the general public on what can be done to enhance water quality. An interpretive sign will be installed to demonstrate the purpose and scope of the storm water management features on the site.

The design is complete and construction is underway. Engineering fees will be approximately \$123,000.

RELATED EXPERIENCE



Proposed Vegetated Swale Area



*Existing Asphalt Parking Lot & Materials
Storage Area*



Proposed Detention Basin Area

RELATED EXPERIENCE

OAKLAND UNIVERSITY 2011 CAMPUS WIDE PAVEMENT REPAIRS

Location:	Oakland University Oakland County, Michigan
Construction Date:	2011
Construction Cost:	\$110,000
Client:	Oakland University
Contact:	Mr. Khales Dhar, AIA (248) 370-4437

J&A was commissioned by the University to design and oversee campus wide road repairs within a limited budget and time constraints. Some of the parking lot areas could not be closed during the day and the work was coordinated after hours and on weekends. The rehabilitation strategy was to mill a 2 inch depth and pave the milled area. Milling was a preferred technique over saw cutting as it provided a slightly ragged edge to create

aggregate interlock with the new hot mixed asphalt paving.



BEFORE



AFTER

RELATED EXPERIENCE

PORT HURON TOWNSHIP BAKERS FIELD PARK DEVELOPMENT PHASE I

Johnson & Anderson (J&A) was contracted by the Charter Township of Port Huron to provide civil and structural design services for a 61-acre park to be developed on Township property

Location:	Bakers Field Park Port Huron Township, St. Clair County, MI
Construction Date:	2010 - 2011
Construction Cost:	\$850,000.00 (Low Bid as read)
Client:	Charter Township of Port Huron
Contact:	Robert Lewandowski, Supervisor (810) 987-6600

fronting the Black River. The Township received a Michigan Department of Natural Resources Trust Fund Grant to develop the vacant parcel into a park. Phase I of the park included a boat launch, dock, parking, roadway, non-motorized trail, fishing platform, lighting, and signage. A kayak launch was installed with a grant from St. Clair County.

J&A designed an ADA accessible dock, boat launch and kayak launch to be constructed in an existing boat repair well that had been abandoned for many years. Twenty-seven car/boat trailer parking stalls, 11 ADA stalls, and 90 regular stalls were included in the project. J&A designed just over a mile of ADA non-motorized pathway throughout the first phase of the park and roadway with a circular turn-around to access the boat launch and parking areas.

J&A also coordinated an underground storage tank evaluation and due care evaluation for the site as required by the MDEQ.



J&A worked closely with Manning Design, LLC, the landscape architect on the project, to design an ADA accessible fishing platform, constructed from prefabricated redi-rock blocks, that allow park visitors to sit at the river's edge to fish. J&A and Manning Design also collaborated on the design of a rain garden to collect and infiltrate stormwater runoff from the roadway and overflow parking area.

RELATED EXPERIENCE

Earlier this spring, on behalf of the Township, J&A applied for MDNR grant funding to develop Phase II of the park, which includes: extension of the existing pathway with benches and waste receptacles, an outdoor ADA adult exercise station (that includes 18 pieces of fitness equipment), an ADA picnic table, a butterfly garden, and 2 wayfinding signs for the National designated water trail.



RELATED EXPERIENCE

LAKETON TOWNSHIP NON-MOTORIZED PATHWAY - PHASE I

Johnson & Anderson, Inc. (J&A) was selected by Laketon Township to perform planning, surveying, design, and construction engineering services on the installation of a non-motorized bituminous pathway along Horton and Dykstra Roads located in Laketon Township, Muskegon County, Michigan.

Location:	Laketon Township Muskegon County, MI
Construction Date:	2009
Project Cost:	\$ 231,000.00
Client:	Laketon Township
Contact:	Ms. Kim Arter Supervisor (231) 744-2454

The pathway consists of approximately 6,065 lineal feet of bituminous pathway varying in width from 6.5 to 8 feet. The pathway is located in a residential area and crosses a drainage ditch. An elevated wooden walkway, approximately 138.5 feet in length and 8 feet wide, was designed and constructed to traverse the drainage ditch called “Fenner’s Ditch”. The pathway was designed in accordance with the AASHTO

Guide for Development of Bicycle Facilities and current ADA requirements.

J&A handled all aspects of construction engineering to include: topographic mapping, development of easement descriptions, construction staking of the bituminous pathway, documentation of all pathway-related quantities, coordination with the material testing subconsultant, resolution of citizen complaints, utility coordination with the various utilities encountered during construction, attending a preconstruction meeting, documentation of project record quantities and development of contract punch lists.



HMA Pathway



Elevated Wooden Walkway
(138.5' L x 8' W)

RELATED EXPERIENCE

SAGINAW COUNTY ROAD COMMISSION HART ROAD RECONSTRUCTION

Johnson & Anderson was contracted by the Saginaw County Road Commission to provide Preliminary Engineering services for Hart Road between Miller and Willing, to be funded by

Location:	James Township, Saginaw County, MI
Construction Cost:	\$1,500,000
Design Cost:	\$42,000
Completion Date:	2017
Client:	Saginaw County Road Commission
Contact:	Joseph Wisniewski, P.E. Phone: 989.399.3761

Federal Land Access Program (FLAP) funds and let through Michigan Department of Transportation Local Agency Program. The project consisted of 2.4 miles of road reconstruction and replacement and upgrade of drainage

The project was designed with full plan and profiles in lieu of a log project, due to the extent of the drainage improvements required. The project incorporated crush and shape (pulverization), widening from 14-18 feet to 20 foot travel way, the addition of aggregate base material and repaving with 4" HMA.

The project also incorporated a parking/viewing area for the adjacent Shiawassee National Wildlife Refuge designed as a parking lane near an access point to the refuge.

Being a local road and utilizing FLAP funds, the project required additional coordination and involvement from the Township, Refuge staff, and local residents. The road is scheduled to be constructed later this spring.



RELATED EXPERIENCE

CHARTER TOWNSHIP OF MUSKEGON M-120 NON-MOTORIZED PATHWAY

Johnson & Anderson, Inc. was selected by the Charter Township of Muskegon to provide professional engineering and surveying services related to the planning, design, and development of an asphalt pathway along M-120 in Muskegon Township, Muskegon County, Michigan. This project was funded through the federal Congestion Mitigation and Air Quality Improvement (CMAQ) Program. The pathway consists of approximately 3,650 feet of 10-foot wide bituminous asphalt and traverses under 2 overpasses for US-31, a major highway. Also designed and constructed as part of this project was a 640-foot drainage system to enclose an existing ditch. The new pathway was constructed over a portion of the drainage system. J&A prepared plans and specifications in accordance with the Michigan Department of Transportation (MDOT) 2012 Standard Specifications for Construction, current ADA requirements, and the AASHTO Guide for Development of Bicycle Facilities.

J&A handled all aspects of construction engineering to include: topographic mapping, construction staking of the bituminous pathway and drainage system, documentation of all project record quantities, coordination with the material testing subconsultant, utility coordination with the various utilities encountered during construction, attending a pre-construction meeting, and development of contract punch lists. J&A performed construction engineering according to MDOT requirements, utilizing Field Manager to record construction activities. Our team also assisted the Township in satisfying grant requirements by submitting required information to the State Historic Preservation Office (SHPO).



RELATED EXPERIENCE

WEST BLOOMFIELD TOWNSHIP STONEBRIDGE PAVING

As a result of the implementation of a Special Assessment District initiated by the residents of the Stonebridge Subdivision, West Bloomfield Township contracted with Johnson & Anderson to perform

Location:	West Bloomfield Township
Project:	Stonebridge Paving
Construction Date:	2015
Construction Cost:	\$750,000
Design Cost:	\$28,500
Contractor:	Pro-Line Asphalt Paving
Client:	Charter Township of West Bloomfield
Contact:	Marshall Labadie, Director Development Services Department (248) 451-4824

design and construction engineering services for road improvements in the Stonebridge Subdivision in Section 33 of the Township. The goal of the project was to replace an aging paved surface and bring the road up to Oakland County standards. This project was complex in two aspects: a) ingress and egress had to be maintained during the construction and paving process; and b) during construction it was discovered a 14'x8' CMP Arch culvert had failed under the roadway, requiring unique repair design to keep the project within budget. The repair option selected was to design a soil-supported concrete slab that would work to bridge the culvert.

The improvements were financed through a Special Assessment District (SAD). The scope of the project included Stonebridge Subdivisions No. 1&2 which totaled approximately 6,450 L.F. in length.

J&A was responsible for all aspects of design and construction engineering. Design services included gathering of topographic information, coordination for the completion of soil borings, preparation of final plans, acquisition of permits, and bidding. Construction engineering included: construction layout, contract administration, construction inspection, and preparation of project record drawings.



CONSTRUCTION COST

\$715,589

RESPONSIBILITY

Electrical Engineering Services

LED Site Lighting Evaluation and UpgradeOakland University
Rochester, Michigan

On Oakland University's (OU) campus, there was a perceived lighting deficiency at various parking lots, roadways and walkways. OU commissioned DSD to conduct a study to determine the actual performance of the exterior site lighting systems at numerous locations.

The intent of the study was to verify present foot-candle levels, identify appropriate foot-candle levels at each area in accordance with the Illumination Engineering Society (IES) guidelines, and make recommendations to upgrade existing site lighting systems at areas that were found to be deficient.

In addition, OU was working with DTE and planning to upgrade/retrofit existing site lighting systems to energy efficient systems as a demonstration/testing area utilizing multiple LED fixture manufacturers. OU requested that the proposed LED retrofits also be evaluated at the same areas by DSD, utilizing the base computer model that was developed for the evaluation of existing systems, in a similar manner to the existing site lighting evaluations. Recommendations for supplemental LED lighting at areas that were found to be deficient was also required of DSD.

As a result of the evaluation, OU upgraded the lighting systems at parking lot P-1 by removing existing high-pressure sodium luminaires and replacing them with energy-efficient LED fixtures.

An analysis with recommendations was required to achieve recommended foot-candle levels, in accordance with the IES, based on the specific LED luminaires selected. Existing pole bases and underground circuits were considered for reuse as much as possible with supplemental LED luminaires in order to provide a cost-effective solution for lighting upgrades.

Pioneer Drive was also upgraded with appropriate roadway lighting luminaires to achieve required foot-candle levels at the roadway and the adjacent walkway area that was raised in elevation, near the roadway.



RESPONSIBILITY

Electrical Engineering Services

REFERENCE

David Vandelinder
Director of Facility Operations



Dental School Parking Lot Revisions and Lighting Upgrades

University of Detroit Mercy
Detroit, Michigan



University of Detroit Mercy (UDM) planned to expand their existing Dental School parking lot by vacating an adjacent side street and combining two parking lots. In order to proceed with the project, a topographic survey and utility survey of the area was developed along with proposed plans for the new parking lot. The documents were presented to the city for their review and approval.

Following the approval of the vacating of 18th Street by the City of Detroit, the second phase, construction documents, were developed for the expansion of the parking lot. In addition to the paving expansion and modifications, this included control gates at the Martin Luther King Blvd. entrance, decorative security fence at the perimeter of the site and new site lighting for the entire parking lot.

Parking Improvements

Birmingham Public Schools

Birmingham, Michigan

CONSTRUCTION COST

\$1,760,000

RESPONSIBILITY

Architectural and Engineering
Design Services



DSD provided architectural and engineering design services to improve multiple parking lots at four schools within the Birmingham Public School District. Capital improvements were designed due to drainage issues and degradation of parking surfaces. The project was broken up into the following phases:

Seaholm High School – **\$1,250,000**

This phase called for the complete removal and replacement of the Seaholm High School student parking lot and Groves High School East and West parking lots. All the lots needed to be completely dug up to the subbase and regraded for drainage and substrate improvement. Since the entire lot was redone all sight lighting was also removed and replaced.

Berkshire Middle School – **\$260,500**

This phase was for new parking lot, bus loop and sidewalk design work for the Berkshire Middle School, including new site lighting, signage and a gate required for the back lot.

Derby Middle School – **\$249,820**

This phase included the replacement and addition to the Derby Middle School and Berkshire Middle School parking lots. The scope of work included a loading dock loop, review of drainage issues and the deep strength asphalt usage.

FAMILIARITY WITH THE CITY OF FLINT AND LOCAL AREA

J&A is very familiar with the City of Flint and Genesee County, having a strong background and working knowledge of key County stakeholders and local infrastructure. J&A's Principal-In-Charge resides in Genesee County and has performed engineering services for various entities within the county over his tenure. J&A is currently performing engineering services to the Genesee County Drain Commissioner-Water & Waste Services (GCDCWWS) and is assisting the City of Flint with their SAW Grant Implementation Project that includes the GPS location of City storm and sanitary sewer manholes as well as GIS map, CMMS, Capital Improvement Plan (CIP) development.

THE J&A DIFFERENCE

J&A believes in providing high quality services at an affordable price. Our project approach includes:

- Guided discussions with stakeholders, county staff and officials, regulatory agencies, and the public related to project goals and objectives to identify specific scope and requirements;
- Providing a Project Team with extensive program management and real world engineering and operations experience enabling them to be flexible, responsive, and innovative to meet project needs and requirements; and
- Utilization of web-based dashboards and technology to save travel costs by holding non-milestone meetings through online applications such as GoToMeeting and dial-in conference calling.

FORM SUBMITTALS

Please see the requested submittal forms within this section:

- Statement of Exceptions;
- Signed Signature Page;
- Executed Insurance Checklist;
- References



August 24, 2017

Ms. Cindy Carnes, Purchasing Manager
Genesee County
Purchasing Department
1101 Beach Street
Room 343
Flint, MI 48502

Re: **Statement of Exceptions**
Engineering Design Services for Surface Parking Lot #17-118

Dear Ms. Carnes:

Johnson & Anderson, Inc. (J&A) agrees to meet all the requirements set forth in the above referenced solicitation.

Very truly yours,

JOHNSON & ANDERSON, INC.

A handwritten signature in black ink, appearing to read 'Terry G. Broemer', written in a cursive style.

Terry G. Broemer., P.E.
President

SIGNATURE PAGE
GENESEE COUNTY RFP #17-118
ENGINEERING DESIGN SERVICES FOR SURFACE PARKING LOT

The undersigned represents that he or she:

1. is duly authorized to make binding offers on behalf of the company,
2. has read and understands all information, terms, and conditions in the RFP,
3. has not engaged in any collusive actions with any other potential proposers for this RFP,
4. hereby offers to enter into a binding contract with Genesee County for the products and services herein offered, if selected by Genesee County within 120 days from proposal due date,
5. certify that it, its principals, and its key employees are not "Iran linked businesses," as that term is described in the Iran Economic Sanctions Act, P.A. 2012, No. 517, codified as MCL 129.311, et seq.
6. acknowledges the following addenda #1 issued as part of the RFP:

Conflict of Interest:

☒ To the best of our knowledge, the undersigned firm has no potential conflict of interest due to any other County contracts, or property interest for this proposal.

OR

☐ The undersigned firm by attachment to this form, submits information which may be a potential conflict of interest due to other County contracts, or property interest for this Proposal.

Exceptions to Solicitation and/or Standard Contract: NO ☒ YES ☐ (include attached statement)

Name (typed): Terry G. Broemer, P.E.

Signature:  Title: President

Company: Johnson & Anderson, Inc.

Federal Employee Identification Number (FEIN): 38-2460896

DUNS Number: 155941966

Date: 8.24.17

Contact Person of company representative for matters regarding this RFP

Terry G. Broemer, P.E. President

CONTACT NAME

POSITION

TGBroemer@ja-engr.com

E-MAIL

4494 Elizabeth Lake Road Waterford MI 48328

MAILING ADDRESS

CITY

STATE

ZIP CODE

(248) 681-7800

(248) 681-2660

PHONE

FAX

GENESEE COUNTY INSURANCE CHECKLIST

Proposal Title **ENGINEERING DESIGN SERVICES FOR SURFACE PARKING LOT**
Proposal Number 17-118

Coverages Required	Limits (Figures denote minimums)
<input checked="" type="checkbox"/> 1. Workers' Compensation	Statutory limits of Michigan
<input checked="" type="checkbox"/> 2. Employers' Liability	\$100,000 accident/disease \$500,000 policy limit, disease
<input checked="" type="checkbox"/> 3. General Liability	Including Premises/operations \$1,000,000 per occurrence with \$2,000,000 aggregate
<input checked="" type="checkbox"/> 4. Products/Completed operations	\$1,000,000 per occurrence with \$2,000,000 Aggregate [If applicable]
<input checked="" type="checkbox"/> 5. Automobile liability	\$1,000,000 combined single limit each accident- Owned, hired, nonowned
<input checked="" type="checkbox"/> 6. Best's rating: A VIII or better, or its equivalent (Retention Group Financial Statements)	
<input checked="" type="checkbox"/> 7. The certificate must state Proposer number and title	
<input checked="" type="checkbox"/> 8. Genesee County named as an additional insured on other than workers' compensation via endorsement. A copy of the endorsement must be included with the certificate. Evidence of Addition Insured under Blanket coverage within the policy language is also acceptable. However, a copy of the language applicable to this must be provided.	

FAX THIS PAGE TO YOUR INSURANCE AGENT/BROKER

Insurance Agent's Statement

I have reviewed the requirements with Prospective Contractor named below. In addition:

☐ The above policies carry the following deductibles: N/A

Liability policies are **occurrence** ☒

claims made ☐

Melissa Merriman

Insurance Agent

M. Merriman

Signature

PLEASE NOTE #8 ABOVE. ADDING ADDITIONAL INSURED [AI] TO THE DESCRIPTION IS NOT ACCEPTABLE. AN ENDORSEMENT OR COPY OF AI LANGUAGE IS REQUIRED

Prospective Contractor's Statement

I understand the insurance requirements and will comply in full if awarded the contract.

Terry G. Broemer, P.E.

Proposer

Terry G. Broemer

Signature

Required general insurance provisions are provided in the checklist above. These are based on the contract and exposures of the work to be completed under the Contract. Modifications to this checklist may occur at any time prior to signing of the contract. Any changes will require approval by the Prospective Contractor, the department and County Risk Manager. To the degree possible, all changes will be made as soon as feasible.

REVISED 04/08/2010

REFERENCES

List 3 references of similar projects

Submitted by: Johnson & Anderson, Inc.

West Bloomfield Township

(248) 451-4785

1. Company

Phone Number

Edwin Haapala, Water & Sewer Dept. Director

EHaapala@wbtownship.org

Contact Name and Position

E-mail Address

2400 Haggerty Road, West Bloomfield, MI 48323

Address

Water & Sewer Dept. Building Site Improvements

\$1,900,000

Type of Work/ Project

Dollar Amount of the Project

Planning, Surveying, Design, and Construction Engineering for the facility, including parking lot (with ADA parking spaces), sidewalk, and stormwater drainage improvements.

Project Description

Port Huron Township

(810) 987-6600

2. Company

Phone Number

Robert Lewandowski, Jr., Supervisor

rlewandowski@porthurontownship.org

Contact Name and Position

E-mail Address

3800 Lapeer Road, Port Huron, MI 48060

Address

Bakers Field Park Development Phase I

\$850,000

Type of Work/ Project

Dollar Amount of the Project

Planning, Surveying, Design & Construction Engineering for park improvements, including parking lot (with ADA parking spaces), ADA pathway, and ADA fishing pier.

Project Description

Saginaw County Road Commission

(989) 399-3761

3. Company

Phone Number

Joseph Wisniewski, P.E., Director of Engineering

wisniewski@scrc-mi.org

Contact Name and Position

E-mail Address

3020 Sheridan Avenue, Saginaw, MI 48601

Address

Hart Road Reconstruction

\$1,500,000

Type of Work/ Project

Dollar Amount of the Project

Design Engineering for Hart Road reconstruction (2.4 miles), which was funded by the Federal Land Access Program (FLAP) and let through MDOT Local Agency Program.

Project Description

Cost Proposal Summary

Total Professional Engineering Services Cost **\$39,872.49**

The above total fee is comprised of the following phases:

Design Phase Cost	\$35,821.87
Bidding and Construction Services	\$4,050.62

Attached are an hourly breakdown of the proposed fee and financial statements from recent Michigan Department of Transportation prequalification financial review by the Office of Commission Audits.

PROJECT ESTIMATING SHEET											
Johnson & Anderson, Inc.											
RFP 17-118 (Parking Lot at former McCree Bldg. Parking Structure)											
Prepared By: RPW											
Date - August 23, 2017											
DESIGN											
Labor Cost	Ryan Whitehorse, P.E. Engineer VI	\$45	Greg Gucona, P.E. Engineer VI	Timothy Weir, P.S. Surveyor VI	Michael Leuffgen, P.E. Nancy Koliski, P.E. Engineer V	\$41.50	Elizabeth Stevenson or Jim McBain CAD III	Dave Harris and Tyler Mendrek 2-Man Survey Crew	Dave Harris 1-Man Survey Crew	Tamika Rouser Cellical	Total Hours
Kick-off Meeting		4							\$36		4
Survey		-		4			40	10	30		84
Utility Coordination (Gas, Electric, Phone, Cable, Storm, Sanitary, Water, Etc.)		-					6				6
Storm Water Management		4									4
Geotechnical (Subconsultant) - \$3,600										\$3,600	-
Parking Lot Conceptual Designs		8			8		40				56
Estimates		10					-				10
Final Parking Lot Design		10			10		40				60
Lighting, Electrical and Gate Control (Subconsultant) - \$10,100											
Specifications		8			8					\$10,100	16
QA/QC			6								6
Final Plan package		4			4		4				12
Total Hours		48	6	4	130	30	10	30	10		170
Labor Cost	\$ 2,160.00	\$ 282.00	\$ 188.00	\$ 3,705.00	\$ 1,245.00	\$ 1,080.00	\$ 620.00	\$ 1,080.00	\$ 190.00	\$ 9,470.00	\$ 9,470.00
Overhead (110.06%)	\$ 2,377.30	\$ 310.37	\$ 206.91	\$ 4,077.72	\$ 1,370.25	\$ 1,188.65	\$ 682.37	\$ 1,188.65	\$ 209.11	\$ 10,422.68	\$ 10,422.68
FCC (0.26%)	\$ 8.42	\$ 1.10	\$ 0.73	\$ 14.45	\$ 4.86	\$ 4.21	\$ 2.42	\$ 4.21	\$ 0.74	\$ 36.93	\$ 36.93
Fixed Fee (Profit) (11%)	\$ 500.03	\$ 65.28	\$ 43.52	\$ 857.69	\$ 288.21	\$ 250.01	\$ 143.53	\$ 250.01	\$ 43.98	\$ 2,192.26	\$ 2,192.26
Direct Expenses										\$ 13,700.00	\$ 13,700.00
PHASE TOTAL											\$ 35,821.87
BIDDING AND CONSTRUCTION											
Bidding Assistance		8									14
Preconstruction Meeting		4									4
Site Visits		12									12
Progress Meetings		12									12
Total Hours		36	0	0	0	0	0	0	0	6	42
Labor Cost	\$ 1,620.00	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 114.00	\$ -	\$ 1,734.00
Overhead (110.06%)	\$ 1,782.97	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 125.47	\$ -	\$ 1,908.44
FCC (0.26%)	\$ 6.32	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.44	\$ -	\$ 6.76
Fixed Fee (Profit) (11%)	\$ 375.02	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26.39	\$ -	\$ 401.41
Direct Expenses											
PHASE TOTAL											\$ 4,050.62
TOTAL FOR PROFESSIONAL ENGINEERING SERVICES											
											\$ 39,872.49

Phoenix Engineering dba Johnson & Anderson, Inc.

Reconciliation of Key Financial Information

December 31, 2016

	Current Year (FYE 2016)
Accounts Receivable	\$ 470,727.00
After-Tax Net Income	\$ 23,512.30
Bank Debt	\$ 23,170.18
Chargeable Hours (total billed (a.k.a. billable) direct labor hours)	42,570
Deferred Taxes	\$ -
Direct Labor	\$ 1,771,624.93
Direct Hours Worked	43,912
Indirect Hours Worked	16,673
Total Hours Worked (direct + indirect)	60,585
Gross Executive Bonus Expense (gross bonuses paid to all executives)	\$ 220,820.00
Gross Non-Executive Bonus Expense (gross bonuses paid to all non-executive employees)	\$ 52,665.00
Total Allowable Executive Bonus Expense (total allowable bonuses paid to all executives)	\$ 220,820.00
Total Allowable Non-Executive Bonus Expense (total allowable bonuses paid to all non-executive employees)	\$ 52,665.00
Gross Profit (is the difference between revenue and the cost of providing a service, before deducting overhead, payroll, taxation, and interest payments)	\$ 2,096,061.91
Net Income before Discretionary Items *	\$ 296,997.30
Net Revenue (is total revenue minus returns and any other negative revenue)	\$ 4,871,833.67
Service Revenue (is revenue earned by providing a service)	\$ 4,889,469.41
Total Assets	\$ 1,202,888.00
Total Current Assets	\$ 1,006,211.00
Total Current Liabilities	\$ 185,585.00
Total Liabilities	\$ 297,166.00
Total Equity	\$ 905,722.00
Total Executive Compensation	\$ 1,425,889.00
Total Allowable Executive Compensation	\$ 1,406,537.00
Total Labor (direct & indirect wages and/or salaries)	\$ 2,767,881.00
Total Allowable Labor (direct & indirect wages and/or salaries)	\$ 2,699,394.00
Total Rent Expense (see section below for breakdown of total rent expense)	\$ 157,640.00
Total Allowable Rent Expense (after common control portion removed)	\$ 80,529.00
Total Vehicle Costs	\$ 30,519.98
Total Allowable Vehicle Costs	\$ 30,313.16
Total Overhead (fringe benefits and general overhead)	\$ 3,094,389.00
Total Allowable Overhead (fringe benefits and general overhead)	\$ 1,948,835.00
Total Unallowable Costs (fringe benefits and general overhead)	\$ 1,145,554.00
Year End Work in Process	\$ 521,064.00

Phoenix Engineering, Inc.
Balance Sheet
As of December 31, 2016

	Accrual basis
Assets	
Cash	\$ 14,419
Accounts rec'vble	470,727
Work in process	521,064
Fixed assets	
Vehicles	52,320
Equipment	738,747
Leasehold improvements	64,598
Accumulated depreciation	(661,487)
Deposits	2,500
Prepaid expenses	-
Total Assets	\$ 1,202,888
Liabilities	
Current liabilities:	
Accounts payable	\$ 54,022
Accrued payroll taxes	21,147
Accrued 401(k) deferrals	-
Accrued wages	37,845
Accrued wages, vacation, PTO	72,571
Total Current liabilities:	185,585
Non-Current Liabilities:	
Notes payable- Clarkston State Bank	23,170
Note payable- J. Dietrick	3,211
Note payable - shareholders	85,200
Current portion L/T debt	-
Total Non-Current Liabilities	111,582
Equity:	
Capital	10,000
Treasury Stock	(178,130)
Retained Earnings	1,050,340
Net income	23,512
Total Equity	905,722
Total Liabilities and Equity	\$ 1,202,888