

**INFORMATION REQUIRED TO ACCOMPANY  
LEGISLATION MODIFYING CONTRACTS**

**ORDINANCE NO. 1098 - 2007**

**MODIFICATION NO. 2 TO THE CONSTRUCTION CONTRACT FOR  
JACKSON PIKE WASTEWATER TREATMENT PLANT (JPWWTP)  
SLUDGE HANDLING AND DEWATERING IMPROVEMENTS**

**PROJECT NO. 650246  
CONSTRUCTION CONTRACT NO. J206**

**1. Names, locations, and business status of all entities submitting bids on the original contract's procurement:**

- A. Kokosing Construction Company, Inc., 886 McKinley Avenue, Columbus, OH 43222, a Majority enterprise

**2. Name of the entity awarded the original contract:**

Kokosing Construction Company, Inc., Auditor's contract number EL004409, was awarded to this entity.

**3. Scope of work performed to date, and future phasing:**

This construction contract provides the renovation and reconditioning in the Sludge Dewatering Building (SDB) necessary for the installation of the new sludge thickening centrifuges, associated chemical storage and feed system, odor control provisions, pumps, piping, valving, and electrical, instrumentation and control equipment and removal of the existing sludge dewatering centrifuges, controls and ancillary equipment. In addition, the existing sludge thickening centrifuges, controls and ancillary equipment located in the Sludge Thickening Building (STB) will be removed.

It was planned that this contract will be modified to provide needed monies, as necessary, for correction of any anomalies in the work as designed which may become evident as the work progresses. This is an absolutely necessary procedure on large engineered construction programs, as the interleaved schedules which such programs are committed to today will not allow insertion of work by others under separate procurement - such insertions will usually result in delay claims due to overlapping work and coordination issues not evident before the work is undertaken.

**4. Schedule to work completion:**

The Contract Notice to Proceed was issued August 13, 2004. Substantial Completion of construction, defined as completely operational building and process systems, was originally scheduled for September 12, 2006, and is now projected to occur September 18, 2007. Final Completion of construction, defined as all work being complete, was

originally scheduled for October 12, 2006, but is now projected to occur on October 18, 2007. Construction is currently on-going. Extension of the duration of the contract has been primarily caused by the modifications required to the structural steel being installed in the SDB Building basement, the installation of electrical equipment to maintain operation during contract specified demolition work, and modifications required at the Thickened Waste Activated Sludge (WAS) pumps and piping.

All identified needed work additions are defined and priced, and there modification provides sufficient funding for all remaining contract work anticipated as of this modification. No further additions to contract work or funding are planned or anticipated.

**5. Other Modifications to Date:**

Modification No. 1: \$1,398,750.00

This modification provided funding for additional items of work that were identified as necessary and funding to settle Contractor's claims for compensation, the cost of which was greater than the remaining contract contingency amount.

**6. Work to be performed under this Modification:**

Proposed Modification No. 2: \$583,200.00

This modification will provide funding for additional items of work that have been identified as necessary, the total cost of which will be greater than the remaining contract contingency amount. The specific work beyond current funding is:

<u>Item No.</u>	<u>Description</u>	<u>Cost</u>
RFP-016	Provides larger capacity air conditioning system for the Centrifuge Control Room.	\$98,923.00
RFP-021	Modifies existing Polymer Blending containment area to provide proper water drainage.	\$10,211.00
RFP-026	Modifies the Centrifuge Thickening Building Flushing Water piping, relocates the Thickening Centrifuge local control panels, and cleans out debris at the bottom of the Dewatering Centrate Well.	\$15,571.00
RFP-027	Revisions to ductwork routing, vent line routing and fuel line routing, provides pipe sleeves with link seals for existing piping, modifies lintel plates and assistance with sludge spill clean-up.	\$6,967.00
RFP-028	Revises pumping systems control conduit and wiring routing, provides wiring for two alarm conditions for WAS Concentration Pumps, accelerates completion of	\$21,355.00

the thickening centrate pumps, revises the Dewatering and Thickening PLC program, provides additional Thickened Waste Activated Sludge (TWAS) chute switch wiring, and provides additional lighting fixtures in the dewatering polymer area.

RFP-030	Improves manual samplers' operability and levels floor drains.	\$10,076.00
RFP-031	Resolves water drainage problems around TWAS Pumps, closes masonry walls openings, and replaces pressure snubbers on the centrate pumps discharge with diaphragm seals.	\$9,752.00
RFP-032	Modifies certain thickened centrate piping joints, replaces broken elbow on thickening centrate piping, and replaces thickening centrate well drain valve.	\$19,400.00
RFP-033	Modifies PLC programming, alarms and operating status data, provides a thickening centrifuge tools storage box, modifies sludge hopper, provides drain piping, provides valves and valve actuators, relocates the automatic sludge sampler, switches position of the strainer and ball valve on the TWAS seal water, provides polymer overflow piping connection to the centrate chute, provides the program mapping from Contracts J201 and J206 PLC to WAS pump PLC to the Applications Programmer, provides 2 temporary pressure gauges, provides pump disconnect switch wiring, relocates the TWAS pump disconnect, removes, replaces and supports grounding conduit and wiring, and removes and fills 3 existing equipment drains.	\$134,638.00
RFP-034A	Increases the size of the TWAS discharge piping, fittings and valves, and revises the piping system configuration to reduce pressure losses.	\$86,850.00
RFP-034B	Converts the existing TWAS pumps to being two stage progressive cavity, smaller flow element pumps.	\$65,190.00
RFP-022	Replacement of the PHT Mixing Pump and Appurtenances cost incurred for materials turned over to the plant and work preformed prior to rescinding the work.	\$18,271.00
RFP-035	Miscellaneous work generated by Request for Information (RFI's) submitted by the contractor addressing additional tasks, modifications, and additional equipment and materials required but not part of the original Contract Documents, to complete the project, including but not limited to the following areas: Centrate piping modifications, piping restraints, TWAS pump set point modifications, WAS modifications,	\$64,286.00

Polymer units modifications, programming and trouble shooting, programming modifications to OIT and Control Panels.

RFP-036 Provides for the settlement of a Contractor's claim for delay. \$148,586.00

The additional work items identified above total \$710,076.00. The construction contract has a remaining contingency of \$126,876.00.

Modification No. 2 provides an additional amount of \$583,200.00, that in combination with the remaining contingency will allow for the above items of additional work.

\$1,191,030.00	-	Original Contract J206 Contingency Amount
<u>+\$1,398,750.00</u>	-	Modification No. 1, Additional Contingency
\$2,589,780.00	-	Revised Contract Contingency Amount
<u>-\$2,462,904.00</u>	-	Approved Change Orders
\$126,876.00	-	Remaining Contingency
\$710,076.00	-	Additional Work Items Identified in Modification No. 2
<u>-\$126,876.00</u>	-	Remaining Contingency
\$583,200.00	-	Proposed Modification No. 2

**7. Why the need for this Modification could not have been anticipated:**

In any construction project, especially a project for renovation of existing facilities, changes to contract work are expected. Some reasons for additional work include: details of equipment and systems specified to be provided are reviewed and sometimes refined during construction in order to provide a facility that is optimally configured for operation and safety; components of the existing facility are concealed and conditions cannot be accurately determined prior to contract work; latent errors or omissions may exist in the design.

**8. Why the work to be performed under this Modification cannot be "bid out":**

The funding provided by this contract modification is for completion of the existing work of the contract. It is not deemed either feasible or reasonable to suspend work with the entity currently under contract, and undertake continuation of the work under a new procurement. The lengthy process for initiating a new procurement, and for a new entity to gain understanding of the project, would likely cause an unacceptable project delay and consequent additional cost to the City to settle the legitimate claims for such delay.

9. **Cost summary:**

Original Contract	\$ 13,101,330.00
Modification No. 1	\$ 1,398,750.00
Proposed Modification No. 2	\$ 583,200.00
Future Anticipated Needs	\$ <u>0.00</u>
CURRENT PROPOSED TOTAL	\$ 15,083,280.00