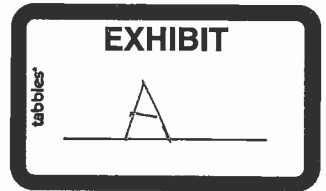


PROFESSIONAL SERVICES TASK ORDER



Task Order No.: 17
Task Order Date: 05/13/02
(Amendment to Task Order No. 9)

Subject to the Master Services Agreement between the City of Mason, Ohio [Client] and Malcolm Pirnie, Inc. [Malcolm Pirnie], dated April 14, 1998, Client hereby authorizes Malcolm Pirnie to perform services as specified in this Task Order and in accordance with the above mentioned Agreement.

1. Project Description: A description of Project for which work is requested is provided in Attachment 1, incorporated into this Task Order.

Client's Project Number: _____

Project Name: Well No. 6 Installation and Filter Backwash Disposal Facility with Aerator/Contact Basin Expansion

Client's Representative: R. Ernest Stickler

2. Scope of Work: Malcolm Pirnie shall perform its services as described in Attachment 1, incorporated into this Task Order.

Malcolm Pirnie's Representative: Robert C. Yoxthimer

3. Time Schedule: Malcolm Pirnie shall use reasonable efforts to complete the work as follows: The basic services included in Exhibit A will be completed within approximately three (3) months from the date of execution of this Task Order and contingent upon timely participation of the Client and others. The basic services associated with Exhibits B, C and D will be in accordance with the schedule set by the City and concurrent with the required construction of the project. Exhibit references are included in Task Order Nos. 8 and 9.

4. Compensation: Malcolm Pirnie's Compensation authorized under this Task Order, which shall not be exceeded without prior written authorization of Client, is:

Original Task Order No 9:	\$292,800.00
Additional Amount:	<u>\$ 63,900.00</u>
Total Compensation; Task Order No. 17:	\$356,700.00

This Task Order's Method of Payment is in accordance with Attachment 2.

5. Special Conditions: This Task Order is subject to the special provisions as described in Attachment __, attached and incorporated into this Task Order: N/A

6. Amendment: This Task Order amends a previously executed Task Order:

Previous Task Order Number: 9 Previous Task Order Date: December 9, 1999

ISSUED AND AUTHORIZED BY:
CITY OF MASON, OHIO

ACCEPTED AND AGREED TO BY:
MALCOLM PIRNIE, INC.

By: [Signature]
Title: City Manager

By: [Signature]
Title: Vice President

PROFESSIONAL SERVICES TASK ORDER

Task Order No.: 17

Attachment 1 **Scope of Work**

The following Exhibits are either described below or attached to this Task Order, Attachment 1, and are made a part thereof. The services described for each Exhibit herein are in addition to the services described in the respective Exhibits of Task Order Nos. 8 and 9.

- Exhibit A: Additional Design Phase Services (attached).
- Exhibit B: Additional Bidding Phase Services: Malcolm Pirnie will provide additional bid assistance services to publicly bid the additional facilities as described in Exhibit A, attached. The basic scope of bidding services shall remain unchanged as described in Exhibit B of Task Order Nos. 8 and 9.
- Exhibit C: Additional Construction Administration Services: Malcolm Pirnie will provide additional construction services to administer the construction contract for the additional facilities as described in Exhibit A, attached. In addition, Malcolm Pirnie will coordinate with the aerator manufacturer to verify that the aerator equipment meets the specified performance criteria. The basic scope of construction services shall remain unchanged as described in Exhibit C of Task Order Nos. 8 and 9.
- Exhibit D: Additional Resident Project Representation Services: Malcolm Pirnie will provide additional resident project representation services to oversee the construction of the additional facilities as described in Exhibit A, attached. The basic scope of construction services shall remain unchanged as described in Exhibit D of Task Order Nos. 8 and 9.

PROFESSIONAL SERVICES TASK ORDER

Task Order No. 17

Exhibit A Additional Design Phase Services

1. **Meetings.** Malcolm Pirnie will attend meetings and provide correspondence as related to the additional services outlined below.
2. **General.** Malcolm Pirnie will design the following additional facilities:
 - 2.1. **Sewage Pump Station:** Modifications of the existing sewage holding tank to house two sewage pumps, a new valve vault, and the associated force main.
 - 2.2. **Pile Foundation:** Deep foundation using auger-cast piles for the backwash holding basin.
 - 2.3. **Lagoon Demolition:** Demolition, liner/sludge removal, and regrading for the existing backwash lagoons.
3. **Detailed Design.** Malcolm Pirnie will provide the following services as related to design the additional facilities:
 - 3.1. **Backwash Facility and Aerator Field Trips.** Escort the City to visit two other Water Treatment Plants for the City to see similar facilities first-hand and understand the operation and maintenance issues. Site visits to include the backwash disposal facility at the City of Piqua and the cascade aerators at the City of Fairfield.
 - 3.2. **Aerator Testing.** Conduct a gravity-type aerator simulation with the existing aerators in order to better understand the applicability of the cascade aerators at the Mason WTP. Develop a sampling protocol for the City to take samples of the aerator influent and contact basin effluent over several days. Analyze the data to determine if the proposed cascade aerators will adequately perform at the Mason WTP.
 - 3.3. **Easement Coordination.** Coordinate the development of easement drawings and descriptions by our surveying subconsultant, TEC Engineering, for the backwash force main easements along Mason-Montgomery Road.
 - 3.4. **Hydraulic Modeling.** Develop a hydraulic model of the sewage pumping system for proper selection of the sewage pumps and force main sizing.
 - 3.5. **Contract Documents.** Prepare Contract Documents consisting of Drawings and Technical Specifications for the additional facilities:
 - a. Sewage Pump Station.
 - b. Pile Foundation for Backwash Holding Basin.
 - c. Lagoon Demolition and Regrading.
4. **Opinion of Probable Construction Cost.** Malcolm Pirnie will prepare Opinions of Probable Construction Costs for the additional facilities upon completion of the Contract Documents.
5. **Regulatory Approval.** Malcolm Pirnie will prepare the necessary plan approval applications and make the necessary copies of Contract Documents of the additional facilities for submittal to Ohio EPA for approval.

PROFESSIONAL SERVICES TASK ORDER

Task Order Number: 17

Attachment 2 Method of Payment

Terms of Payment

1. **Multiplier.** For Basic Services under Attachment 1, Client shall pay Malcolm Pirnie's Salary Cost times a factor of 2.15.

The estimated cost of Malcolm Pirnie's services, including non-labor expenses, is \$356,700.00.

Salary Cost is defined as the actual salary of staff members for the actual time worked times a factor of 1.49 which accounts for employee benefits such as vacation, sick leave, unemployment and payroll taxes, contributions for Social Security and retirement benefits, life and medical insurance, tuition and other such costs.

2. **Reimbursable Expenses.** Except for certain in-house services, project expenses incurred with outside vendors will be invoiced at cost plus 10% to cover handling. These services may include, but are not limited to: shipping charges; printing; supplies; equipment; traveling expenses; special insurance; licenses; permits; or subcontracted services.

In-house services not subject to handling costs are:

Computer usage:	\$3.10 per labor hour
Transportation:	\$0.42/mile for vehicles; \$0.54/mile for 4x4 vehicles
Reproduction:	\$0.76 per labor hour
Specialty Equipment:	In accordance with a usage rate schedule

3. **Invoices.** Malcolm Pirnie will submit invoices to Client for each month during which services were performed. Invoices may include carrying charges at 1.5% per month for delinquent payments outstanding over 30 days and applicable sales or value-added taxes.