

INSTRUCTION TO BIDDERS

March 5, 2009 ITB-COT 09-09

Sealed bid proposals to FURNISH ALL EQUIPMENT, MATERIAL AND LABOR TO INSTALL, START UP, AND TRAIN STAFF FOR AN ULTRAVIOLET CHLORAMINE DESTRUCT AND DISINFECTION SYSTEM AT THE CITY OF TROY COMMUNITY CENTER INDOOR LEISURE POOL located at 3179 Livernois, Troy, MI, 48083 will be received by the City of Troy at the office of the City Clerk, 500 W. Big Beaver Road, Troy, MI 48084 until TUESDAY, MARCH 24, 2009 at 10:00 AM EDT, after which time they will be publicly opened and read in the Troy City Offices. Bid responses are not accepted via fax transmission.

MARK ENVELOPES: ITB-COT 09-09 UV SYSTEM ON THE LOWER LEFT-HAND CORNER.

The proposals will be for the Installation and Start up of an UV System, including staff training, in accordance with specifications. Specifications are listed in the bid proposal form on file in the office of the City Clerk.

All bids shall specify terms and show delivery dates. The City reserves the right to reject any or all bids, to waive any informality in the proposal received, and to accept any proposal or part thereof, which it shall deem to be most favorable to the interests of the City.

- 1. Any and all bids submitted must be on the City of Troy bid proposal forms. If more than one bid is submitted, a separate bid proposal form must be used for each. Forms are enclosed or obtainable at the City of Troy's Purchasing Department, Troy or on the MITN (Michigan Intergovernmental Trade Network) website at www.mitn.info.
- Municipalities are exempt from Michigan State Sales and Federal Excise taxes. Do not include such taxes in the proposal figure. The City will furnish the successful bidder with tax exemption certificates when requested.
 - The following exception shall apply to installation projects. When sales tax is charged to the successful bidder for materials to be installed during the project, that cost shall be included in the cost bid and not charged as a separate item. The City is not tax exempt in this case and cannot issue an exemption certificate.
- 3. **Delivery:** All materials are to be F.O.B. delivered freight paid, to City of Troy Community Center, 3179 Livernois, Troy, MI 48083. **Please** call **Ann Blizzard or Brian Goul at (248) 524-3484** prior to delivery of any materials to the installation site.
- 4. If further information regarding this bid is required, please contact the Purchasing Department at (248) 680-7291.
- 5. VENDOR CHANGES OR ALTERATIONS TO BID DOCUMENTS INCLUDING SPECIFICATIONS MAY RESULT IN A BID BEING CONSIDERED NON-RESPONSIVE. The only authorized vendor changes to a bid document will be in the areas provided for a bidder's response, including the "Exceptions" section of the bid proposal. If a change or alteration to the documents is undetected and the bidder is awarded a contract, the original terms, conditions, and specifications in the Authorized Version of the bid document will be applicable during the term of the contract. The City of Troy shall accept NO CHANGES to the bid document made by the Vendor unless those changes are set out in the "Exceptions" provision of the Authorized Version of the bid document. It is the Vendor's responsibility to acquire knowledge of any changes, modifications or additions to the Authorized Version of the bid document. Any Vendor who submits a bid and later claims it had no knowledge of any changes, modifications or additions made by the City of Troy to the Authorized Version of the bid document, shall be bound by the bid, including any changes, modifications or

5. Continued

additions to the Authorized Version. If a bid is awarded to a Vendor who claims that it had no knowledge of the changes, modifications or additions made by the City of Troy to the Authorized Version of the bid, and that Vendor fails to accept the bid award, the City of Troy may pursue costs and expenses to re-bid the item from that Vendor. The Authorized Version of the bid document shall be that bid document appearing on the MITN website with any amendments and updates.

- 6. The City of Troy officially distributes bid documents from the Purchasing Department or through the Michigan Intergovernmental Trade Network (MITN). Copies of bid documents obtained from any other source are not considered official copies. Only those vendors who obtain bid documents from either the Purchasing Department or the MITN system are guaranteed access to receive addendum information, if such information is issued. If you obtained this document from a source other than the sources indicated, it is recommended that you register on the MITN website, www.mitn.info and obtain an official copy.
- 7. A successful bidder furnishing labor on City/public premises does agree to have his workers covered by Worker's Compensation, and furnish a certificate of insurance showing coverage for bodily injury and property damage and worker's compensation to Mr. Stephen Cooperrider, Risk Manager within 5 days of a verbal request. The "Company Representative" does warrant that by signing the proposal document, the "additional insured endorsement" will be included in the Insurance Coverage supplied to the City as part of the specified requirements. For insurance questions, please contact Mr. Stephen Cooperrider at (248) 526-5127.
- 8. To the fullest extent permitted by law, the successful bidder agrees to defend, pay on behalf of, indemnify, and hold harmless the City of Troy, its elected and appointed officials, employees and volunteers and others working on behalf of the City of Troy against any and all claims, demands, suits, or loss, including all costs connected therewith, and for any damages which may be asserted, claimed or recovered against or from the City of Troy, its elected and appointed officials, employees, volunteers or others working on behalf of the City of Troy, by reason of personal injury, including bodily injury or death and/ or property damage, including loss of use thereof, which arises out of or is in any way connected or associated with this contract.
- 9. To the extent permitted by law, the City of Troy and the successful bidder waive all rights against each other and any of their subcontractors, sub-subcontractors, agents and employees, and the architect, architect's consultants, separate contractors, if any, and any of their subcontracts, subcontractors, sub-subcontractors, agents and employees, for damages caused by fire or other perils to the extent covered by property insurance obtained pursuant to this agreement or other property insurance applicable to the work. The policies shall provide such waivers of subrogation by endorsement or otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged for this contract.
- 10. A cashier's check, certified check, or money order in the amount of \$5,000.00 must accompany the bid to insure the bid. The three lowest unsuccessful bidders will have their bid surety returned after the bid award. BID BONDS ARE NOT ACCEPTABLE. The bid surety will be returned to the successful bidder upon submission of the specified acceptable Performance, Labor and Materials Payment Bonds, and an executed one (1) year Maintenance Bond in accordance with specifications. In addition, the bid deposit will be forfeited if the final insurance documents submitted are unacceptable and not delivered in the prescribed timeframe. All other bidders will have their bid deposits returned after the bid opening.

SPECIAL INSTRUCTIONS

- All bidders are held to bid prices for 60 days or bid award, whichever comes first, except the successful bidder whose prices shall remain firm through project completion and final acceptance.
- Final bid results will be posted on the MITN website after award. Please register to see the results www.mitn.info.



CITY OF TROY BID PROPOSAL

ITB-COT 09-09 Page 1 of 6

The undersigned proposes to FURNISH ALL EQUIPMENT, MATERIAL AND LABOR TO INSTALL, START UP AND TRAIN STAFF FOR AN ULTRAVIOLET CHLORAMINE DESTRUCT AND DISINFECTION SYSTEM AT THE CITY OF TROY COMMUNITY CENTER INDOOR LEISURE POOL in accordance with the attached specifications, which are to be considered an integral part of this proposal, at the following prices:

COMPANY N	AME:	
The documen	t contains the following sections:	
Bid Proposal		Forms (6 forms)
	/alues (1 page)	Public Act 57 (2 pages)
	tionnaire (2 pages)	Sample Insurance Certificate (1 page)
Specifications	s (5 pages)	Debriefing Form (1 page)
PROPOSAL:	Install an Ultraviolet Chloramine	Destruct and Disinfection System
		uipment to install, start up, and train staff for an n System in accordance with the attached specification:
СОМР	LETE FOR THE SUM OF: \$	
	Product Name:	
	Manufactured by:	
LIFE CYCLE O	COSTING MODEL:	
Assumptions:	Average number of hours on per ye	ear – 6,044
·	Electric cost per kilowatt-hour \$.08	
Number of lig		
	nps per fixture	
Watts (fixture watts/number of lamps)		Watts
Cost per UV Bulb		\$
Lamp life in hours		Hours

IMPORTANT: The above costing model will be used to evaluate the bid proposals to determine the lowest responsible bidder meeting specifications over an estimated twenty-five year life of the equipment.

SCHEDULE OF VALUES: The City of Troy may be required to add or delete work due to unforeseen circumstances. Therefore, a unit price schedule shall be attached to your bid document at the time of submission which indicates unit prices for all items to be used during the course of the project. All unit prices shall include the labor to install the item.

A <u>SCHEDULE OF VALUES</u> FORM IS ATTACHED AND MUST BE COMPLETED AND RETURNED WITH THE BID AT THE TIME OF SUBMISSION.

NOTE: All items of work noted in the specifications that are not specifically noted in the proposal shall be considered as included in the contract and shall be constructed at no extra cost to the City of Troy.

Bid Proposal UV SYSTEM Page 2 of 6

ADDITIONAL INFORMATION:

For additional information or questions of	concerning this proje	ect please contact: .	Ann Blizzard, Recreation
Supervisor or Brian Goul, Aquatics C	coordinator at (248)) 524-3484.	

CONTACT INFORMATION: Hours of Operation:
1-800 Phone Number:
24 Hr Technical Support "Hot Line":
SITE INSPECTION: All bidders <u>should</u> examine the sites to determine the amount of work to be done in accordance with the work specified by attending the Pre-bid Meeting scheduled for Tuesday, March 17, 2009 at 1:00 PM EDT at the City of Troy Community Center, 3179 Livernois, Troy, MI 48083. An opportunity to inspect the pool will be available during the Pre-bid Meeting. If a bidder does not attend the pre-bid meeting that bidder accepts full responsibility and risk for any errors or omissions in his/her bid proposal.
() Our company attended the Pre-bid Meeting.
() Our company did not attend the Pre-bid Meeting.
PERMITS: The City of Troy and State Health Department do not require permits or inspections for this work.
PROGRESS PAYMENTS: The successful bidder shall establish with the City of Troy, the procedure for payment and retainages prior to commencement of work on this project. Each bidder should attach a progress payment schedule to the bid document at the time of bid submission. The City of Troy reserves the right to reject the payment schedule if deemed necessary and determine the final schedule.
No payments for work will be made until the designated City representative approves the work as complete in accordance with specifications. The City of Troy reserves the right to withhold payments for work which is incomplete, shoddy, or not as specified. The decision made by the City's representative concerning acceptable workmanship will be deemed in the City's best interest. Prior to release of the final payment, consent of surety document (AIA Document G707) will be required and signed by the surety Company.
Proposed Payment Schedule:
APPROVED ALTERNATES: If a vendor has a product they would like to be considered, this option is available. Descriptive literature, which includes specifications, must be provided for items to be considered as alternates to the items specified. The designated City representative's decision as to acceptability will be deemed in the City's best interest and will be final.
DESCRIPTIVE LITERATURE: Please attach descriptive materials that are available on the product(s) quoted. Include complete drawings for the installation and printed instructions for the operation of the UV system herein specified.
Descriptive Literature attached and marked for identification.
MICHIGAN CONSTRUCTION LIEN ACT: The bidder agrees that, if awarded the Contract(s) he/she will abide by all requirements of the Michigan Construction Lien Act (P.A. 1980, No. 497) as amended and effective March 1, 1982, and to provide full and complete Sworn Statements on Owner-approved forms.
COMPANY NAME:

Bid Proposal UV System Page 3 of 6

PUBLIC ACT 57:

Public Act 57 requires contractors to provide certain notices to governmental entities concerning improvements on real property; to allow for modifications of contracts for improvement of real property; to provide for remedies; and to repeal acts and parts of acts. This contract shall comply with all applicable provisions of Public Act 57 [a copy of the act is attached for reference (2 pages)].

COMPLETION DATE:

A work schedule shall be provided to the designated City Representative who will approve the work schedule prior to the start of the project. His / her decision as to acceptability shall be deemed in the City of Troy's best interest and will be final. Once the Contractor moves supplies and materials to the work site, work shall commence and be completed by **June 10, 2009** and will be scheduled according to slower pool usage times. The City of Troy is the only party to this contract that may authorize amendment to this schedule.

()	Our Company can meet this delivery / installation schedule
()	Our company cannot meet this delivery / installation schedule but offers:

AWARD:

The evaluation and award of this bid shall be a combination of factors, including but not limited to: cost, including life-cycle cost, professional competence, references, and the correlation of the proposal submitted to the needs of the City of Troy.

The City of Troy reserves the right to award this bid to the lowest responsible bidder meeting specifications; or in whatever manner is deemed to be in the City's best interest; to reject low bids which have major deviations from specifications; to accept a higher bid which has only minor deviations.

DELIVERY:

All materials are to be F.O.B. delivered freight paid, to the City of Troy Community Center, 3179 Livernois, Troy, MI 48083 - <u>Please</u> call **Ann Blizzard, Recreation Supervisor or Brian Goul, Aquatics Coordinator at (248) 524-3484** prior to delivery of any materials to the installation site.

CONTRACT FORMS:

Bidders should complete the Legal Status of Bidders and Non-Collision forms and return with your bid proposal. All other forms will be completed after award.

CONTRACT DOCUMENT:

After the Troy City Council has approved the award; the successful bidder will be required to sign the Contract Form (provided in the Contract Documents Section) prior to commencing with the project. The purchase order issued in conjunction with the Contract Form from the City of Troy will create a bilateral contract between the parties and commit the successful bidder to perform the contract in accordance with specifications.

DESIGNATED CITY REPRESENTATIVE:

Ann Blizzard, Recreation Supervisor is the designated City Representative for this project.

BID DEPOSIT AND FORFEITURE:

The bid deposit of the lowest bidder shall be forfeited if, after bid opening, a change in bid price or other provision of the bid is required by the bidder that is prejudicial to the interest of the City of Troy or fair competition.

DOWNPAYMENTS AND PREPAYMENTS:

Any proposal submitted which requires a down payment or prepayment for equipment and material prior to delivery and acceptance, as being in conformance with specifications will not be considered for award.

COMPANY NAME:	

Bid Proposal UV System Page 4 of 6

BOND SUBMITTAL:

Subsequently, upon notice of award to the successful bidder, the Contractor shall qualify for, sign, and deliver to the City of Troy an executed Performance Bond, an executed Labor and Materials Payment Bond, and an executed one (1) year Maintenance Bond secured by a surety company, acceptable to the City of Troy by being licensed to do business in Michigan, and be included on the U. S. Treasury Department Surety List and/or have a rating of A (-) or better by A. M. Best, and/or Standard and Poors, on standard AIA forms, each in the amount of one hundred percent (100%) of the contract sum.

Attorneys-in-fact, who sign Performance and Payment Bonds must file a certified copy of their power of attorney to sign such bonds. **The Contractor shall pay the cost of all bond premiums**.

SUBCONTRACTORS:

The undersigned agrees to submit a list of proposed subcontractors, if applicable, for approval by the designated City representative within 72 hours after notification of being the low qualified bidder. It will be understood that this may occur prior to bid award, but the bidder's status will not be final until approved by the Troy City Council.

It will be the successful bidder's responsibility to ensure that any subcontractor performing work on this project is capable of doing the work as specified. The designated City representative retains the right to evaluate the work performed by or on behalf of the successful bidder and reserves the right to reject any work performed that is not in accordance with the specifications or is considered to be poor workmanship. Payment will not be made until the successful bidder has corrected any deficiencies found to the satisfaction of the designated City representative.

IMPORTANT:

The City shall have the right to require by written order, changes in, additions to, or deductions from the work required by the bid documents provided that if changes, additions, or deductions are made, the general character of the work as a whole is not changed thereby. Adjustments in the Contract price, if any, because of any change, addition, or deduction in the work, shall be determined as hereinafter provided, and any claim for extension of time for completion shall be adjusted at the time of ordering the changes, addition, or deduction.

No claim for change, addition, or deduction, or adjusting of price, or extension of time for completion thereof, shall be made or allowed unless done in pursuance of written order from the City specifically authorizing such change, addition, or deduction. Drawings without a written order shall not be considered such authority. Written notice of such claims shall be made to the designated City representative before the commencement of the work. Where the written order diminishes the quality of work to be done, this shall not constitute a basis for a claim for damages or anticipated profits on the work that may be dispensed with.

COMPANY NAME:		
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Bid Proposal UV System Page 5 of 6

INSURANCE:

Insurance Requirements shall be in accordance with the attached **SAMPLE INSURANCE CERTIFICATE**. The required Insurance Certificate must be submitted to Mr. Stephen Cooperrider, Risk Manager, within (5) days of the verbal/ electronic request. The bid cannot be completely awarded without this Insurance Certificate. The Insurance Certificate may be faxed **(248) 526-5129** to the City Offices, and is the only bid document accepted in this format.

()	We can meet the specified insurance requirements.	
()	We cannot meet the specified insurance requirements.	
()	We do not carry the specified limits but can obtain the a \$ at the cost of \$ Note: Please note the amendments on a sample insura your bid proposal.	· ·
()	Our bid proposal is reduced by \$i \$ Note: Please note the amendments on a sample insura your bid proposal.	f we lower the requirements to

IMPORTANT: A Certificate of Insurance on an ACORD Form showing present coverage or a letter from your insurance agent or carrier that the insurance to be supplied will meet specifications <u>SHOULD</u> be attached to the bid proposal document at the time of submission of the bid to the Office of the City Clerk.

NOTE: Failure on the part of any bidder to contact his/her insurance carrier to verify that the insurance carried by the bidder meets City of Troy specifications may result in this bid proposal being completed incorrectly.

<u>OTHER</u>: Sole proprietors must execute a certificate of exemption from Worker's Compensation requirements or provide proof of Worker's Compensation Insurance. All coverage shall be with insurance carriers licensed and admitted to do business in Michigan and acceptable to the City of Troy.

INSURANCE VERIFICATION: A bidder shall complete the above portion that details additional costs that may be incurred for specified coverage without purchasing the additional coverage prior to bid submission.

<u>Letter Verification</u>: If not submitted with the bid documents as requested, the recommended bidder will be notified to submit a letter from their *insurance agent or carrier* that the insurance to be supplied will meet specifications. As an alternative, the successful bidder may submit the certificate of insurance meeting specifications at this time at his/ her option. *The City must receive this letter or certificate within 5 business days after verbal / electronic notification has been delivered to the recommended bidder or the bidder will be considered non-responsive and the bid un-awardable. This process will occur before presentation of the award recommendation to the Troy City Council.*

<u>Final Insurance Certificate Submission:</u> After approval by Troy City Council, the City of Troy will review the insurance certificate(s) to ensure all acceptable documents have been received, and allow (5) additional days after verbal / electronic notification to submit final insurance certificate(s) in accordance with specifications. The City of Troy reserves the right to WITHHOLD AND KEEP any bid surety for failure to comply. The company will be considered in default of contract and will be barred from doing business with the City of Troy for a minimum of three (3) years for failing to meet insurance requirements.

COMPANY NAME:	
	

Bid Proposal UV System Page 6 of 6

SIGNATURE PAGE

PRICES:

Prices quoted shall remain firm for 60 days or bid award, whichever comes first, except the successful bidder whose prices shall remain firm through project completion and final acceptance in accordance with specifications.

SIGNATURE OF AUTHORIZED COMPA	ANY REPRESENTATIVE:
	d carefully the bid figures and understands that he/she shall be responsible for bid offer and is in receipt of all addendum as issued.
TAX ID:	
COMPANY:	···········
ADDRESS:	CITY: STATE:ZIP:
PHONE: ()	FAX NUMBER: ()
REPRESENTATIVE'S NAME	E:(Print)
SIGNATURE OF AUTHORIZED COMPA	ANY REPRESENTATIVE:
PAYMENT TERMS:	WARRANTY: All components (excluding UV arc tube) 12 Months See Technical Specifications – 1.02 Guarantee (page 1 of 3) for UV arc tubes
COMPLETION DATE: Jun	e 10, 2009 E-MAIL:
stated below and reason for,	and are an integral part of this bid offer.
that the bid proposal docum Department or MITN website	, certify that I have read the <i>Instructions to Bidders</i> (2 Pages) and nents contained herein were obtained directly from the City's Purchasing, www.mitn.info and is an official copy of the Authorized Version.
NOTE: The City of Troy at their disc	retion, may require the bidder to supply a Financial Report from an impartial

The City of Troy, at their discretion, may require the bidder to supply a Financial Report from an impartial Financial Credit Reporting Service before award of contract.

IMPORTANT: All City of Troy purchases require a MATERIAL SAFETY DATA SHEET, where applicable, in compliance with the MIOSHA "Right to Know" Law. <u>Please include a copy of any relevant MSDS at the time of bid submission.</u>

U.S. FUNDS: All prices are to be quoted in U. S. Currency.



SCHEDULE OF VALUES

Your company **MUST** complete this form.

Note: Individual equipment prices, material, and the labor costs to install those items are requested if the quantity changes during project implementation.

Supply List	Unit Cost (includes labor)
	\$
	\$
	\$
	\$

ADDITIONAL MATERIALS:	UNIT PRICE (includes labor)
	\$
	\$
	\$
EQUIPMENT:	
	\$
	\$

Note: If more space is required, attach additional sheets if needed but use the format established above.

Please include prices for additional services necessary, if additional work results from a change to the Scope of Work.

COMPANY NAME:	



Questionnaire UV System Page 1 of 2

VENDOR QUESTIONNAIRE

DATE	E: Month/Date/Year			
	Month/Date/Year			
FIRM	NAME:			
ESTA	ABLISHED:	, 19	or 20	STATE:
TYPE	OF ORGANIZATION: (Circle One)			
	dividual			
b. Pa	artnership			
	orporation			
	pint Venture			
e. O	ther			
If app	licable:			
FORM	MER COMPANY NAME(S)		YE	ARS IN BUSINESS
durin	this company or any of its Officers ever ig the last ten (10) years? YES / NO who and when filed:			
	e provide the following information and su			
1)	Number of years of experience insta Systems:Years	-		ct and Disinfection
2)	Our Company has installed Disinfection Systems in the past five	Ult years:	raviolet Chlo	ramine Destruct and
3)	List all contract commitments your f organization name, value of contract			erform for 2009/2010. Give
	ORGANIZATION	VAL	UE	PERCENTAGE
4)	Name of your bank or other financial	l reference:		

Questionnaire UV System Page 2 of 2

Professional References – please list at least five (5) clients with whom you have an UV Chloramine Destruct and Disinfection system for within the past five (5) y are similar in scope to the type of work described in this proposal. Contact name listed information are to be provided. Entity Name Address Contact Name Phone Number Describe your firm's experience in installing UV Chloramine Destruct and Disinfect Systems for indoor public swimming pools. Describe the training your firm will provide the City for the operation of the propost System including number of hours and documentation to be provided. FOREGOING QUESTIONNAIRE IS A TRUE STATEMENT OF FACTS: Signature of Authorized Company Representative: Company: Address: Phone Number:					
Describe your firm's experience in installing UV Chloramine Destruct and Disinfect Systems for indoor public swimming pools. Describe the training your firm will provide the City for the operation of the propost System including number of hours and documentation to be provided. FOREGOING QUESTIONNAIRE IS A TRUE STATEMENT OF FACTS: Signature of Authorized Company Representative: Company: Address:	an UV Chloramine are similar in scop	e Destruct and lipe to the type of	Disinfection system for f work described in th	or within the past five	(5) years
Describe the training your firm will provide the City for the operation of the proposition of the proposition including number of hours and documentation to be provided. FOREGOING QUESTIONNAIRE IS A TRUE STATEMENT OF FACTS: Signature of Authorized Company Representative: Company: Address:	Entity Name	Address	Contact Name	Phone Number	E-I
Describe the training your firm will provide the City for the operation of the proposition of the proposition including number of hours and documentation to be provided. FOREGOING QUESTIONNAIRE IS A TRUE STATEMENT OF FACTS: Signature of Authorized Company Representative: Company: Address:					
System including number of hours and documentation to be provided. FOREGOING QUESTIONNAIRE IS A TRUE STATEMENT OF FACTS: Signature of Authorized Company Representative: Company: Address:				mine Destruct and Dis	sinfection
Signature of Authorized Company Representative: Company: Address:					
Signature of Authorized Company Representative: Company: Address:					roposed
Company: Address:					roposed
Address:	REGOING QUE	number of hour	s and documentation	to be provided.	roposed
Phone Number:	REGOING QUE	STIONNAIRE IS	s and documentation	to be provided.	roposed
	REGOING QUE	STIONNAIRE IS rized Company R	s and documentation	to be provided.	roposed
Representative's Name:(print)	REGOING QUE Signature of Author Compar Address	STIONNAIRE IS rized Company R ny:	s and documentation	to be provided.	roposed



CITY OF TROY

GENERAL SPECIFICATIONS INSTALLATION OF ULTRAVIOLET CHLORAMINE DESTRUCT AND DISINFECTION SYSTEM

Contractor Specifications:

Only contractors with a minimum of 5 years experience in this area shall qualify to perform the services described herein either with their own forces or that of a subcontractor. The bidding contractor is solely responsible for the finished product. All insurance shall be in place to best protect the City through this process and must be submitted as specified. Bidders will be responsible for the installation, start up, and training of City staff for the UV system provided.

The Contractor will supply a work schedule prior to the start of the project that will need to be approved by the City Representative for installation and training of the Ultraviolet System to ensure the project will be completed correctly and on time. Contractors shall have a service staff capable of performing all services deemed necessary to complete all phases of the work bid.

I. Scope of Work

The Contractor will be responsible for all costs associated with the complete Installation and start up of the Ultraviolet Chloramine Destruct and Disinfection System for the Leisure pool at the Troy Community Center Indoor Pool. The system shall be sized for a swimming pool recirculation rate of 625 GPM, a turnover rate of 2 hours, and 88,000 gallons. Make necessary adjustments to existing piping to accommodate the new UV system. Train staff on use of the equipment and be available for questions regarding the all aspects of the system.

The Contractor will provide complete training of City staff including comprehensive training of daily operations, as well as long and short-term maintenance of equipment. Training will involve four staff members.

The Contractor will be responsible for all costs associated with transportation and lodging needs for Contractor's staff during installation, start-up and training.

II. Examination of Site

The bidder acknowledges that he has examined the site and specifications and the submission of a proposal shall be considered evidence that examination has been made.

III. Time of completion:

The project shall be totally completed by June 10, 2009 and installation will be scheduled with the designated City Representative to ensure the work is done during low usage pool times.

IV. Construction Site:

The construction site is located at 3179 Livernois, Troy, Michigan. The contractor shall prohibit public access into the work areas.

General Specifications Installation, Start Up, and Training of UV System Page 2 of 2

V. Existing Conditions:

The contractor shall reasonably verify the existing conditions identified in the contract documents. Any documented changes required to be given to the City must be in writing and approved by the City prior to installation.

VI. Other reference specifications:

The latest issues of the industry standards referenced herein, form a part of these specifications to the extent referenced. They may be referred to in the text by abbreviation and by basic designation only.

VII. Submittals:

Prior to incorporation of materials into the work, the Contractor shall submit the following items to the designated City representative for approval (1 copy each):

- a. Submit work progress schedules prior to commencement of work. This should include the schedule of preparation work, the coordination of delivery of the UV System and amount of time the facility will need to be closed.
- b. Submit complete manufacture's product data and pictures of the system, including bulb replacement instructions and troubleshooting guide.

VIII. Quality Assurance and Testing:

The Contractor shall perform his own quality assurance and testing of equipment, materials or other work, unless otherwise specified, to ensure conformance to the Contract documents. Inspection of the work and approval of progress payments by the City will not relieve the contractor from performing in accordance with the Contract documents. The City reserves the right to withhold a progress payment for incomplete or shoddy work. The designated City of Troy representative shall be the only party that determines whether the work is acceptable.

TECHNICAL SPECIFICATIONS INSTALLATION, START UP, AND TRAINING OF THE ULTRAVIOLET SYSTEM

PART 1 – GENERAL

1.01 SCOPE: Furnish all equipment, materials, supplies, and labor as may be required or necessary to install, start up and train staff on the Ultraviolet Chloramine Destruct and Disinfection System. The UV system should be a complete unit with all necessary controls. The control panel and UV chamber shall be capable of being installed up to 200 feet apart. The system shall be preassembled and controls packaged for ease of installation at the job site and shall include: the UV chamber with flow and output safety control; a UV medium pressure arc tube modified to emit UV light from 220nm to 400nm; an automatic, adjustable, electric motor driven quartz sleeve cleaning system; operational and power controls; the ability to dose control the UV delivered to the pool water; the chamber must be able to be mounted up to 300 feet from the control cabinet. The system shall be sized for a swimming pool recirculation rate of 625 GPM and a turnover rate of two hours, and 88,000 gallons of water.

1.02 GUARANTEE: The Contractor shall provide a written warranty that when operated and maintained according to the manufacturer's operating instructions provided and accepted, it will perform in complete accord with these specifications. All components (excluding the UV arc tube) shall have a warranty of 12 months from date of start-up. UV arc tubes shall be warranted to operate for 4000 hours when operated continuously. A continuously operated UV arc tube that fails prior to 4000 hours of operation shall be replaced free of charge. Intermittently operated UV arc tubes will be replaced free of charge should failure occur prior to 2000 hours and prorated between 2000 and 4000 hours. Should the City determine that the finished product is not acceptable the Contractor shall immediately respond to such claims and make any repairs acceptable to the City at no additional cost to the City.

PART 2 - PRODUCTS

2.01 UV Chamber: The UV chamber shall be pressure rated for continuous operation at 150psi tested to 225psi and constructed of type 316L stainless steel. It shall be designed for an internal pressure drop not to exceed 2psi at maximum flow. The chamber shall incorporate:

- A. A temperature sensor to shut off the UV arc tube when there is inadequate flow in the chamber.
- B. An UV intensity monitor which alarms when the UV arc tube output drops below the dosing level required for proper operation . The monitor shall be of the wet probe type wavelength specific to 240nm 280nm with a 4-20mA output. It shall display actual lamp intensity (mW/cm2) on the control cabinet door display. (NOTE: *Relative* type UV monitors shall not be acceptable). Dry probe monitors shall not be acceptable, as this type cannot be wiped during the automatic wiping action. Direct line of site monitors (IE. Those types that have the sensor directly exposed to UV light) shall not be permitted. The monitor shall use offset filters to extend monitor life and to ensure only a limited band of wavelengths is measured.
- C. A stainless steel terminal cover fastened to the chamber end plate, to which is affixed the electrical conduit, to protect the lamps and electrical leads. (NOTE: plastic terminal covers/caps shall not be permitted.)
- D. A design for laminar flow to provide maximum efficiency in the transfer of UV to the water. (NOTE: baffle plates or similar devices create turbulent flow and dead spots which reduce the efficiency of UV transfer into the water and are therefore not permitted.)

Technical Specifications - continued Installation, Start Up and Training of UV System Page 2 of 3

Part 2 – Products – 2.01 UV Chamber (continued)

- E. Limit switches shall be located to position the wiper, and to prevent the wiper from parking over the active arc tube. The switches shall be of magnetic type, and shall include visual indication of the wiper position. The wiper mechanism shall be fail safe, and shall shut the system down in the event of failure, as described below.
- F. The chamber shall contain a quartz sleeve, which is sealed at both ends by a UV shrouded O ring. The quartz must be annealed for durability and against breakage. Systems that contain a quartz thimble shall not be permitted. The thimble is inherently buoyant and poses a safety risk to operators during annual maintenance.
- G. The wetter surfaces shall be chemically passivated and all welds ground to eliminate any potential corrosion mechanisms. Crevices (as found behind a quartz thimble) shall not be permitted under any circumstance.
- **2.02 Automatic Wiper System:** For periodic cleaning of the quartz sleeves and the UV monitor probe, the chamber shall be fitted with an automatic cleaning mechanism. It shall consist of a single SS yoke with Teflon bosses and replaceable molded viton wiper rings which travel the full length of the quartz sleeve twice per cleaning cycle. The frequency of the wiper cycle shall be adjustable from 15 to 720 minutes and set for job conditions. The mechanism shall be driven by a two-pole bi-directional electric motor and acme lead screw. Reed type limit switches shall control the length of travel. The wiper mechanism wiper rings in the "parked" positions shall not be over the lamp, blocking the transfer of UV light, or creating a "hot spot" on the arc tube.
- **2.03 Ultra Violet Lamp:** The UV lamp shall be a high intensity, medium pressure UV arc tube modified to emit a continuous UV spectrum from 220nm to 400nm into the water. Full output must be available from 0 to 200 degrees. The lamp shall be UL approved with one electrical lead at each end. NOTE: lamps with metal frames diminish operational life and shall not be permitted, as the frame can obscure the UV and metal from the frame can be transferred onto the inside of the quartz sleeve, thus inhibiting the UV action. A spectral certificate shall be provided with each lamp to demonstrate spectral accuracy. Each lamp shall be individually numbered and the manufacturing process shall permit full audit and traceability of assembly. In addition to an individual serial number, the part number shall be displayed on the lamp.
- **2.04 UV System Control:** The system control cabinet shall be epoxy coated steel, NEMA 12, fan cooled with louvers and replaceable filters. The control system shall be de-energized when the cabinet door(s) are open. All wiring shall be harnessed in DIN channels. The power supply to the UV arc tubes shall be from a constant wattage transformer. The entire system shall be UL listed and there shall be a decal clearing showing this listing displayed in the cabinet. The control cabinet shall display via a back lit liquid-plasma display and shall display the following information:
 - A. Power on
 - B. UV intensity (% and mW/cm2)
 - C. UV dose(mJ/cm2)
 - D. Flow rate in GPM
 - E. Arc tube ready indicator
 - F. Any alarm condition

Technical Specifications - continued Installation, Start Up, and Training of UV System Page 3 of 3

Part 2 – Products – 2.04 UV System Control (continued)

- G. Wiper status and alarm
- H. Consumable spare parts list with part numbers
- I. Local/remote operation switch, door mounted
- J. Data logging of UV dose, lamp hours, lamp intensity for regulatory audit.

The control panel shall contain an Earth Leakage detector, which shall provide fail-safe protection for bathers and those working on the equipment within the pool environment. This requirement is mandatory, as the voltages used within UV systems can pose risk of death. The control panel shall be UL LISTED, and in addition shall conform to EN50081 and EN 61000. The panel and all UV components shall be manufactured to ISO 9001-2000.

PART 3 - EXECUTION

3.00 GENERAL: The UV system shall be installed by a qualified factory trained representative having a minimum of five years experience in the installation of pool equipment. The Contractor shall provide written proof of such experience upon request. The representative will install the equipment, put it into operation and instruct the owner's representative(s) in the operation and maintenance of all such equipment.



Legal Status of Bidder:

The Bidder shall fill out the appropriate form and strike out the other two:

A corporation duly organized and doing business under the laws of the State of, bearing the office title of, signature is affixed to this proposal, is duly authorized to execute contracts.			
	,		
A partnership , all members of which,	with addresses, is:		
_			
	FIXED TO THE PROPOSAL:		



CITY OF TROY OAKLAND COUNTY, MICHIGAN NON-COLLUSION AFFIDAVIT

TO WHOM IT MAY CONCERN:	
(Print Full Name)	, being duly sworn deposed, says that he
is The (State Official Capacity in Firm)	party making the foregoing proposal or bid,
connived, or agree, directly or indirectly, with an from bidding and has not in any manner directly communication or conference, with any person fix any overhead, profit, or cost element of said	nam; that said bidder has not colluded, conspired, my bidder or person, to put in a sham bid or to refrain y or indirectly sought by agreement or collusion, or to fix the bid price or affiant or any other bidder, or to bid price, or that of any other bidder, or to secure person interested in the proposed contract; and that I are true.
	SIGNATURE OF PERSON SUBMITTING BID
	NOTARY'S SIGNATURE
	Subscribed and sworn to before me this, day of, 200 in and for County.
	My commission expires:



City of Troy Oakland County, Michigan Contract Form

ARTICLES OF AGREEMENT, made and entered into this _____ day of _____

200 by and between	of	f
200 by and between(Na	me)	(City and State)
herein after called the Contractor and	d the City of Troy, Troy,	Michigan hereinafter called the Owner,
WITNESSETH, that the Contractor follows:	and the Owner for the	considerations hereinafter named, agree as
That all Contract Documents, as def be and are hereby made a part of the		ns, hereto attached or herein referred to shal act.
equipment necessary and perform a	Il of the work as set fort documents which have	t) submitted, furnish all labor, materials, and th in his Proposal in strict accordance with the ve been made a part of this contract in the
	ct of the complete sum t	the Contractor the amounts provided in the therein set forth all in the time and manner as
IN WITNESS whereof said parties h written.	ave hereunto set their h	hands and seals, the day and year first above
WITNESS: 1.		
		(Contractor)
2		
		(Title)
APPROVED: BY:(Mayor)		
		CITY OF TROY
City Manager or Designee		(Owner)
RESOLUTION NUMER:		
APPROVED AS TO FORM AND LEG		
		ATTEST:(City Clerk)
City Attorney		(City Clerk)



City of Troy Oakland County, Michigan Contractor's Affidavit

TO WHOM IT MAY CONCERN: The undersigned, being duly sworn, deposes and says the following: That he or she is _____(Title) _____ of the, _____(Construction Company) The contractor for installation of the Ultraviolet Chloramine Destruct and Disinfection System - This work is located within the City of Troy and is owned by the City of Troy, Oakland County, Michigan; That the total amount of the Contract, including extras, is \$ ____ _, on which he has received payment of \$_____ prior to this payment; That all waivers are true, correct, and genuine, and delivered unconditionally and that there is no claim, either legal or equitable, to defeat the validity of said waivers: That the following are names of all parties who have furnished material or labor, or both, for said work, and all parties having contracts or subcontracts for specific portions of said work or for material entering into the construction thereof, and the amount due or to become due to each, and that the items mentioned include all labor and materials required to complete said work according to plans and specifications: NAMES WHAT FOR CONTRACT AMOUNT PAID THIS PAYMENT **BALANCE DUE** PRICE **TOTAL LABOR & MATERIALS TO** COMPLETE: That there are no other contracts for said work outstanding, and that there is nothing due to become due to any person for materials, labor, or other work of any kind done or to be done upon, or in connection with, said work other than above stated. SIGNATURE PRINT NAME & TITLE DATE **NOTARY'S SIGNATURE**

Subscribed and sworn to before me this ____ day of, _____ 200__.



City of Troy Oakland County, Michigan Contractor's Declaration

I hereby declare t	hat I have not	during the	period		to
or delay for any rea which I shall ask, der City, and in the Cha hereby make claim statement attached h	son, including s mand, sue for, or nge Orders for v for additional c	oil conditions claim comper vork issued by	nsation from the City in writing	eated or otherwise executed betw as provided there	e done anything for ween myself and the under, except as
There ar	itemized statem	ent attached.			
Date:					
Contractor:					
Ву:					
Title:					



City of Troy OAKLAND COUNTY, MICHIGAN Final Waiver of Lien

FILE NUMBER:	LOAN NUMBER:		
TO WHOM IT MAY CONCERN:			
Whereas, the undersigned has been em	ployed by:(Construction	Company)	
To furnish	for the pre	emises known as	
Which are owned by the City of Troy, Oa	ıkland County, and Michigan.		
The undersigned, for and in consother good and valuable considerations waive and release any and all lien or crelating to mechanic's liens on the abomoneys or other considerations due or material, fixtures or apparatus heretofor the undersigned for the above described	s, the receipt whereof is here claim or right of lien under the eve described premises and i to become due from the own re furnished or which may be	eby acknowledged, do e e statutes of the State of improvements thereon, er, on account of labor	(es) hereby of Michigan and on the or services,
Given under	hand and seal this	day of, 2	00
Seal			

Note: All waivers must be for the full amount paid. If waiver is for a corporation, corporate name should be used, and title of officer signing waiver should be set forth; if waiver is for a partnership, the partnership name should be used. Partner should sign and designate himself as partner.

PUBLIC ACT 57

STATE OF MICHIGAN 89th LEGISLATURE

REGULAR SESSION OF 1998

Introduced by Resp. Middaugh, Alley, Brackenridge, Olshove, Dobronski, Griffin, Gernaat, Walberg, Rhead, Richner, Kukuk, Callahan, Murphy, Thomas, Leland, Profit, Palamara, Wetters, McNutt, Varga, Gagliardi, Gustafson, Kilpatrick, Sikkema, Schermesser, Birkholz, Bodern, Dobb, Raczkowski and Perricone.

ENROLLED HOUSE BILL NO. 5607

AN ACT to require contractors to provide certain notices to governmental entities concerning improvements on real property; to allow for the modifications of contracts for improvement to real property; to provide for remedies; and to repeal acts and parts of acts.

The People of the State of Michigan enact:

Sec. 1. As used in this act:

- (a) "Contractor" means a person who contracts with a governmental entity to improve real property or perform or manage construction services. Contractor does not include a person licensed under Article 20 of the Occupational Code, 1980 PA 299, MCL 339.2001 to 339.2014.
- (b) "Governmental Entity" means the state, a county, city, township, village, public educational institution, or any political subdivision thereof.
- (c) "Improve" means to build, alter, repair, or demolish an improvement upon, connected with, or beneath the surface of any real property, to excavate, clear, grade, fill, or landscape any real property, to construct driveways and roadways, or to perform labor upon improvements.
- (d) "Improvement" includes, but is not limited to, all or any part of any building, structure, erection, alteration, demolition, excavation, clearing, grading, filling, landscaping, trees, shrubbery, driveways, and roadways on real property.
- (e) "Person" means an individual, corporations, partnership, association, governmental entity, or any other legal entity.
- (f) "Real Property" means the real estate that is improved, including, but not limited to, lands, leaseholds, tenements, hereditaments, and improvements placed on the real property.

- Sec. 2. A contract between a contractor and a governmental entity for an improvement that exceeds \$75,000.00 shall contain all the following provisions:
 - That if a contractor discovers 1 or both of the following physical conditions of the surface or subsurface at the improvement site, before disturbing the physical condition, the contractor shall promptly notify the governmental entity of the physical condition in writing.
- (i) A subsurface or latent physical condition at the site is differing materially form those indicated in the improvement contract.
- (ii) An unknown physical condition at the site is of an unusual nature differing materially from those ordinarily encountered and generally recognized as inhering in work of the character provided for in the improvement contract.
 - (b) That if the governmental entity receives a notice under subdivision (a), the governmental entity shall promptly investigate the physical condition.
 - (c) That if the governmental entity determines that the physical conditions do materially differ and will cause an increase or decrease in costs or additional time needed to perform the contract, the governmental entity's determination shall be made in writing and an equitable adjustment shall be made and the contract modified in writing accordingly.
 - (d) That the contractor cannot make a claim for additional costs or time because of a physical condition unless the contractor has complied with the notice requirements of subdivision (a). The governmental entity may extend the time required for notice under subdivision (a).
 - (e) That the contractor cannot make a claim for an adjustment under the contract after the contractor has received the final payment under the contract.

Sec. 3.

- (1) If the contractor does not agree with the governmental entity's determination, with the governmental entity's consent the contractor may complete performance on the contract.
- (2) At the option of the governmental entity, the contractor and the governmental entity shall arbitrate the contractor's entitlement to recover the actual increase in contract time and costs incurred because of the physical condition of the improvement site. The arbitration shall be conducted in accordance with the rules of the American Arbitration Association and judgment rendered may be entered in any court having jurisdiction.
- Sec. 4. If an improvement contract does not contain the provisions required under Section 2, the provisions shall be incorporated into and considered part of the improvement contract.
- Sec. 5. This Act does not limit the rights or remedies otherwise available to a contractor or the governmental entity under any other law or statue.
- Sec. 6. This Act is repealed effective December 31, 2001.

Enacting Section 1. This Act takes effect 180 days after the date this Act is enacted.

This Act is ordered to take immediate effect.

(Signed by John Engler, Governor of Michigan, at 3:00 p.m. on April 8, 1998)

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STATEMENT OF NO BID CITY OF TROY

BID NUMBER: ITB-COT 09-09

TITLE: UV Chloramine Destruct and Disinfection System

Please Send or Fax To:

City of Troy Purchasing Department 500 W. Big Beaver Rd. Troy, MI 48084

FAX NUMBER: (248) 619-7608

We, the undersigned, have declined to bid on the subject bid for the following reasons:

Check All	REASON			
That Apply				
	Our company does not handle the type of product / service			
	We cannot meet the specifications nor provide an approved alternate – please explain below			
	Our company is not interested in bidding at this time			
	Job is too small			
	Job is too large			
	Cannot be competitive			
	Liability Issues such as insurance, bonding, indemnification, hold harmless			
	Insufficient time to respond – please explain below			
	Our company's schedule would not permit performance of the specifications			
	Other – describe below			

REMARKS:		 -
COMPANY INFORMATION COMPANY NAME: SIGNATURE OF AUTHOR TITLE:	N: EIZED COMPANY REPRESENTATIVE:	
COMPANY: ADDRESS:		
FAX NUMBER:	TELEPHONE NUMBER:	

IMPORTANT NOTE: To qualify as a respondent to the bid, the vendor must submit a bid or complete this form.

VENDOR REGISTRATION: The City of Troy uses the MITN website for vendor registration, bid and tabulation posting, and award information and other processes. Final bid results will be posted on the MITN website after award. Please register to see results - www.mitn.info.