CITY OF COLUMBUS – BID WAIVER INFORMATION FORM TO ACCOMPANY LEGISLATION WHICH WAIVES ANY PROVISIONS OF COLUMBUS CITY CODES CHAPTER 329 (PLEASE LIMIT YOUR RESPONSE TO THIS SHEET)

- 1. In accordance with section 329.27 of the Columbus City Code, City Council may determine that the City's best interest is served by waiving the City Code Formal Bid procedures for the following reason(s): (Note that these reasons are all based on time. Currently, formal bid average completion is 133 calendar days.)
 - [] An unanticipated breakdown created an unplanned, emergency need.
 - [] The item to be purchased is of a perishable nature, the price or availability will perish before the formal bid process can be completed.
 - [] Need to extend an existing contract for one year or more where no provision for extension was included in the original bid/contract.
 - [] Need to increase a contract for additional supplies/services, although the original contract obligations have been fulfilled.

[X] Other: The Division of Water maintains a computer simulation of the water distribution system to predict future needs and plan the facilities required to meet those needs. The Division is currently working on projections for the year 2010, 2015 and 2020.

Until just recently the sizing and construction schedule for new mains, booster stations, water towers, etc. was based on simulation runs where a few different possibilities were selected based on past practices, experience and engineering judgment. A final design was reached that represented a 'best guess' solution.

The development of a genetic algorithm program that interfaces with the hydraulics model now allows for thousands of simulations that numerically analysis the different possibilities and combinations thereof. The final design then will be the solution that satisfies all of the parameter requirements at the least cost. i.e., only the fittest solution survives.

This unique service is only available through Optimatics LLC, the company marketing the genetic algorithm program. In that we are looking at future facilities costing in the neighborhood of 50 million dollars it is anticipated that the \$50,000.00 cost of this service will be recovered many times over.

The proposal was submitted at per hour rates plus multiplier with hours required per task stipulated. Cost not to exceed \$50,000.00. These rates compare very favorably with rates being paid to other consultants currently under contract.

1.

2.	Informal bid procedure used:	[] Yes	[X] No	Explain:
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3. Informal bids received and prices for each: NA

4. If lowest bid was not accepted, explain: NA

Approval Signature:

bid waiver form