

Information to be included in all Legislation authorizing entering into a Contract:

1. **The names, contract compliance no. & expiration date, location by City/State and status of all companies (NPO, MAJ, MBE, FBE, HL1, AS1, or MBR) submitting a competitive bid or submitting an RFP or RFSQ.**

<u>Name</u>	<u>C.C. No./Exp. Date</u>	<u>City/State</u>	<u>Status</u>
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2. **What type of bidding process was used (ITB, RFP, RFSQ, Competitive Bid).**
3. **List the ranking and order of all bidders.**
4. **Complete address, contact name and phone number for the successful bidder only.**
5. **A full description of all work to be performed including a full description of work to be performed during any known phasing of the contract.**
6. **A narrative timeline for the contract including a beginning date, beginning and ending dates for known phases of the contract and a projected ending date.**
7. **A narrative discussing the economic impact or economic advantages of the project; community outreach or input in the development of the project; and any environmental factors or advantages of the project.**
8. **An estimate of the full cost of the Contract including a separate estimate of any and all phases or proposed future contract modifications.**
9. **Sub-Consultants identified to work on this contract, their contract compliance no. & expiration date, and their status (NPO, MAJ, MBE, FBE, HL1, AS1, or MBR):**

<u>Name</u>	<u>C.C. No./Exp. Date</u>	<u>Status</u>
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10. **Scope of work for each subcontractor and their estimate of dollar value to be paid.**

Information to be included in all Legislation Modifying a Contract:

1. **The names, contract compliance no. & expiration date, location by City/State and status of all companies (NPO, MAJ, MBE, FBE, HL1, AS1, or MBR) submitting a competitive bid or submitting an RFP or RFSQ.**

<u>Name</u>	<u>C.C. No./Exp. Date</u>	<u>City/State</u>	<u>Status</u>
AECOM	952661922/10-11-14	Columbus/Oh	Majority
DLZ Corp.	311268980/2-28-15	Columbus/Oh	MBR
Malcolm Pirnie (Arcadis-US)	570373224/8-25-13	Columbus/Oh	Majority

2. **What type of bidding process was used (ITB, RFP, RFSQ, Competitive Bid).**

A modified RFP process was used. This was deemed warranted due to the specialized nature of the project and the strict pre-qualifications included in the request.

3. **List the ranking and order of all bidders.**

1) AECOM 2) Malcolm Pirnie (Arcadis) 3) DLZ

4. **The name, address, contact name, phone number and contract number of the firm awarded the original contract.**

<i>AECOM</i>	<i>Eric Onderak, P.E. (Project Manager)</i>
<i>300 East Broad Street, Suite 300,</i>	<i>(614) 429-5100</i>
<i>Columbus, Ohio, 43215</i>	<i>Eric.Onderak@aecom.com</i>

5. **A description of work performed to date as part of the contract and a full description of work to be performed during any future phasing of the contract.**

The City of Columbus, Division of Sewerage and Drainage (DOSD) maintains and operates components of the West Columbus Local Protection Project (WCLPP – a.k.a “the Franklinton Floodwall”). The WCLPP centerline of protection is comprised of levee embankment and floodwall sections along with other components like a flow control structure in Rhodes Park with an associated upstream McKinley Avenue emergency overflow structure, several pump stations, gate wells, and both stop log and sandbag gate closures.

Current DOSD operations during Scioto River flood events include: pump station start-up, roller gate closure, stop log gate closures, gate well closures and sandbag gate closures and are based on a flood forecast of Scioto River stage at the Frank Road USGS stream gauge. All of these operations are predicated upon actual and predicted flood elevations.

Currently, the City relies upon the United States National Oceanic and Atmospheric Administration (NOAA), National Weather Service (NWS), Advanced Hydrologic Prediction Service (AHPS) for these predictions. Unfortunately, this service has consistently provided unreliable information in the past. As a consequence, the City sought to fully investigate the accuracy, precision, and reliability of every aspect of its current methodology in receiving and employing real time rain data and associated flood forecast information; including augmenting and refining all rain and stream gauging along with augmenting,

refining, and/or replacing the NWS AHPS modeling and weather prediction services with our own.

The ENGINEER completed his evaluation of all applicable services, methods and operations. And recommended several augmentations and/or replacements to many parts of the process. DOSD has chosen to accept those recommendations which generally are to: 1) Augment current rain gauge and stream monitoring equipment and networks, repairing existing rain and stream gauges and increasing the density of these networks for more accurate information; 2) Build a new, more detailed and accurate Hydrologic Engineering Centers River Analysis System (HEC-RAS) model, calibrate this model with the newer, more densely populated data; and aid in the installation and use of that new model by the NWS; and 3) Establish new Memorandums of Understanding (MOUs) with the NWS, Ohio State Department of Public Safety (ODPS) and the United States Geographic Survey (USGS) for use of this new model; the installation of new equipment and upgrade the existing maintenance and operations of monitoring networks and to upgrade the existing NWS warning procedures on the Scioto River.

For funding purposes, this was originally recognized as a two-part project; the first part, now completed, was to investigate, evaluate, and recommend augmentations to all aspects of the data gathering and flood elevation predictions. The second part, now requesting funding, shall implement the chosen recommendations.

The scope of work for the Division of Water includes evaluating the operations of the level gate for the Hoover Reservoir. Using primarily existing hydraulic and hydrologic models the project will thoroughly evaluate DOW's current operating standards and recommend revisions if appropriate. In so doing, the range of impacts level gate operations have on downstream water levels associated with extreme weather events will be determined. This work will be incorporated in two phases; the first phase will be funded by the current agreement. If the City opts to perform the second phase of work it will be funded by a future contract modification.

6. An updated contract timeline to contract completion.

The Project task end dates are as follows and includes all City reviews and approvals. See the above description for more detail on Part delineations:

<i>Proposals out.....</i>	<i>10-11-10 (Actual)</i>
<i>Proposals received</i>	<i>11-12-10 (Actual)</i>
<i>Contract Initiation (NTP).....</i>	<i>8-17-11 (8-26-11 – Actual)</i>
<i>Part 1 (Current Ops evaluated).....</i>	<i>4-22-12 (8-30-13)</i>
<i>Part 2 (Augmentation Implementation).....</i>	<i>2/1/14</i>
<i>End.....</i>	<i>2/1/16</i>

7. A narrative discussing the economic impact or economic advantages of the project; community outreach or input in the development of the project; and any environmental factors or advantages of the project.

This project enabled local and national experts to assess national and local flood warning prediction processes in the operations of the Franklinton Floodwall. Augmented City procedures and actions in respect to the Floodwall operations are recommended. Such augmented procedures shall affect a savings in the amount of man-power needed to operate the Floodwall, minimize actual flood damage, and decrease the risk of such occurrences. The model, rainfall, river stage, and model-related data will be available for many other applications as well, such as real time control of sanitary collection systems

and plant operations and evaluation of development impacts along the river. Such applications could optimize systems operations and lower overflows from the collection system and plants and more accurately estimate impacts of filling or excavating in the flood plain or dam removals.

8. A description of any and all modifications to date including the amounts of each modification and the Contract Number associated with any modification to date. (List each modification separately.)

No modifications to date.

9. A full description of the work to be performed as part of the proposed contract modification. (Indicating the work to be a logical extension of the contract is not sufficient explanation.)

As noted above, this Project was always to be funded in at least two phases or Parts. Part 1, included all tasks required to make a thorough evaluation of current processes and recommend the most effective means of increasing the City's confidence in flood forecasting.

The chosen recommendations include the expanding and repairing of current stream and rainfall gauging networks, upgrading maintenance operations of both of those networks; and augmenting NWS flood forecasting models. Some of this Part 2 work will be performed by Sewer Maintenance Operations Center (SMOC) and Sewer Systems Engineering Section (SSES) staffs, as repair of existing and construction of new rain gauges and the completing MOU negotiations are sole responsibility of the City and its agents. The cost of this phase is estimated as follows:

Part 2 (Implementation).....\$872,281.00

The scope of work for the Division of Water includes evaluating the operations of the level gate for the Hoover Reservoir, to be incorporated in two phases; the first phase will be funded by the current agreement. If the City opts to perform the second phase of work it will be funded by a future contract modification.

Hoover Reservoir (Evaluation).....\$90,992.00

10. If the contract modification was not anticipated and explained in the original contract legislation a full explanation as to the reasons the work could not have been anticipated is required. (Changed or field conditions is not sufficient explanation. Describe in full the changed conditions that require modification of the contract scope and amount.)

This modification was always envisioned and clearly described in the original legislation request.

11. An explanation of why the work to be performed as part of the contract modification cannot be bid out. (Indicating the work to be a logical extension of the contract is not sufficient explanation.)

This consultant is an expert in the particular work to be performed and has highly specialized knowledge of the specific work. Such qualities provide the City with an economic advantage in modifying the contract rather than initiating another modified RFP. Estimates of the costs to perform this phase of the work were received as a part of the original RFP. Thus, we have anecdotal evidence that this is the most cost effective way to proceed. This consultant was among the lowest proposals in this particular phase as well.

12. A cost summary to include the original contract amount, the cost of each modification

to date (list each modification separately), the cost of the modification being requested in the legislation, the estimated cost of any future known modifications and a total estimate of the contract cost.

Part 1 (Current Operations evaluated)..... \$271,210.00 (Original Contract)
Part 2 (Implementation).....\$963,273.00 (Current Mod)
Total..... \$1,234,483.00

A future modification may be requested if the Division of Water opts to perform Phase 2 services for the Hoover Reservoir evaluation estimated at a cost of \$200,000.00.

13. An explanation of how the cost of the modification was determined.

A thorough Task-hour/cost breakdown was provided for the Sewerage and Drainage part/phase of the project in the original RFP submission. This breakdown was more thoroughly investigated for this modification.

The Division of Water received a quote from AECOM Technical Services and was deemed acceptable by Water Technical Support staff.

14. Sub-Consultants identified to work on this contract, their contract compliance no. & expiration date, and their status (NPO, MAJ, MBE, FBE, HL1, AS1, or MBR):

<u>Name</u>	<u>C.C. No./Exp. Date</u>	<u>Status</u>
<i>EMH&T</i>	<i>310685594/9-22-13</i>	<i>Majority</i>

15. Scope of work for each subcontractor and their estimate of dollar value to be paid.

<u>Name</u>	<u>Project Role</u>	<u>Contract Value</u>
<i>EMH&T</i>	<i>Modeling and Data Acquisition</i>	<i>\$245,100</i>