



TETRA TECH

April 14, 2016

Vernon Azevedo, PE
Division of Water Quality
125 Lisle Industrial Avenue, Suite 180
Lexington, Kentucky 40511

*Re: Wolf Run Wet Weather Storage Facility
Lexington-Fayette Urban County Government*

Dear Mr. Azevedo:

Tetra Tech has reviewed the attached change order proposed by Judy Construction Company (Judy). Following is a description of the change order items and our recommendation for each item. Documentation and breakdowns of the change order requests are attached.

Item 1-1

Judy has provided a credit of **\$11,486.00** to LFUCG for the DGA that was removed from the Contract Documents as backfill around the wet well. The wet well is to be backfilled with lean concrete, due to the wet site conditions that have been encountered during construction. Based on Tetra Tech's estimates, this equates to approximately **\$29.68** per ton for DGA. Tetra Tech recommends LFUCG approve this portion of the change order, as DGA will no longer be used as a backfill around the wet well.

Item 1-2

Judy has provided a lump sum cost of **\$3,600.00** dollars for the Tank Conduit Lighting. The cost is for rerouting the electrical conduit to allow for the tank lighting.

Item 1-3

Judy has provided a lump sum cost of **\$148,328.00** for the additional 42-inch and 30-inch piping requested by LFUCG. The lump sum cost equates to approximately \$534.00 per linear foot of 30-inch pipe, and \$668.29 per linear foot of 42-inch pipe, this price per linear foot includes all labor, manholes, bypass pumping and other incidentals. Tetra Tech requested that Judy provide a price for FRP piping, PVC, and Ductile Iron. The price of \$148,328.00 is for the installation of FRP. PVC and ductile iron increase the lump sum cost \$17,819.00 and \$32,035.00 respectively. The additional piping is required as part of the Remedial Measure Program project WR Trunk B. LFUCG requested Judy to provide a price for the additional piping at this time to avoid disturbing the Wolf Run Wet Weather Storage Facility site with future projects. Tetra Tech recommends LFUCG approve this portion of the work, at the price given for FRP to avoid disturbing a recently finished project with future construction. The material cost for the additional piping, manholes, erosion control, pipe bedding, etc. is \$67,460.00. This material cost includes a credit to LFUCG of \$12,637.00 for the 6 foot diameter manhole and the 50 linear feet of 42-inch ductile iron pipe included in the original contract documents (\$4,200 for the 6' diameter manhole and \$168.74 per linear foot of 42-inch piping.). The lump sum price submitted by Judy also includes \$38,694.00 in labor cost, \$19,924.00 in subcontracting cost and \$22,250.00 in overhead and profit. The subcontract costs include the cost of bypass pumping, temporary fencing, seeding and manhole coring. The overhead and profit is at the Contract Document approved fifteen percent (15%).

Tetra Tech, Inc.

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Item 1-4

Judy has provided a lump sum cost of **\$42,321.00** for the architectural improvements to the original contract documents that were requested by the residents in the surrounding neighborhood. The project sits within the Cardinal Valley neighborhood. Area residents requested changes including modifications to the proposed landscaping, installation of a faux wrought iron fence in lieu of the proposed chain link fence, only for the visible portion of the proposed fence, and installing stone columns and an architectural gate in lieu of the proposed chain link gate. Per Judy, the additional faux wrought iron fence has a lump sum cost of **\$29,062.00**, the modified landscaping will cost **\$4,120.00** and the stone columns will cost approximately **\$4,998**. Judy provided a credit of **\$8,363.00** for the material cost of the chain link fence included in the original contract documents, which is approximately **\$61.50** per linear foot of fence base on 136 linear feet of fence. The material cost for the new faux wrought iron fence is **\$37,425.00**, approximately **\$275.20** per linear foot. Tetra Tech recommends LFUCG approve this portion of the change order, as it was requested by Council Member Henson to approve the aesthetics of the tank for the surrounding neighborhood.

The total estimated cost of the change order is **\$182,763.00.00**. Please see the attached Change Order No. 3 provided for a unit price and quantity breakdown. The approved contract amount with this change order will be **\$5,587,359.00**.

Please call myself, or Laura LeMaster, at 859-223-8000 if you have any questions or need additional information.

Sincerely,

Herbert R. Lemaster, P.E.
Herb.lemaster@tetratech.com

cc: Laura LeMaster, Tt

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