

Memo

To: City Council
From: Amy E. Gilson, P.E., Director of Public Works
Date: June 6, 2017
Re: Grit Removal Project Change Order #2



In accordance with Section 2-182 of the City Ordinances, this memo is to advise you of the approval of certain changes to the grit removal project to ensure the project is not delayed which would incur additional fees for the idling of the contractor.

1. Install two grit bridge cross supports: In order for the grit drive unit to span between the two primary supports and fasten properly for operation, two cross support beams were provided, properly coated to protect against corrosion, and installed using bolted flange connections by the contractor. This item was required for proper unit installation and was not included in the original scope of bid. The cost to include the cross supports was \$2,494.00.
2. Effluent channel wall replacement: When the grit channels were drained, it was discovered that the support wall between the grit chamber and the effluent channel, originally designed for rehabilitation, was deteriorated beyond repair. The removal and replacement of the 8 ft. by 4 ft. section of the wall was an increase of \$731.00 once balanced with the cost of rehabilitation included in the bid.
3. Grit effluent bypass drain: When the grit channels were drained, a bypass pipe leading into the adjacent equalization tank was discovered intact. This pipe was to be demolished and sealed during a previous contract (1980's) and never performed. Leaving it in place risked catastrophic failure considering the heavily deteriorated condition of the pipe gate remaining in place. Unchecked flow into the equalization tank would require a complete plant shutdown and very high cost to fix in an emergency situation. The cost to permanently seal the pipe and grout over the opening was \$3,024.00.
4. Fiberglass Reinforced Plastic (FRP) double doors: During the design process, the set of double doors to the grit washer area were selected and approved as "barn-style" sliders in order to allow for the full opening area of the doorway to be utilized when loading and unloading the dumpster located within the room. Upon Contractor inspection once on site, it was quickly discovered that the seal would be inadequate against the face of the building, and the support hardware channel along the threshold of the door would not allow for the dumpster to be rolled over it

without difficulty and likely severe damage. It was determined that the best course of action to provide the best product would be to change the doors to FRP flush-mounted swinging double doors. The cost to make this change is \$5,261.

Change Order #2 is a net increase of \$11,510.00 (2.2% contract increase). Change Order #2 is expected to be the final change to the contract bringing the final completed project amount to \$547,236.00 (3.3% over original bid amount). For reference, a project of this size typically would carry a contingency amount at or above 5% for these types of changes.

Please let me know if you have any questions.

cc: Gregg Guetschow, City Manager

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