

July 7, 1976

**Subject: Monitoring Report #1**

**Sludge Thickener Facility**

**Detroit Water Board**

**A. Z. Shmina & Sons - contractor**

**Project: 75:80**

**Date of Monitoring: June 17, 1976 (working day 119)**

**Date of notice to proceed: April 14, 1976 (working day 74)**

**Actions taken:**

- Monitored current project status
- Reviewed and updated pipe gallery construction network
- Prepared control building and stairway close-in networks

**General Summary**

As of June 17, 1976 (working day 119) all tank mass excavation is complete, with sheeting and piles driven at tanks 12, 10, 11 and 14. Sheeting and pile work is in progress at tank 13 but has not yet started at tank #9. At tank 12 (T12) work on the third stage base slab ring will be complete about June 21, 1976 (working day 121). This should free that structure up for start of tank walls. At tank 10 (T10) work is in progress on excavating, installing and backfilling sludge piping for the third stage. This is expected to be installed by the evening of June 18, 1976 (working day 121). Completion of the third stage base slab ring will then proceed, followed by tank 10 walls.

At tanks 14 and 11 (T14 and T11) base pour #1 has been made and mass excavation for the base ring will start on T14 June 21, 1976 (working day 121).

As noted above, sheeting and piles are presently in work for tank 13 (T13).

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Most major work presently is meeting targets between early and late starts and finishes. Tank walls at T12 were due to begin at an early start of June 10, 1976 (working day 114). They probably will start by June 21, 1976 (working day 121) so could be considered to lag the early start by 7 working days. Work at tank 10 (T10) lags also by 5 to 7 working days over early starts and early finishes, while work at tanks T14 and T11 is slightly ahead of early starts. It is expected that the slight lags presently being experienced will be made up in the near future. They are currently not having a major impact upon the work.

As part of our planning, we completed diagramming construction of the pipe gallery on up through overall close-in of the structure. This work is shown on sheet 8, Issue P6 dated June 17, 1976.

The network diagram considers the pipe gallery is divided into three major sections generally defined by joints. In it we have shown the mud mat, the slab on grade, pipe gallery walls, supported deck and backfilling. Presently it is the intent to leave out the south wall at the pipe gallery in section 3 for general access to the interior of the gallery. Precast trough erection is expected to be able to start about September 30, 1976 (working day 192). Erection will proceed on through to completion, followed by start of construction on the supported decks.

So far as fabrication of precast is concerned, approval of shop drawings is presently in process. There is some additional technical information that must be submitted to the City of Detroit but this is expected to be provided in the near future. Fabrication of precast is expected to proceed using two sets of forms and probably will require about 40 working days from its start. This should provide adequate production to meet the current erection schedule. Most other critical delivery items have been brought to the site with many of them already installed.

We also did a brief summary plan on the control building. This work is expected to be able to start on or about December 1, 1976 (working day 235). It should be noted that a check on whether mechanical and electrical equipment at the control building will fit doors and openings should be made before totally closing in the building. This will be done immediately.

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**At our next session we should prepare a comprehensive checklist to identify all potentially difficult delivery items and list these. I shall be in touch with Mr. Shmina soon to set the date of the next session.**

**Ralph J. Stephenson, P.E.**

**RJS  
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**To: Mr. Robert Shmina  
(Orig. & 1 copy)**