December 6, 1965

Mr. J. W. Goldenberg (2)
331 N. 8th Street
E. St. Louis, Illinois

SUBJECT: Comments on Specifications for Dead Creek Interceptor Sewer

Dear Mr. Goldenberg:

Our Engineering Dept. has reviewed the drawings and specifications of the subject sewer and pumping station as prepared by Horner and Shifrin. The design looks good generally. There are several small items, however, which we believe should be re-examined. They are:

(1) Corrosion at Junction Chamber - The concrete and steel bar screen may suffer severe attack if exposed to acidic wastes for a considerable period. We suggest that the concrete be coated with asphalt or other protective material and that the bar screens either be made of #316 stainless steel or be mounted (as in a channel in the concrete) so as to be easily replaced.

(2) Hydraulics at Junction Chamber - minimum head loss when wastes are flowing south into Dead Creek is desirable. As designed the chamber will force the water to turn 90° to flow out through the bar screens. Will head loss be appreciable and, if so, can it be reduced by placing the bar screen at the south end of the structure so that the turn is avoided?

(3) Stability of Junction Chamber - will the junction chamber be subject to frost heave? Also - in event of settlement, will the weight of the chamber be supported by the pipes? The same concern exists in relation to attachment of the pipes to the pumping station - it appears that the pipes can be easily broken by settlement of the pump station.

(4) 21" Overflow Line - This line is laid flat and at such an elevation that some liquids will tend to be trapped. We suggest that consideration be given to raising this line

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(4) slightly and giving it a little pitch so that it will normally be dry.

(5) Two small typographical points -

(a) On page II-17 of the specs, "20-inch" VCP is referred to - should read "21-inch".

(b) On page I-13, last sentence shows head range as "6 feet minimum to 16 feet maximum". We believe minimum level should be about 9 feet.

We assume that Cerro is examining the project to assure that it will relieve all of their flooding problems.

Very truly yours,

Paul B. Hodges

/gs

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