HORNER & SHIFRIN

CONSULTING ENGINEERS

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CHESTNUT 1-1570

W. W. HORNER 1958
H. SHIFRIN 1955

E. E. BLOSS
V. C. LISCHER

ASSOCIATES
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G. K. HASEGAWA
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V. A. SILBER
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November 10, 1965

Mr. Joseph W. Goldenberg
Joseph W Goldenberg & Associates
Post Office Box 430
East St. Louis, Illinois

Dear Joe:

This is to confirm our previous telephone conversations with regard to the point of discharge for the new Dead Creek pumping station force main we are designing for the Village of Monsanto.

Paul Hodges of the Monsanto Company has indicated that Monsanto Company is very desirous that the force main discharge into the 36-inch overflow sewer south of the Alton & Southern Railroad tracks rather than north of the tracks as originally contemplated. Monsanto Company's interests can readily be accommodated by constructing a junction structure at the south end of the 36-inch overflow line and discharging the force main into this junction structure. In order to allow an overflow from the 36-inch line into Dead Creek during periods of storm runoff and yet direct the dry weather flow from the pumping station into the 36-inch line without overflowing into Dead Creek will require a careful hydraulic design of the junction structure.

Paul stated that by doing some cleaning of the 24-inch sewer north of the Alton & Southern tracks, the hydraulic gradient in the 24-inch sewer can be kept below the invert elevation of the 36-inch overflow sewer to Dead Creek during dry weather. It is on this basis that we are designing the junction structure.

PAUL HODGES DEPOSITION
May 31 - June 1, 1994
EXHIBIT NO. 14

C00030
RENUM 004042

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It should be pointed out that on November 8th it was observed that the hydraulic gradient in the 24-inch sewer was approximately 2 feet above the invert of the 36-inch sewer. If the cleaning of the 24-inch sewer does not lower the hydraulic gradient as much as anticipated, it will be necessary to change the hydraulic design of the junction structure. The structure will be designed so that this change can be readily accomplished by merely adding some bricks to an overflow weir. However, the change would affect the hydraulic grade at which the 24-inch could overflow to Dead Creek. This overflow gradient is very important to Monsanto Company, but must be controlled by the hydraulic gradient required to provide sewer capacity without overflow into Dead Creek during dry weather.

If you have any comments on the above design procedures, please advise us. A copy of this letter is being sent to Paul Hodges for his information and any comments he might have.

Very truly yours,

Geo. M. Sallwasser

GMS:kt
CC:
Mr. Paul Hodges
Monsanto Company
Monsanto, Illinois

RENUM 004043

WATER_PCB-SD0000005499