

## **001-60J13**

### **Maximum Rate Flows and Stationing of Sanitary Sewer Lines**

Based on the sanitary sewer information from the original project files and MWRD and BLA information on flows in the pipes; here are the calculated the potential max flows from upstream of where relocations begin for the Northbrook sewers.

The max flow rate of the Lee Road sanitary sewer south of the Dempster intersection is calculated to be 1.7 cfs (at 90% full) (Northbrook) The max flow rate of the Dundee Road sanitary sewer west of Lee Road is calculated to be 2.37 cfs (at 90% full along Lee Road) (Northbrook)

MWRD provided a maximum flow rate for its sewer.

The max flow for the Lee Road sanitary sewer at the manhole near 104+50 is calculated by MWRD to be 9.92 cfs (at capacity)

Flows in the existing sewers are calculated for the pipes flowing 90% full. In the event of a heavy rain storm it is possible that the pipes could carry a greater flow. Before starting the sanitary sewer work, the contractor should consult weather forecasts to avoid, as much as possible, forecasted heavy rain storms.

Also note: The stationing on the old sanitary plans if different from the IDOT bid plan stationing, but manhole locations can be approximated by relating to the Lee Road and Dundee Road stationing at the intersection.

Note: The sanitary sewer relocations should be completed after the Northbrook Watermain relocation is completed.