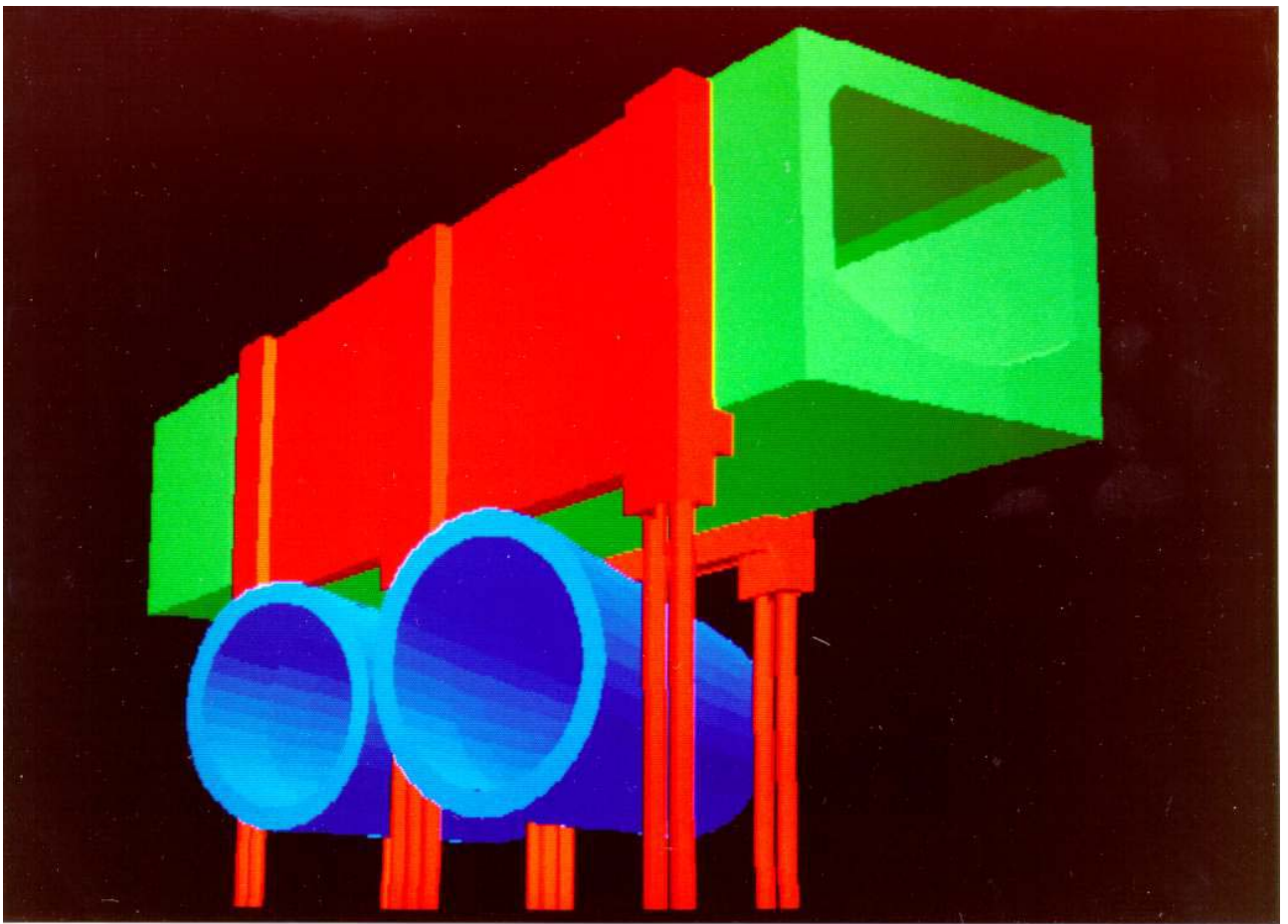


## Trout Brook Outlet – Phase B Joint Interceptor Crossing

The new 120-inch RCP (blue) Trout Brook Outlets for storm drainage cross below the existing Joint Interceptor Sewer (green). Support was provided by a pair of deep reinforced concrete beams supported upon 14 steel piles (orange). Each deep beam is 52 feet long, 16 feet deep and supports 1,500,000 pounds. CNA Consulting Engineers designed this structure, specified construction sequence and observed field conditions during construction.



Owner — City of St. Paul

Location — St. Paul, Minnesota

Date — 1988

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