

Como Avenue Storm Tunnel

CNA was retained by the City of Minneapolis to provide engineering services for the construction of the 12,000 foot Como tunnel. Initial plans called for the use of an existing tunnel as the start of the Como tunnel. Examination of this brick and stone lined tunnel indicated that it was not suitable for additional loading, requiring the selection of a new portal location.

Traditionally this tunnel would have been mined and supported with wood and steel supports until the final concrete lining was placed. Instead, this was the first tunnel in the St. Peter sandstone to utilize spraygrout, rockbolts and shotcrete for initial support.



This tunnel also utilized other innovative St. Peter sandstone tunneling techniques pioneered by CNA, including the use of hydraulic mining, spraygrouting and concrete joint sealant systems.

Owner — Sewer Construction Department, Public Works Department

Completion Date – 1979

Construction Cost \$10 million

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