

# Lake Ann Interceptor, Highway and Railroad Crossings Chanhassen, Minnesota

The Lake Ann Interceptor is a 20,800 linear foot sanitary sewer constructed in Chanhassen, MN in 1988. Construction of this system required tunnel crossings at five highways and one railroad. Pipe diameters at these crossings varied from 30 inches to 42 inches. Soil types at tunnel elevations varied from fill to glacial tills to alluvial soils.



Construction of five of the tunnel crossings was performed by jacking 48-inch steel casing for support. The other crossing was built by jacking 42-inch RCP. The tunnels were excavated using full diameter augers or by hand using air hammers.

CNA, the tunneling consultant, provided the following services:

- Tunneling specifications
- Geotechnical report including computer generated geologic sections
- Construction submittal review
- Construction monitoring

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**Owner — Metropolitan Council Environmental Services**

**Completion Date — 1988**

**Construction Cost — \$3.16 million**

**CNA**  
**Consulting**  
**Engineers**

2800 University Ave. SE  
Minneapolis, MN 55414  
Ph: (612) 379-8805  
Fax: (612) 379-8160  
E-mail: [bkn@cnaengineers.com](mailto:bkn@cnaengineers.com)