

Minneapolis/St. Paul LRT Station and Tunnels

The project involved design and construction services for 7400 ft of bored 21 foot diameter tunnel and a 540 foot long by 60 foot wide by 40 foot tall mined transit station under the Minneapolis International Airport. The tunnels were constructed in glacial soils, limestone, shale and sandstone. The station was in sandstone with a flat limestone roof at a depth of up to 65 feet below the ground surface. CNA provided the following services:

Design Phase

- Feasible Study
- Geotechnical Exploration Program, Data Report and Baseline Report
- Mined tunnel and cross passage tunnel initial and final support
- Mined station, initial support, final lining and waterproofing
- Tunnel and station instrumentation
- Tunnel portal structures

Construction Phase

- Construction observation and coordination
- Construction engineering and project administration



Owner — Metropolitan Airport Commission, Dennis Probst, 612-726-8128

Completion Date – 2004

Construction Cost \$110 million

CNA
Consulting
Engineers

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