

# OPPD SUBSTATION 3740

OMAHA PUBLIC POWER DISTRICT  
OMAHA, NEBRASKA  
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COMPLETION DATE: 2002  
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## PROJECT DESCRIPTION

ECI provided engineering for the Substation 3740 345 kV Switchyard. This switchyard ties the Cass County Gas Turbine Project to OPPD's transmission system. Ultimate build-out includes seven (7) 345 kV breaker-and-a-half bays, a 345-161 kV substation, four (4) 161 kV breaker-and-a-half bays and a 161-12 kV substation.

ECI's scope of work included complete physical and civil design for station ultimate layouts, bus design for over 40 kA fault current, structures, foundations, conduit, cable trench and grounding. Coordinated clearances and loadings for two (2) transmission line terminals and two (2) generator GSU ties.



**PLC Equipment**

## KEY FACTS & HIGHLIGHTS

- Ⓢ 345 kV RIGID BUS DESIGN
- Ⓢ 40 KA FAULT CURRENT
- Ⓢ 2000A CONTINUOUS CURRENT
- Ⓢ POWER LINE CARRIER



**Aerial View of Site**

◆ *Engineering With Distinction* ◆



Project Experience Resume