

EMPIRE WWTP OUTFALL & ROSEMOUNT INTERCEPTOR

Rosemount, Minnesota



included demolition, earthwork, structural excavation, backfill, aggregate base and yard pipe installation for the expansion of the wastewater treatment plant from 12 million gallons per day to 24 million. The scope of work included 500,000 cubic yards of earthwork, 37,000 tons of aggregate placement, and installation of over 63,000 linear feet of pipe.

The first, second and third phase of the pipeline portion of the project included the excavation and installation of a 15-mile outfall pipe carrying treated wastewater from the treatment plant to the Mississippi River. Excavation quantities exceeded 1,000,000 cubic yards of material with some depths reaching 40 feet. The scope of the pipe installation

The initial contract of this project

included approximately 120,000 linear feet of 66" to 78"-dia. concrete pipe (RCP), 48"-dia. steel pipe, 48"-dia. fiberglass pipe (CCF) and 18" to 24"-dia ductile iron pipe (DIP) as well as many concrete structures.

In the final phase of the project, Ames work included installation of a dual double-barrel forcemain, fittings, and gravity sanitary sewer needed for improvements to the Rosemount Interceptor. Also included: procurement, installation and testing of gravity outfall pipe, fittings and appurtenances, associated maintenance holes and other facilities by both open cut excavation and tunneling operations associated with transporting treated effluent from the Empire WWTP to the Mississippi River.



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Rosemount, Minnesota

Client Metropolitan Council - Environmental Services

Designer HDR Engineering, Inc.

Contractor Ames Construction, Inc.

Contract Value \$65,071,000

Start Date September 2003

Completion Date May 2007 (Substantially)

Ames Scope Details

Treatment Facilities Expansion

- 500,000 cubic yards of earthwork
- 37,000 tons of aggregate placement
- 53,000 linear feet of 4" to 64"-dia. DI pipe
- 10,000 linear feet of miscellaneous 1" to 3"-dia. pipe

Phase I

- 1 million+ cubic yards of earthwork
- 10,614 linear feet of 66"-dia. RC pipe
- 31,218 linear feet of 42" to 48"-dia. CCF pipe
- 20,508 linear feet of 48"-dia. steel pipe
- 350 linear feet of tunneling
- 1,730 cubic yards of structural concrete

Phase II

- 12,460 linear feet of 66"-dia. RC pipe
- 18,130 linear feet of 36" to 42"-dia. CCF pipe
- 12,882 linear feet of 18" to 24"-dia. DI pipe

Phase III

- 6,400 linear feet of 66" to 78"-dia. RC gravity outfall pipe
- 7,800 linear feet of 18" to 24"-dia DI pipe
- 5,175 linear feet of 54" to 78"-dia tunneling operations

Noteworthy Detail

Project was performed within an existing utility corridor, working around a busy technical college campus, and within the boundaries of the University of Minnesota's UMore Park, a unique living laboratory for instruction on topics in agriculture, horticulture and natural resources.