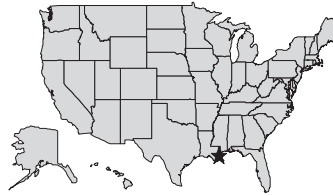

CCL Prepared CPM Schedule Analysis

Ames Pump Station

Jefferson Parish, Louisiana



CCL was retained by the legal counsel for River Road Construction, Inc. River Road was responsible for the excavation, site work, clearing, and piling as a subcontractor to Norflor for construction of the Ames Pump Station valued at \$6.2 million. The Ames Station pumps surface water in a canal system located in Jefferson Parish, Louisiana. The pump station consists

of two pumps rated at 0.5 million gallons per minute, 800 horsepower each, and one pump rated at 1 million gallons per minute, 1750 horsepower. The construction of the pump station consisted of building a bridge across a canal to gain access to the site, clearing and dewatering a swampy and heavily forested site, temporary levees, excavation, concrete, pipes and pumping, electrical substation, and a pump house building.

River Road had two subcontracts. The first subcontract for approximately \$800,000 was for dewatering the site, building the access bridge over the canal, and excavation. The second subcontract approximately \$500,000 was for driving piles for the pump station. There were approximately 1,600 timber and composite piles on the project. In August, 1984 when River Road was approximately 95% complete with the excavation, one side of the excavation collapsed. It took until November, 1984 to correct the collapse and proceed with driving piles and concrete foundation work.

Norflor filed a claim for delay related damages claiming the excavation collapse delayed project completion 117 days. River Road mitigated delays by immediately starting site work dewatering and excavation prior to the construction sequence outlined in the contract documents which required building the bridge before starting site dewatering and excavation. River Road also prosecuted the work using open cut excavation. This enabled them to significantly increase productivity over a more conservative approach using a cofferdam or open cut with sheet piles. Therefore, River Road believes even with the rework due to the excavation collapse their more aggressive approach on the job did not result in any unreasonable delays to Norflor beginning concrete work. In addition, River Road experienced numerous delays due to weather which was not considered in the contractor's analysis.

CCL performed critical path method schedule analysis showing the required time for three (3) excavation and piling approaches to the project. The net result was a settlement where River Road was not held responsible for any delay in the project completion date.



CCL Construction Consultants, Inc.

National & International Construction Consultants

Internet Address: <http://www.cclcon.com>

Email: cclcc@ix.netcom.com

