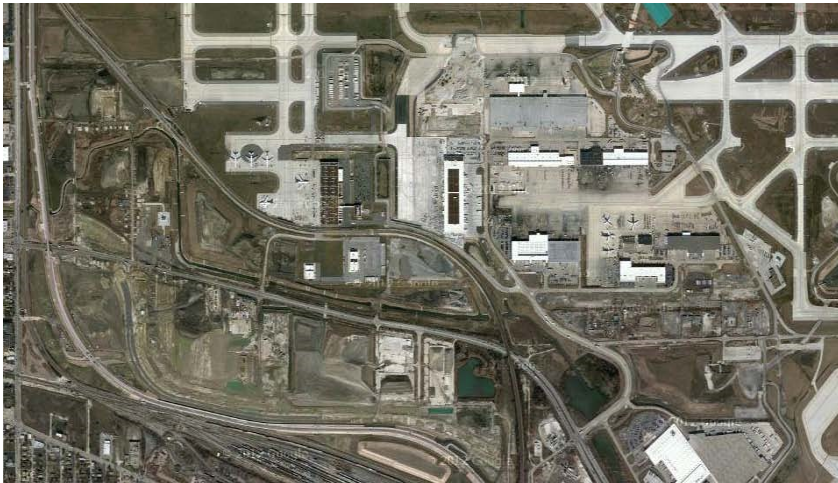


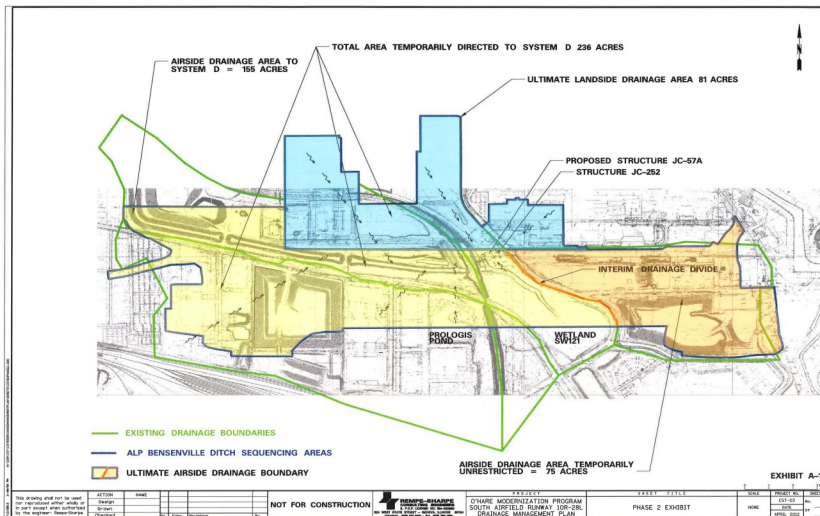
# CONSTRUCTION PHASE DRAINAGE MANAGEMENT-O'HARE INTERNATIONAL AIRPORT



O'Hare International Airport

**Client: Turner-Concrete Structures  
Lindahl Triventre (2013)**

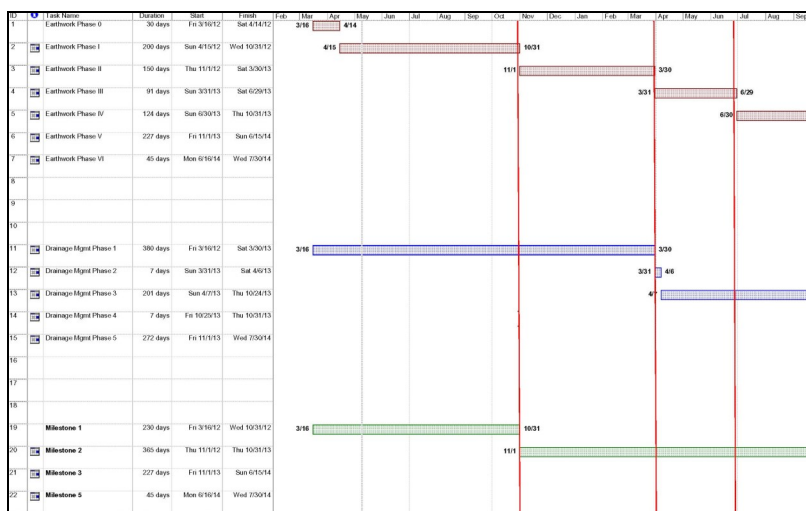
As part of the O'Hare Modernization Program, work began in spring 2012 to expand the facility by adding South Airfield Runway 10R-28L at a length of 7400 feet. It was necessary to move nearly 4-million cubic yards of earth, install thousands of lineal feet of large diameter storm sewer, and construct various supporting structures and pavement. During the 2.5 years anticipated to complete the project, storm water flows passing through the site must be efficiently managed to accommodate changing construction operations while protecting adjacent municipalities and airport operations.



Rempe-Sharpe determined the requisite sequence and extent of drainage improvement construction necessary to accommodate the changing watershed drainage boundaries, temporary diversions, and varying interim conditions. Included were considerations of logistic and regulatory constraints, hydrologic and hydraulic calculations and schematic design of temporary structures.

Given a compressed timeframe, Rempe-Sharpe was able to extract and evaluate the pertinent information from five sets of drawings (1000+ sheets) and prepare the initial draft of the report in less than two weeks with follow-up/final accepted document within two weeks following discussion of design review comments.

## Water Shed Divides 10R-28L Runway Extensions



Project Critical Path Schedule

Construction Cost : \$37 Million  
Completion Date: July, 2014

### REFERENCE:

Frank Aiello, P.E., S.E., President  
Concrete Structures, Inc.  
630.293.5775

