John James Audubon Bridge

Constructing the Cofferdam Structure

Frank Daams
Footing Cofferdam Structure

Piles and trestle are installed
Footing Cofferdam Structure

Piles and trestle are installed
Install Soffit Panels

Top View
Install Soffit Panels
Installed Soffit Panels
Install Bracing Frame

- Install first tier of brace frame
Erect Pre-Cast Wall

- Install pre-cast walls
- Connect to soffit panels and first tier brace frame
Install Precast Wall
Install Precast Wall
Install Precast Wall
Install Jacking System

• Install jacking system with permanent hangers
Cofferdam Structure Bracing
Install Jacking System

- Install jacking system with permanent hangers
- Lower structure to facilitate 2\textsuperscript{nd} & 3\textsuperscript{rd} tier bracing installation
Install Additional Brace Frames

- Install 2\textsuperscript{nd} and 3\textsuperscript{rd} tier brace frame.
Cofferdam Structure with Bracing
Install Follower Sheetings

- Install sheet pile
Lower Structure

- Lower structure to final elevation
- Lock off hangers
Lower Cofferdam Structure
Time Lapse of Cofferdam Lowering
Inside the Structure

JOHN JAMES AUDUBON BRIDGE DESIGN-BUILD PROJECT
Cofferdam Lowering
Pour Concrete Seal

- Install 8 foot concrete seal
Dewater Structure

- Install pump
- Remove water
Questions?