

Johnson Street Bridge Replacement Project

COMMUNITIES
TRANSPORTATION
BUILDINGS
INFRASTRUCTURE

April 10, 2014

Agenda

- Status of Design
- Highlights of the Development of the Final Design
- Project Life Cycle Considerations



Status of Design

Overview of Final Design



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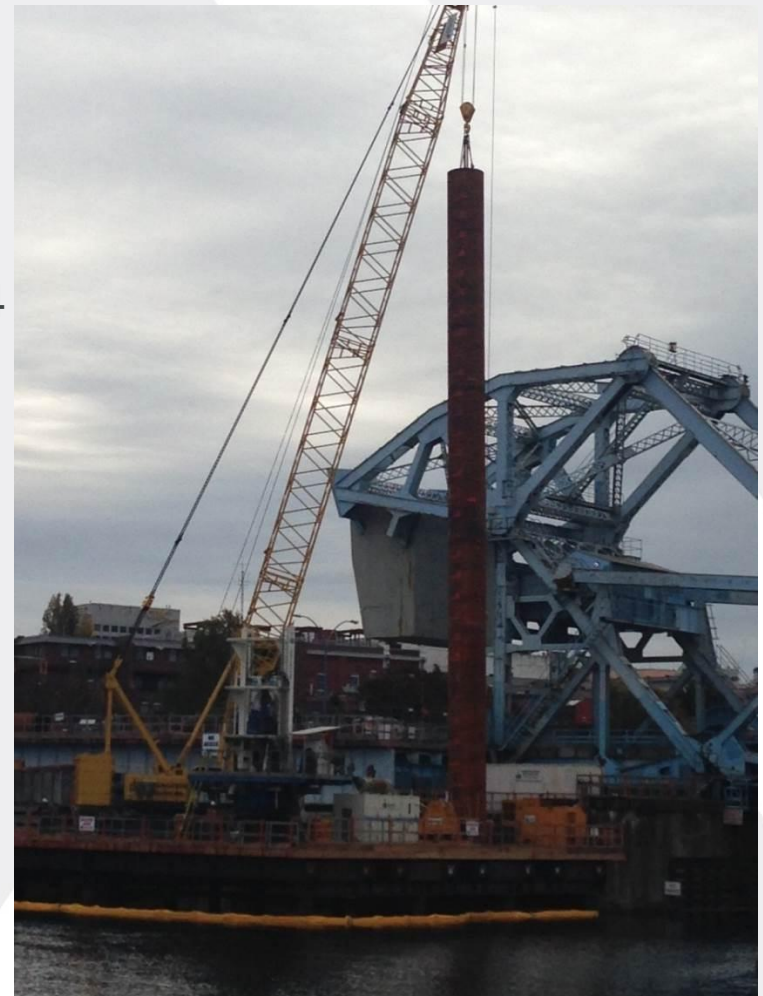
Status of Design

Design Delivered to date:

- Bascule Pier Foundations – May 2013
- Main Truss and Ring – June 2013
- Mechanical Package – June 2013
- Approaches – November 2013
- Roads and Civil Works – January 2014
- Bascule Pier - March 2014

All Design is complete with the following exceptions:

- Dolphins (part of Fendering)
- Pedestrian Bridge
- Bridge Lighting
- Landscape



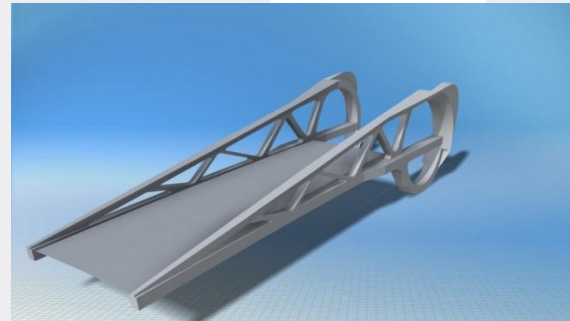
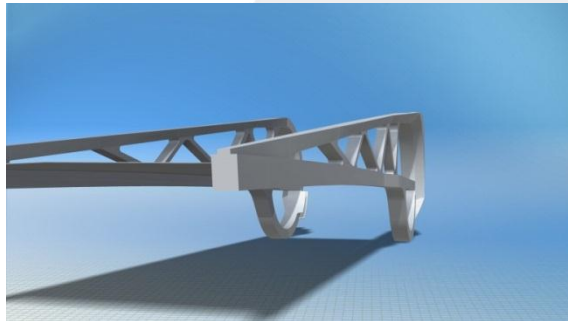
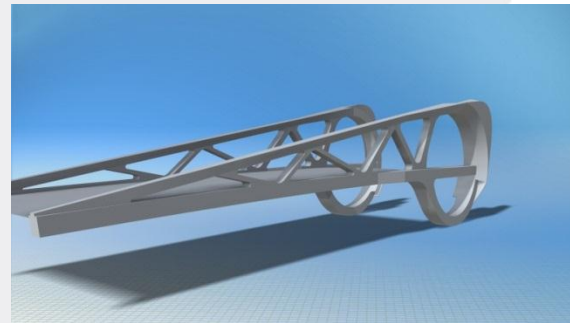
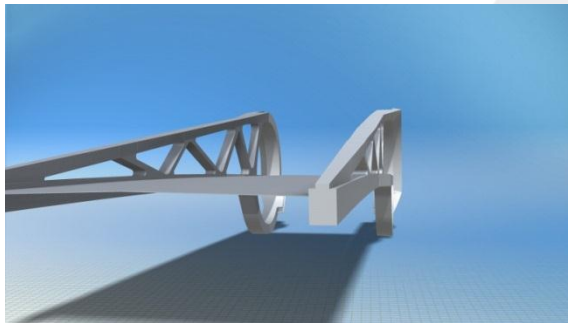
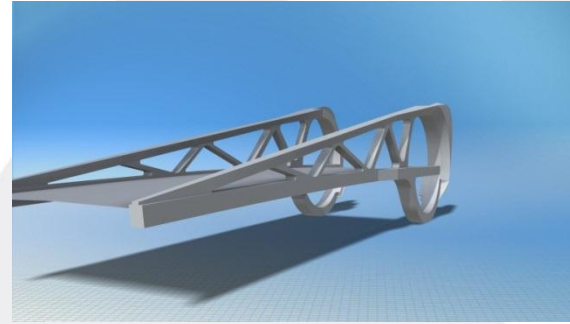
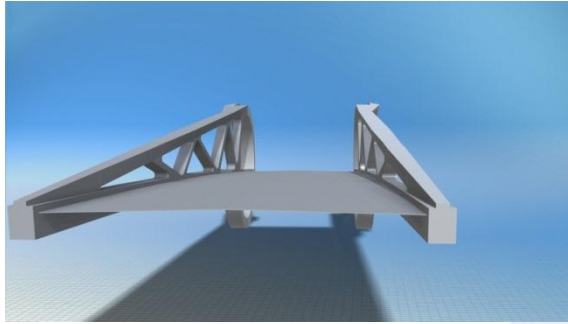


Highlights of the Development of the Final Design

Final Design Reflects:

- Hydraulic Mechanical Lift System
- Bridge Approaches are now Precast Concrete Box Girders
- Bascule Pier Design has been simplified
- Bascule Rest Pier Design has been simplified
- Fendering and Dolphin Design has been simplified

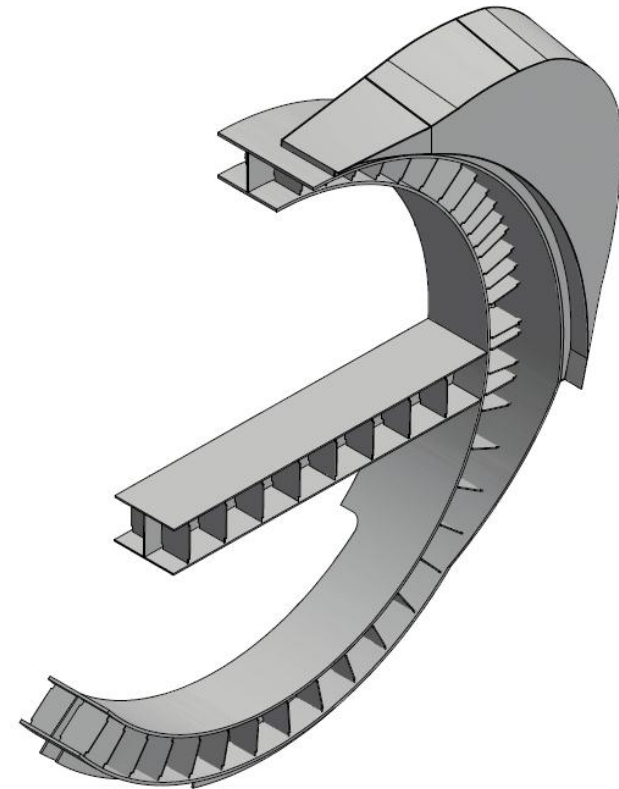
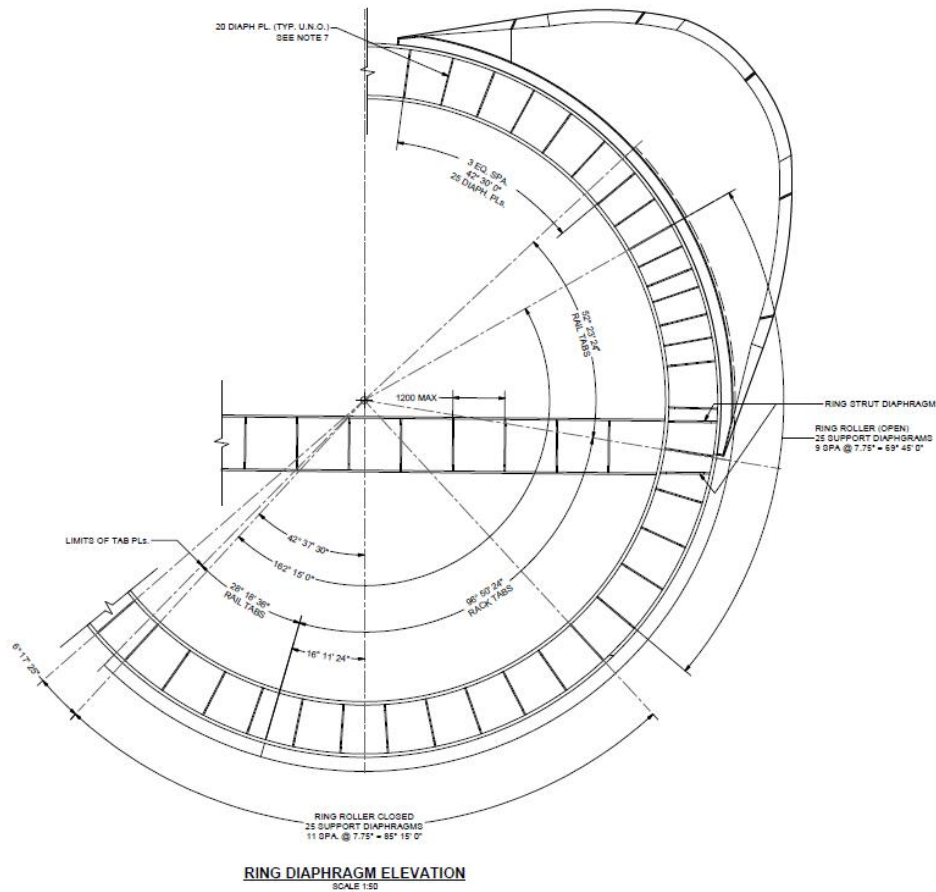
Highlights of the Development of the Final Design



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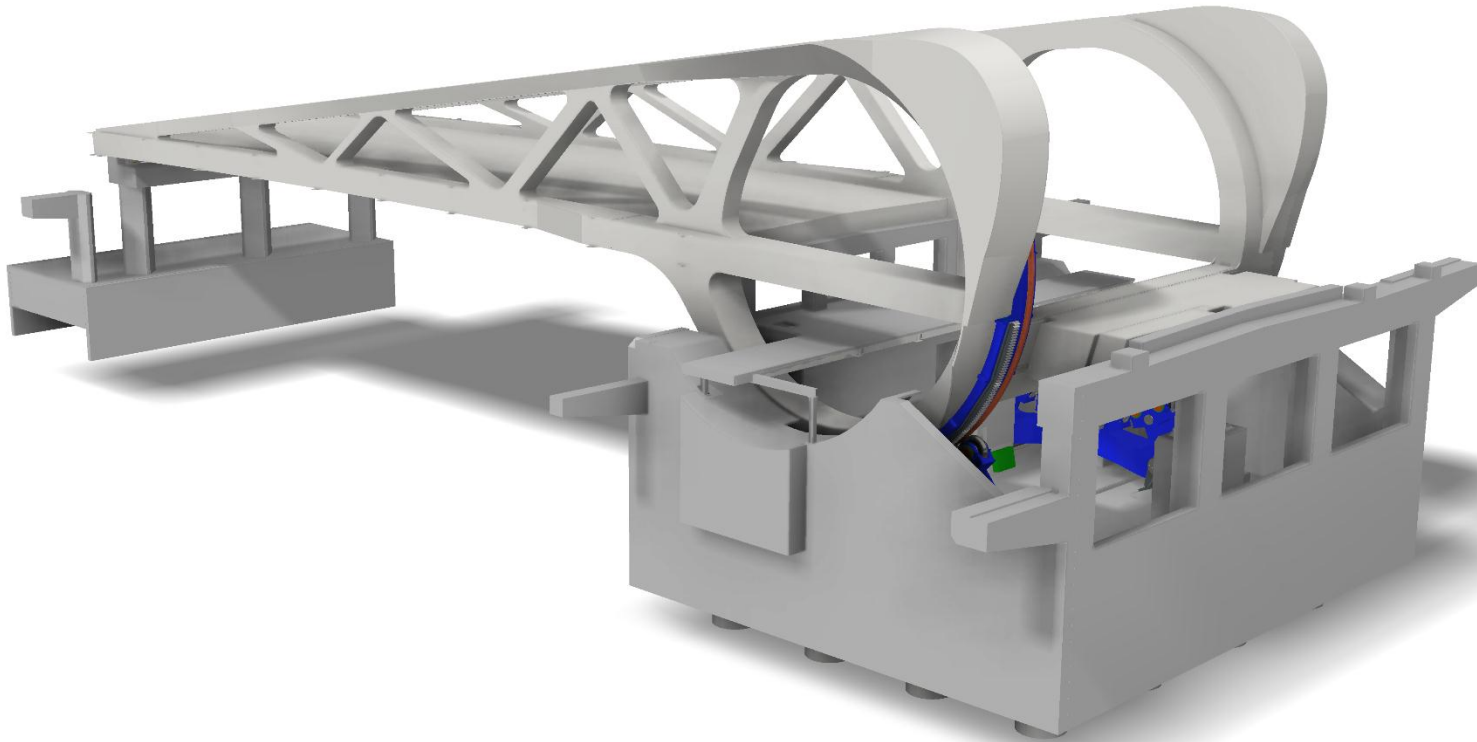


RING DIAPHRAGMS ISOMETRIC
SCALE 1:50

Project Life Cycle Considerations

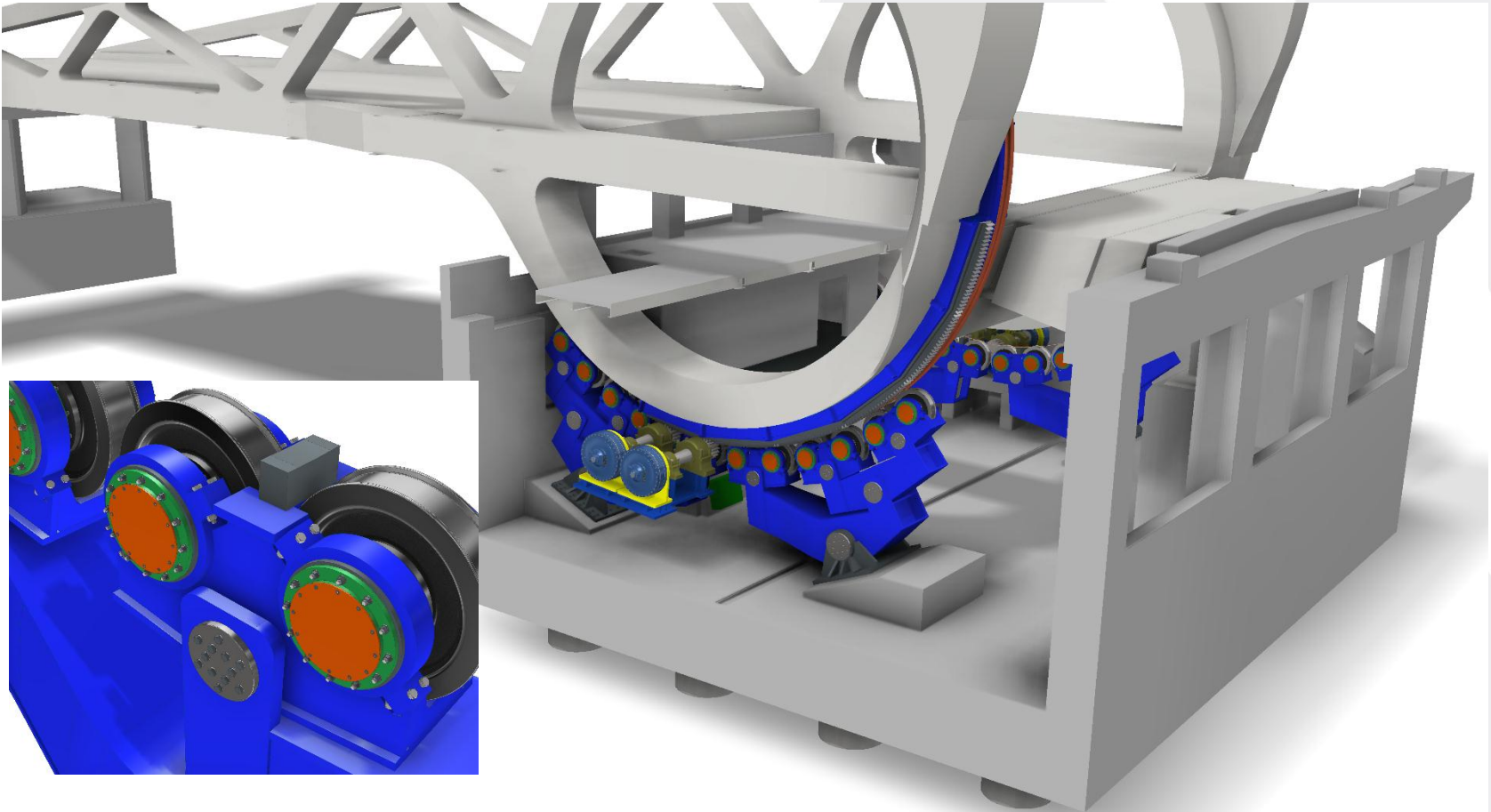
The Final Design of the Project meets the Life Cycle objectives

Key Operation and Maintenance Considerations:



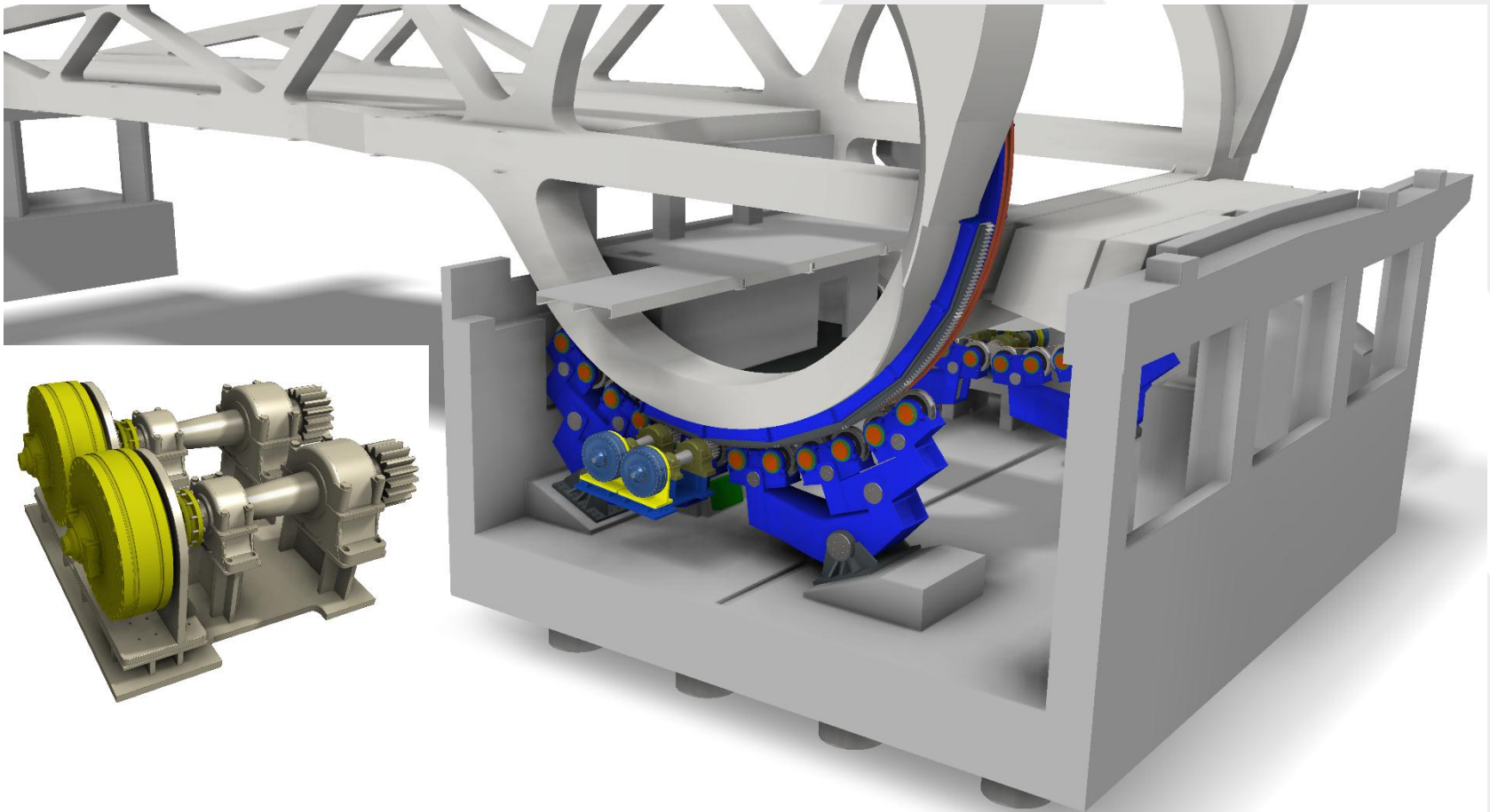
Project Life Cycle Considerations

Routine Maintenance:



Project Life Cycle Considerations

30 Year Modernization:



Project Life Cycle Considerations

Life of the Structure:

