Safety • client safety culture
Quality • campus buildings to last
Aesthetics • world class facility to attract and retain top talent
Schedule • maintains established schedule, and uses model to track progress
Cost • best value for a safe and quality building
Who's involved?
Learning Objectives

- Adding Construction Safety To The Design Requirements
- Leveraging BIM To Streamline Design Decisions
- Utilizing Precast Fabrication Model To Create Design Team Model & Drawings
Where we started:

- 100% DD design
- CIP design details
- reality of CIP
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- CIP design details
- reality of CIP
How do we all work together?

• iterative process
• coordination tracking
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- iterative process
- coordination tracking
What are the challenges?

- location
- contract language
What are the challenges?

- location
- contract language
Multiplatform Workflows (they work!)  
- software  
- implementation
Multiplatform Workflows (they work!)

- software
- interoperability

Export Using Revit Plugin

Import From Tekla Plugin
Multiplatform Workflows (they work!)

- software
- interoperability
Safety Improvements

- reduced man-hours on-site
- on-site installation
- system integration
- pre-glazed
- repetition
- single source of information

1,911 precast pieces off-site
1,700 man-hours on-site
72% reduction over CIP
Safety Improvements

- reduced man-hours on-site
- on-site installation
- system integration
- footings and shear walls
- repetition
- single source of information
Safety Improvements

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4-Story Precast Campus Housing – 80,000 SF
Safety Improvements

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- on-site installation
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- pre-glazed
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Where we are going...