## PROJECT SUMMARY

### BRIDGE DESIGN

**Bridge Type:** 68.75 foot simple through steel plate-girder with aesthetic facade  
- Span width of 11 feet to accommodate cyclists, handicapped pedestrians, and pedestrians  

**Codes:** AASHTO LRFD Bridge Design Specifications, LRFD Guide  
Specifications for the Design of Pedestrian Bridges used to determine:  
- Load Combinations  
- Steel Design: I-girders, bearing and transverse stiffeners  
- Concrete Design: Bridge deck, façade, and abutments  

### CONSTRUCTABILITY

**Girder Transportation:** Two 68.75’ long, 7.7 ton; girders and deck will be transported separately  
**Erection Method:** Lift and Place  
**Equipment:** Grove RT540e  
- 40 Ton, 50 foot boom length

**Right:** Aerial view of previous existing bridge with topography and future ramp locations

**Right:** “Better Bikeways” future and existing bikeways in Pittsburgh

**Group Members (left to right):** John DeSantis, John Ragan, Angus Robertson, Mike Cinciripini, Erin Gray, Jean Luc Sebudandi, Jesse Wagner, and John Citrone

### RAMP DESIGN

**Ramp Type:** Two concrete ramps on both sides of the span connected to each abutment  
- Cut and Fill process for aesthetic and cost effective design  
- Both ramp widths of 7 feet to accommodate multiple cyclists, handicapped pedestrians, and pedestrians  

**Codes:** ADA Standards and Regulations used to determine:  
- Slope Gradation  
- Platform Requirements  
- Handrail and Width Requirements

**Right:** 3D Ramp design on West Ohio Street side of park

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## COST ESTIMATE

*Cost Estimate breakdown on selected bridge span. RS Means was used in accordance with the Cost Estimate. An in depth Estimate is included in final report.*