

# STUDENT “KISSING” BRIDGE

## **BIG WORK ITEMS**

**JUNE 23, 2004**

### REPLACEMENT

- Verify field dimensions
- Determine supplier
- Determine cost
- Order replacement bridge
- Review shop drawings
- Arrange for exact day delivery

### NEW BRIDGE SITE PREP

- Determine elevations
- Removal quantity
  - Metal stairs
  - Concrete
  - Scrub wood
  - Trees
- Replacement quantities
  - Concrete formwork
  - Concrete sidewalks & approaches
  - Elevation corrections (concrete)
  - Steel plates for height adjustment
- Costs for all above items

### REPAIR

- Scope, quantity, and extent of repair
- Type of repair
- Material to use
- Cost

### PAINT

- Type, style, color, material
- Quantity required
- Application procedure
- Number of coats
- Paint system required
- Cost

### **EARTHWORK**

- Quantity of fill required
- Type of fill required (dirt, sand, “flowable fill”, ect)
- Locations (coordinated with Anchorwall)
- Lengths of ramps
- Cost
- Equipment required
- Coordination with GE Marshall
- Compaction requirements

### **ANCHORWALL**

- Design of wall
- Layout of wall
- Type of material
- Appearance
- Locations (coordinated with earthwork)
- Curve requirements
- Seating area, including step-down area
- Costs
- Transportation coordinator

### **HISTORIC SIGNS**

- Type (metal/plastic/wood/ect, raise engraved/reverse engraved/ect)
- Manufacturer/supplier
- Price
- Exactly what it says
- University compliance
- Location on site
- Additional signage on campus, near site

### **LIGHTING**

- Types (flood light, low level, halogen, incandescent, ect)
- Power supply (hardwire, battery, solar, ect)
- Exact location of each fixture
- Quantity of each
- Appearance
- University compliance
- Maintainability concerns
- Costs

### **UNIQUE FEATURES**

- Railroad whistle on bridge
- Benches

- Use of old bridge legs
- Certainly more options here...

### **LANDSCAPING**

- Types of plants
- Exact locations of each
- Quantities of each
- Cost
- Maintainability concerns
- Bloom times of each
- Reasoning why for each
- Pictures of proposed, with locations
- Rock channel
  - Fabric underneath (what kind?)
  - Types of rock
  - Quantities of rock
  - Appearance (all one style? Multiple layers? ect)
  - Extents under bridge and into woods
- Installation procedure for engraved bricks
  - Obtain mortar, sand, edging tools

### **PUBLICITY**

- Local newspapers
- University publications
- Alumni newsletters
- University Guild
- Homecoming dedication
  - Plan ceremony
  - Handouts/pamphlets
    - History of bridge
    - What we as students have done
  - Invitations to alumni and university reps
  - Inform student body
  - Inform Class of 2004
- Update to seniors and alumni who contributed money
- Update Senior Class Gift Committee
  - Coordinate arrival of engraved bricks to site

### **FINANCIAL**

- Continue fundraising efforts
- Write mission statement
- Create “shiny brochure” on project
- Contact alumni
- Track expenses

- Updates on budget

### **WEBSITE**

- History of bridge
- History of project
- Documents and plan pages available online
- Updated Gantt chart
- Lots of pictures through the phases
- Link to College of Engineering website
- Link to Valparaiso University website
- Link to VAULT

### **MOVEMENT OF BRIDGE**

- Exactly where to cut free
- How to cut (saw, torch, ect)
- Support for top chords from crushing
- Support for bridge while on low-boy truck
- Secure bridge to truck
- Where to position crane
- Obtain police escort while on streets
- Coordinate backhoe with GE Marshall
- Exactly how to pick up bridge with crane and backhoe
- Path and position of backhoe during placement
- How to secure bridge to piers during placement
- How to secure bridge after placement
  - Drill anchor bolts?
  - Concrete drill bit
  - Big drill
  - Epoxy to secure bolts
  - Obtain bolts and nuts
- Expansion material
  - Elastomeric bearing pads
  - Greased steel plates