

# Shared Use Trail Bridge Option 2 - Hybrid Truss Bridge with Secondary Aesthetic Structural System



Elevation View



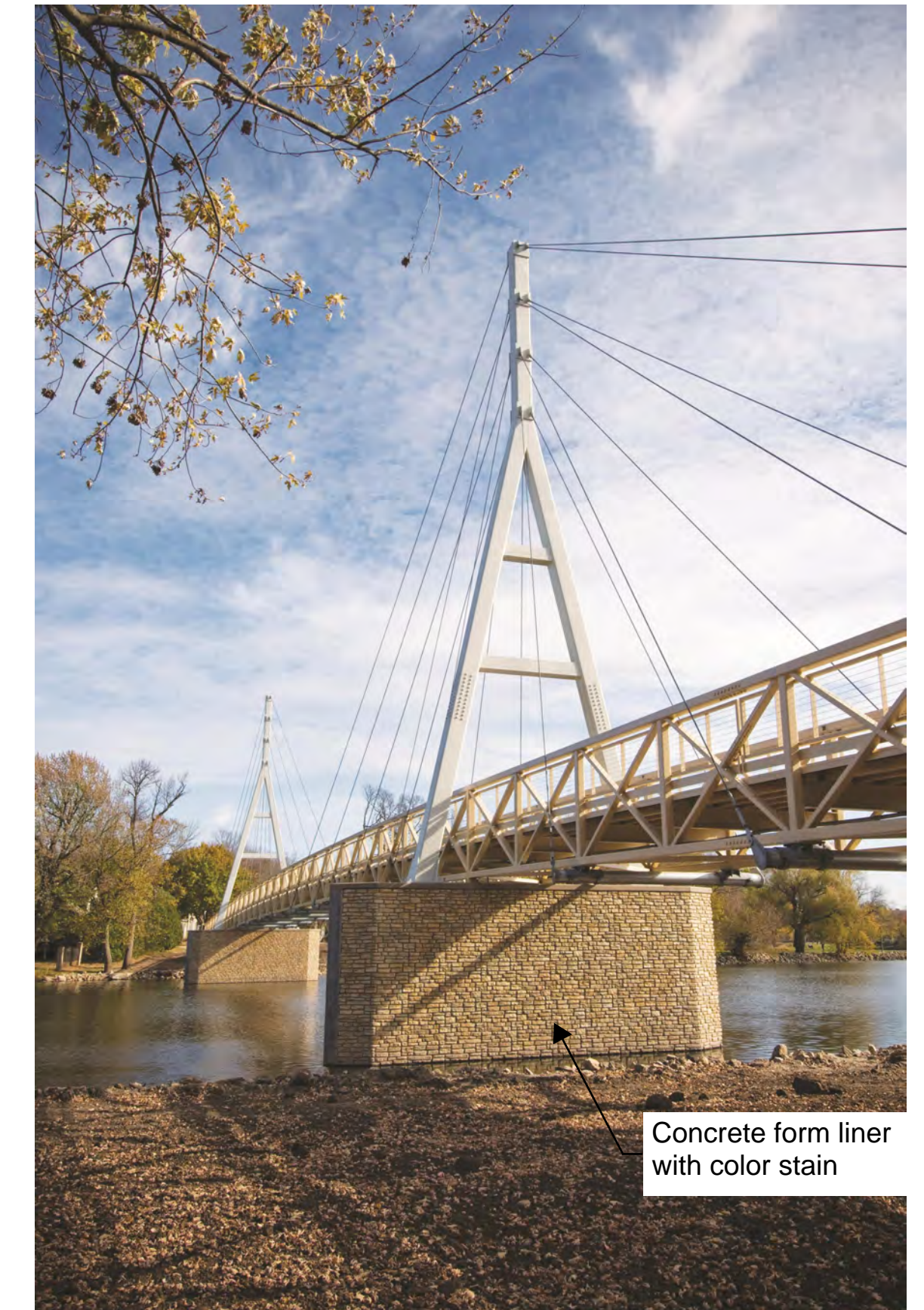
Looking NW with Dam Replacement Shown



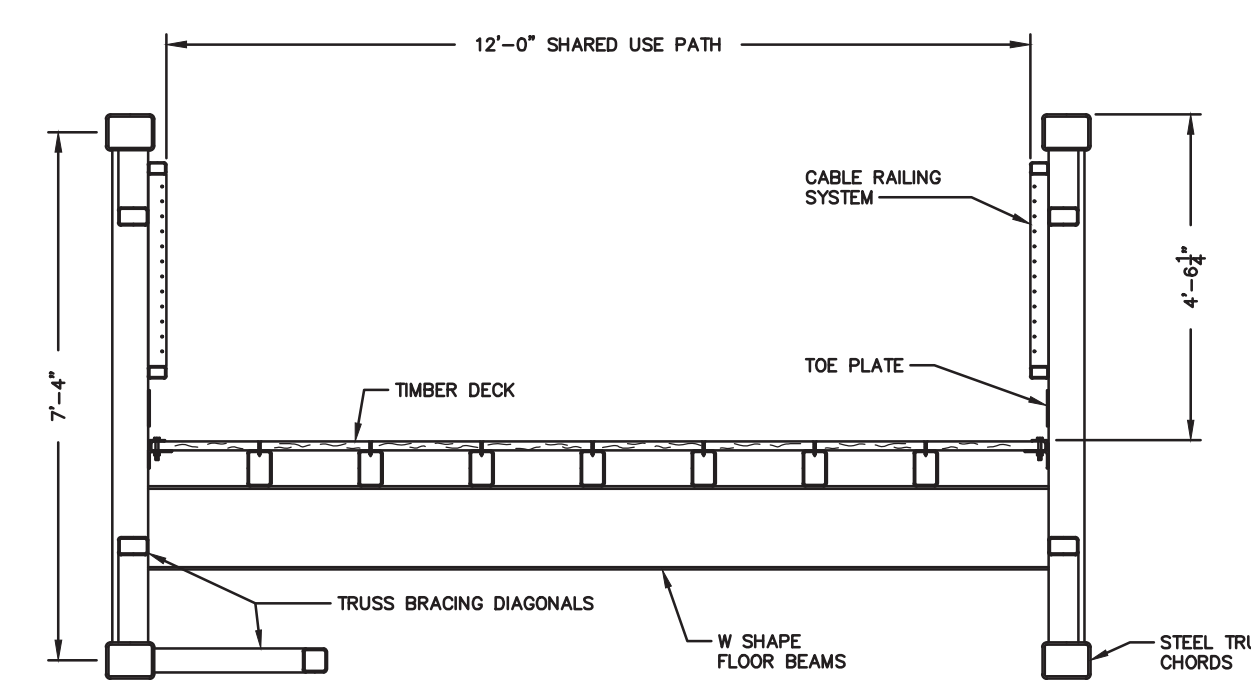
Looking SW with Dam Replacement Shown



Example of bridge option 2, Charles City Iowa Cable Stayed Pedestrian Bridge



Concrete form liner with color stain



Typical Section through Bridge Option 2

## Features of Bridge Option 2

- Bridge would be constructed with the primary structural system being a prefabricated truss. A secondary structural system, such as the cable stayed system depicted, could be added to provide a unique signature bridge feel while still retaining some of the economy of having the bridge pre-fabricated off site
- Bridge would have two 150 foot spans with a center pier for a total structure length of 300ft.
- Straight alignment offers many options for railings, and structural features
- Bridge could easily accommodate an aesthetic rail system located inside of the truss panels, and decorative lighting.
- For both the case where the existing dam remains as is, or is replaced, this bridge geometry would work as shown.
- The proposed location of the bridge upstream of the existing dam provides separation from the Broadway Avenue bridge to reduce noise from traffic and improve the experience of trail users crossing the lake.