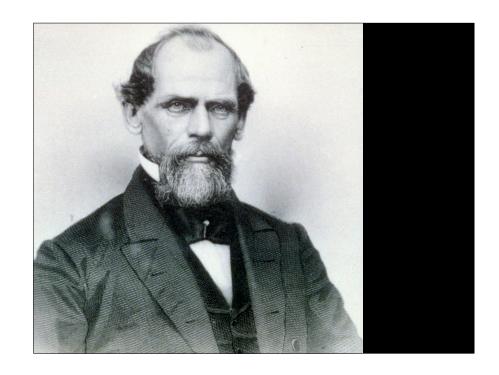
## History and Aesthetics in Suspension Bridges

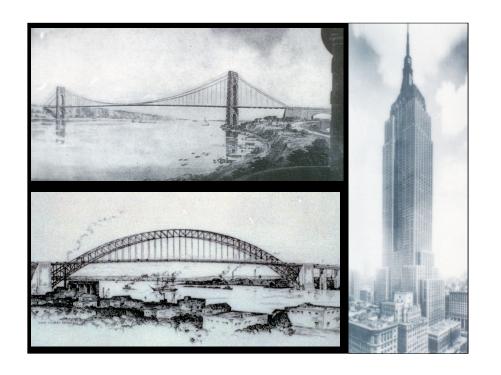
(Othmar Ammann, NYC Bridges, and 20th century bridge engineering)

Social role of Ammann's bridges in New York
The Hellgate and Bayonne Arches: form and forces
Stiffness in suspension bridges (cont.)
Lindenthal and the RR vs. Amman and the automobile
Form, function, and aesthetics in suspension bridge towers

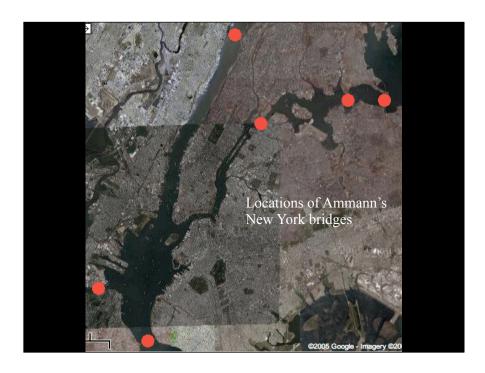


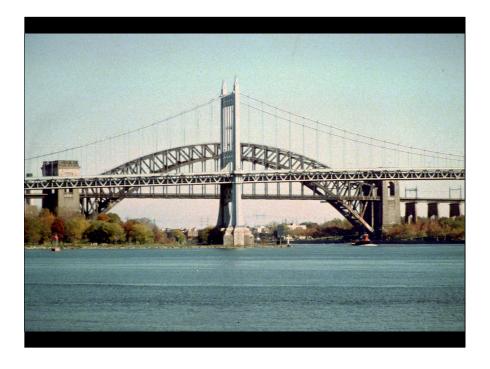


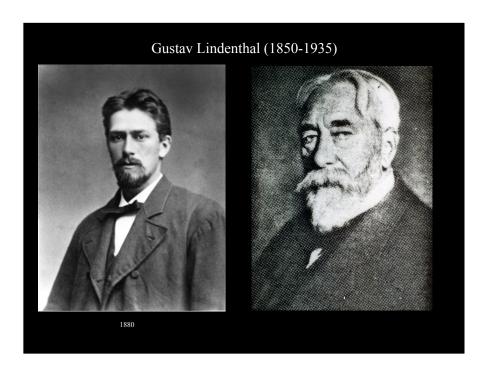


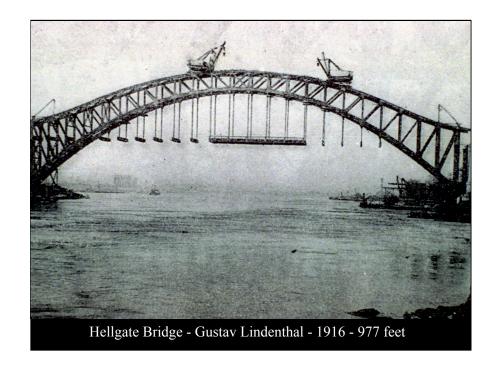




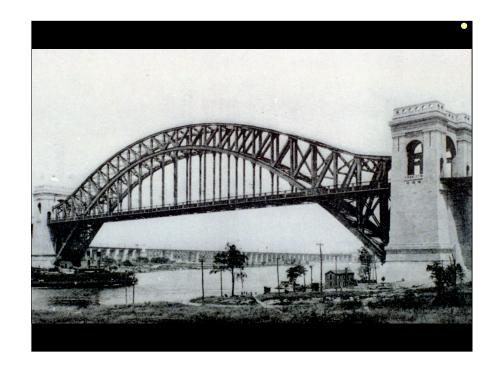




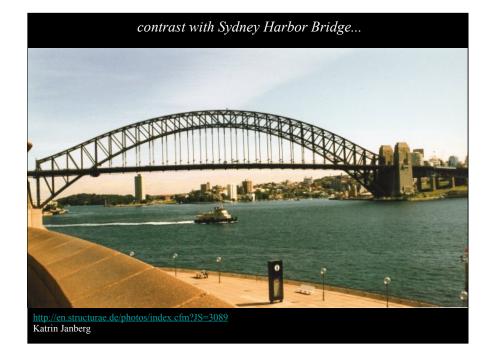


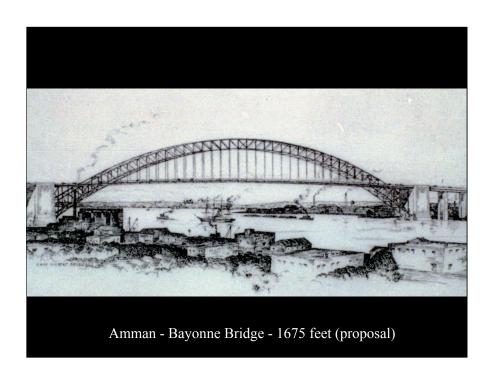


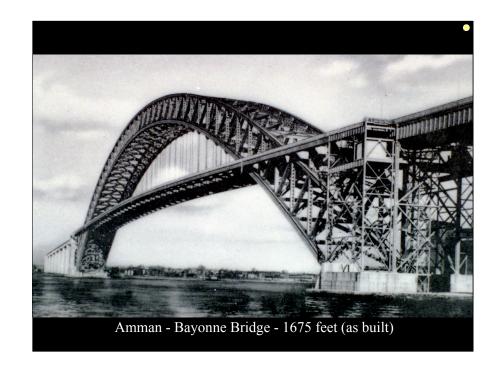


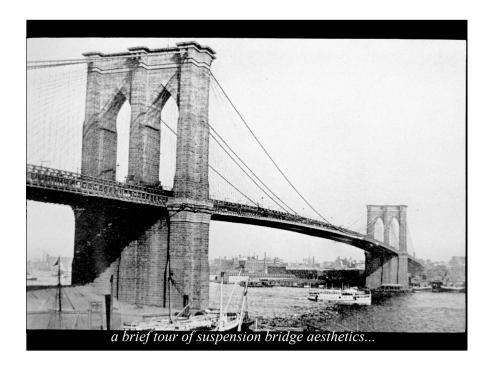


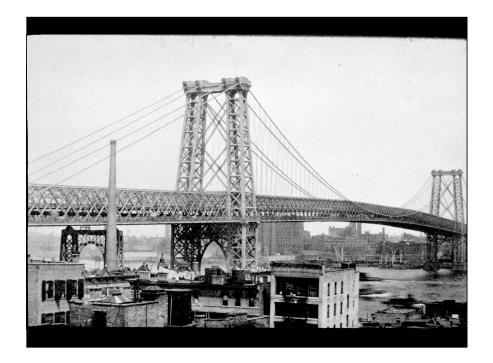






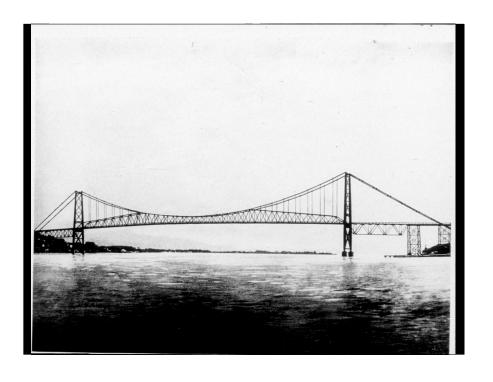




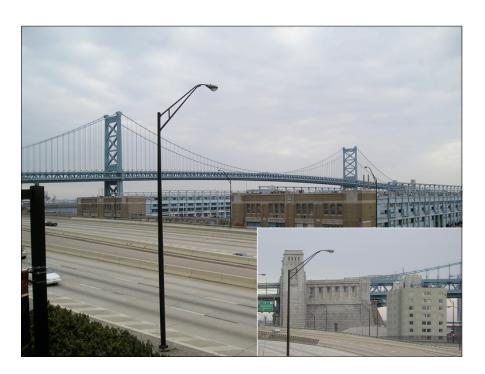


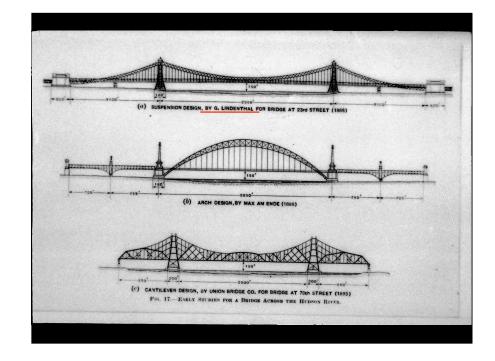


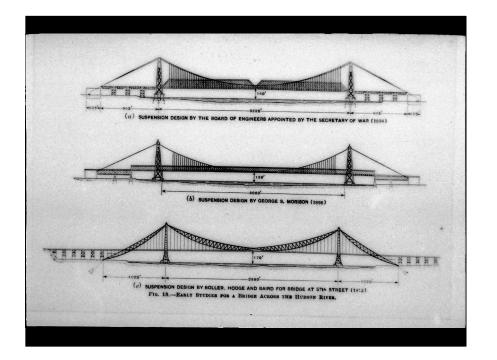


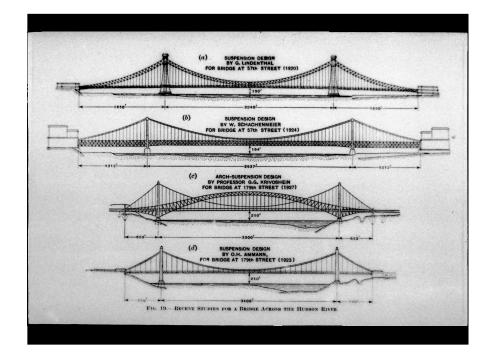


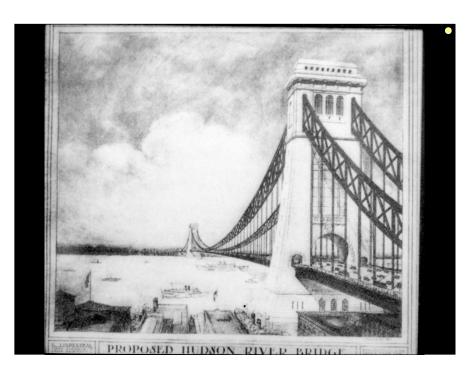


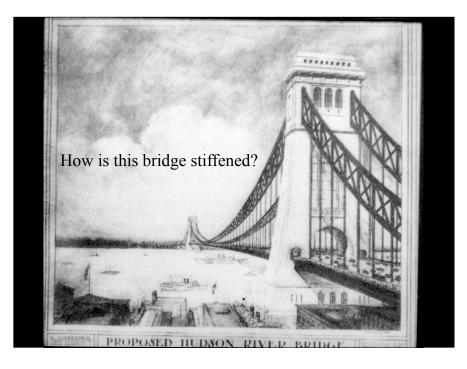








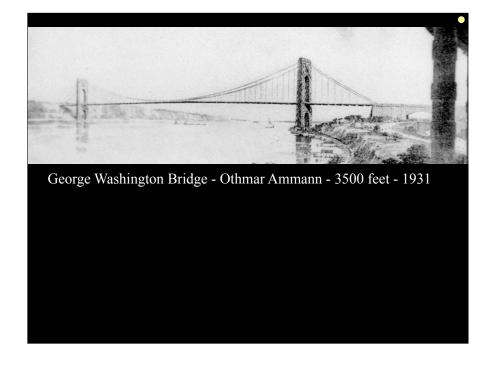


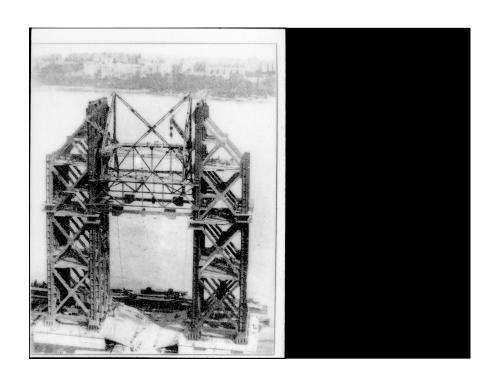


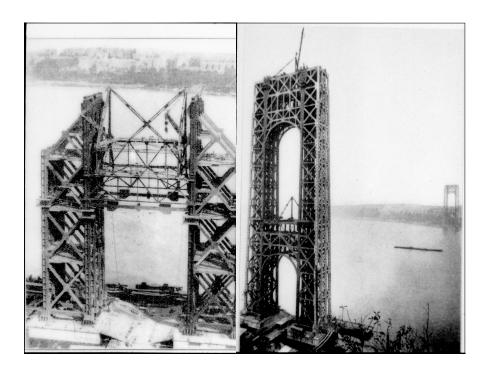


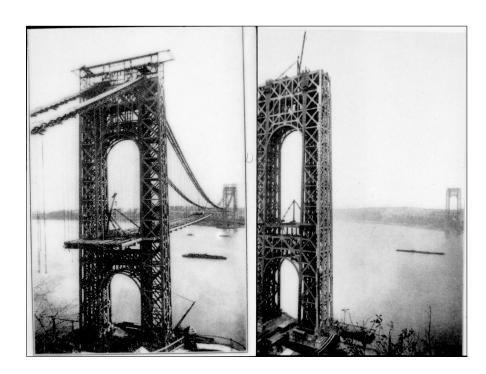


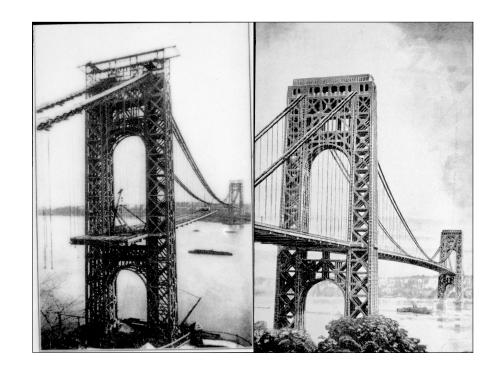


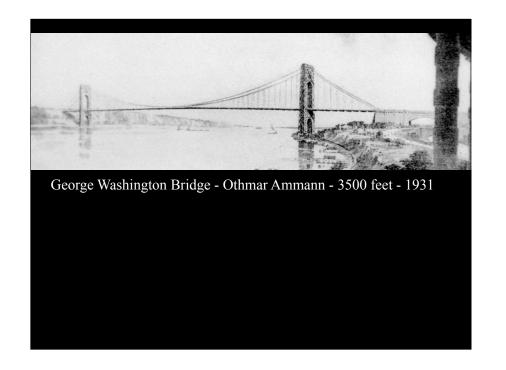




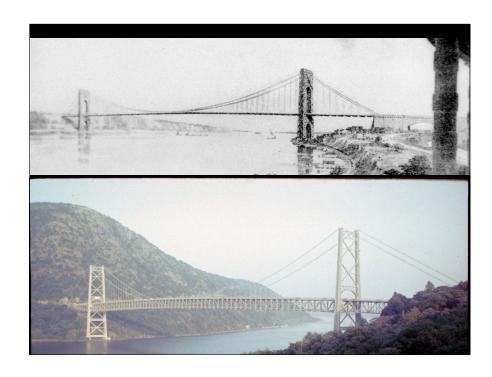


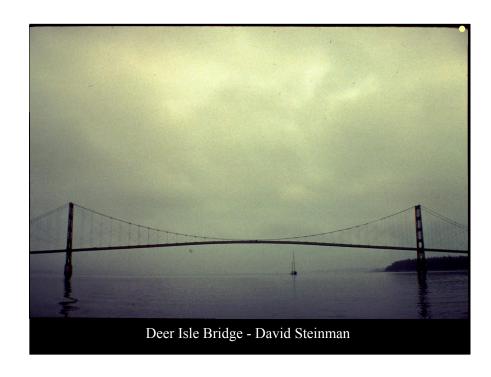


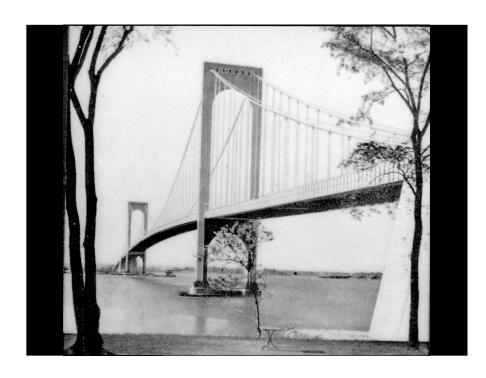


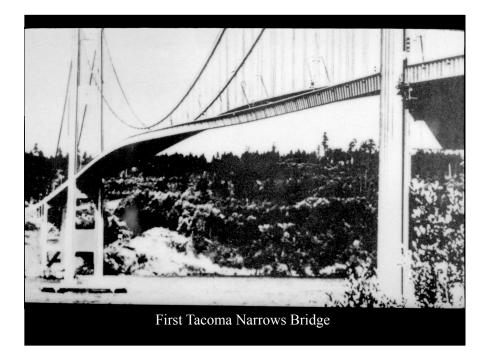








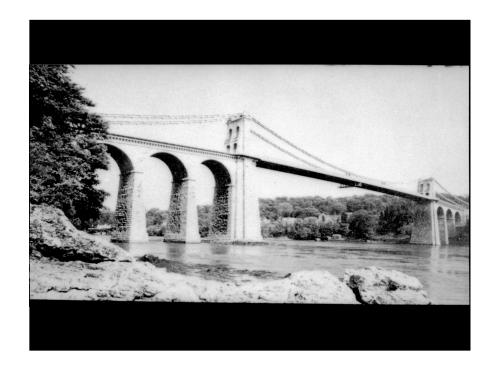




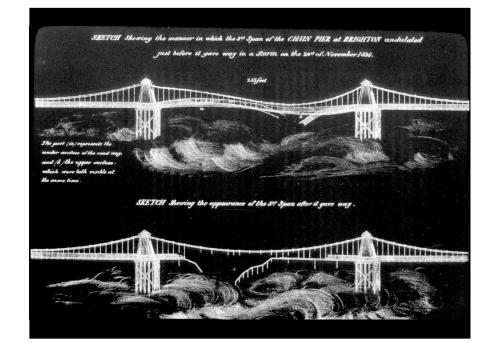


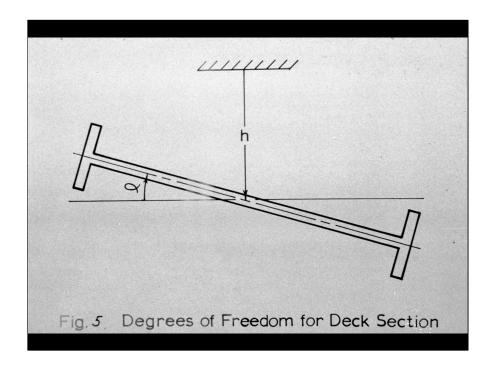






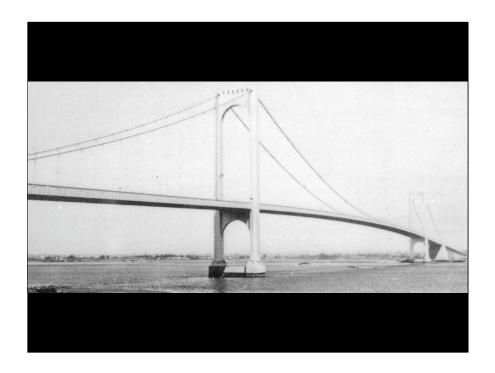










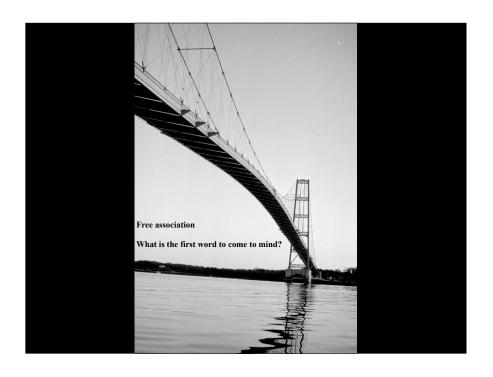






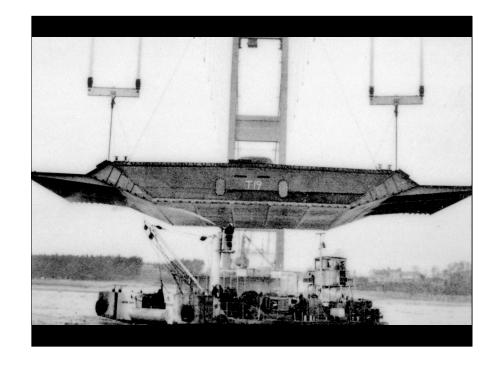


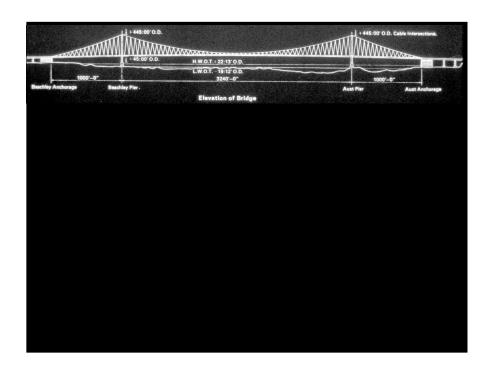


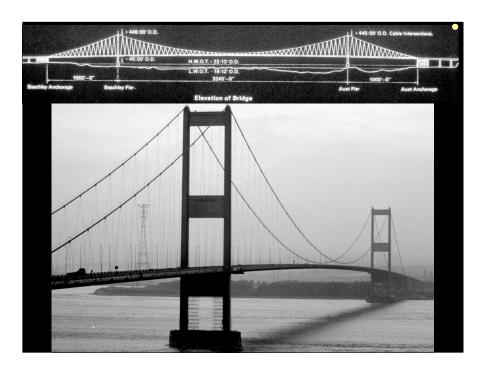






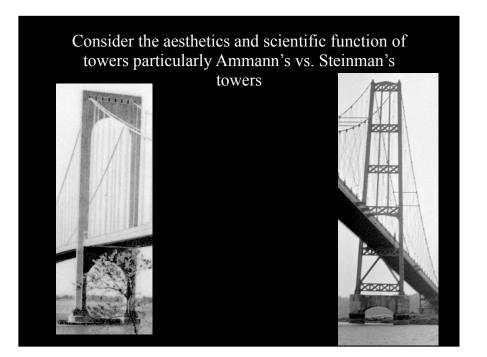


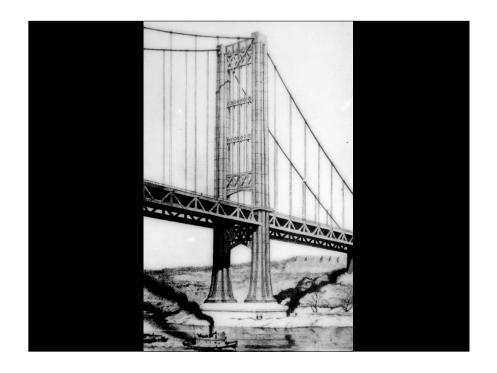


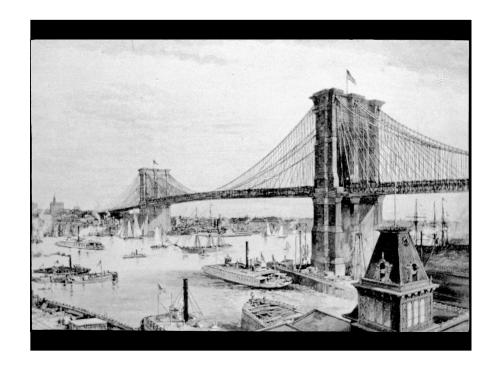


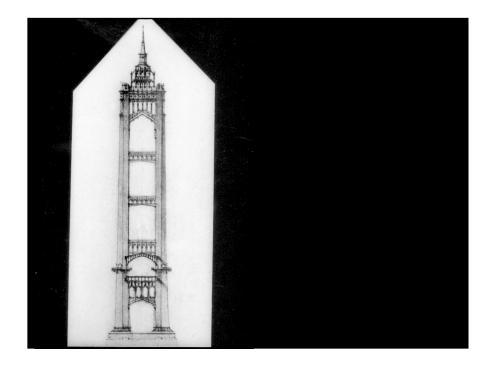


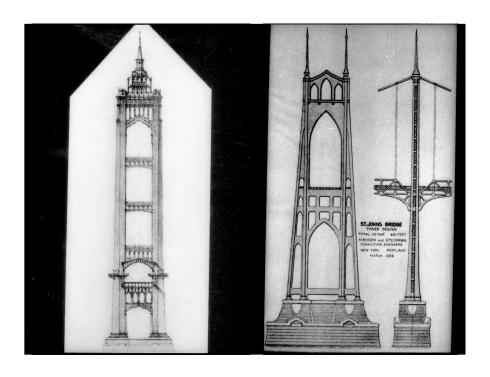




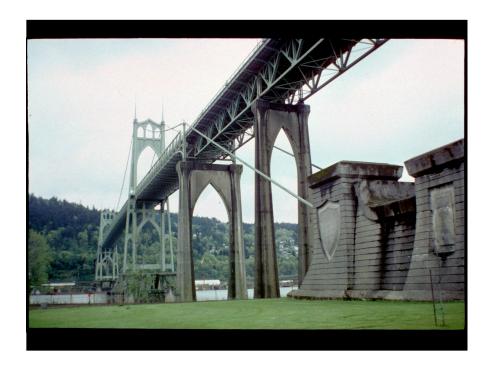


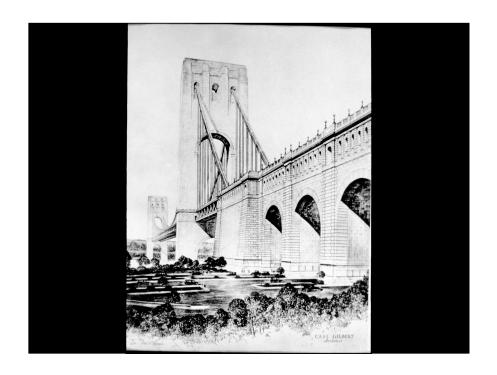








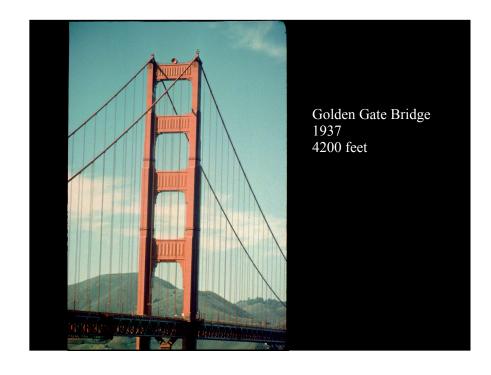




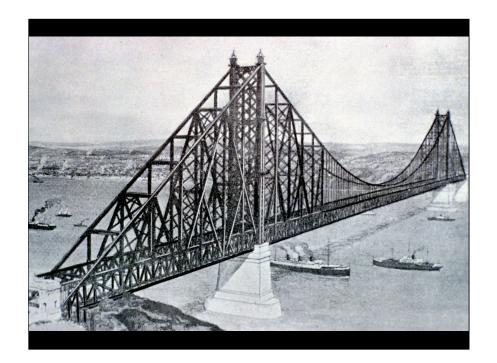


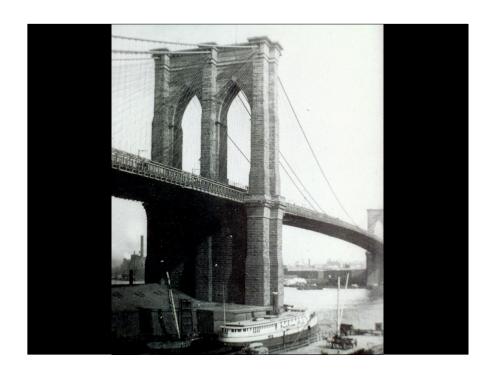




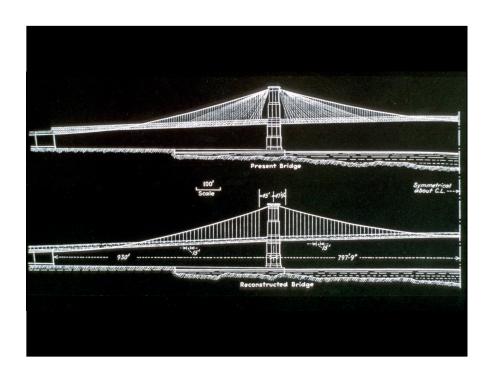






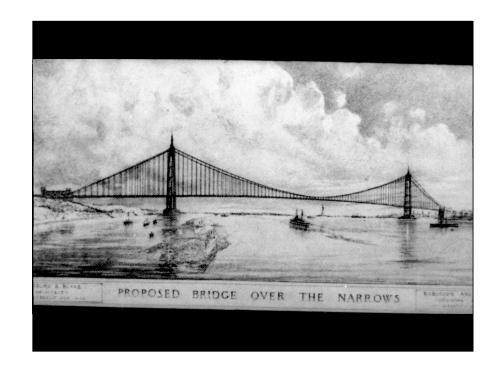


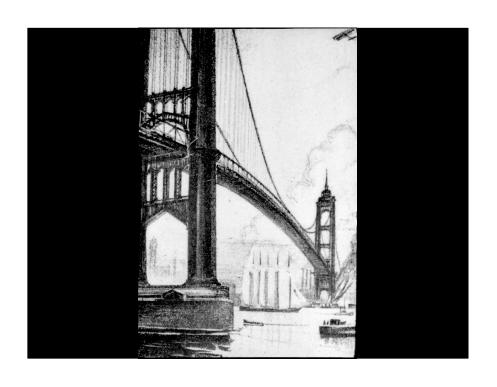


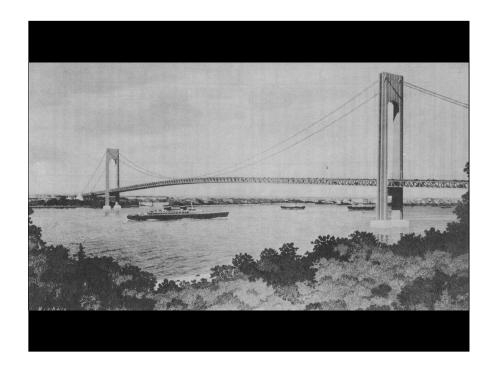


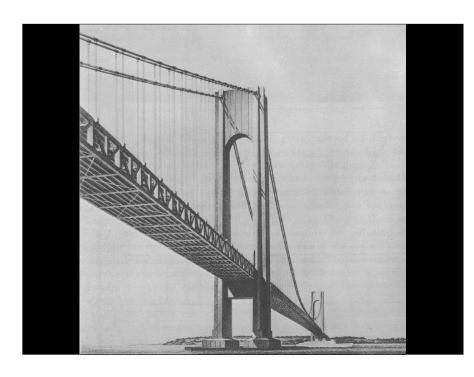






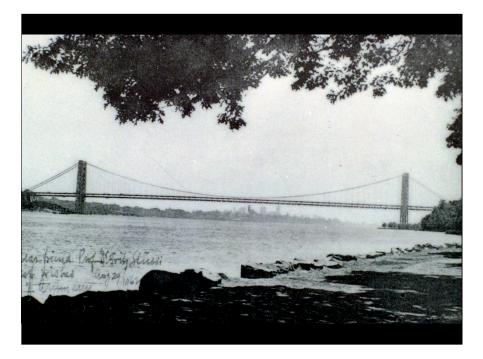


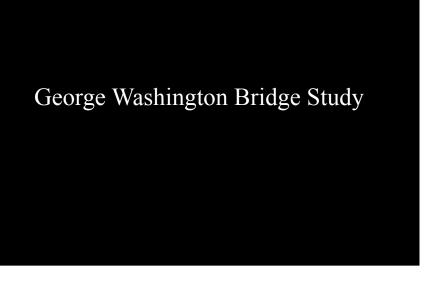


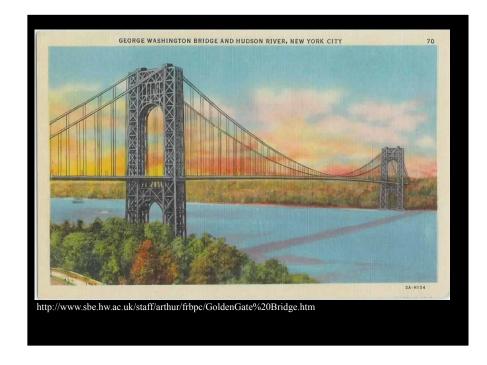




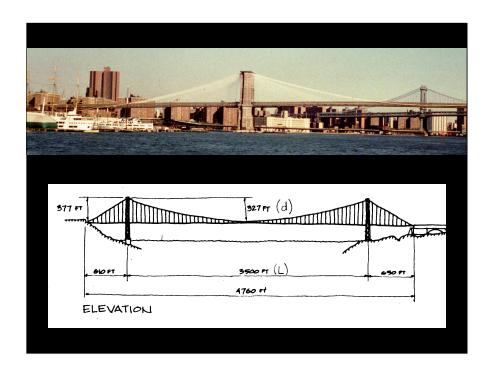


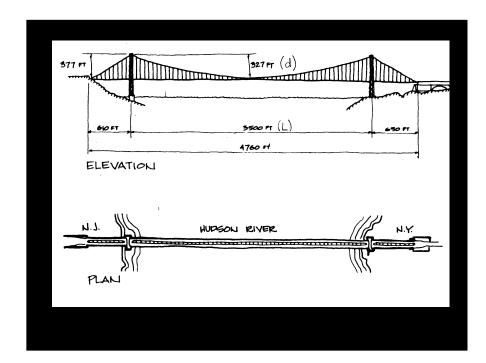


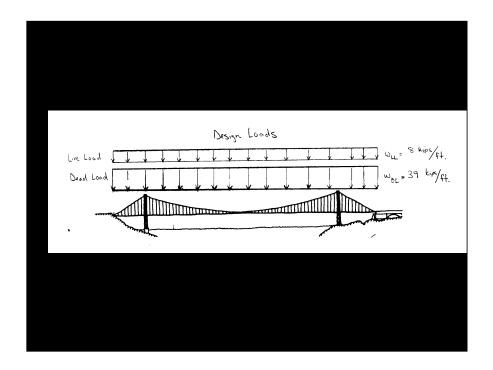


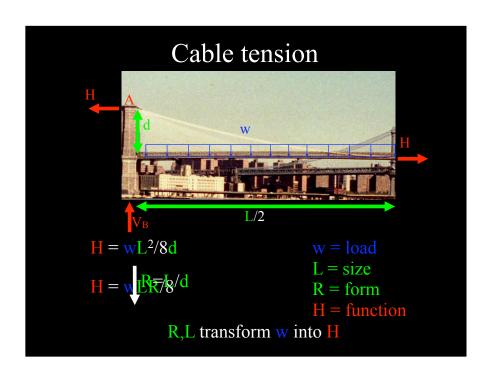


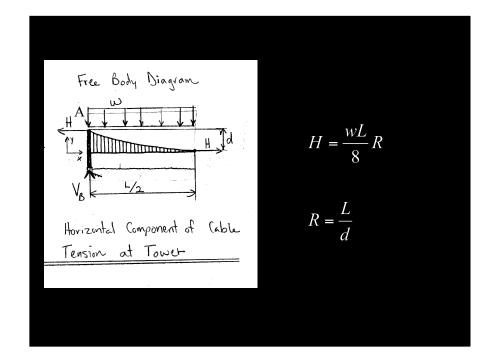


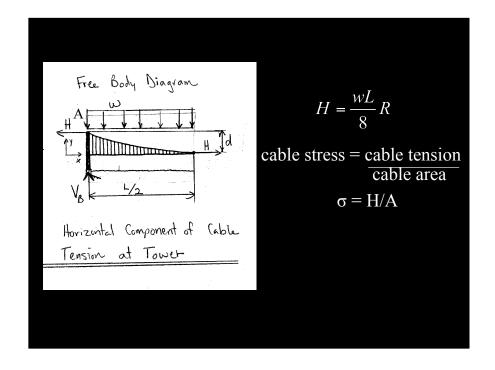












safety factor = allowable stress
cable stress

safety factor > 1 ?
safety factor < 1 ?
safety factor = 1 ?

## Announcements

GWB calculation assignment due Wednesday 5:00 PM at 223 Marston

Extra help available immediately after class

Second journal assignment due Thursday midnight