

Bridge Project Rubric

Criteria	Mastery Displayed	Proficiency Shown	Approaching Proficiency	Novice
The Blueprint This shows your firm's "Big Picture" view of the bridge, it shows how you will use all resources available to you and measurements involved.	* The scale is 1:70 in appropriate measurements. * The drawing is neat and of professional quality. * Components are clearly and consistently labeled.	* The bridge is able to span the Rio Grande River at Eagle Pass. * The scale is 1:70 * The drawing is clean * Different components are clearly labeled	* The bridge is not able to span the Rio Grande. * The drawing is messy or confusing. * Most of the dimensions of the bridge are not labels.	* Two or more of the items in the Approaching Proficiency column
The Sketch This shows your firm's "Detailed View" view of the bridge, it convinces people that the bridge is mathematically sound.	* The sketch justifies why only a portion of the truss needs to be shown. * The sketch justifies the geometric relationship between the angles of the truss.	* The sketch shows a cross section of the bridge's truss. * Angles are labeled accurately. * There are no logical complications in the measurements provided.	* Angles are not labeled accurately. OR * Angle measurements lead to logical complications	* Both of the items in Approaching Proficiency. * The sketch is difficult to understand.
The Model This shows your project's "Feasibility"; in other words, does your plan work?	* The model is detailed and clean. * The model is able to support incredible weight. * The model matches the blueprint and sketch perfectly.	* The model resembles the blueprint and sketch provided. * The model is of appropriate length * The model is of appropriate width. * The model can hold a reasonable weight.	* The model is not able to support moderate weight. * The model is not an appropriate length or width. * The model loosely resembles the blueprint or sketch.	* The model is not able to support even minor weight. * The model does not resemble the blueprint or model.
The Report This shows your firm's "Technical Knowledge", it convinces its reader that you are knowledgeable about your content and that your other materials should be considered.	* The report intuitively connects the blueprint, sketch, and model. * The report is technically sophisticated and accessible. * The report explicitly states considerations the firm made during design.	* The report explains how the previous items relate to each other. * The report conveys an understanding of technical terms. * The report explains the physical dimensions of the bridge.	* The report mentions the other components but does not connect them. * The report conveys a limited understanding of technical terms. * The report is does not inspire confidence in the final project.	* The report is vague. * The report makes little to no mention of geometric ideas or terminology. * The report conveys the firm doubts its own project.
Evaluator Comments: 				