

BULLDOG PEDESTRIAN BRIDGE

FULL NAME
POE/PER ?
MR. COLLINS
DATE



LESSON 5- BULLDOG BRIDGE GROUP PRESENTATION-(DESIGN BRIEF PPT/MODEL)



Design Brief Components	Description
Client	A person, company, organization, or group that requires the talents of an engineer or designer to develop a solution.
Target Consumer	People who will use the design. Note: Often the target consumer and the client are one and the same.
Designer	The creative person who is designing a solution to the problem or opportunity.
Problem Statement	A clear and concise identification and description of the design problem or opportunity.
Design Statement	Statement that describes the anticipated design effort to address the needs of stakeholders and problem statement.
Criteria	A list of needs and design requirements that describe what the design solution must do to meet the needs of stakeholders.
Constraints	A list of specifications and design requirements that define parameters or boundaries the design solution must address. These might include time constraints, budget, codes, safety, or physical attributes (size, weight, color).

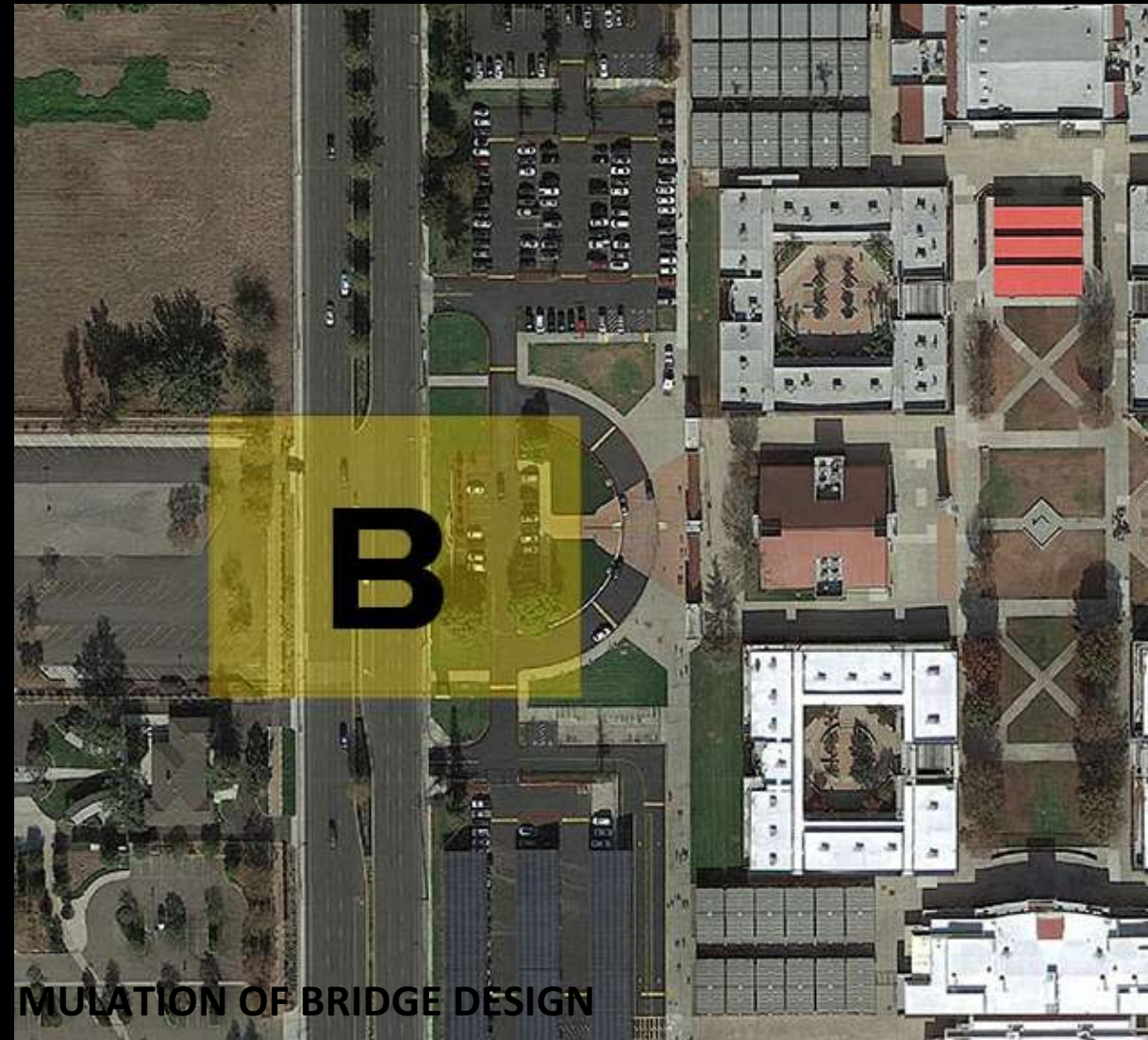
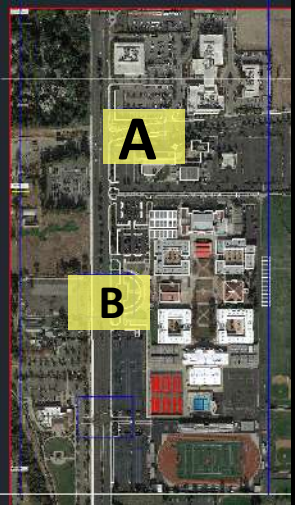
Pedestrian Bridge Precedents	3-5 Bridge Case Studies you researched and learned from
Vicinity/Location Map and Enlarged Map Site Selection	<p>Use GoogleEarth or other to show your selected site/ also show Eye-level/street level photos to give audience background information and understanding of site.</p> <p>-Identify which Site you selected to build</p> <p>-Explain "Why you picked this site over other proposed site" You want to be able to make a convincing argument how your site selection is better than the alternative.</p>
Design Options	<p>Series of design option ideas/sketches/representations-from your Notebook/sketchpad</p> <p>-Important to show "early" design process</p>
Modified Design/Final Solution	<p>Final design solution selected and used in presentation-</p> <p>-Describe the "type" of bridge(ie truss/ suspension/beam/other)</p> <p>Real bridge intended materials</p>

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<p>(Documentation/Support Ideas)</p>	<ul style="list-style-type: none"> -Include several model photos(top/eye level/aerial perspective) -3D Image Screenshots(snippets) if you used 3D software -Manipulated Model Photos-use filters-make look like a rendering-see examples -Make a traced sketch of model photo to make an illustrative perspective <i>-OPTIONAL- 3D animation of bridge if kinematic</i> <i>OPTIONAL-Insert 3D model into GOOGLE Earth as KMZ file for fly-thru</i> <i>OPTIONAL-MD Solids/ Bridge Cost Calculations(will increase score)</i>
<p>Physical Models</p>	<p>Describe Materials and build technique of your model</p>
<p>Evaluate the Solution</p>	<p>Judge or determine the significance or effectiveness of the design solution</p>
<p>Lessons Learned</p>	<p>What was learned during the design process and what are the major observations upon the completion of the design</p>

LESSON 4-BULLDOG PEDESTRIAN BRIDGE-MD SOLIDS SIMULATION/MODEL

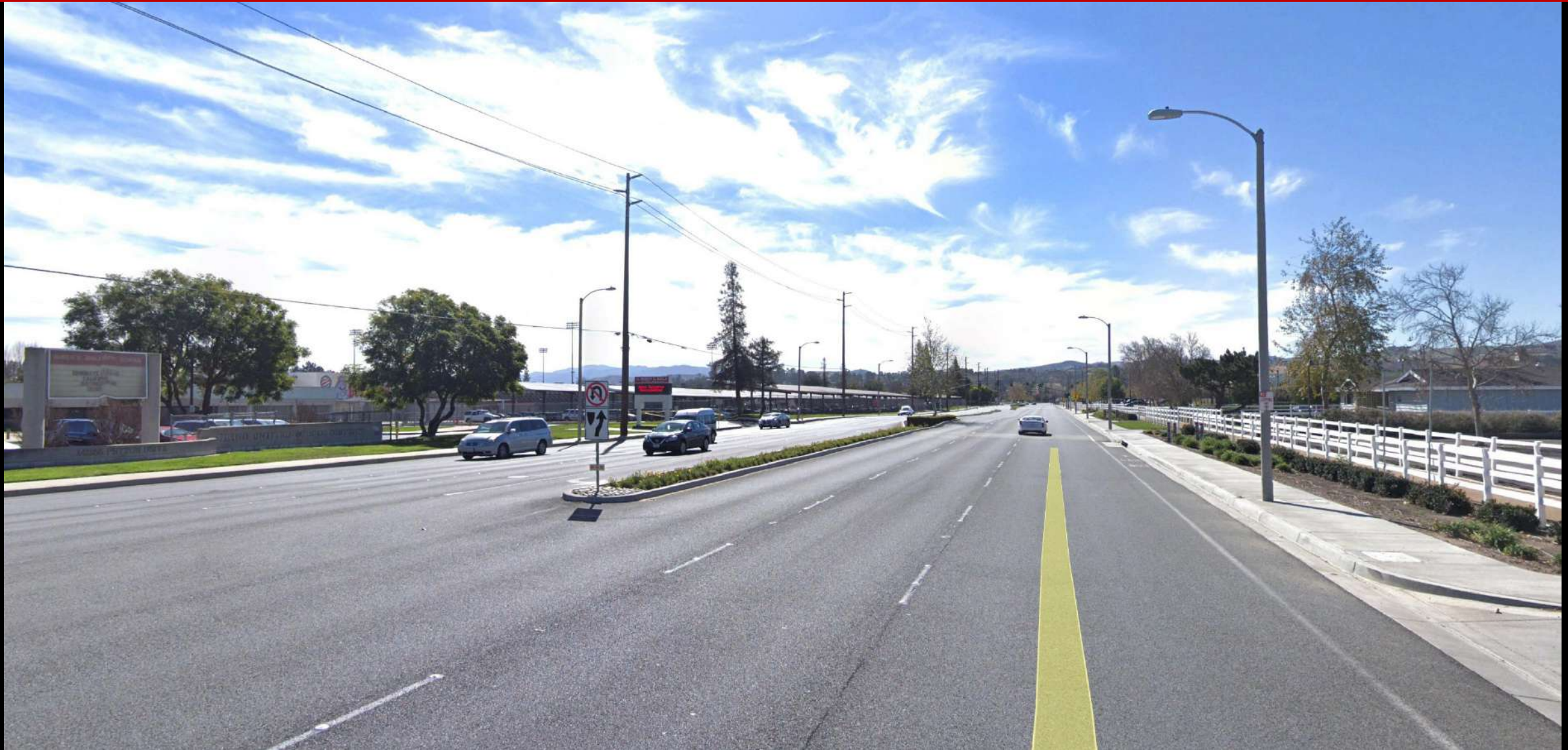


SIMULATION OF BRIDGE DESIGN

LESSON 4-BULLDOG PEDESTRIAN BRIDGE-SITE A STREET LEVEL VIEW



LESSON 4-BULLDOG PEDESTRIAN BRIDGE-SITE B-STREE LEVEL VIEW



PEDESTRIAN BRIDGE PRECEDENTS



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PEDESTRIAN BRIDGE PRECEDENTS



TRUSS BRIDGES



title



MODEL- SITEPLAN



POE COLLABORATION COMMUNICATION CREATIVITY CRITICAL THINKING CHARACTER CITIZENSHIP



MODEL AERIAL VIEWS



POE COLLABORATION COMMUNICATION CREATIVITY CRITICAL THINKING CHARACTER CITIZENSHIP



AERIAL RENDERING



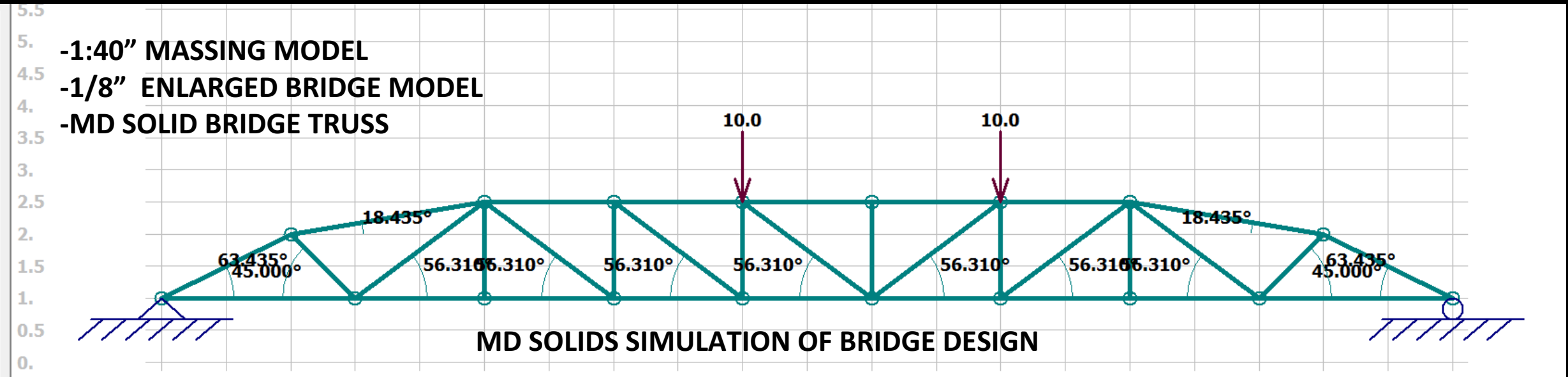
**PHOTOSHOP
FILTER
EXAMPLE-**



AERIAL RENDERING



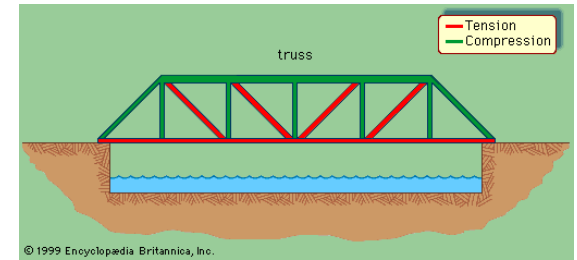
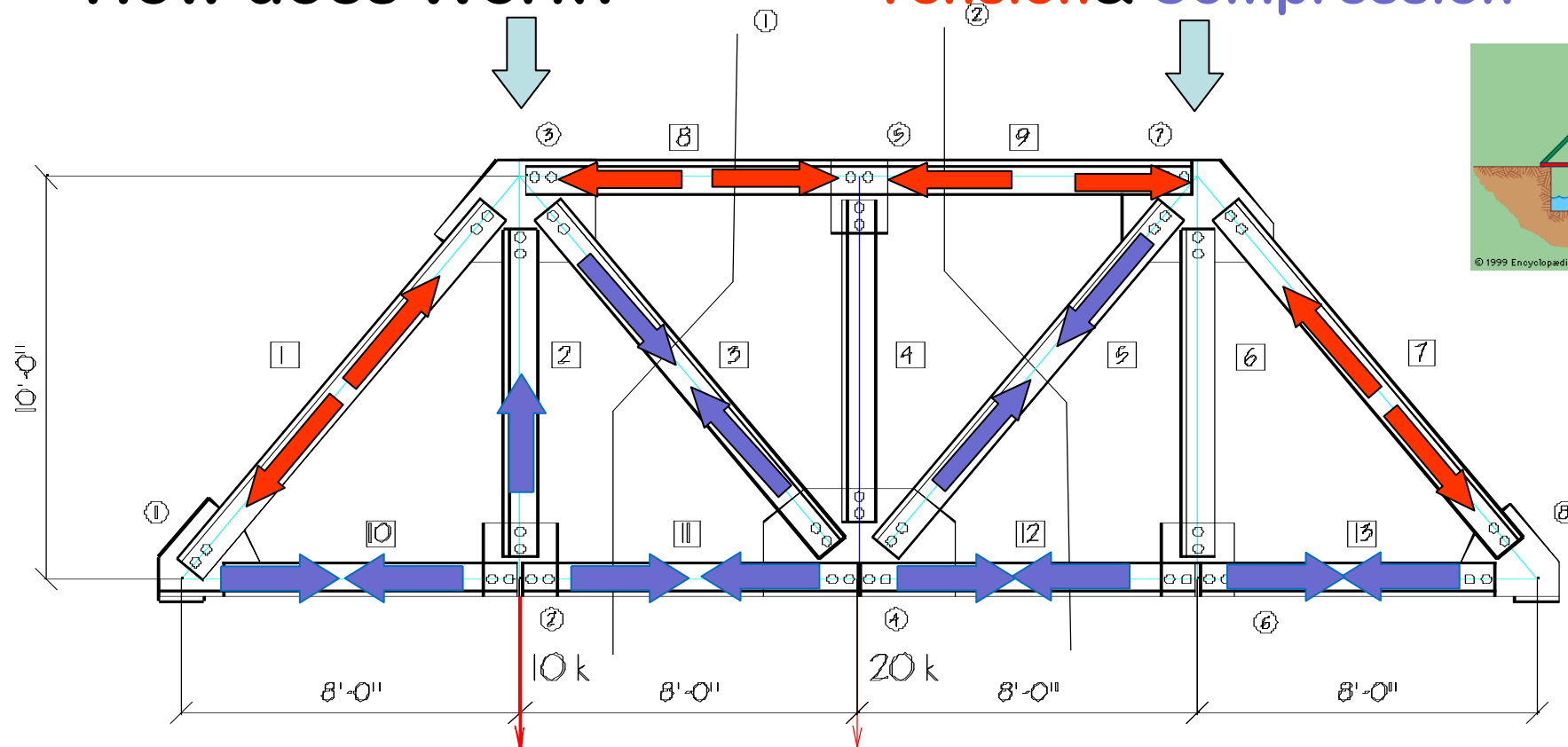
**PHOTOSHOP
FILTER
EXAMPLE-**





- How does Work?

Tension & Compression



PRATT TRUSS