

Project Status Report: CEE-2017CPST-009: HSS Triangular Section Evaluation

Team Members: Chris Macias, Nicholas Smith and Nathan Wainwright

Date: 3/8/18

<div><div>1) Summary of technical/non-technical challenges encountered</div><div><ul style="list-style-type: none">Developing buckling test designs.Uncertainty about torsion tests (waiting on info from faculty).Trying to fit tests into lab schedule.</div></div>	<div><div>2) Team approaches/resolutions to overcome challenges</div><div><ul style="list-style-type: none">Meeting with Dave Anderson tomorrow to finalize buckling fixtures and plate design and discuss testing schedule.Discussions are ongoing about torsion test design.We are continuing to work with Dave Anderson to utilize available lab time.</div></div>
<div><div>3) Status of challenge resolutions & potential project impacts</div><div><ul style="list-style-type: none">We have preliminary design for buckling endplates, and are reviewing designs with Dave. We hope to have final end plate designs for buckling tests submitted tomorrow afternoon.</div></div>	<div><div>4) Project Status & Summary</div><div><ul style="list-style-type: none">We are still running the other FEA tests and will update ATP with comparison results as they are completed.We extracted data from tensile tests and have plotted stress-strain curves for square, rectangle and triangle.We are hoping to start bending tests next week. We will notify ATP of testing times, anyone interested to observe the tests are invited.</div></div>