

ENTRY FORM



DVASE 2018 Excellence in Structural Engineering Awards Program

PROJECT CATEGORY (check one):

Buildings under \$5M		Buildings Over \$100M	
Buildings \$5M - \$15M		Other Structures Under \$1M	
Buildings \$15M - \$40M		Other Structures Over \$1M	✓
Buildings \$40M - \$100M		Single Family Home	

Approximate construction cost of facility submitted:	\$15 Million
Name of Project:	PHL Terminal B Renovation
Location of Project:	Philadelphia, PA
Date construction was completed (M/Y):	December 2017
Structural Design Firm:	Mulhern + Kulp
Affiliation:	All entries must be submitted by DVASE member firms or members.
Architect:	DaroffDesign
General Contractor:	E.P. Guidi

Company Logo (insert .jpg in box below)



Important Notes:

- Please .pdf your completed entry form and email to bsagusti@barrhorstman.com.
- Please also email separately 2-3 of the best .jpg images of your project, for the slide presentation at the May dinner and for the DVASE website. Include a brief (approx. 4 sentences) summary of the project for the DVASE Awards Presentation with this separate email.

- Provide a concise project description in the following box (one page maximum). Include the significant aspects of the project and their relationship to the judging criteria.

The renovation of Philadelphia International Airport – Terminal B is a collection of new and refurbished tenant spaces that are unique in their concept, yet consistent in their aesthetic. The vision for each eatery and retail space within the terminal was developed by the local architecture firm – Daroff Design. As the engineer of record for this project, Mulhern + Kulp was tasked with developing innovative structural solutions to help bring the concepts to life.

Intricate concepts, an aggressive schedule, and on-site constraints (unique to aviation facilities) all demanded an exceptionally creative approach to our structural design. A great example of this is the design involved with Independence Prime – one of eight new restaurants being constructed. The concept for this location called for the removal of an existing superstructure column. In addition to designing a retrofit that could support the existing roof loads, special attention was given to the size of the members to ensure they could be brought in, as well as construction sequence and phasing to ensure the work could be safely completed without closing the terminal.

Independence Prime's design also featured a dramatic wood-slatted "wave" ceiling that was supported by a combined system using both strut and rods, as well as light gauge metal framing. A substructure was designed to support the gravitational load of the ceiling while also seismically bracing it. Meticulous coordination between the ceiling fabricator, existing and proposed MEP/Architectural elements, and the existing superstructure was necessary to layout the final support structure.

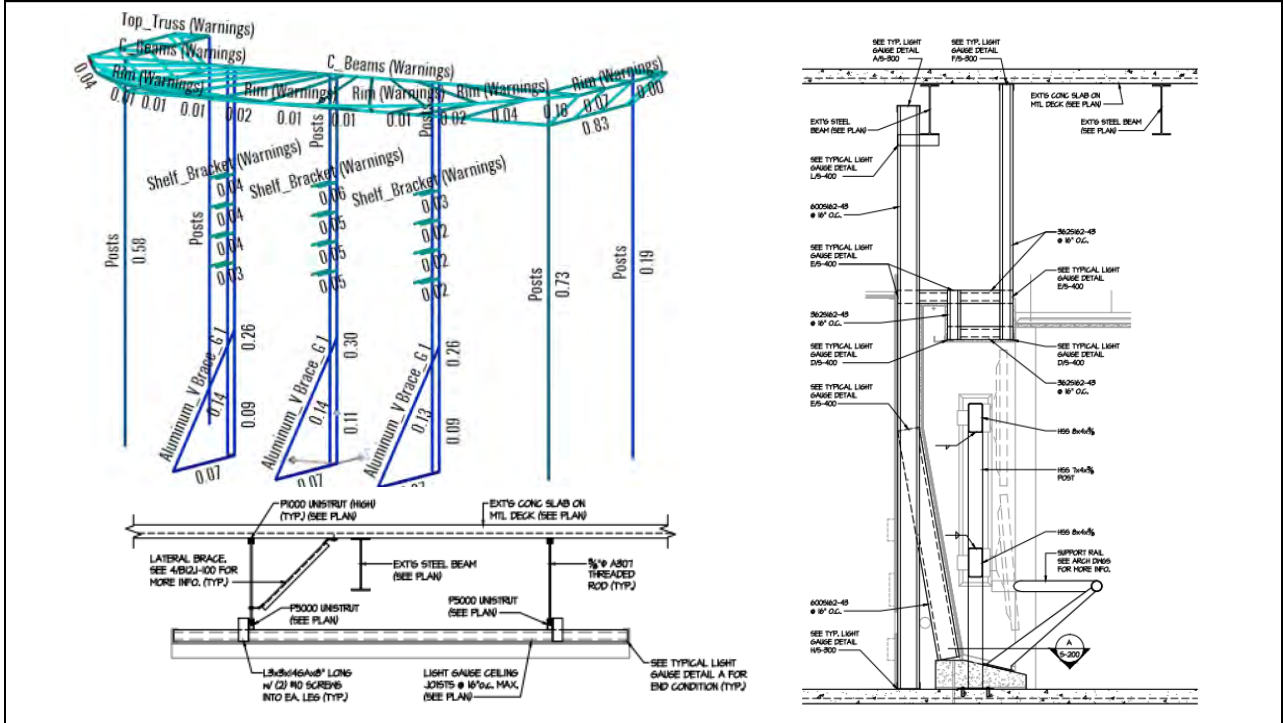
Other interesting components within the terminal renovation include the "cloud" ceilings at Mezzogiorno, which are suspended in a manner that provides the illusion that they are floating; the multi-layered light gauge metal framed ceiling at NooBar; and the aluminum framed awning and soffit at Germantown Biergarten.

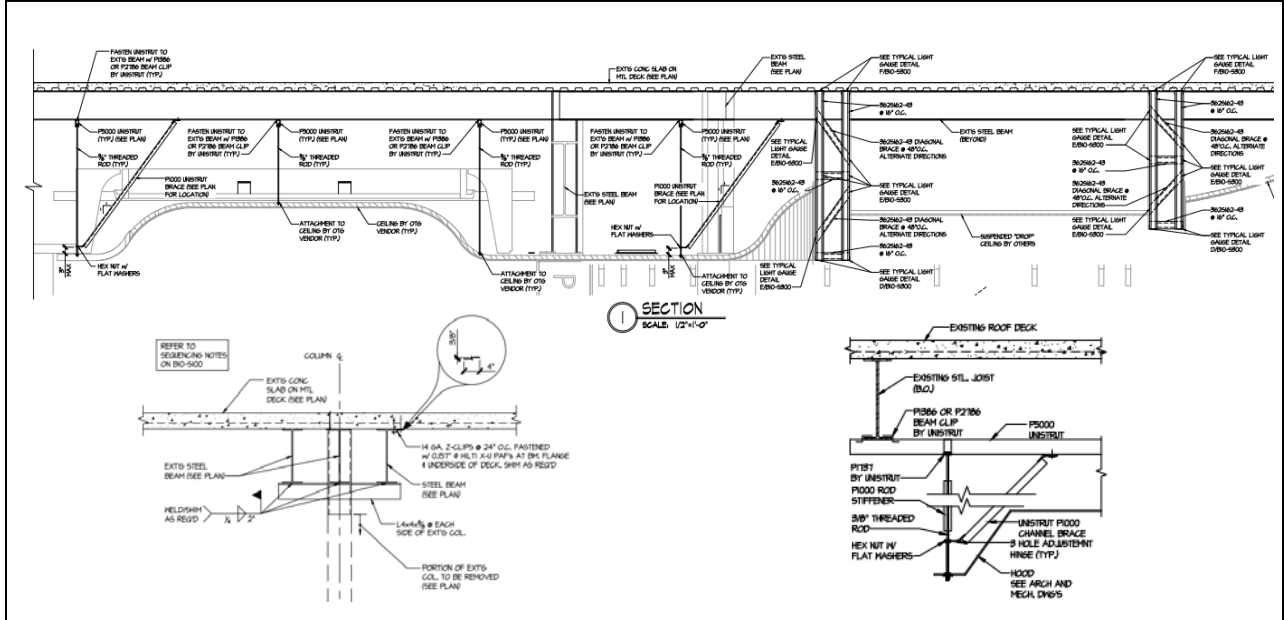
Many of the installations for this project required reinforcing of the existing structure. This posed unique challenges as both the terminal itself, and the office space below the terminal, would remain open and active through the construction phase. This limited access to certain structural members and meant that field welding was often not an acceptable option.

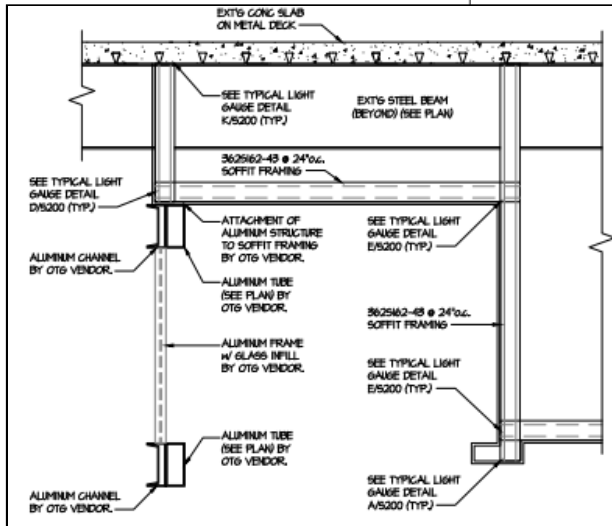
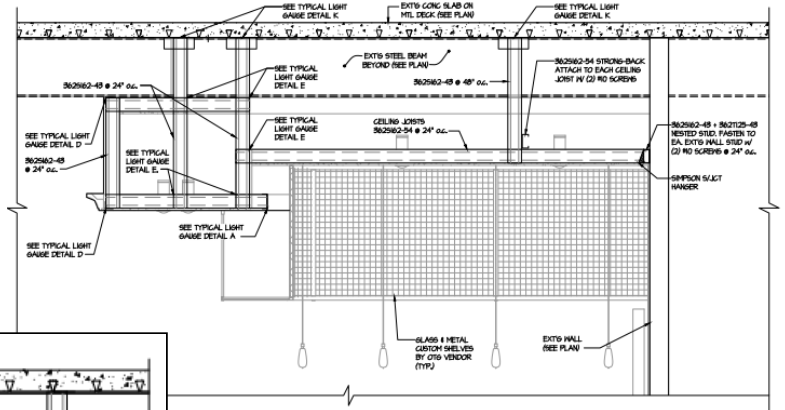
Through our ingenuity of design, and the dedication of the entire design team, each of the ambitious concepts introduced at the onset of this project will be fully realized as they were originally intended.

- The following 5 pages (maximum) can be used to portray your project to the awards committee through photos, renderings, sketches, plans, etc...











By signing, signatory agrees to the following and represents that he or she is authorized to sign for the structural design firm of record.

All entries become the property of DVASE and will not be returned. By entering, the entrant grants a royalty-free license to DVASE to use any copyrighted material submitted.

If selected as an award winner, you may be offered the opportunity to present your project at a DVASE breakfast seminar. Would you be willing to present to your colleagues? ☒ YES ☐ NO

Submitted by:

Print name: Timothy Donahue	Signature: 	Date: 04/02/18
Submitting Firm:	Mulhern + Kulp	
Mailing address:	20 South Maple Street, Suite 150 Ambler, PA 19002	
Telephone: 215-646-8001	Fax: 215-646-8310	Email: TDonahue@MulhernKulp.com