ENTRY FORM

DVASE
2021 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	X	Single Family Home	

Approximate construction cost of facility submitted:	$87 million
Name of Project:	Hyatt Centric Hotel
Location of Project:	1612-34 Chancellor Street, Philadelphia, PA
Date construction was completed (M/Y):	August 2020
Structural Design Firm:	The Harman Group
Affiliation:	**All entries must be submitted by DVASE member firms or members.**
Architect:	DAS Architecture
General Contractor:	Clemens Construction Company, Philadelphia

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.

Hyatt Centric hotel is a 13-story, 175,000 sf, 332-key hotel at the corner of Chancellor and 17th Streets. Amenities include street-level and upper floor restaurants; a fitness center, event spaces, meeting facilities, lounges and a small green roof. There are two levels of underground parking with stackers, including spaces for 220 cars and bicycles.

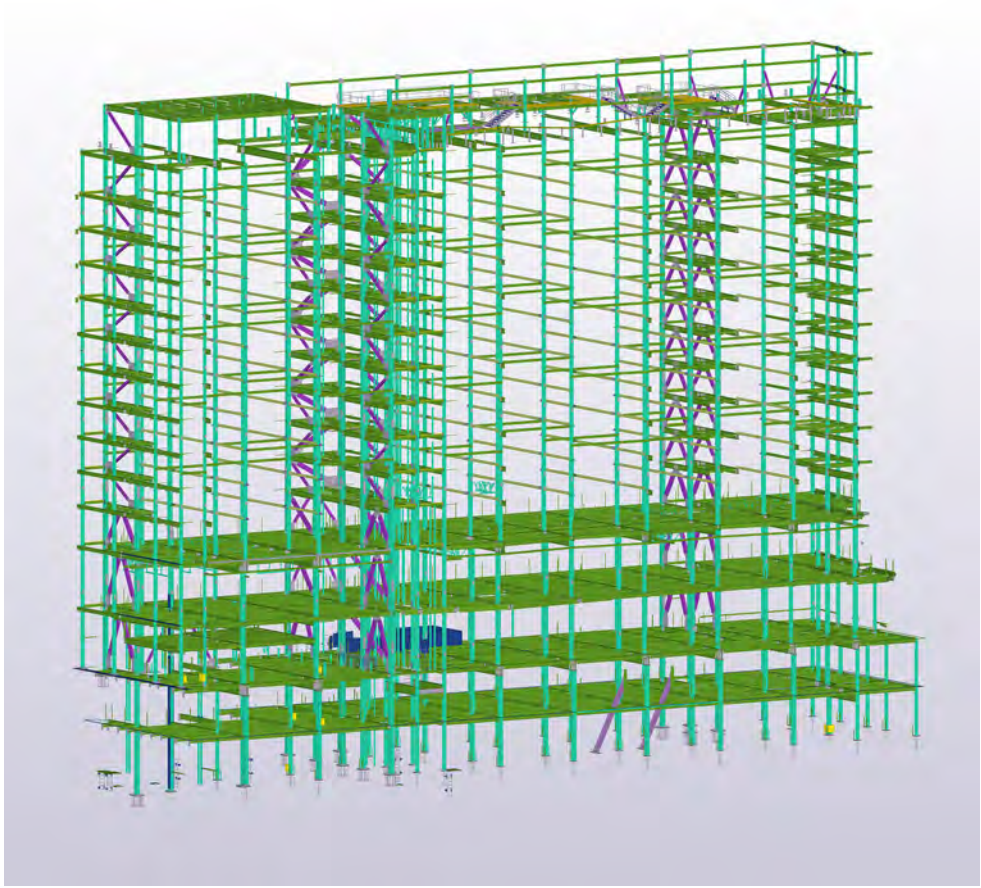
The building incorporates 1,340 tons of steel. The overall width-to-length ratio of the hotel's footprint (57ft by 249 ft) necessitated the use of steel braced frames to provide lateral resistance in both directions. The elevator and stair openings, located in the center of the building, cut off direct lateral load transfer from the diaphragm to these frames. Located below the plank, angle drag struts in an "X" configuration drag the load into the frames. In addition, two large transfer girders at the third floor, one a W40x503 and the other W40x593, provide a large column-free area for the second-floor ballroom, and also support hanging partitions.

For the floor system at the hotel room levels it was imperative for the design team to minimize floor depth at the hotel rooms to allow for MEP systems while maintaining the required clear height. The typical hotel level floor to floor height is 10 feet and the finished ceiling height in the majority of the hotel room spaces outside of the bathroom area is 9ft 4 in, with the underside of the precast plank serving as the ceiling. The more common system of composite on metal deck supported by steel beams would not have worked to achieve the required clearance. As such, the design team turned to a Girder Slab system to frame the floors. The D-beam girders act compositely with precast hollow core plank, providing an overall floor structure depth of 8 in nominal.

The project includes two levels of stacker parking in the 40-foot-deep basement. A composite concrete floor system was selected for cost effectiveness in the basement level up through the third floor. Columns are transferred at the third floor on W26x210 transfer girders to allow for an efficient column layout in the parking levels.

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


United
1-800-TOILETS



Steel fabrication model


HYATT CENTRIC
HYATT CENTRIC

Crème Design / DAS Architects, Inc.

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 is granted 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: **Lea Cosenza, PE**	**Signature:** 		**Date:** **3/26/2021**
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