



ENTRY FORM

DVASE 2020 Excellence in Structural Engineering Awards Program

PROJECT CATEGORY (check one):

Buildings under \$5M		Buildings Over \$100M	X
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:	\$120M
Name of Project:	The Chestnut Apartments
Location of Project:	3720 Chestnut Street, Philadelphia, PA
Date construction was completed (M/Y):	Construction in progress – staged unit turnover scheduled for July 2020 with final completion November 2020.
Structural Design Firm:	The Harman Group
Affiliation:	All entries must be submitted by DVASE member firms or members.
Architects:	SITIO architecture + urbanism (Design Architects) NELCO Architecture, Inc. (Executive Architect)
General Contractor:	Hunter Roberts Construction Group (HRCG)

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 Chestnut Apartments is a 30-story mixed-use residential project on the 1.36-acre site of the old Newman Center building adjacent to The University of Pennsylvania's Wharton School of business. The development integrates 420 luxury apartments with amenity spaces, a sky deck pool, ground floor retail and below grade parking. Vibrant retail spaces front Chestnut and Sansom Streets, and garden courts frame the building within a stately block book-ended by churches and gardens. The development is designed as a "tower-in-the-garden", with indoor-outdoor spaces providing an elegant setting for gracious urban living at the heart of University City.

The building is a cast in place two-way flat plate floor slab concrete shear wall building. Typical residential floor height is 9'-9"; floors 27 through 29 have unit heights of 10'-9" and a pool with roof top amenity level is location on the south end of the 29th floor. Public and amenity areas at the Ground and 2nd floor have floor to floor heights of 15'-0" and 13'-0" respectively.

The Parking / Foundation level incorporates a below-grade stormwater management system below the parking ramp, loading dock and south end Ground floor retail coordinated around drilled pier foundations. The parking level slab is typically a 5" slab on grade, however, the northwest portion of this level which is lower than the parking level slab in the area of the electrical room incorporates an 18" thick pressure raft / mat slab to resist uplift loads for this portion of the slab located below the water table.

The Ground floor level extends to the property line on the west, north and the majority of the east sides and serves as the roof over below grade parking and the electrical rooms and also supports landscaped areas at this level outside of the tower footprint. Area outside the tower footprint at this level was designed for superimposed loads of up to 575 PSF to accommodate larger trees and landscaping elements with soil depths up to 42". Design of the slab also permitted support of the material / personnel hoist, material storage and AASHTO HS20-44 truck loading in these areas during construction.

Between the Ground level and the 3rd floor level, there is a two-story space north of the elevator core separating the 2nd floor level residential units from the amenity spaces. The two areas are connected by a cast in place concrete bridge with glass handrails. The bridge can be accessed by way of a monumental stair that is cantilevered from the concrete shear wall on the north side of the elevator core. At the 2nd floor amenity area there is a steel framed balcony on the east side and egress corridor on the west side covered by a steel framed roof. These areas, termed the "overhangs", are clad on the vertical surfaces with a composite honeycomb stone cladding which consists of a thin finished stone bonded to a honeycomb structured aluminum backup panel.

The façade system for the tower is primarily a slab supported window wall system, however, hand laid brick on cold formed steel backup and curtain wall are used. The west side shear wall of the core is exposed painted concrete and uses epoxy coated reinforcing for durability.

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



Renderings courtesy of SITIO architecture + urbanism







Level 2 bridge looking west



Below ground parking level looking southwest




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:

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