

# 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:	\$60 Million
Name of Project:	Harrison Commons 4
Location of Project:	Harrison, NJ
Date construction was completed (M/Y):	October, 2021 (anticipated completion)
Structural Design Firm:	Mulhern & Kulp
Affiliation:	<b>All entries must be submitted by DVASE member firms or members.</b>
Architect:	Minno & Wasko Architects and Planners
General Contractor:	Katerra Construction

Company Logo (insert .jpg in box below)



### Important Notes:

- Please .pdf your completed entry form and email to [bsagusti@barrhorstman.com](mailto:bsagusti@barrhorstman.com).
- Please also email separately 2-3 of the best .jpg images of your project, for the slide presentation at the annual virtual presentation 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.

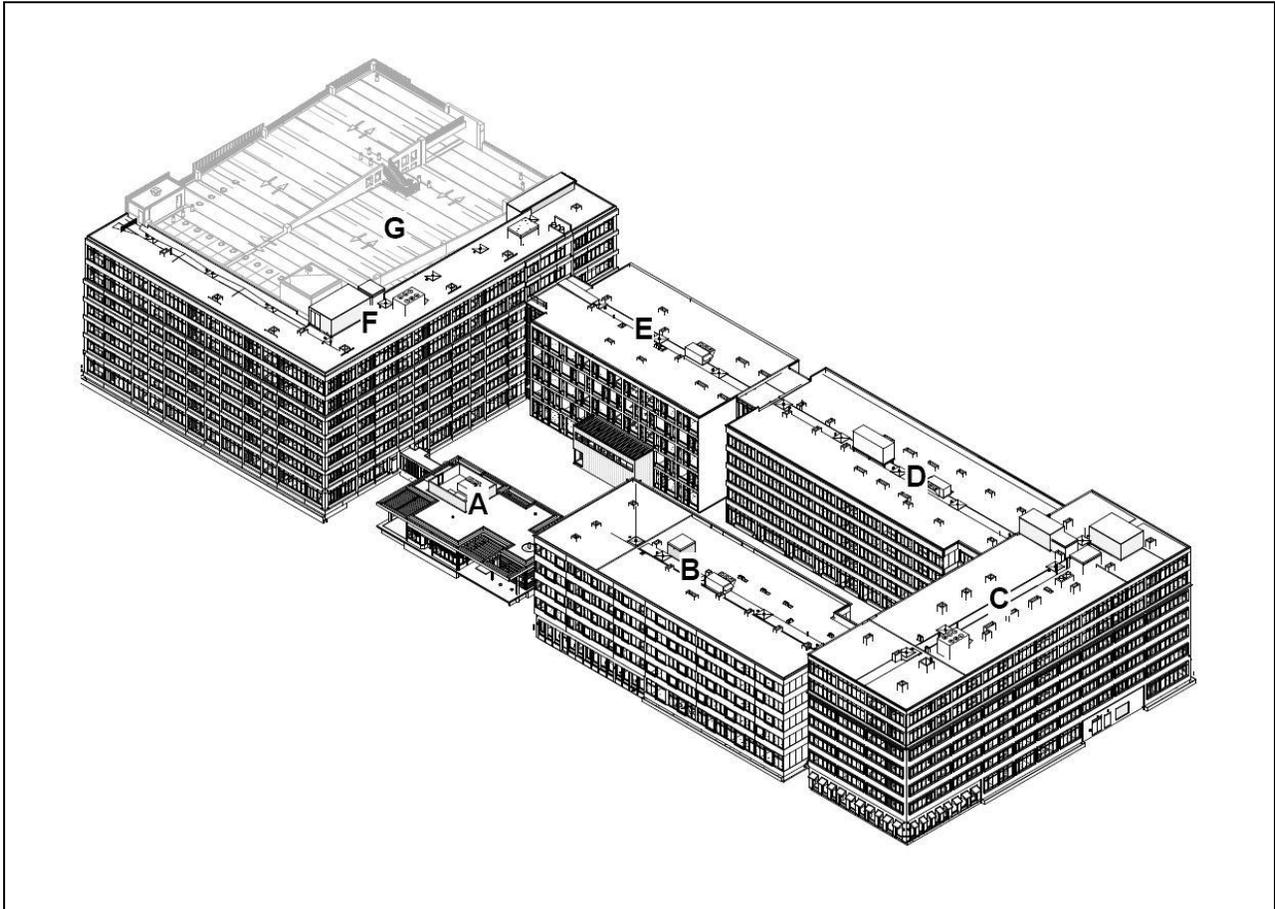
The Harrison Commons 4 project consists of a pavilion building and five interconnected multi-family mixed-use buildings with 381 residential units. The one story pavilion is framed with glulam beams and columns as well as CLT roof panels. Two of the residential buildings are seven stories tall and framed with composite Ecospan floor joists on light gauge metal stud bearing walls. The remaining three residential buildings are five stories tall with 4 stories of wood framing on a composite Comslab deck transfer slab and metal stud wall framing. One of the five story buildings also has a steel framed gym space including a two story basketball court below residential units. Five story "link" structures connect all of the residential buildings so that residents can access any space without exiting the building. Breezeways connect the pavilion to two of the residential buildings. All of the buildings sit on grade beam and pile foundations which utilize both timber and steel pipe piles.

Due to the variability in building heights and occupancy there are a variety of structural systems throughout the project. These including composite joists and decking, metal stud framing, wood stud framing, wood I-joist framing, masonry bearing walls, structural steel framing, wood post and beam framing, CLT decking, and isolated areas of elevated one-way concrete slab. Additionally, the lateral systems consist of wood shear walls, braced frame shear walls, steel moment frames, and concrete shear walls. The "link" structures are free-standing five story moment frames that accommodate both expansion joints and firewalls on either side.

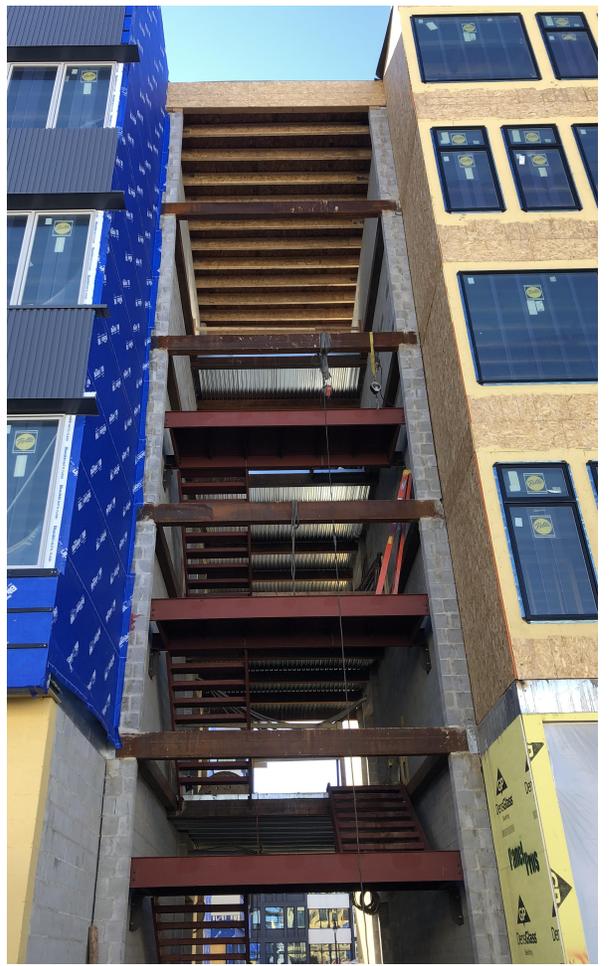
In order to maximize the amenity spaces available to tenants, several key architectural features were accommodated through the use of different structural systems and framing. In particular, the two story basketball court presented a challenge as it is situated in the middle of a 5 story building with residential units on two sides and directly above. The upper floors of the building are primarily a wood bearing wall system with framing spanning no more than 22 feet at any point. However the use of structural steel framing for the basketball court allowed for it to be clear of intermittent columns or walls that would have broken up the space. Additionally, the isolated use of metal stud bearing walls directly adjacent to the court provided the architect with the necessary 3-hour fire rated enclosure to separate the different occupancy categories. An additional non-bearing metal stud layer sits proud of the bearing walls and provides the acoustic insulation to prevent unwanted sound transfer to the residential units.

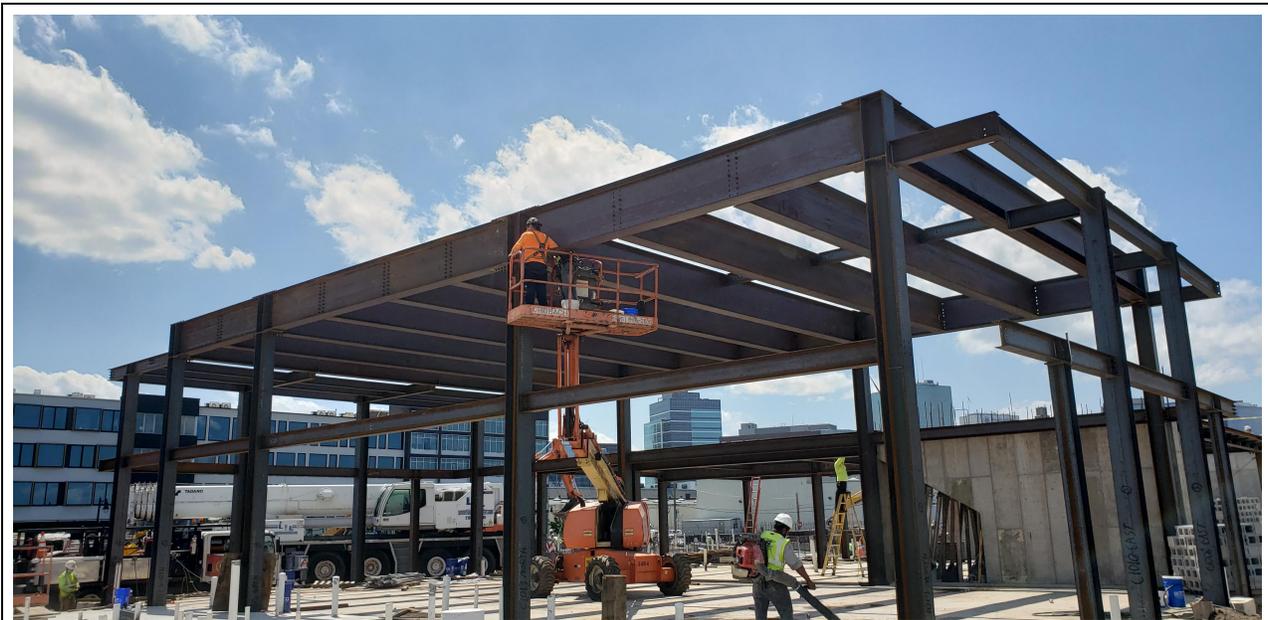
Please list Minno & Wasko as the Architect of Record, Concrete as the Design Architect, and MR Studios as providing renderings

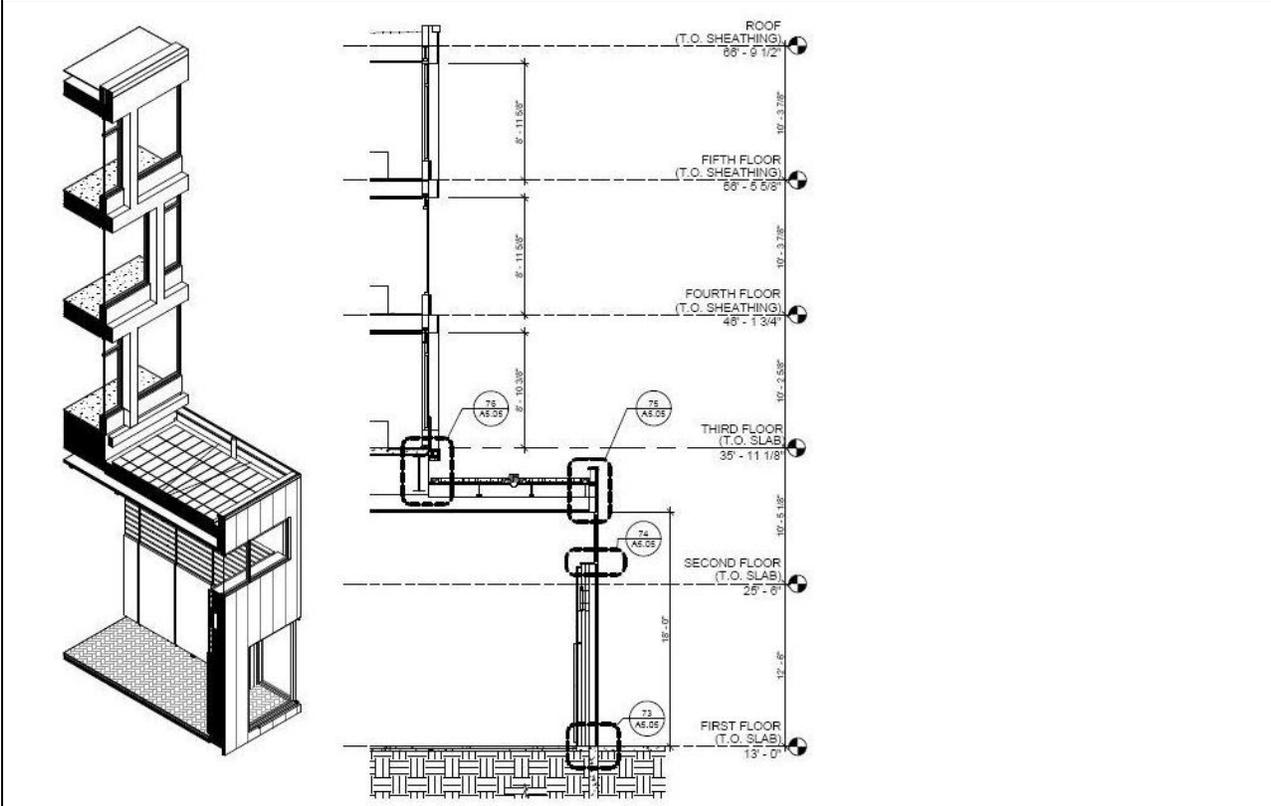
- The following 5 pages (maximum) can be used to portray your project to the awards committee through photos, renderings, sketches, plans, etc...











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:

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