

ENTRY FORM



DVASE 2020 Excellence in Structural Engineering Awards Program

PROJECT CATEGORY (check one):

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

Approximate construction cost of facility submitted:	\$6,800,000
Name of Project:	TEMPLE ANDERSON HALL LOBBY
Location of Project:	TEMPLE UNIVERSITY, PHILADELPHIA, PA
Date construction was completed (M/Y):	CURRENTLY UNDER CONSTRUCTION
Structural Design Firm:	ENV STRUCTURAL (NORR - CALEB SHANK, DVASE MEMBER)
Affiliation:	All entries must be submitted by DVASE member firms or members.
Architect:	ERDY MCHENRY
General Contractor:	P. AGNES

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.

THIS BUILDING FOR TEMPLE UNIVERSITY IS AN INFILL OF THE EXISTING EXTERIOR CONCRETE PLAZA OUTSIDE OF ANDERSON HALL. THERE IS A SLAB-ON-GRADE AT THE LOWER PLAZA LEVEL, A MONUMENTAL STAIR LEADING TO A MEZZANINE AT THE UPPER PLAZA LEVEL, AND A HYPERBOLIC SHAPED ROOF ABOVE THE UPPER PLAZA LEVEL. GLASS CURTAINWALL ENCLOSURES THE BUILDING ON ALL SIDES.

THE HSS12.75X.500 COLUMNS OF THE BUILDING ARE TIED INTO THE EXISTING CONCRETE PLAZA FOR LATERAL SUPPORT. DUE TO THE PRESENCE OF AN EXPANSION JOINT IN THE EXISTING UPPER PLAZA, ONE SIDE OF THE BUILDING IS TIED TO THE UPPER PLAZA WITH SLIDING CONNECTIONS, WHILE THE OTHER SIDE IS TIED IN WITH FIXED CONNECTIONS. LATERAL MOMENT CONNECTIONS ARE USED AT ALL GIRDER-TO-COLUMN CONNECTIONS AT THE ROOF LEVEL.

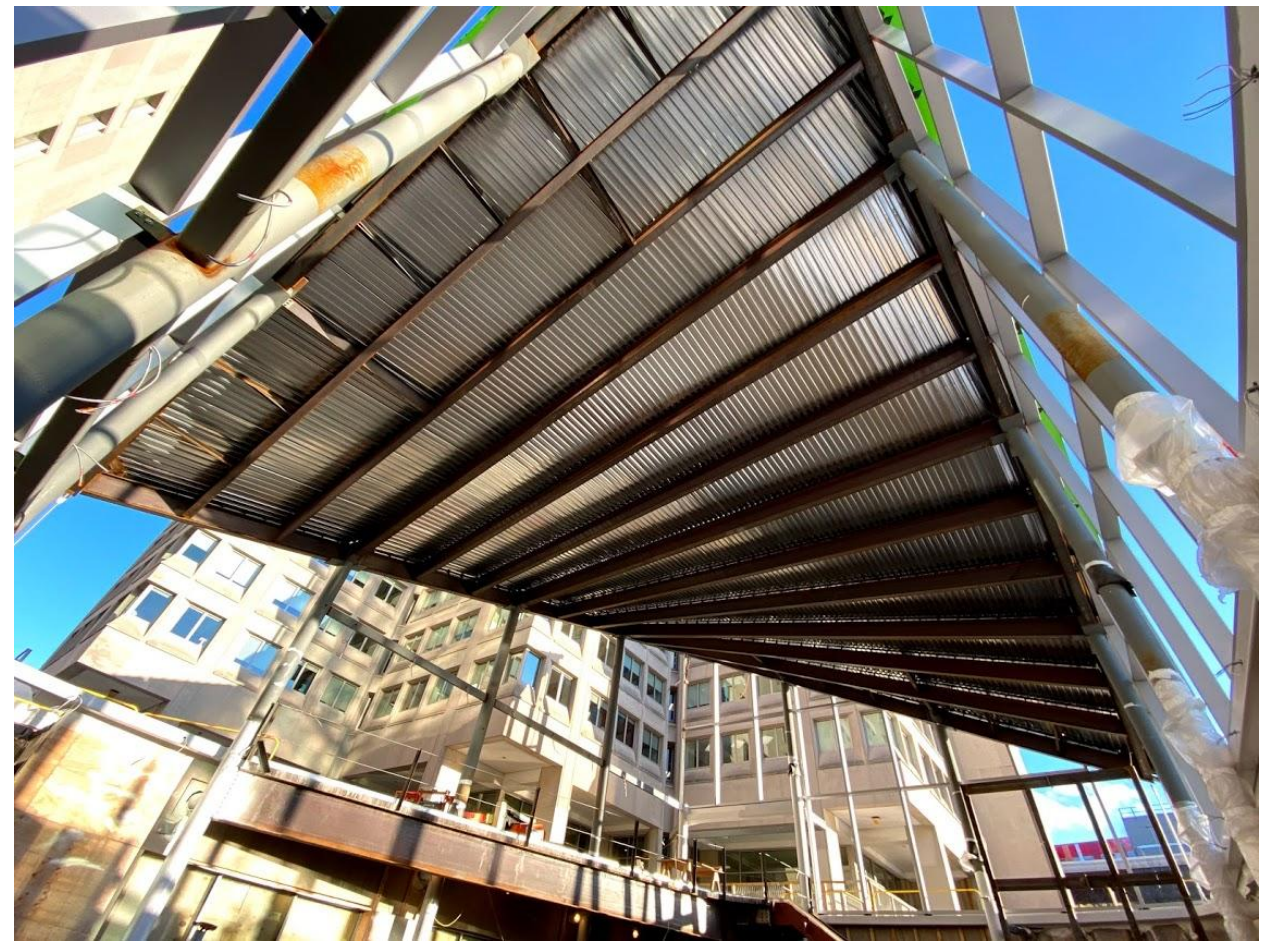
THE ROOF SPANDREL BEAMS SLOPE DRASTICALLY IN OPPOSITE DIRECTIONS, CREATING A HYPERBOLIC SHAPE. HOWEVER, NOT A SINGLE ROOF BEAM IS CURVED. ALL BEAMS ARE STRAIGHT AND SLOPE UNIFORMLY FROM ONE END TO THE OTHER. THERE IS A CONTINUOUS 1/4" WARPED PLATE THAT IS ATTACHED TO THE TOPS OF THE STEEL BEAMS AT 1'-6" o/c WITH CUT WT8x13 MEMBERS. THIS ALLOWS FOR FLUSH ATTACHMENT OF THE 1 1/2" ROOF DECK, WITHOUT HAVING TO CRIMP THE DECK. THERE IS ALSO A SIGNIFICANT GUTTER SYSTEM AROUND THE PERIMETER OF THE ROOF, WHICH IS SUPPORTED BY CANTILEVERED WT6x13 MEMBERS, SUPPORTED ON CUT WT's THAT MATCH THE WARPED PLATE SUPPORT ANGLE.

THE COLUMNS ARE SET BACK FROM THE CORNERS OF THE BUILDING BY ABOUT 15'-0". THE ROOF BEAMS DOUBLE-CANTILEVER TO SUPPORT THE ROOF AT THE CORNERS. PERIMETER HSS8X8 GIRTS SPAN BETWEEN COLUMNS JUST ABOVE THE EXISTING UPPER PLAZA LEVEL TO SUPPORT THE GLASS CURTAINWALL. AT THE CORNERS OF THE BUILDING, A STAINLESS STEEL HANGER ROD IS ATTACHED TO THE END OF THE DOUBLE ROOF BEAM CANTILEVER TO SUPPORTS THE GIRTS AT THE CORNER CONDITIONS.

THE COLUMNS ARE SUPPORTED ON CONCRETE PILE CAPS WITH HELICAL PILES.

THERE IS ALSO A LARGE TV MONITOR BEING HUNG INSIDE THE BUILDING, ATTACHED TO THE EXISTING CONCRETE PLAZA LEVEL. CURVED HSS TUBE FRAMING WAS DESIGNED TO SUPPORT THE TV MONITOR, AND ATTACHED TO THE PLAZA WITH HILTI ADHESIVE ANCHORS.

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



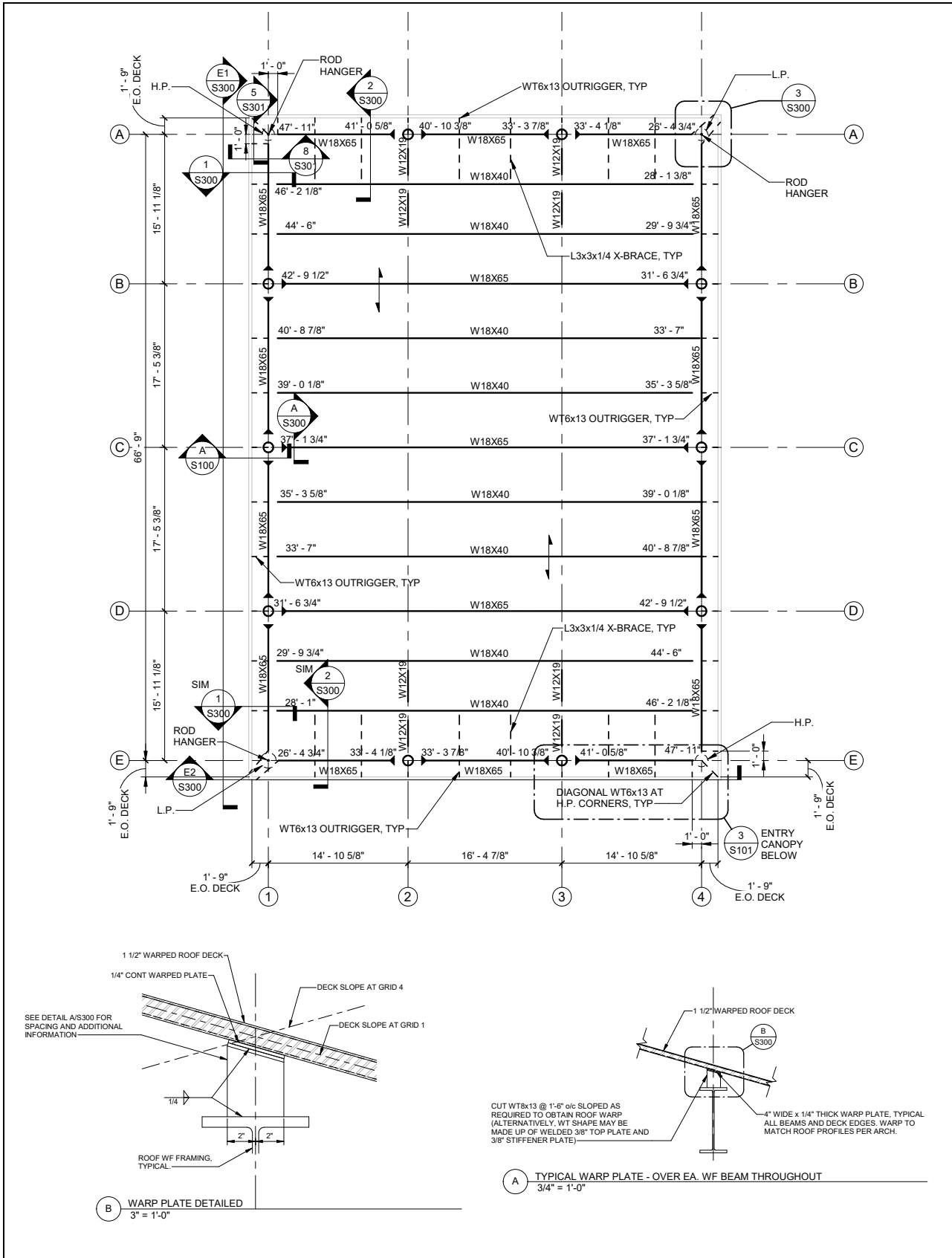


RENDERING #1 (COURTESY OF ERDY MCHENRY ARCHITECTURE)

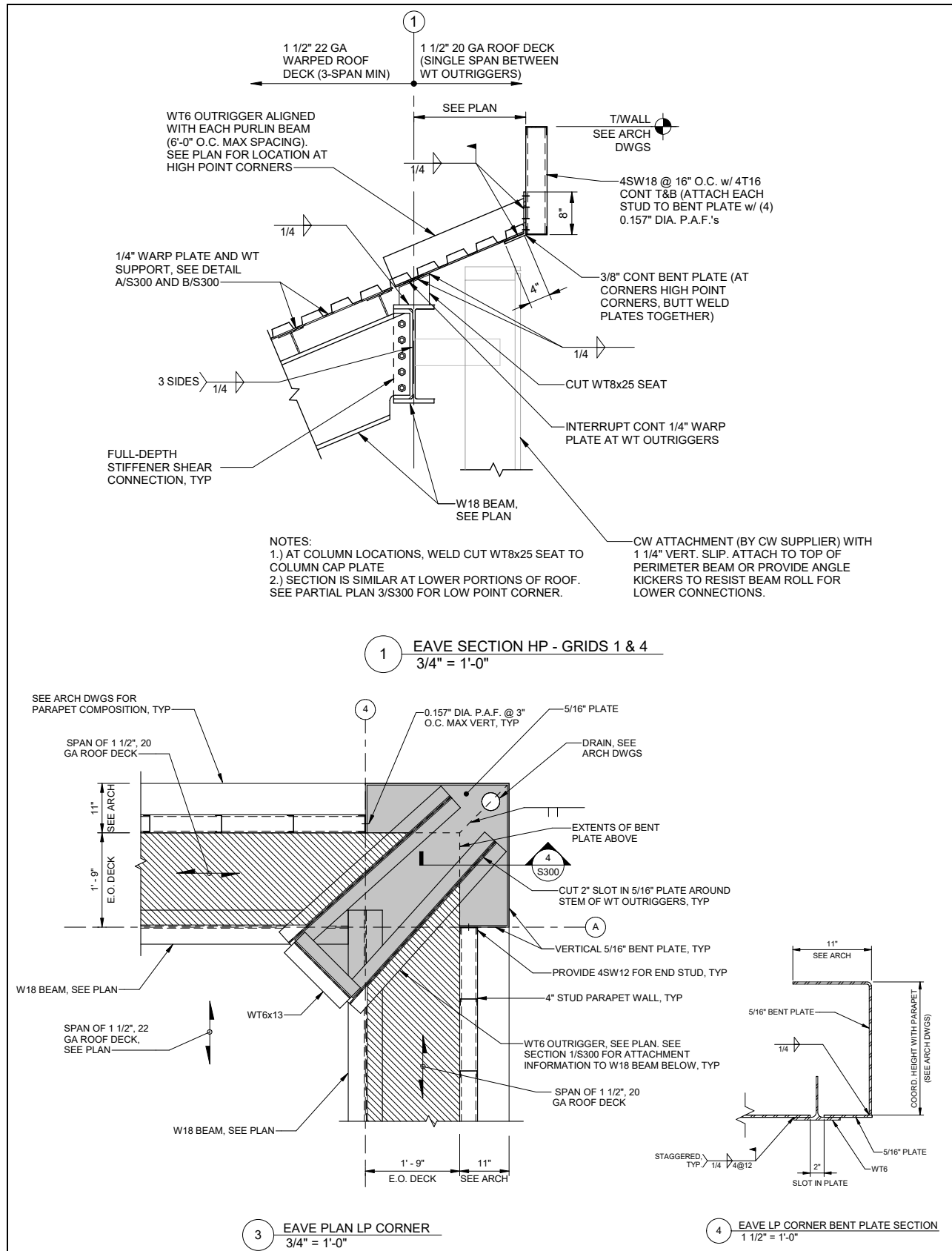


RENDERING #2 (COURTESY OF ERDY MCHENRY ARCHITECTURE)

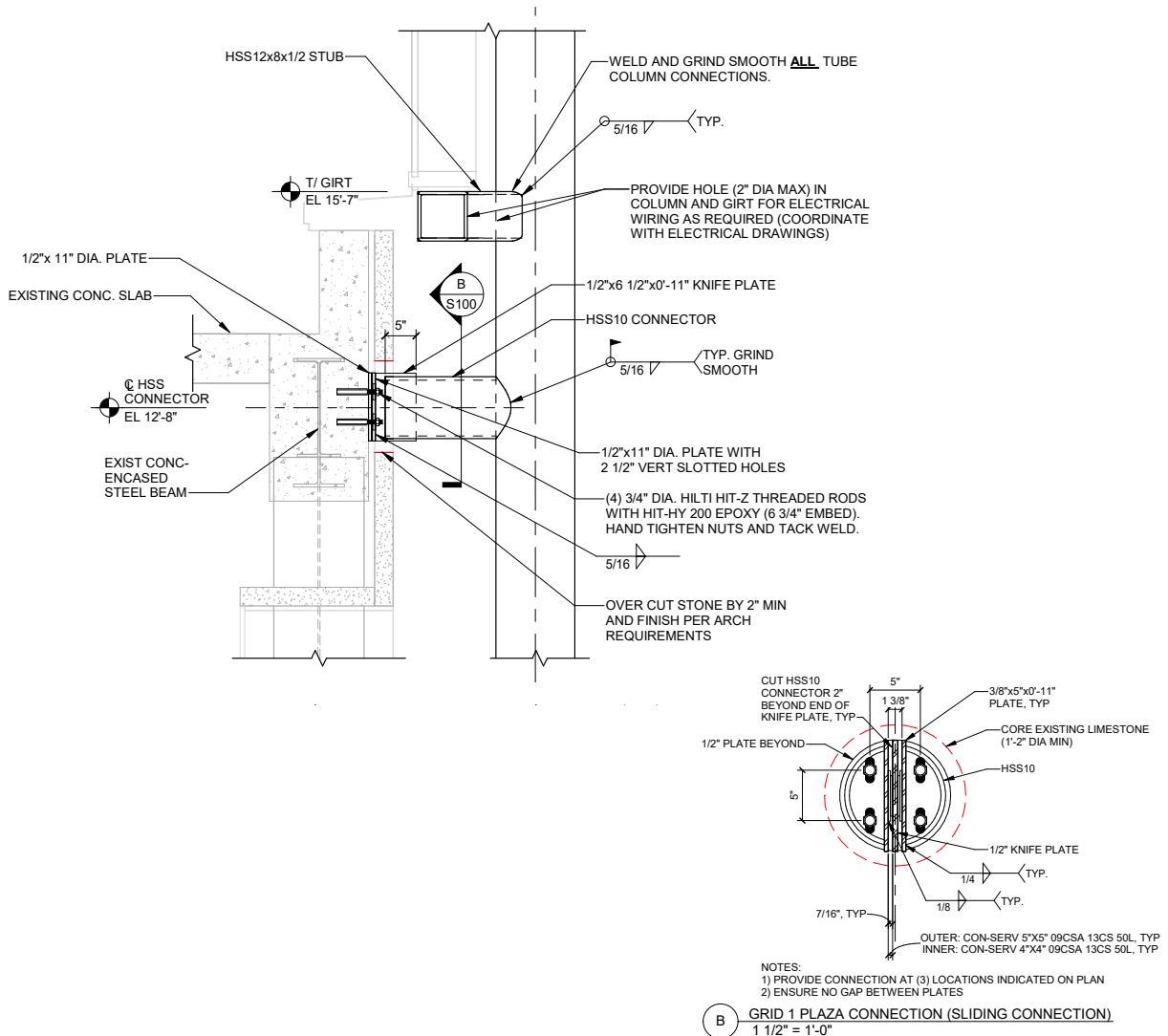
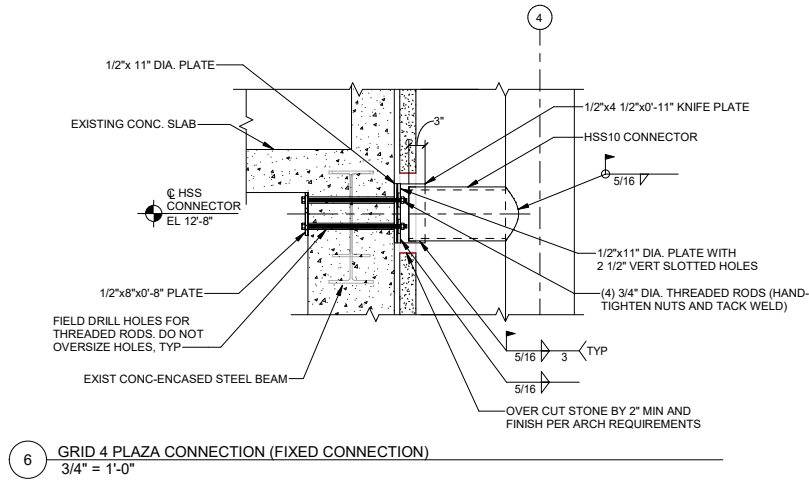
ROOF FRAMING PLAN AND WARPED PLATE DETAILS



GUTTER SUPPORT FRAMING DETAILS



CONNECTION DETAILS TO EXIST. CONC. PLAZA LEVEL




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: CALEB SHANK	Signature: 	Date: 3/24/2020
Submitting Firm:	ENV (Structural)	
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