



An In-Depth Look at an APA Award Winning Project

PORTALS V
ARBAN AND CAROSI
2020 DESIGN AND MANUFACTURING AWARD WINNER

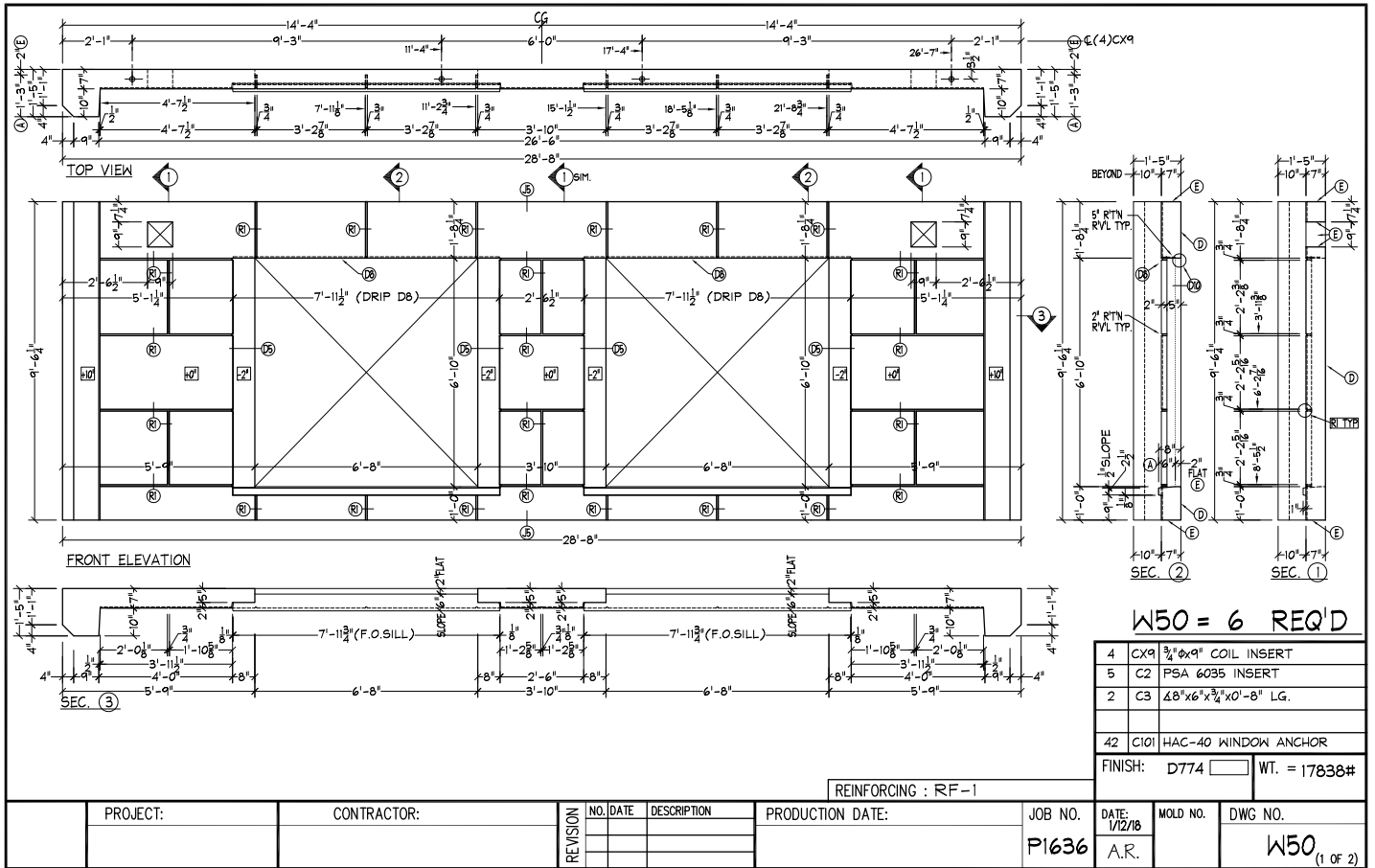
The Portals V is a high-end residential building located in Washington, D.C., at a prominent location at the foot of 14th Street Bridge adjacent to the National Mall. This residential project is located downtown in an area of the city with mainly commercial or government buildings (offices and museums). The project is one of the early efforts to develop this section of the city (between the mall and the river) into more of a mixed-use area. The apartments at this trophy residential project currently have some of the most expensive rentals rates in the city.

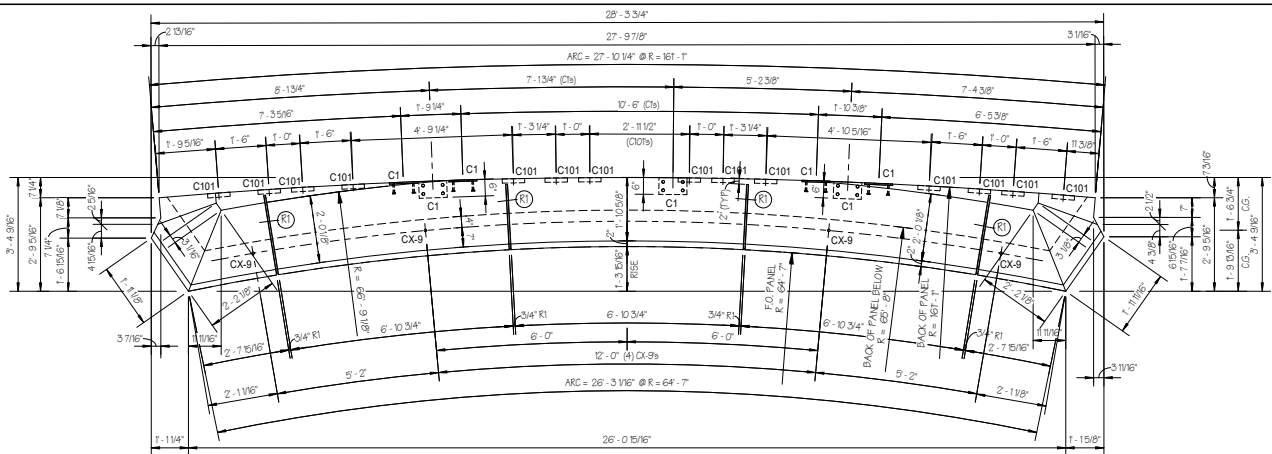
The project, manufactured by Arban and Carosi in Woodbridge, VA, consisted of 140,000 square feet of architectural precast compromised of 1,000 pieces. In order to fit in with the surrounding classic architecture (most of the DC landmarks and government buildings are clad with Indiana Limestone), the building is clad with a

fine acid-wash finish to simulate natural limestone. As the precast is predominant architectural façade element on the building – great detail was taken to hide or minimize jointing and accentuate the simulated stone detailing (using reveals and profiles).

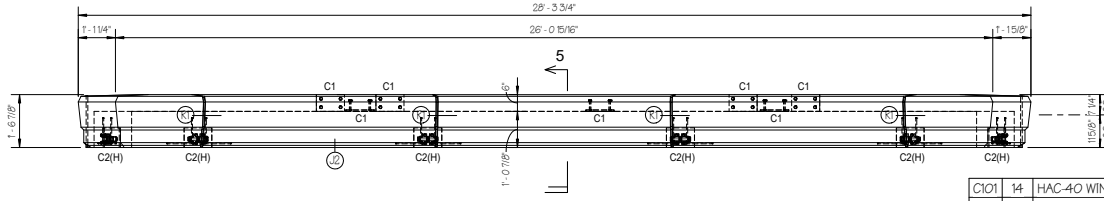
Precast Elements

The project consisted of over 1,000 intricate panels cast off of over 40 molds. The complex included not only profile and reveal work but multiple complex radius panels. All molds were fabricated by created plaster models in order to provide seamless and razor-sharp profiles. The modeling and molding process along with the uniform finish and detailed reveal work provided a perfectly executed simulated limestone finish.





① Top View
3/8" = 1'-0"



② Front View
3/8" = 1'-0"

C101	14	HAC-40 WINDOW ANCHOR
CX-9	4	3/4" dia x 9" COIL INSERT
C1	7	PLATE 1/2" x 6" x 0-10" LG w/(4) 1/2" dia x 3 1/2" HAS
C2	6	F5A 6035
FINISH:	D774	WT= 8418

MARK	QTY
N34A	1

REINFORCING: RF-

JOB NO:	P1636	DATE:	8/21/18	MOLD NO:		DRAWING NO:	N34A (1 of 3)
STT							



PROJECT: PORTALS V
WASHINGTON, DC

CONTRACTOR: BALFOUR BEATTY CONSTRUCTION, LLC

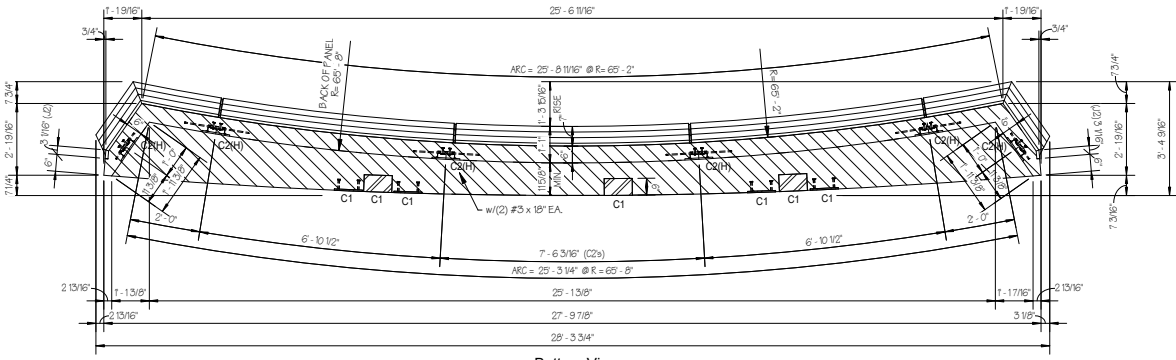
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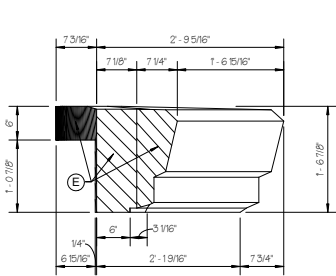
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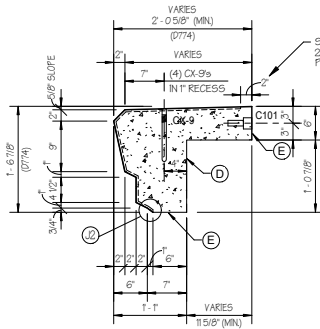
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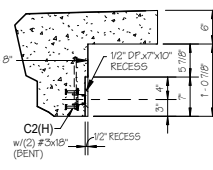
③ Bottom View
3/8" = 1'-0"



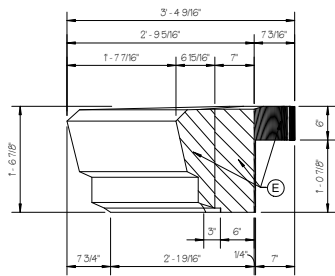
④ Left Side View
3/4" = 1'-0"



⑤ Section A
3/4" = 1'-0"



⑥ Section Thru C2's
3/4" = 1'-0"



⑦ Right Side View
3/4" = 1'-0"



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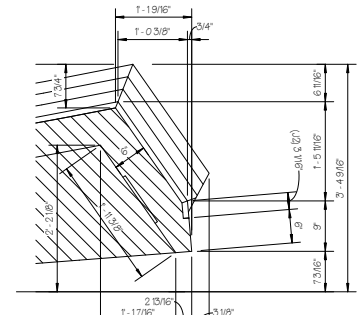
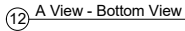
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DRAWING NO: N34A (2 of 3)



9 Section Thru C1's (Bottom of Panel)
3/4" = 1'-0" OCCURS IN (3) LOCATIONS

10 Partial Bottom View
3/4" = 1'-0"





Due to the extreme difficulty of this project and many profiles and increate depth changes, the entire project was modeled (in 3D) to ensure proper fitting and accurate profile alignment as well is coordination with other trade work.

Nick Carosi, president of Arban and Carosi said, "This was without a doubt, one of the more complicated projects we have fabricated in many years. The complexity of many shapes and large number of required molds created a difficulty not seen in many other projects." Arban and Carosi's efforts on this project were rewarded with a 2020 Design and Manufacturing Award.

Project Name: Portals V

Location: Washington, D.C.

Architect: Robert A.M. Stern / WDG Architecture

General Contractor: Balfour Beatty Construction

