



Waterway Car Wash, Parker, Colorado

Waterway Car Wash consists of 13 pieces of 96-inch wide hollow-core floor slabs. Precast hollow-core was chosen as it best addressed the customer's concerns regarding openings in the floor, plumbing penetrations, and the difficulties surrounding installation since the precast hollow-core is able to accommodate openings needed for HVAC and plumbing, as well as two stair openings. Using wide slabs also reduced the number of pieces needed to complete the floor job.

Hollow-core is able to provide the heavy load capacity required for retail on the main level. The space below the floor houses mechanical equipment and requires multiple penetrations. A hollow-core system offers this type of flexibility, and these penetrations are easily installed on site with only minor adjustments for reinforcement.

Long line casting promotes consistent slab properties. Slabs are saw cut to length including angles, notches, and narrow pieces. The casting process is entirely automated, enhancing the consistency and quality of the product.

Project Facts:

Market Segment: Retail
Building Type: Car Wash/Drive Through
Products Used: Hollow-core



Project Design Team:

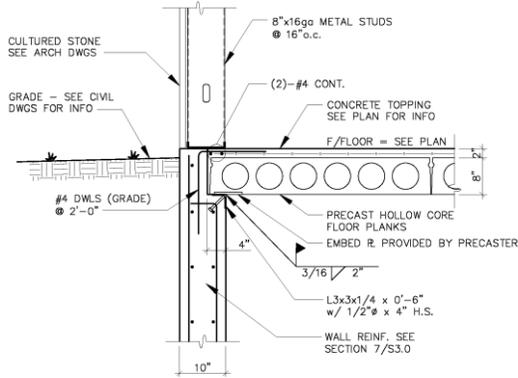
Owner: Waterway Wash, St. Louis, MO
General Contractor: Weitz Construction, Denver, CO
Architect of Record: SP Architects, St. Louis, MO
Engineer of Record: Neujahr and Gorman, Inc., Denver, CO



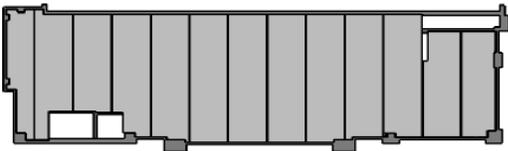
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Large open spaces are created when using hollow-core. Pre-manufactured slabs enable other trades to have immediate access to the covered portion without the obstacle of shoring, common with other methods of construction.



The precast hollow-core accommodated multiple openings needed for HVAC and plumbing, as well as two stair openings.



Hollow-core provided the heavy load capacity required for retail on the main level. This area contained refrigerated coolers, beverage dispensing machines, and retail live loads of 100 pounds per square foot, with clear spans of nearly 30'-0".



The space below the floor housed the mechanical equipment and required multiple penetrations. A hollow-core system offers this type of flexibility, and these penetrations are easily installed on site with minor adjustments for reinforcement.

