

BOB'S DISCOUNT FURNITURE DISTRIBUTION WAREHOUSE



345,000 SQFT addition to distribution center



Open interior with mezzanine



Steel framing nearly complete



Installation of high performance concrete slab

DESCRIPTION:

- The 345,000 square foot addition to a furniture distribution warehouse in Taftville, CT has an open interior with 40 ft high bay warehouse storage;
- Construction consists of a cast-in-place concrete foundation, high performance concrete slab, steel framing, steel and concrete composite slab mezzanine, and metal roof deck;
- An adjacent factory in operation decades ago left contaminated soils on this site. Because of this, most of the excavated material was processed and reused. Special ventilating design features were added to the foundation and slab on grade;
- The slab was placed 700 cubic yards at a time. Due to the type of lifts that will be operating on the slab, a high performance slab was installed. In addition to rebar reinforcing, the slab contains synthetic fiber reinforcing to minimize any cracking. Special reinforcing plates and angles were added to improve construction joints;
- The main framing was a use of stick built steel and pre-manufactured metal building.
- The stick built mezzanine, which covers 57,600 square feet, was constructed from steel beams, bar joists and a composite concrete slab with shear studs;
- The roof framing consists of steel beams, bar joists, and metal roof deck;
- The lateral system is a mix use of moment frames, chevron braces, and diagonal bracing;
- A review of rebar, steel framing, bar joists and pre-manufactured metal building shop drawings was performed;
- Site visits and special inspections were made during construction to verify proper construction practices.