



# CASE STUDY

*New Hampshire Shipping Hub - A Major shipping company is rapidly expanding in its Northern markets. It's warehouse & shipping center needs to expand its capacity in order to keep up with demand. The challenge is to avoid interruption with current business functions and have the new facility operational in weeks. The structure must meet all building codes, withstand the northern winters, and capable of relocating in the future.*

## SHIPPING CENTER EXPANDS IN NORTH WITH THE UPGRADE

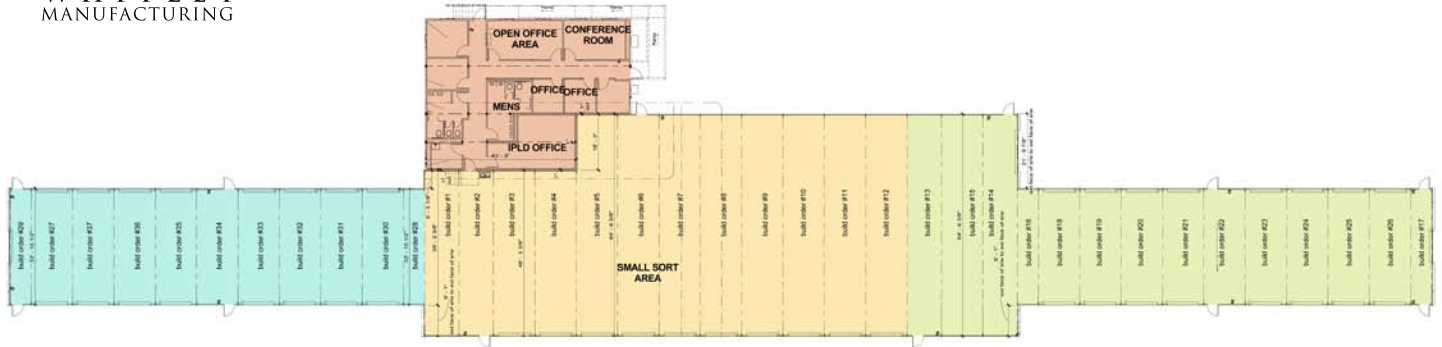
KEY ACHIEVEMENTS
<i>Faster than conventional building; 4 day time-line</i>
<i>Pre-installed utilities, doors, etc., dramatically reduced on-site materials and labor</i>
<i>Entire structure can be relocated to a new site. Capable of multiple moves</i>
<i>Eliminated disruption to existing business</i>
<i>Clear span design with ceiling heights up to 24 ft.</i>
<i>Designed to meet local and state building code requirements</i>

To meet the tight schedule, Whitley Manufacturing designed the 20,000 ft<sup>2</sup> building with it's UpGrade product line. The UpGrade provides a high ceiling (up to 24 ft.), a clear span structure that's delivered to the site as one complete component. It achieves this by a patented design which allows the walls to fold under the roof section (see left photo) and delivered on a flat bed trailer. Its known for fast set-up and the ability to relocate multiple times.

The project would require 41 modules to be built off-site at the Whitley factory. Most of the utilities, lighting fixtures, panels, overhead doors, man doors and insulation were installed at the factory which dramatically reduced materials and tradesman needed on-site.

Once delivered, the modules were crane lifted, allowing the end walls to fold out into position. Each module was bolted down to the slab and mate-lines were closed up and finished. The equipment was installed after the building was set. Only a matter of a four days passed from a bare concrete slab, to a finished, weather tight building (see floor plan for daily progress).

# Warehouse Expansion in New Hampshire



Floor Plan



Front Elevation



**DAY ONE**  
Module 16 through Module 27 were crane set and closed in to complete the main warehouse section.

**DAY TWO**  
Module 28 through Module 41 were crane set and closed in to complete the east wing.

**DAY THREE**  
Module 5 through Module 15 were crane set and closed in to complete the west wing.

**DAY FOUR**  
Module 1 through Module 4 were crane set and closed in to complete the office shell.

## KEY FACTS

**PROJECT NAME**  
WAREHOUSE WITH OFFICE EXPANSION

**LOCATION**  
NASHUA, NEW HAMPSHIRE

**PROJECT TYPE**  
UPGRADE BUILDING SYSTEM

**BUILDING SIZE:**  
20,000 SQ. FT.

**BUILDING UNITS:**  
41 UPGRADE MODULES

**AVAILABLE OPTIONS:**  
LIGHTS, HEATERS & ELECTRICAL  
FACTORY INSTALLED BRIDGE CRANE  
VARIOUS ROOF PITCHES

Doors and utilities pre-installed at the factory



41 UpGrade modules connected to build the new warehouse