

## MANUFACTURING

### Rolls Royce: Remove and Replace Foundation for New Milling Machine. Walpole, MA.

**CLIENT REFERENCE:** References will be Furnished upon Request

**PURPOSE:** Remove Old Foundation and Construct a New 8,750 CF Heavily reinforced Foundation to support a Milling Machine



#### CHALLENGE:

This project was completed in tight quarters. Which required significant advance planning and logistical management as other non-construction activities were also underway. The existing foundations were about 3 ft. deep. The new foundation went down 7 ft. Supporting the existing flooring system and the building, while utilizing heavy equipment to complete the removal and excavation process, presented many challenges. The project also required 50 "jacking pockets" to be strategically located prior to placement of the concrete.

#### SOLUTION:

To complete the removal CCB had to use a combination of Saw cutting, coring and "Brokk" equipment to cut and remove the 8,750 cubic feet of concrete and soil.

Once excavation was complete, shoring the perimeter with steel plates was necessary to support the existing floors. A mud slab was installed over compacted soil and a new concrete perimeter wall extending to the bottom of the new foundation. This was placed prior to starting the foundation work. The new foundation once placed was 7 ft. thick of concrete with multiple matts of # 6 rebar steel reinforcing. Note the 50 jacking pockets being placed in the attached photos. Each one had to be placed to an exact location matching both elevation and grade. The entire project was completed while the facility was fully operational. Thus requiring significant pollution control from equipment, and dust & air management

