

PROJECT REFERENCE DATA SHEET

Project Name	▶ Rehabilitation Building and Hospital	Year	▶ --
Client / Owner	▶ Demolition Client	Design Cost	▶ --
Design Cost	▶ --	Contract Cost	▶ --

Description of Work:

Carvajal Structural Engineers Inc. (CSE) was retained to be the Demolition De-commissioning Specialist for the preparation of detailed demolition guidelines for the complete demolition and partial interior demolition of the historical Rehabilitation Building to accommodate a new building. As well as, help with the restoration of the existing remaining Rehab building and Hospital. The structure that was completely demolished was built in 1922 and occupied 50,000 sq.ft. of surface floor area in a four story building. The demolition process involved 3R demolition which aims to Reduce, Reuse and Recycle as much as the demolition material as possible. Designated substances such as asbestos were abated from the building prior to demolition. Equipment use involved a front-end loader, backhoe and excavator. Demolition activities occurred while the adjacent hospital remain fully operational. The work included the preparation of detailed Demolition Guidelines/Procedures for the complete demolition the building. De-commissioning procedures included:

- Detailed field measurements and preparation of CAD drawings for the preparation of detailed demolition procedures.
- Detailed Site Evaluation of the Existing Facility to document the existing structures and structural conditions.
- Preparation of demolition procedures for demolition permits.
- Detailed analysis of the existing floor for the placement of equipment on suspended floors and roof structures.
- Detailed specifications and procedures to remove interior and exterior precast walls.
- Removal of interior upper floor swimming pool while the floors below remained fully occupied.

Figure/Photographs:

FIGURE 2 - PLAN LAYOUT - TYPICAL BAY SHORING ROOF SLAB

FIGURE 3 - 2ND, 3RD, 4TH FLOOR LAYOUT SHORED CONDITION

SEE GENERAL NOTES DWG NO. D3-01

1.0 SUGGESTED GUIDELINES FOR THE STRUCTURAL DEMOLITION WORK

1.1 ROOF SLAB AND LOWER SLAB DEMOLITION (STRUCTURAL) CAN BE PERFORMED WITH THE ASSISTANCE OF AN EXCAVATOR. SEE ON DRAWINGS D3-01. DRAWING D3-01 PROVIDE SUGGESTED GUIDELINES FOR THE ROOF DEMOLITION AND LOWER FLOORS (CONCRETE FLOORS).

RED SHORING SHALL BE INSTALLED AS INDICATED IN SECTION A-A AND PLAN LAYOUT SHOWN. USE BE SHORING AT ANY GIVEN TIME.

IN THE AREA IMMEDIATELY BELOW WHERE THE EQUIPMENT IS SCHEDULED TO WORK, DEBRIS SHALL BE KEPT AWAY FROM ALL DISCONTINUOUS EDGES (I.E. OPENINGS, STAIRWAY OPENINGS, FLOOR PANELS) ON THE FLOOR SLABS, BUT AT ALL TIMES THE CLEAR DISTANCE BETWEEN THE EQUIPMENT MUST BE 10'.

ADDITIONAL SHORING (ENGINEER SHALL BE ADVISED PRIOR TO THE WORK TAKING PLACE).

DEMOLITION DEBRIS SHOULD BE REMOVED ON A CONTINUOUS BASIS.

EQUIPMENT SHALL BE OPERATED WITH UTMOST CARE TO AVOID IMPACT LOADING SITUATIONS.

PERFORM REGULAR WALKTHROUGHS ALONG THE UNDERSIDE OF THE SLAB TO IDENTIFY ANY CONCERNS WITH SHORING OR CONCERNS BE IDENTIFIED, STOP ALL WORK AND CONTACT THE ENGINEER.

SECTION'S (2 WINGS AND A CENTER HALL). SLAB REMOVALS SHALL TAKE PLACE IN THE DIRECTIONS SHOWN ON DRAWING D3-01.

REINFORCING SHALL REMAIN IN PLACE AND SHALL ONLY BE CUT WHEN THE EQUIPMENT IS 10' OF STEEL BAYS.

REMOVAL OF THE WALLS AS THE WORK PROGRESSES.

BE LEFT BEHIND WITHOUT TEMPORARY LATERAL SUPPORT.

TAKING AREA SHALL TAKE PLACE FROM THE LOWER LEVEL.

NO MORE THAN 1 BAYS SHALL BE LEFT BEHIND.

FIGURE 3 - 2ND, 3RD, 4TH FLOOR LAYOUT SHORED CONDITION

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D3-02

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