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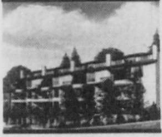
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INTEGRATED DESIGN-THE KEY TO CONSTRUCTION ECONOMY?

WHAT IS "INTEGRATED DESIGN" ? —

THE PROJECT



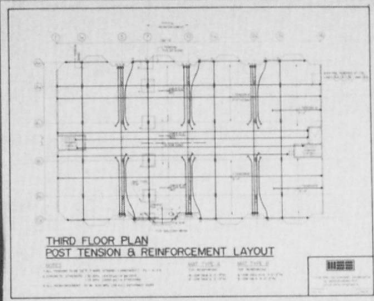
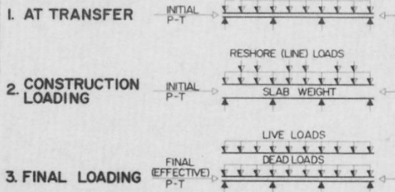
FIVE STOREY APARTMENT BUILDING
DEEP COVE, NORTH VANCOUVER, B.C.

IT IS THE COMBINATION OF DESIGN FOR THE PERMANENT LOADS WITH
DESIGN FOR CONSTRUCTION LOADS IN ORDER TO MINIMIZE RESHORING.

ADVANTAGES OF FINAL DESIGN

1. LESS CONCRETE AND THEREFORE WEIGHT.
2. SIMPLIFICATION OF TRANSFER FLOOR.
3. ONE FLOOR ONLY RESHORED.
4. FASTER COMPLETION OF BUILDING BECAUSE OF FEWER RESHORED FLOORS. (PENALTY CLAUSE)
5. ECONOMY.

LOAD CASES



DESIGN HISTORY

1. ORIGINAL DESIGN - LIGHTWEIGHT STEEL FLOOR STRUCTURE AND STEEL STUD BEARING WALLS.
2. FIRST REDESIGN - REINFORCED CONCRETE FLAT SLAB WITH REINFORCED TRANSFER FLOOR.
3. FINAL DESIGN - POST-TENSIONED FLAT SLAB WITH P-T TRANSFER FLOOR.

