

ELEVATOR EXPERIENCE

Matrix Consulting Engineers have designed many new buildings with elevators from small buildings to high rise buildings, completely renovated and replaced elevators on many different facilities: Below is a list of some recent projects that primarily consisted of adding an elevator to an existing facility and modifying the mechanical, electrical and plumbing systems as required for the new elevator.

St Thomas Church Battle Creek

Addition of an elevator on the outside of the building to extend from basement through the second floor. Re-wrought piping to provide room for elevator addition.

Manistee County Medical Care Facility

Addition of an elevator on the outside of the building to extend from the first to second floor. Re-wrought piping to provide room for elevator addition.

Community Mental Health Authority

Addition of an elevator on the outside of the building to extend from the first to second floor. Re-wrought piping to provide room for elevator addition.

Book Cadillac Hotel

Replaced 5 elevators that extended from the basement to the 31st floor including complete new electrical system.

- Statement of understanding of current applicable elevator codes: (There has been a new code update as of June 21, 2010 that mandate a drain or sump pump when the elevator is provided with Firefighters emergency operation. A new requirement in section 2.2.2.5 is that the sump pump/drain shall have a capacity to remove a minimum of 3,000 gal/hr = 50 gpm per elevator. The MPC, Section 1003.4 oil separators required, mandates the use of an oil separator for hydraulic elevator pits, however there is an exception which states, "An oil separator is not required in hydraulic elevator pits where an approved alarm system is installed. As of this date, Michigan has no approved alarm systems which could be used for this exception.