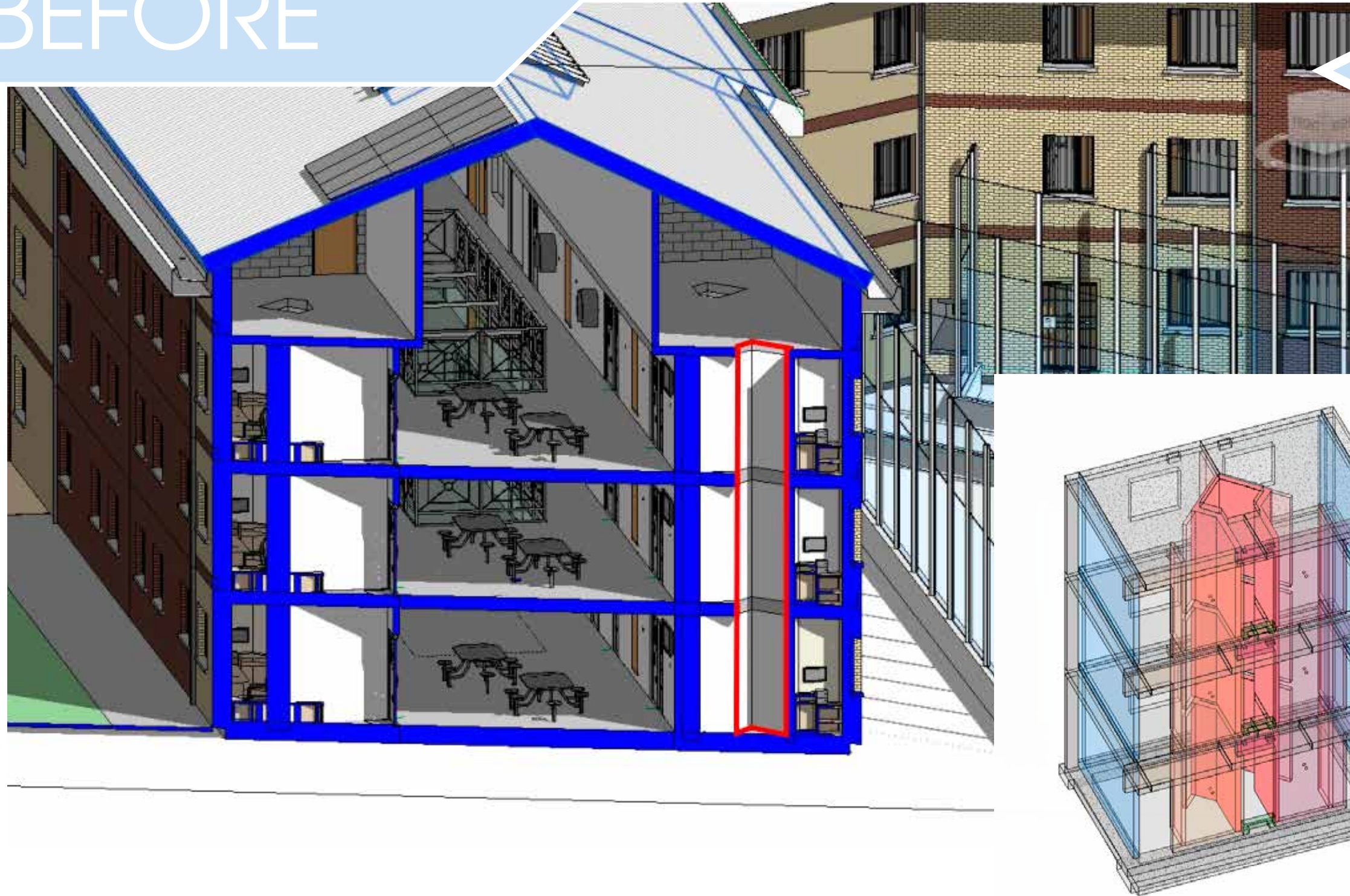


# MSD Design Awards

Client: **Construction & Procurement Delivery (CPD)**

Design and Build Contractor: **Henry Brothers Ltd**

## BEFORE



Challenge of pipework installation in a three storey structure

Manual handling to move and fix pipework into risers involving repetitive pulling (pipework up to 6m long) and awkward postures due to working at height and in a confined area

Significant risks of upper/lower limb and back problems as well as exposure to silica dust, noise and vibration hazards from on-site cutting and drilling of pipework and precast concrete.

## AFTER



Collaborative approach using assembled mock-ups to visualise challenge and trial proposed solutions - involved all parties including those workers involved in installing and maintenance

Off-site manufacture of full height steel riser frame, to which pipework was fitted under factory conditions (clipping system for easier maintenance) - better quality control and testing

Riser lifting points for crane; and access platform to reduce risks from working at height

Eliminated MSD risk from pipework installation; wider health benefits included reduced exposure to noise, silica dust and vibration



*“Excellent innovative off-site solution which not only eliminated or reduced a number of health and safety risks but also the amount of manpower we required on site”*

