hardware was brought to the site for this, although some chalk from the boiler house, the reverb and the sheet metal was also used. The site slab is 4 in. of concrete on building paper on hardcore.

The structural framework is fabricated by welding the beams and stanchions of rolled steel sections into frames on the site. So that all the welding could be carried out down hand, a jig was specially designed for this job to allow each frame to be turned upside down. The complete frame was then picked up by a teleporter crane, carried to its position on the site slab and bolted down. It was then held steady with temporary ties and bracing until angle ties could be welded on at eaves and floor level.

Apart from the assembly hall and gymnasium, the building is constructed of two story frames of 20 ft. or 24 ft. spans placed at 10 ft. 4 in. centres.

Facing frames, built up of 2 in. by 2 in. angle, 3 in. by 4 in. 4 in. by 6 in. plate girders, were welded together into full bay width and two story height on the site and then applied to the main frames at right angles. The facing frames were first bolted with counterbore bolts to the lower flanges of the stanchions at eaves level, floor level, and floor level and by four enameled nuts bolts to the site slab. The fixing of the facing frames was completed by a vertical fillet weld to the flange of the stanchions where the facing frame sits as lateral tension to the structural frame and on the inside level to window mullions and transom and as a fixing to the first floor and eaves.

Where the structural frame changes direction, two stanchions are used at the internal corner. The two stanchions are joined together and sealed by an angle welded to both.

The beams and stanchions were delivered to the site with a coat of aluminium paint. After being welded together, they were retreated with aluminium paint. After creation a coat of red lead primer was applied all over, followed by an undercoat of black bitumen paint. After all was completed a final coat was put on inside and out.

There are two expansion joints in the length of the