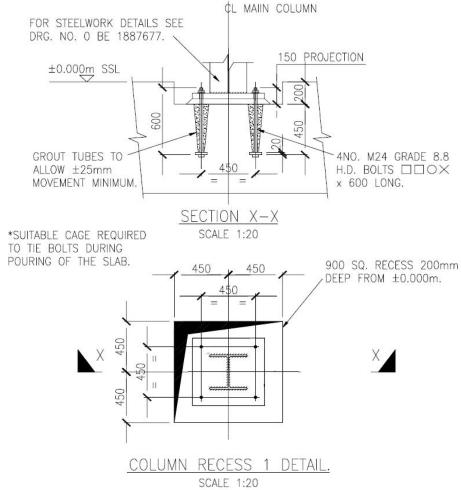
Recessed Holding Down Bolts (Rev A)

The typical detail for fixing structural steel members to concrete foundations utilises a holding down bolt assembly cast into the reinforced foundation (pile cap, pad or ground bearing slab). The bolts project above the slab level and cause a tripping hazard and a potential hazard for people falling on to them. The detail shown below will overcome the problem of projecting bolts.



- <u>Advantages</u>
- 1. Eliminates tripping hazard from projecting bolts prior to steelwork being erected.
- 2. Reduces hazard from people falling onto projecting bolts.
- 3. No projecting plates once the steelwork has been erected.
- 4. Better corrosion protection of base plate as it is encased in concrete.

Disadvantages

- 1. Recessed bases can fill with water making grouting difficult.
- 2. Placing of packs and wedges can be restricted unless there is sufficient clearance around the base plate. A suggested minimum of 175mm but the more clearance the better as fitting packs and wedges is the fundermental to safe erection of columns.

For further Information contact Mr C Hill. Multi Design. Tel 0161 477 0766

Note – All column bases should be designed to be free standing during erection assuming a wind load of Vs = 18 m/s in line with Technical Guidance Note T20.002