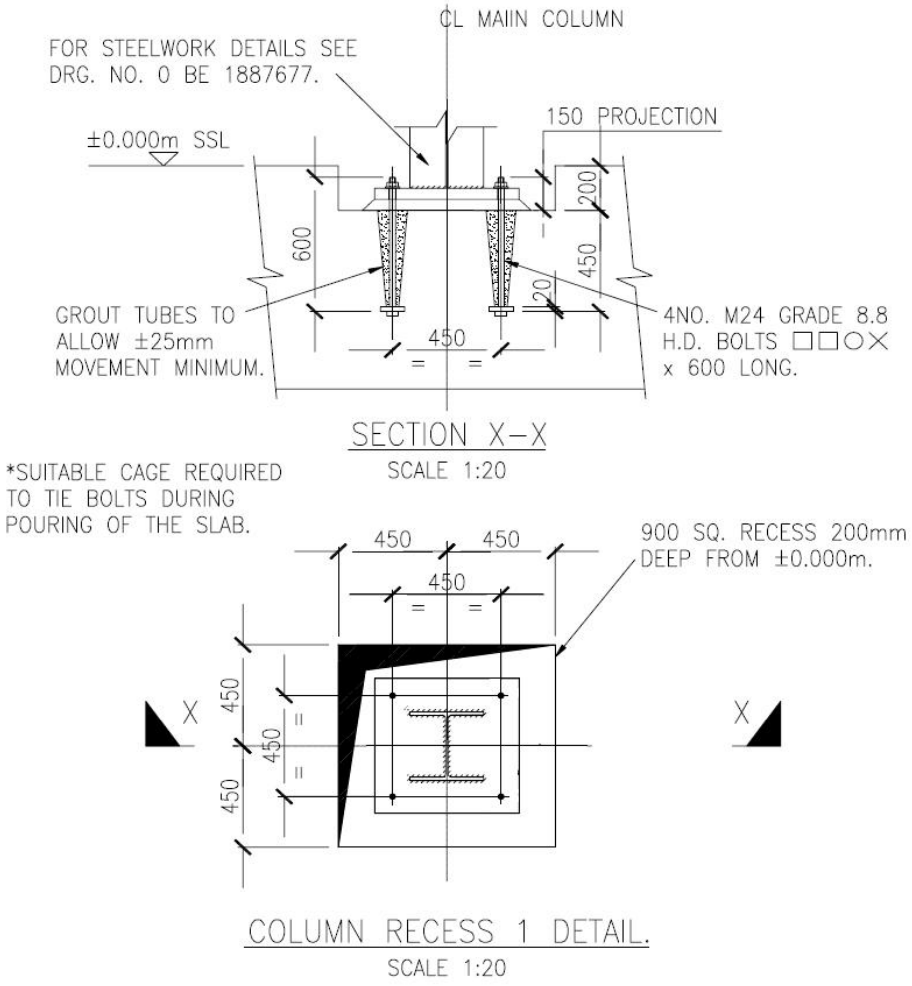
Recessed Holding Down Bolts (Rev A)

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.



Advantages

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