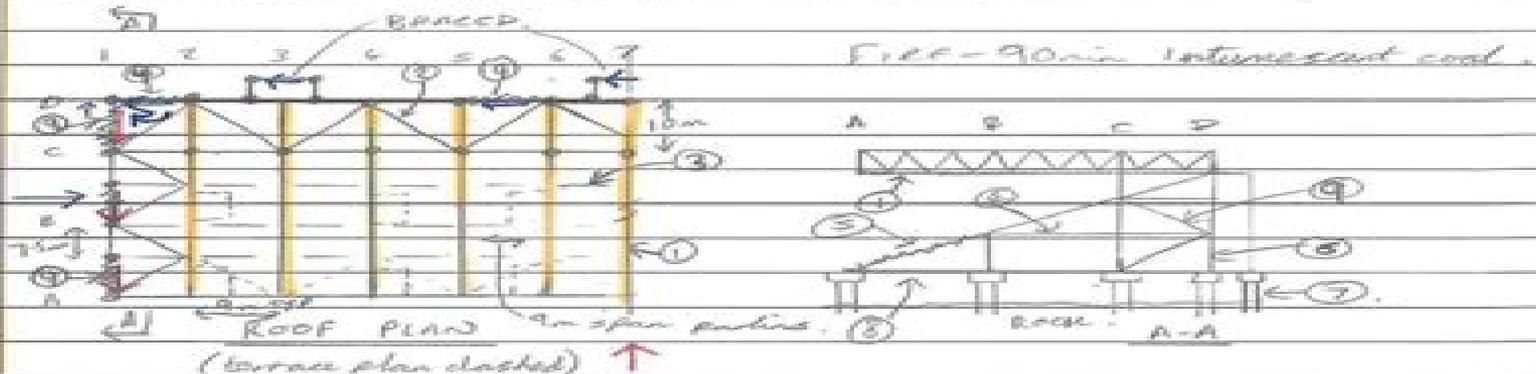


Note that since this example was completed, the IStructE has introduced the requirement to ensure both solutions in this section (section 1a) are also sustainable as well as being distinct and viable

SCHEME 1

FUNCTIONAL FRAMING & STABILITY



- ① The roof is a cantilever truss spanning from grid C and back spanning to grid D (∴ compression in grid C column & tension in grid D). The truss is subject to downward and uplift as each is restrained top and bottom by ties ③. The truss is 5m deep made of SWS sections.
 - ② The roof is braced in plan in both directions for stability to transfer wind to side bracing ⑨ and to restrain the cantilever trusses.
 - ③ Horizontal ties top & bottom of the cantilever truss restrain the chord back to the plan bracing.
 - ④ Internal floors are metal deck slabs (130 duct concrete) onto secondary steel beams span 15m (composite) to 2m span primary steel beams.
 - ⑤ Terrace is precast onto steel racking beams, the terrace is braced for stability.
 - ⑥ IX columns
 - ⑦ Bored precast pile foundations to rock. (good skin friction in sand)
 - ⑧ Ground bearing slab (250 duct) on engineered fill (replace top soil)
 - ⑨ Vertical SWS bracing as shown to stabilize in both direction.
- SEVICABILITY - H/300 & L/250 limits, sawcut joints in ground slab
(L/150 FOR COMPOSITE)
- ROBUSTNESS - 75kN tying capacity min in all connections.
- STABILITY - Braced in both directions, column bases pinned but min 4 HD bolts for stability in construction.

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