

Gulf Knitting & Textile Ltd

121-122 Sataish Road, Gazipura, Tongi, Gazipur

(23.918264N, 90.357766E)

28th January 2015



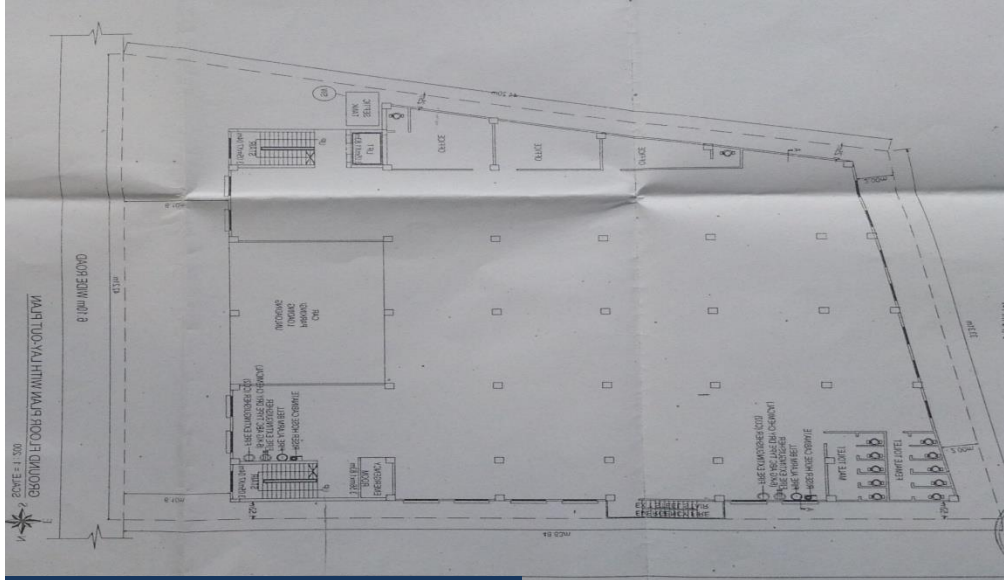
Observations



Large cantilever to front elevation at 3rd Level and above. Sagging of slab noted between cantilever beams



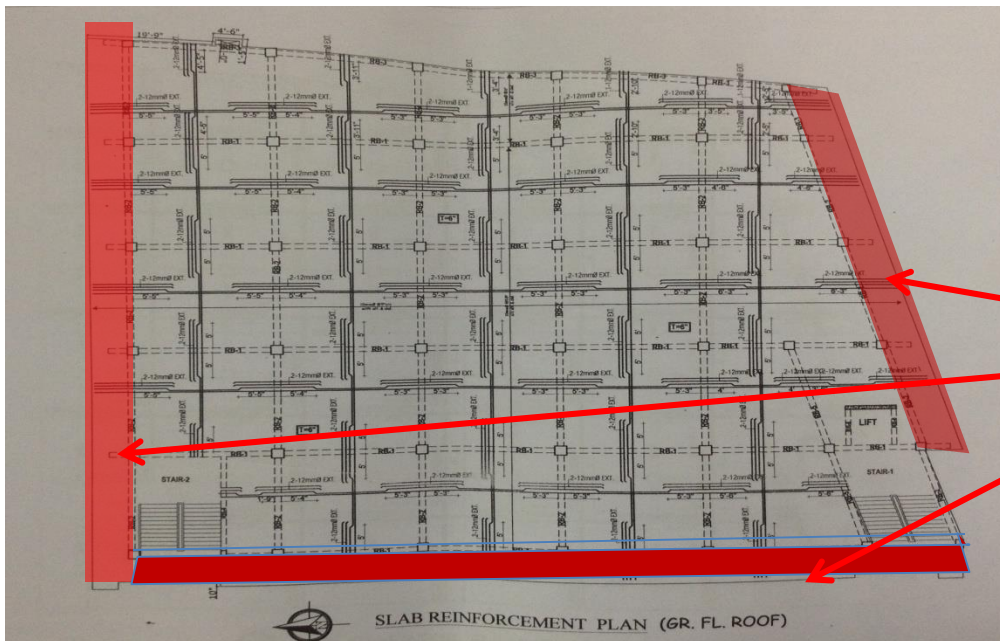
Cantilever at south elevation. Cantilever beam does not go to end. Only slab supports facade for last 300mm of cantilever.



Permit Drawing

Permit Drawings different from Structural drawings:

- No cantilevers shown on permit drawings
- Number of bays different between permit and structural drawings
- Stairs layout and location different in both sets of drawings
- Structural drawings substantially reflect structure as built



Structural Drawing (Typical Floor Plan)

Cantilever portions not shown in permit drawings for Levels 3 & 4



Management of Floor Loads



Uncontrolled loading on roof



Uncontrolled loading on level 3

Non-structural issue - Lack of edge protection to roof

No handrail or guarding at the edges of roof slab.



Non-structural issue - Lack of edge protection to roof

Priority Actions

Problems Observed

ITEM 1: Cantilever slab at front elevation appears to be sagging between beams

ITEM 2: Lack of management of floor loading

ITEM 3: Discrepancies between the structural drawings and the permit drawings. 3rd, 4th and 5th Levels suspended floor plates have been built with perimeter cantilevers

ITEM 4: Crack noted in façade at underside of beam at roof level

ITEM 5: Proposed vertical extension of building

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Cantilever slab at front elevation appears to be sagging between beams	Building Engineer to review design, loads and slab capacity in this area	6-weeks
2	Cantilever slab at front elevation appears to be sagging between beams	Carry out any remedial action necessary from Building Engineer's review	6-months
3	Lack of management of floor loading	Building Engineer to produce and actively manage a loading plan for all floor plates within the factory, giving consideration to floor capacity particularly cantilevers and column capacity	6-weeks
4	Lack of management of floor loading	Continue to implement load plan	6-months
5	Discrepancies between the structural drawings and the permit drawings. 3rd, 4th and 5th level suspended floor plates have been built with perimeter cantilevers	Building Engineer to survey as-constructed building. Updated drawings to be prepared showing the correct as-constructed layout.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
6	Crack noted in façade at underside of beam at roof level	Building Engineer to investigate cause of crack at underside of beam at roof level	6-weeks
7	Crack noted in façade at underside of beam at roof level	Carry out any remedial action from Building Engineer's review	6-months
8	Proposed vertical extension of building	Prior to any additions to the building structure, the Building Engineer shall provide calculations showing the structural adequacy of all columns taking into account any additions to the existing structure, the loading plans and as-built structure, including insitu concrete strength testing.	6-months