

Asrotex Ltd

Batjuri, Natun Bazar, Sreepur,
Gazipur, Bangladesh

23 October 2013



Check required on column loads and design

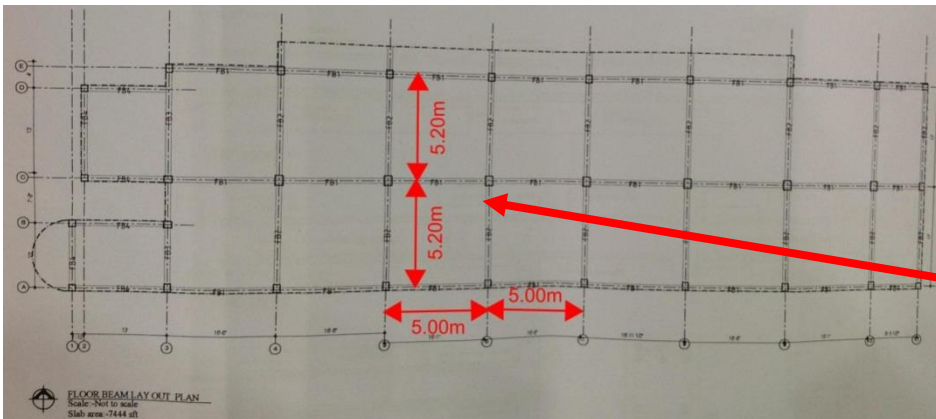


Details of Column				
Name of Column	Number of Column	Colmn Size & M.S.Rod of Col. Sec. of Column (G.F & 1st Floor)	Colmn Size & M.S.Rod of Col. Sec. of Column (2nd & 3rd Floor)	Colmn Size & M.S.Rod of Col. Sec. of Column (4th Floor)
C1	04	Size : 18"x15" Bar : 14-3/4"	Size : 18"x15" Bar : 14-3/4"	Size : 18"x15" Bar : 12-3/4"

Column details according to drawing No. S-05

Column with brick aggregate on roof

Spans between columns



Check required on column load and design

Addition of guest apartment on roof

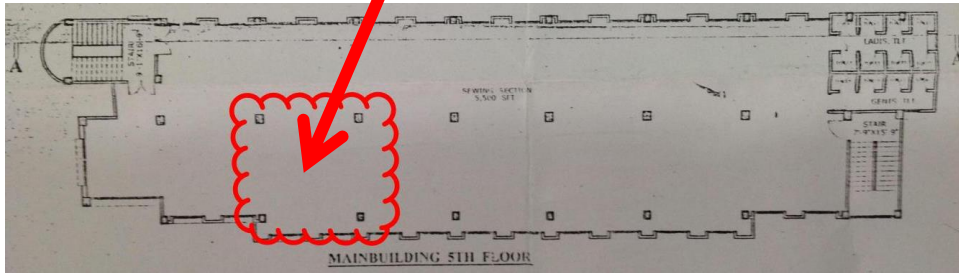


Roof slab to be checked for taking the loading of the walls of the apartment

Addition of guest apartment on roof that does not appear on the drawings

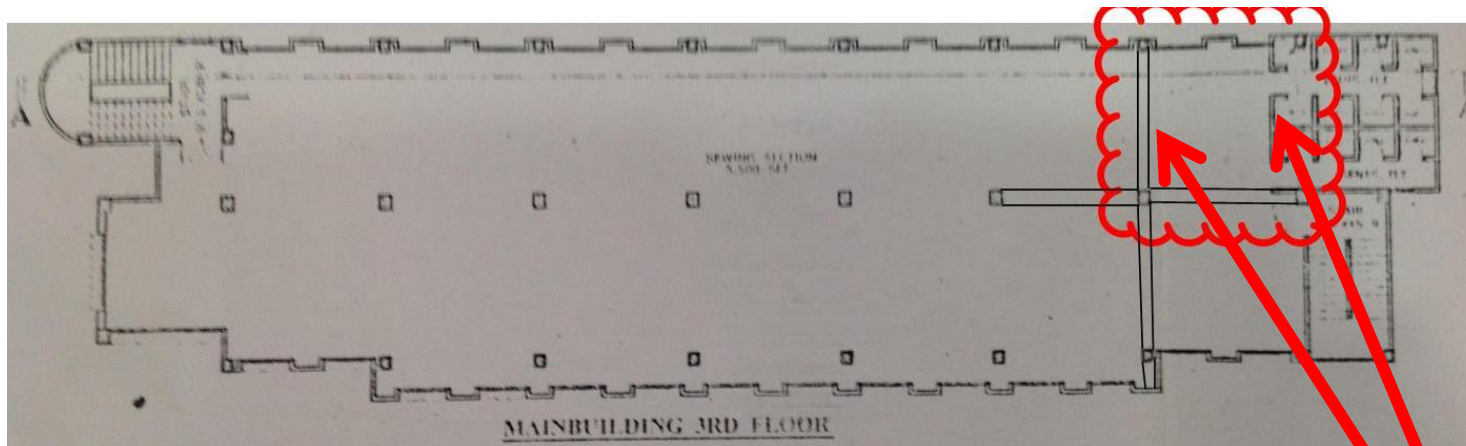
Minor cracking underside roof slab

Roof slab to be checked for maximum allowable loading and cracking investigated



Minor cracking underside roof slab (ceiling of 5th Floor space)

Degradation of beams



Reason for degradation to be investigated and concrete cover to be checked

Degradation of the beam on the last bay on the W side at 2nd and 3rd Floors

Evacuation stair from Shed 3

Escape stair from 1st
Floor Shed 3 to be
checked for full
emergency stair
loading



Evacuation Stair from Shed 3

Lateral bracing in sheds



**Stability Checks required
by building engineer for
Steel Structure in the 1st
Floor of Sheds 3 and 4**

**Lack of lateral bracing to the steel
roofs of the Sheds**

Priority Actions

Problems Observed

- Check on column loads and design required
- Potential insufficient load bearing capacity of the external escape stair to Shed 3 (Embroidery and Printing)
- Addition of guest apartment on roof
- Minor cracking underside roof slab (ceiling of 5th Floor space)
- Degradation of beam (2nd and 3rd Floor)
- Lack of lateral bracing to the steel roofs of the Shed buildings 3 and 4

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Check on column loads and design required	No areas to be used for storage of stacks of 18kg boxes more than 3 boxes high	Immediate - Now
2	Check on column loads and design required	Factory Engineer to review design, loads and columns stresses in area identified above.	Immediate - Now
3	Check on column loads and design required	Verify insitu concrete stresses either by cores or existing cylinder strength data for all columns	Immediate - Now
4	Check on column loads and design required	A Detailed Engineering Assessment of Factory to be commenced, see attached scope.	Immediate - Now
5	Check on column loads and design required	Detailed Engineering Assessment to be completed.	6-weeks
6	Check on column loads and design required	Produce and actively manage a loading plan for all floor plates within the factory giving consideration to floor capacity and column capacity.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
7	Check on column loads and design required	Continue to implement load plan	6-months
8	Potential insufficient load bearing capacity of the external escape stair to Shed 3 (Embroidery and Printing)	Get engineer to check load bearing capacity of external escape stair and provide adequate stability to stair in a proper way.	Immediate - Now
9	Addition of guest apartment on roof	Get engineer to check if the loading from walls of additional guest apartment can be safely carried by roof slab	6-months
10	Minor cracking underside roof slab (ceiling of 5th Floor space)	Get engineer to check the roof slab for maximum allowable loading	6-months
11	Degradation of beam (2nd and 3rd Floor)	Remedy reasons for degradation in beams of 2nd and 3rd floor and check concrete cover of beams affected	6-months
12	Lack of lateral bracing to the steel roofs of the Shed buildings 3 and 4	Get engineer to check stability of steel structure in first floors of sheds 3 and 4	6-months