



HAMS Fashion Ltd

Dakkhin Vanganahati, Sreepur, Gazipur-1740.
(24.193231N, 90.457894E)
28th January 2019

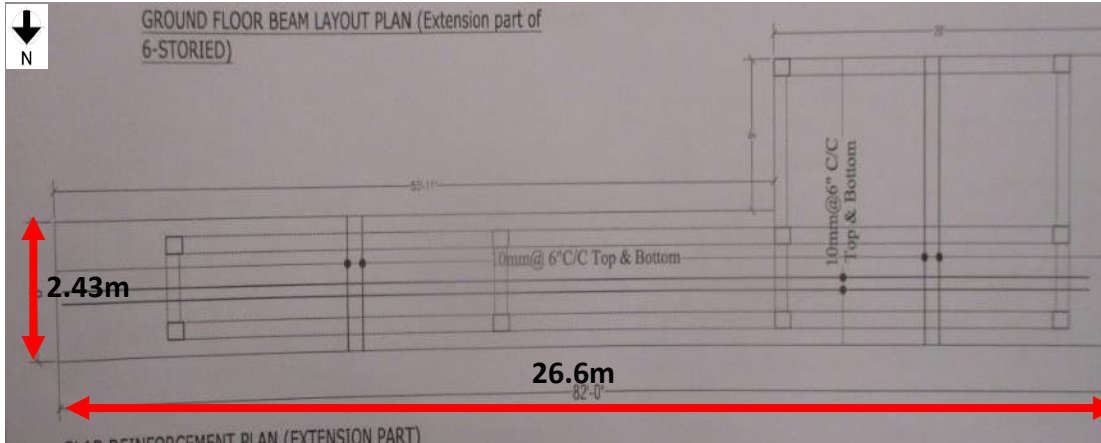




Observations



Apparent lack of lateral stability



Slab detail of Extended part



Columns of short direction

Factory engineer to check lateral stability of the building against lateral load combination for poor aspect ratio. The structural arrangement in tall slender building (ht-11.3m) may result in net tension in structural element.

Observation: Factory Building



Implement floor load management program



Stack of construction debris on 5th floor



Unoccupied 4th floor



Unpacked machineries on 3rd floor

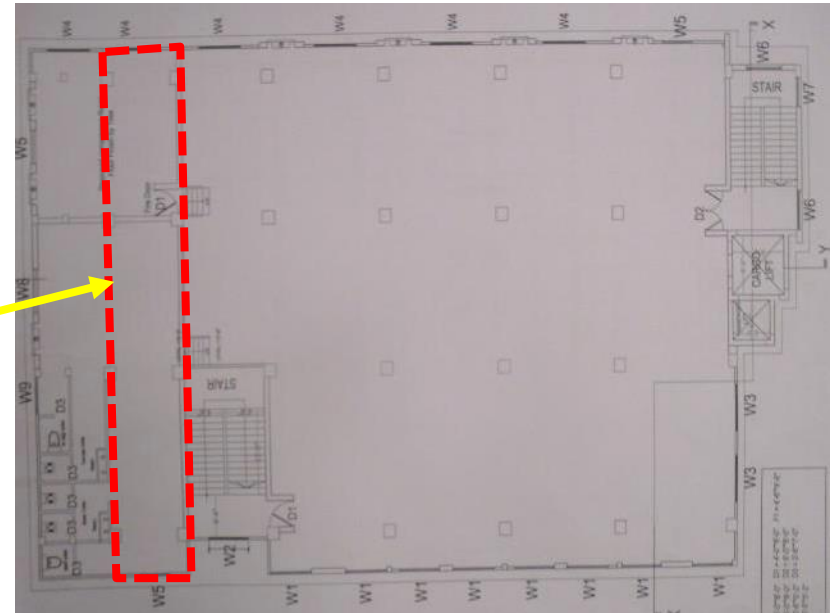
Most of floors were not occupied till the inspection day. Factory is required to maintain floor live load plan and implement load management program (posting the load plan & load height restriction signage) as per its floor loading capacity (5kPa) after occupying the floors. Follow the load plans for all floors and make sure that the workers understand the loading requirements.



Lack of information in As-built drawing



Different slab height on 1st floor



Floor plan of 1st floor

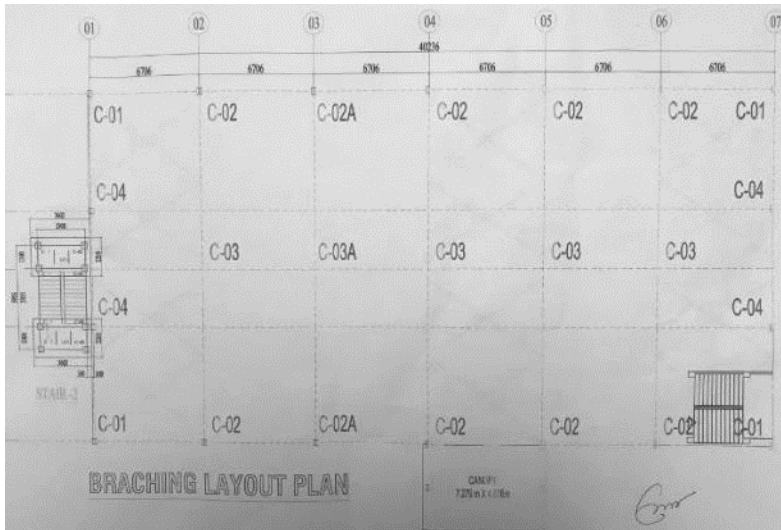
Different height floor slab with beam was observed on 1st floor but no detail was found in as-built drawing. Factory is required to update the as-built drawing to show the elevation difference.

Observation: Factory Building



Design Report required to be reviewed by Accord

Observation: Printing Building



Roof bracing layout in Retrofitting drawing



Bracing shown in Render view of analysis model



Improper welding was observed in retrofitting location on rafter on various location

On site roof bracing matched with retrofitting drawing but not with analysis model. In addition, most of the welding on retrofitted section were appeared to be improper. Factory is required to revise the design report according to on site condition and include the remediation plan for the improper welding and submit to ACCORD for further review.

Observation: Printing Building



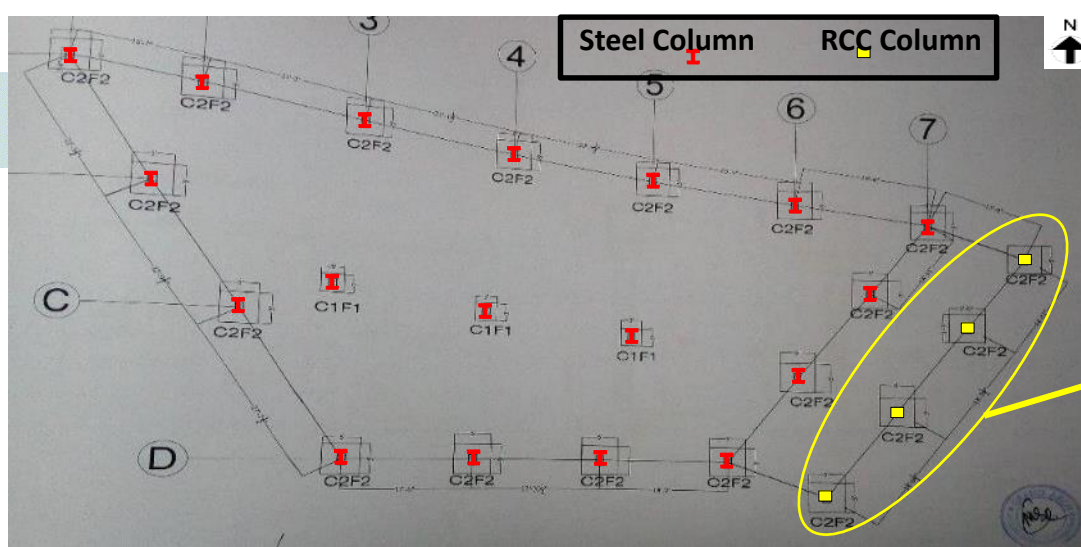
Corrosion observed at steel sections



Corrosion was observed at beam-column joint of steel members. Corrosion was observed on the bottom part of ground floor column. Most of the corroded steel members were found under the toilet area. Factory is required to identify all the corroded locations and take proper remedial measures.



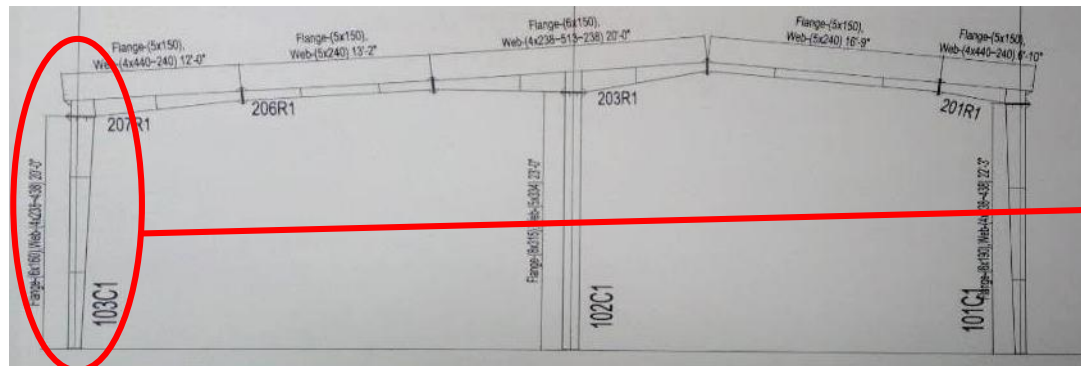
Discrepancies between as-built drawings and on-site observation



Column layout plan



RCC column were found on east side



Typical portal frame on as-built drawing



Uniformed section was found instead of tapered section

On east side, RCC columns were found instead of steel columns. In addition, no frame section detail was found for the east side. On south side, the column was found as uniformed section (F-160mm x W-340mm) instead of tapered section and the dimension of north side was found (F-160mm x W- 300~360mm) instead on (F-190mm x W-238~438mm).



Lack of lateral stability



Steel frame (No Roof/Horizontal bracing)



Steel frame (No vertical bracing)



Steel columns were bolted

All member connections are pin connection. No vertical or horizontal bracing were provided for lateral stability. Factory is required to check stability of roof shed against lateral loads.



Lack of information in As-built drawing

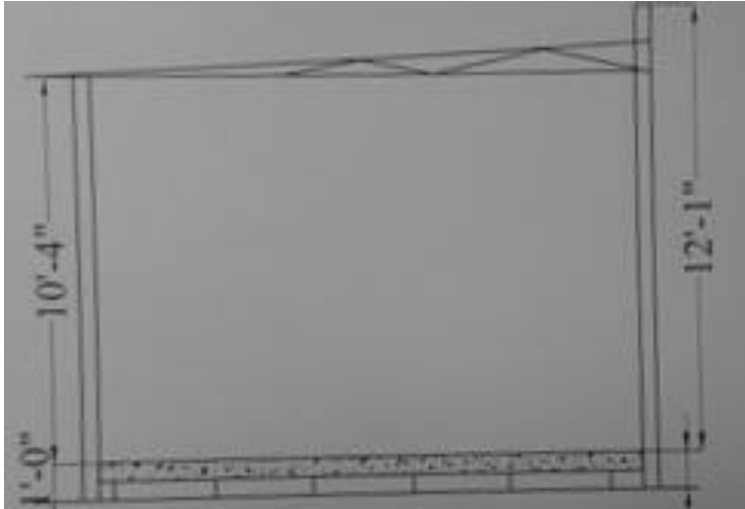


No detail of internal frame system was found in as-built drawing. Factory is required to update the as-built drawing to show the detail of internal frame.

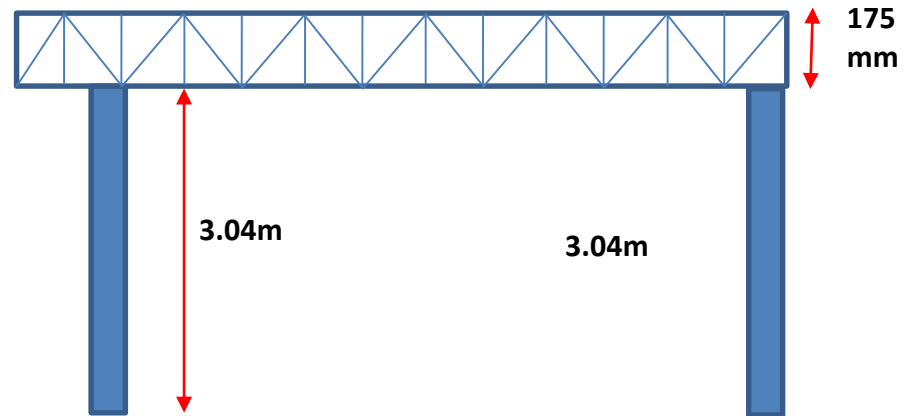
Observation: Fire Pump shed



Discrepancies between as-built drawings and on-site observation



Typical framing system in as-built drawing



Typical framing system in on site

The internal framing system did not match with on site condition. Factory is required to revise the as-built drawing which reflecting the on site condition.



Problems Observed

Factory building

Item 1: Apparent lack of lateral stability.

Item 2: Implement floor load management program.

Item 3: Lack of information in As-built drawing.

Printing Building

Item 4: Design Report required to be reviewed by Accord.

Item 5: Corrosion observed at steel sections.

Warehouse

Item 6: Discrepancies between as-built drawings and on-site observation.

Item 7: Lack of lateral stability.

Fire Pump shed

Item 8: Lack of information in As-built drawing.

Day care shed

Item 9: Discrepancies between as-built drawings and on-site observation.



Priority Actions



Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Apparent lack of lateral stability. (Factory Building)	Factory engineer to check the stability of the structure under vertical and horizontal loads.	6-weeks
2	Apparent lack of lateral stability. (Factory Building)	Carry out remedial works resulting from engineering assessment if necessary.	6-months
3	Implement floor load management program. (Factory Building)	Factory is required to implement load management program (signage, load restriction height marking) as per its floor load plan.	6-weeks
4	Implement floor load management program. (Factory Building)	Continue to implement load plan.	6-months
5	Lack of information in As-built drawing. (Factory Building)	Factory engineer is required to survey all the structural elements properly and produce correct as built drawings which reflect the on site condition.	6-weeks
6	Design Report required to be reviewed by Accord. (Printing Building)	Complete review of Design report by Accord.	6-weeks
7	Design Report required to be reviewed by Accord. (Printing Building)	Complete remedial works coming from detail engineering assessment after reviewing by Accord.	6-months
8	Corrosion observed at steel sections. (Printing Building)	Factory Engineer to suggest and implement proper remedial measures to protect steel sections from corrosion.	6-weeks



Item No.	Observation	Recommended Action Plan	Recommended Timeline
9	Discrepancies between as-built drawings and on-site observation. (Warehouse)	Factory engineer is required to survey all the structural elements properly and produce correct as built drawings which reflect the on site condition.	6-weeks
10	Lack of lateral stability. (Warehouse)	Factory engineer to check the stability of the structure under vertical and horizontal loads.	6-weeks
11	Lack of lateral stability. (Warehouse)	Carry out remedial works resulting from engineering assessment if necessary.	6-months
12	Lack of information in As-built drawing. (Fire Pump shed)	Factory engineer is required to survey all the structural elements properly and produce correct as built drawings which reflect the on site condition.	6-weeks
13	Discrepancies between as-built drawings and on-site observation. (Day care shed)	Factory engineer is required to survey all the structural elements properly and produce correct as built drawings which reflect the on site condition.	6-weeks