

TAMAI KNIT FASHION LTD.

141/A, BSCIC Industrial Area, Fatullah, Narayanganj, Bangladesh
(23.625863N, 90.479213E)
01st Sep 2016

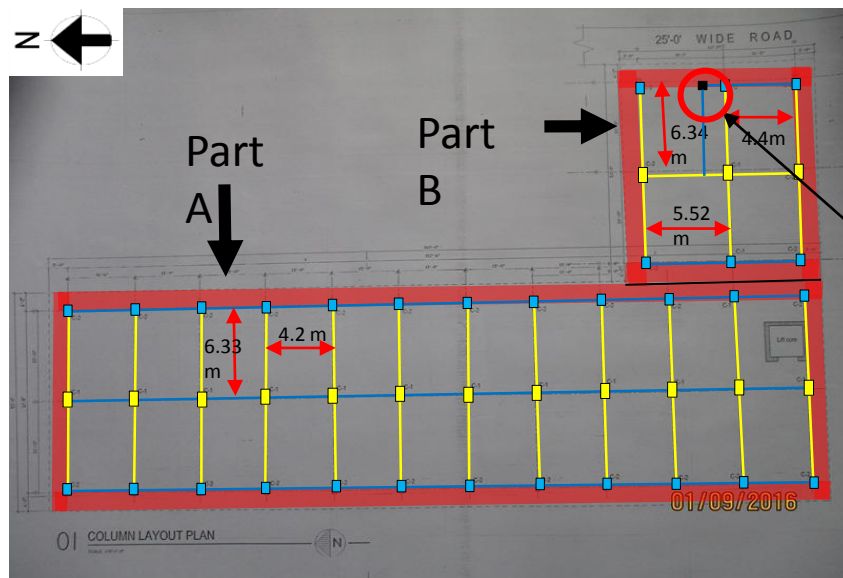
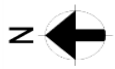




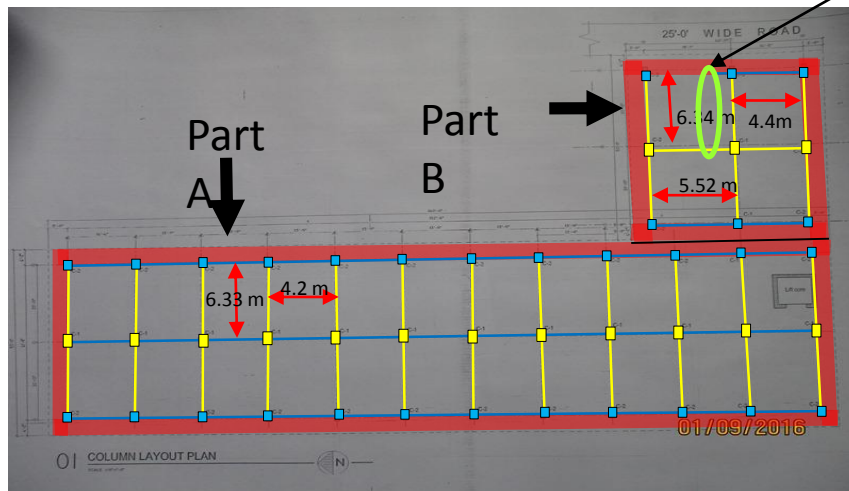
Observation



Discrepancy between provided drawing and site condition



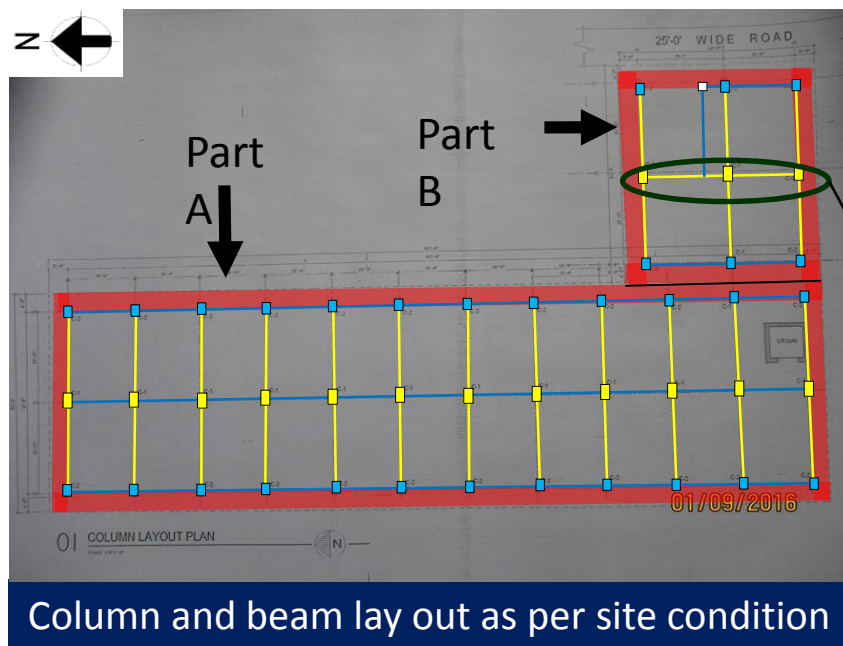
Column and beam lay out as per site condition



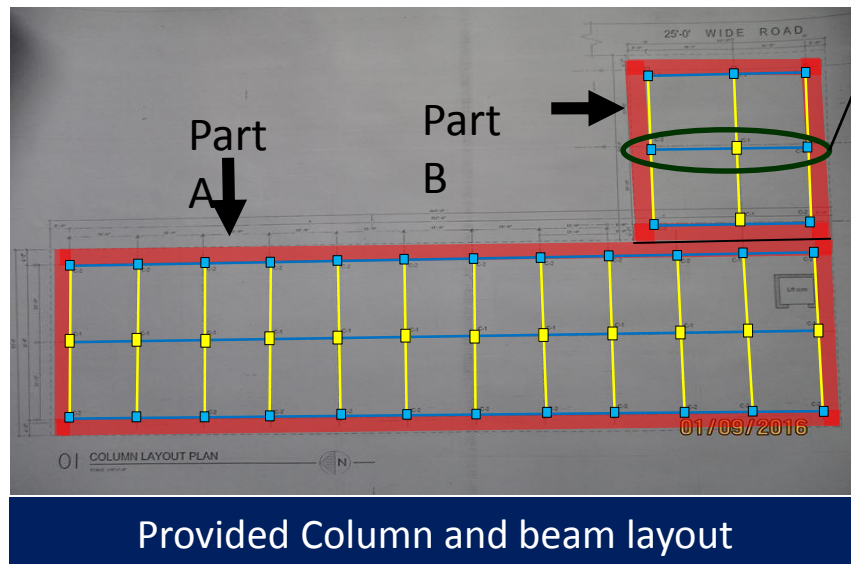
Provided Column and beam layout



A column with a beam was found adjacent with the stair case which was not shown in provided layout drawing



Column and beam lay out as per site condition

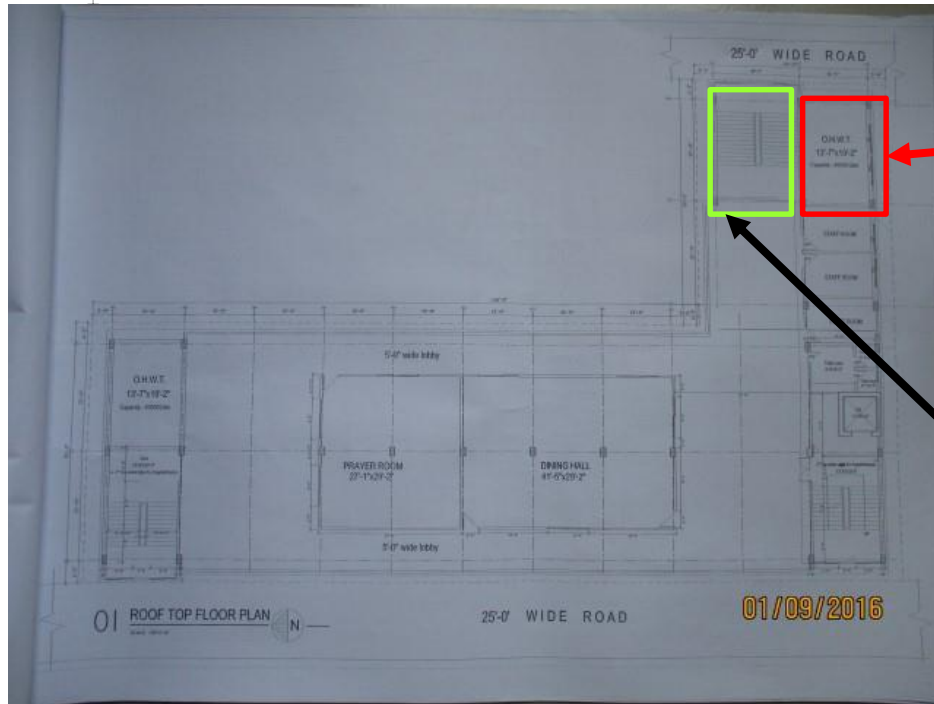


Provided Column and beam layout



Provided column and beam schedule didn't match with site condition.

5 **Observation:**

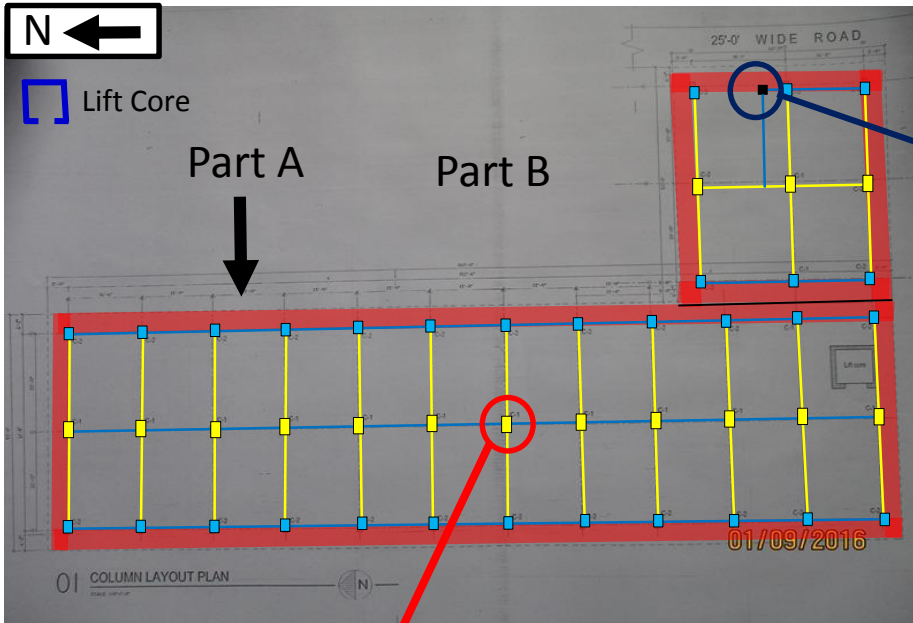


Location of over head water tank on provided architectural drawing.

Observed Location of over head water tank



6 **Observation:**



Brick aggregate found in 7th floor on part B and stone aggregate found in all other floor on Part A but aggregate type was mentioned as stone chips for both part A&B in working drawing.





Apparently lack of lateral stability



Typical Layout Plan

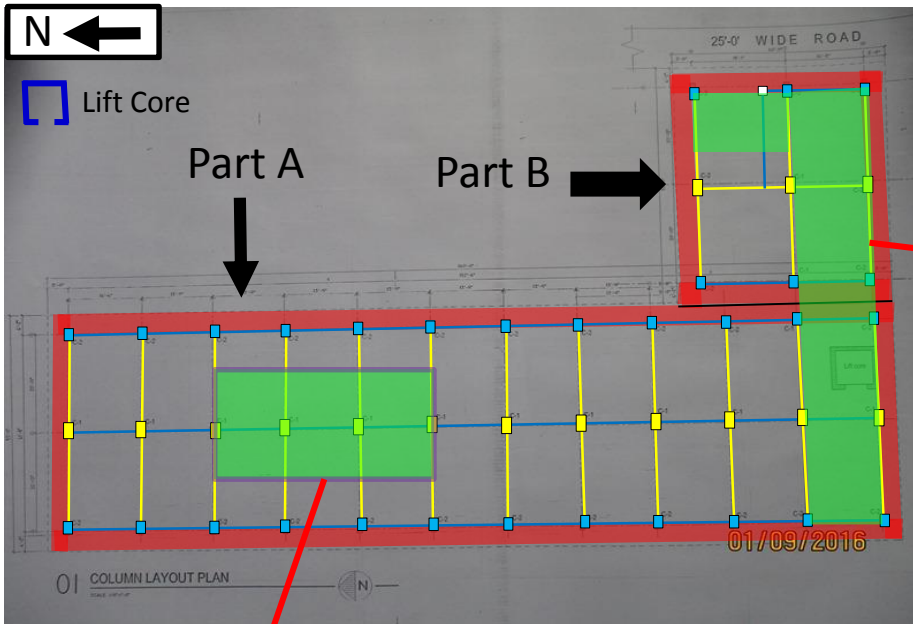


Building engineer to check lateral stability of the building against lateral load combination for poor aspect ratio . The structural arrangement in tall slender building may result in net tension structural element.

Observation:



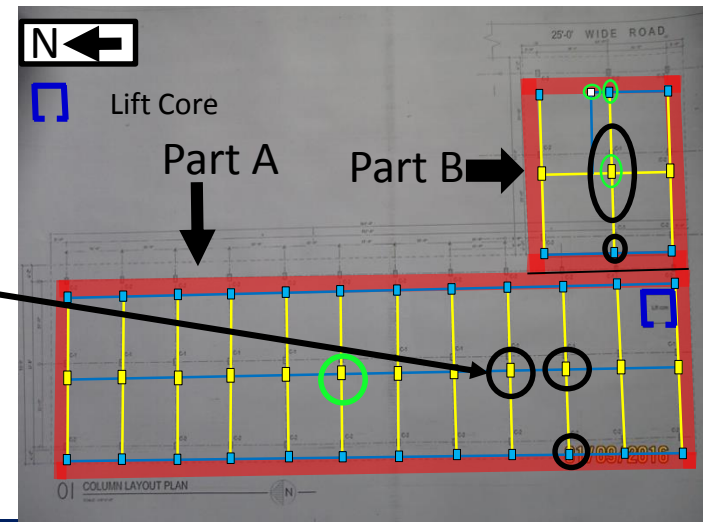
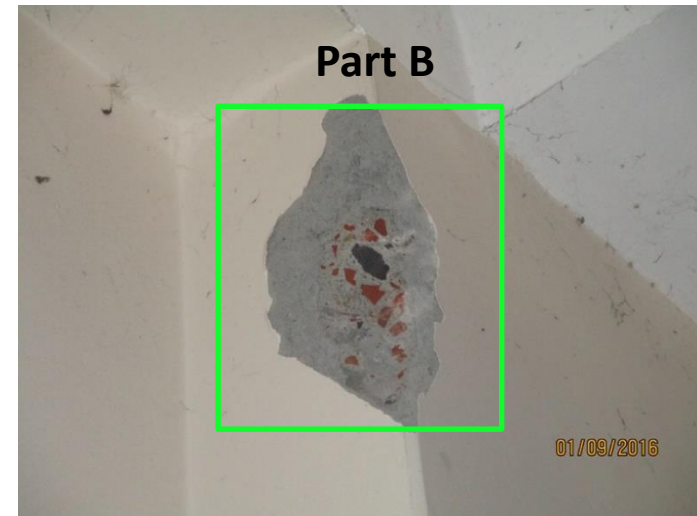
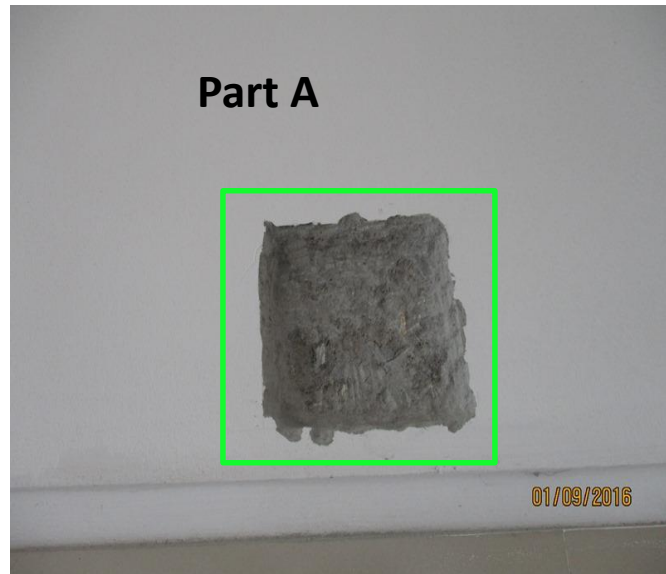
Undocumented extension at roof level



■ Undocumented extensions were found at roof level in both part-A and part-B of the building.



Test Carried out



Stone aggregate found in column of Part-A and Brick aggregate found in part-B on 7th floor. Ferro scanning also carried out to figure out the no of rebar

Structural System: Test carried out



Problems Observe

- Item 1: Discrepancy between provided drawing and site condition.
- Item 2: Apparently lack of lateral stability
- Item 3: Undocumented extension at roof level.



Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Discrepancy between provided drawing and site condition	Building engineer to investigate the whole building and produce as-built documentation reflecting the as constructed condition.	6-weeks
2	Discrepancy between provided drawing and site condition	Building engineer to investigate the material type through whole building both in Part A&B and make sure the correct aggregate type.	6-weeks
3	Lack of lateral stability	Evaluate the concrete strength by taking minimum 4 nos. of 100mm dia. core or existing cylinder test result from each batch of construction period.	6-weeks
4	Lack of lateral stability	Building engineer to review stability of the building against the lateral load.	6-weeks
5	Lack of lateral stability	Produce and actively manage loading plan according to the floor capacity.	6-months
6	Lack of lateral stability	Continue to implement load plan.	6-months
7	Lack of lateral stability	Implement remedial work if required.	6-months
8	Undocumented extension at roof level	Building engineer to review design and column stress considering the extension at roof level.	6-weeks
9	Undocumented extension at roof level	Implement remedial work if required.	6-months