



Aptech Caswier Ltd

Aptech Industrial Park Holding 30, Sarabo Kashimpur, Gazipur.

(23.985063N, 90.284084E)

30th September and 13th October 2019



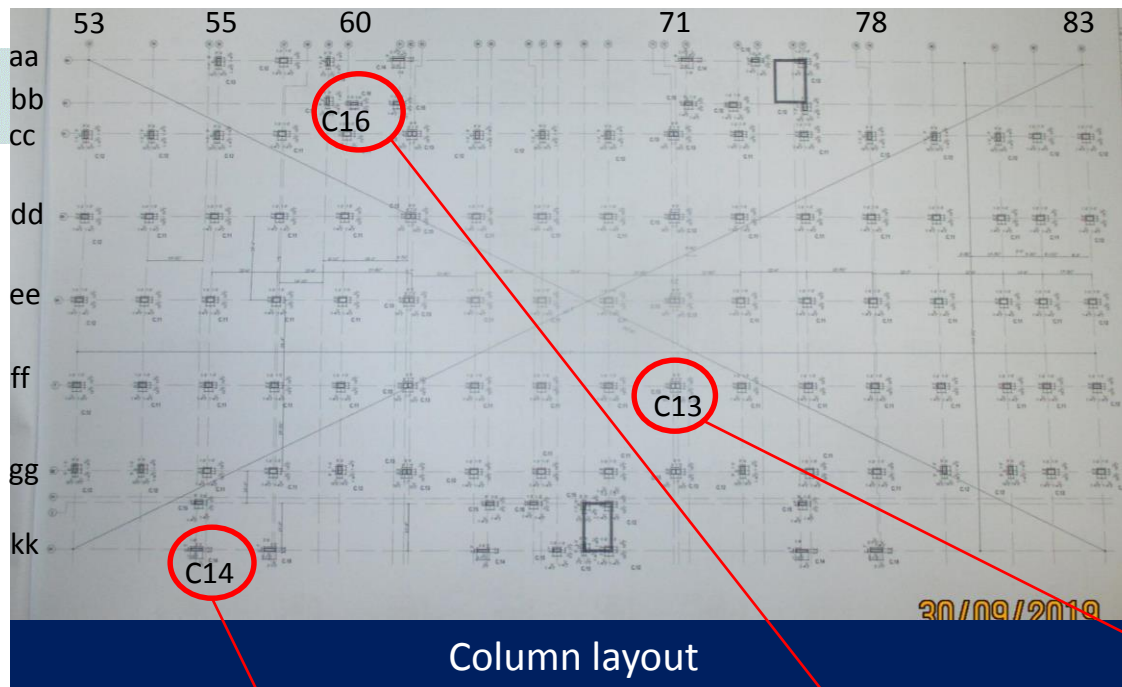


Observations



Discrepancies between drawings and on-site observation

Observation: Suit Building



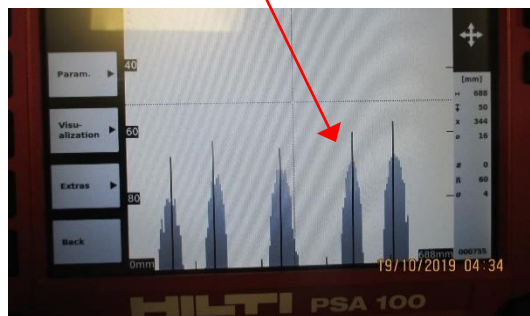
COLUMN SCHEDULE

1st & 4th FLOOR, 2nd & 3rd FLOOR

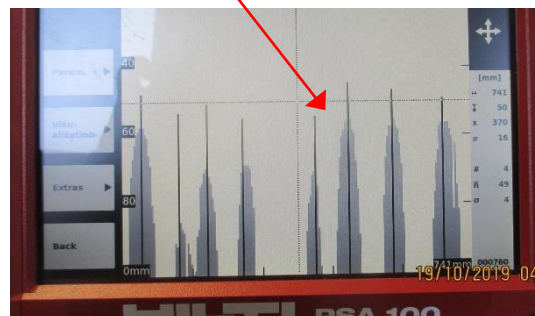
NO OF COLUMN	SECTION OF COLUMN	GROUND FLOOR	1ST FLOOR	2ND FLOOR	3RD FLOOR	4TH FLOOR
C 11	20' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'
C 12	20' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'
C 13	20' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'
C 14	20' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'
C 15	20' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'
C 16	20' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'
C 17	20' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'
C 18	20' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'	18' x 30'

FINISHING BUILDING, BIG BOSS

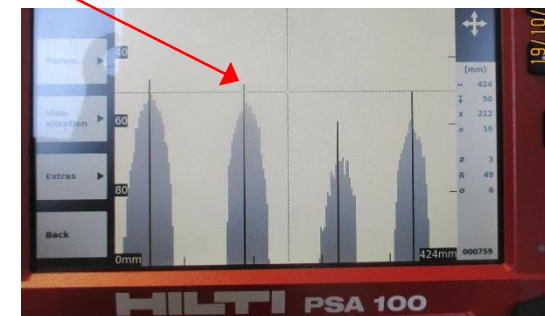
30/09



5 rebar were found in long face of C14 column where 6 rebar shows in the column schedule. (14 rebar found instead of 16)

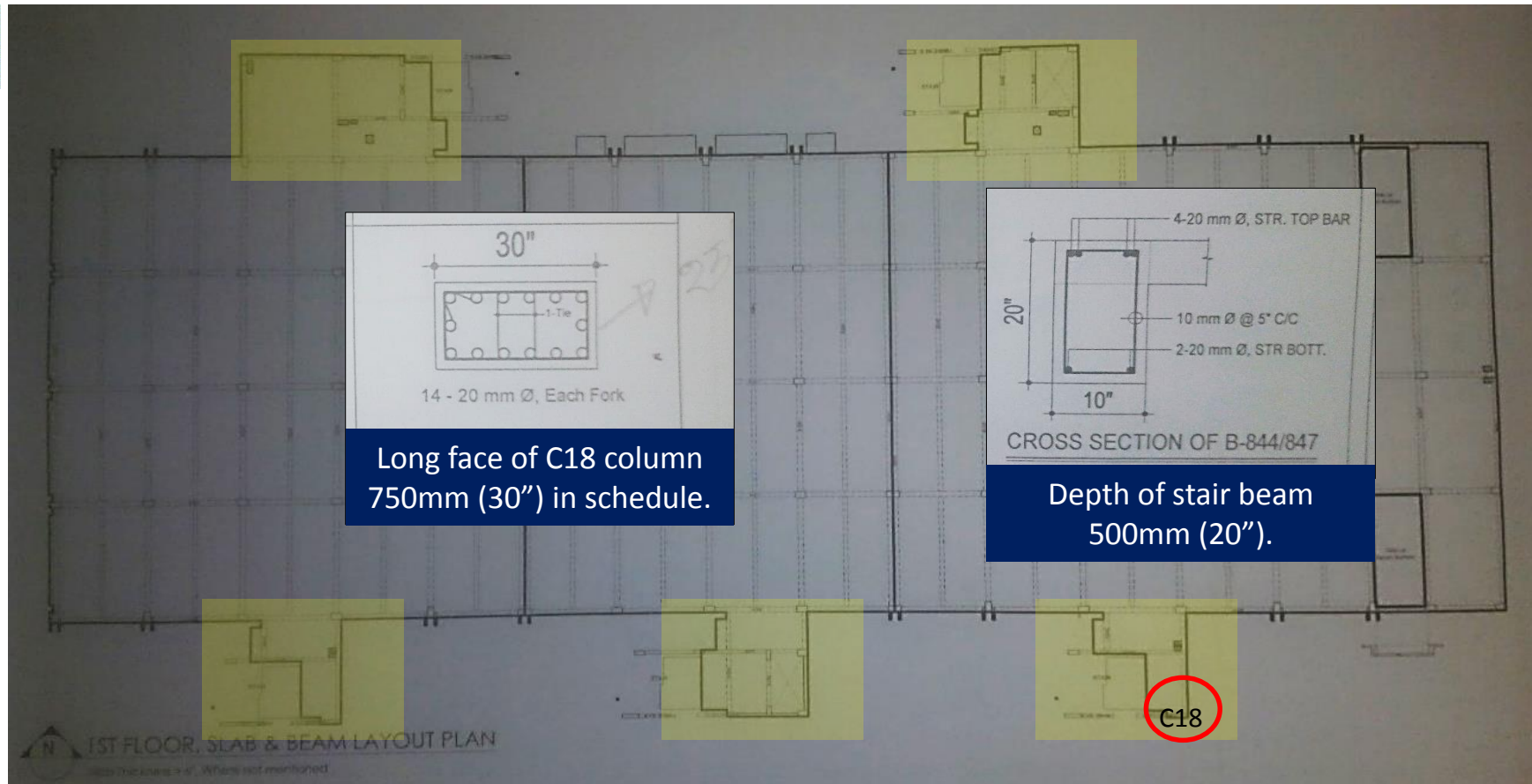


8 rebar were found in long face of C16 column where 10 rebar shows in the column schedule. (18 rebar found instead of 22)



4 rebar were found in both face of C13 column where 5 rebar shows in the column schedule. (12 rebar found instead of 16)

Observation: Suit Building



Long face of C18 column
750mm (30") in schedule.

Depth of stair beam
500mm (20").

long face of C18 column was measured 625mm on site where drawings shows 750mm (30"). Also, down stand of the beams in the stair zone was measured 450mm where provided drawings shows 500mm (20") as total depth.

The factory engineer to survey the structure and update the as-built drawings accordingly.

Observation: Suit Building



Water damaged underside of the roof slab.

Observation: Suit Building



Down area on the roof.



Sign of dampness underside the down slab.

Water damage was observed underside of the roof slab. The factory engineer to develop drainage system otherwise apply proper water proofing layer on the top of roof slab to resist water seepage.

Observation: Suit Building



Undocumented Conveyer shed

Observation: Suit Building



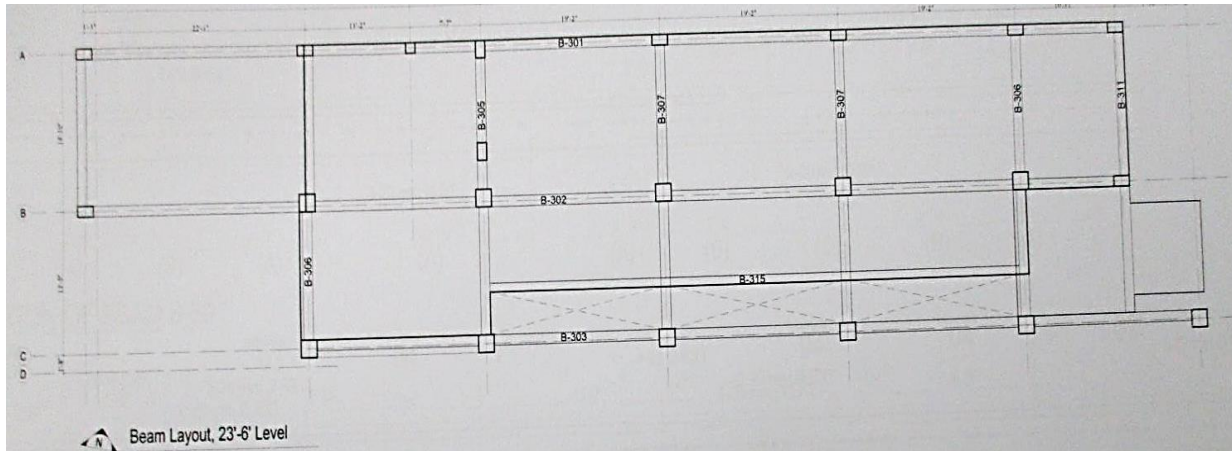
Undocumented lightweight steel conveyer shed was made adjacent to Suit Building. The factory engineer to survey the structure, connections and produce necessary drawings.

Observation: Suit Building



Mismatch in as-built drawings

Observation: Ancillary Building



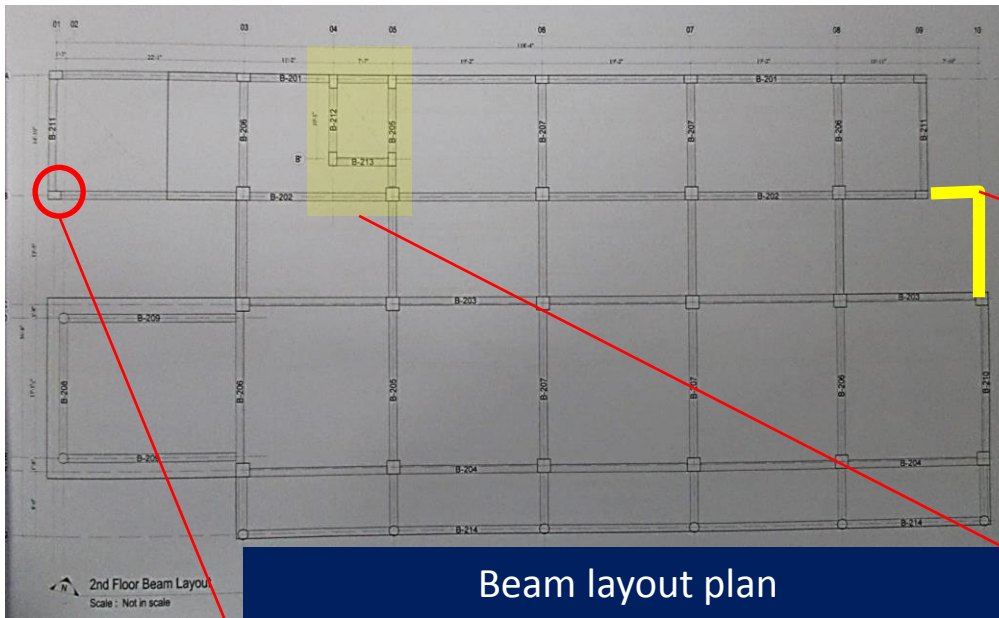
Beam layout shown up to 23'-6" (7.16m) level only



Level difference of roof: 3 storey and 4 storey

The architectural, structural and floor load plan drawings for the roof level was not available in the provided documents. Beam layout for the roof level was not available in the provided drawings.

Observation: Ancillary Building

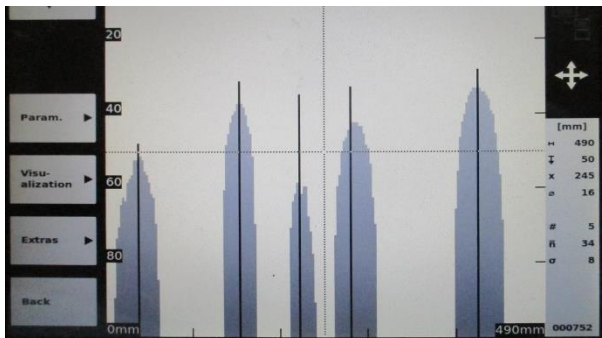


Beam layout plan



Beam at roof level not match with dwg.

C.06	23" x 15"	20" x 12"				
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Rebar of C6 column in the schedule

For the C6 column at grid 3-A, Ferro-scanning image shows 5 rebar in long face of where drawing shows 8.



Beam at 2nd floor not match with dwg.

Observation: Ancillary Building



Priority Actions



Problems Observed

Suit Building:

- 1: Discrepancies between drawings and on-site observation.
- 2: Water damaged underside of the roof slab.
- 3: Undocumented conveyer shed.

Ancillary Building:

- 4: Mismatch in as-built drawings.



Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Discrepancies between drawings and on-site observation. (Suit Building)	The factory engineer is required to survey the structures and update the as-built drawings.	6-weeks
2	Water damaged underside of the roof slab. (Suit Building)	Develop the drainage system otherwise provide proper water proofing layer on the roof to prevent water seepage.	6-months
3	Undocumented conveyer shed. (Suit Building)	The factory engineer is required to survey the structures and produce as-built drawings for the structure.	6-weeks
4	Mismatch in as-built drawings. (Ancillary Building)	The factory engineer is required to survey the structures and update the as-built drawings.	6-weeks