

Kaniz Fashions Ltd

Plot no. A80 (part), A81 & A82, BSCIC Industrial Area,
Konabari, Gazipur- 1700, Bangladesh.

(24.009644N, 90.321826E)

26th August 2019





Observations



Water damage at peripheral wall

Observation:



Dampness was observed on periphery wall

Observation:



Mismatch found between as built drawing & FEA model

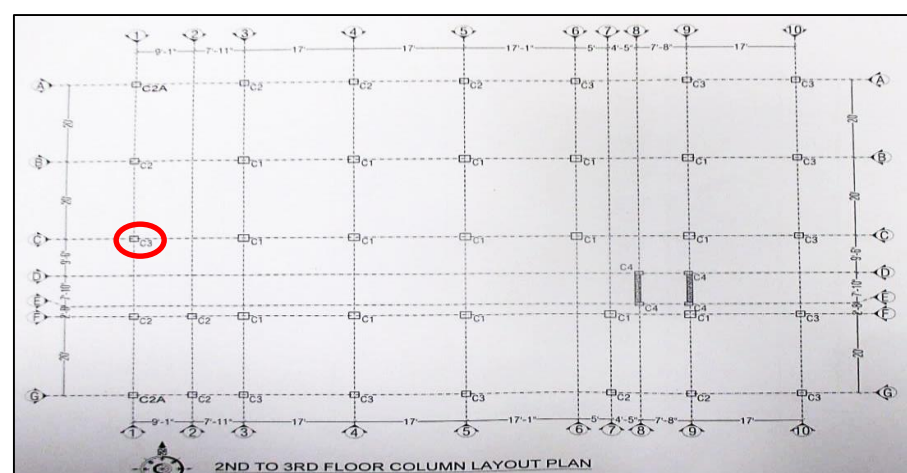
Observations:



	G	F	D	C	B	A	
	1	1	1	1	1	1	
	FB2-12X20						STAIR
							RefPI 2
C2A-16X16	FB2-12X20	C2-16X16	FB2-12X20	FB2-12X20	FB2-12X20	FB2-12X20	7THF
C2A-16X16	FB2-12X20	C2-16X16	FB2-12X20	C3A-16X16	FB2-12X20	FB2-12X20	6THF
C2A-16X16	FB2-12X20	C2-16X16	FB2-12X20	FB2-12X20	FB2-12X20	C2A-16X16	5THF
C2A-16X16	FB2-12X20	C2-16X16	FB2-12X20	FB2-12X20	FB2-12X20	C2A-16X16	4THF
C2A-16X16	FB2-12X20	C2-16X16	FB2-12X20	FB2-12X20	FB2-12X20	C2A-16X16	3RDF
C2-16X16	FB2-12X20	C2-16X16	FB2-12X20	C2-16X16	FB2-12X20	C2-16X16	2NDF
C2-16X16	FB2-12X20	C2-16X16	FB2-12X20	C2R1	FB2-12X20	C2-16X16	1STF
C2-16X16	IB-10X15	C2R1	IB-10X15	C3R1	IB-10X15	C2R1	RefPI 1
C2-16X16	GB1-12X16	C2R1	GB1-12X16	C3R1	GB1-12X16	C2-16X16	GB
C2BG	GB1-12X16	C2R1	GB1-12X16	C3R1	GB1-12X16	C2-16X16	BASE

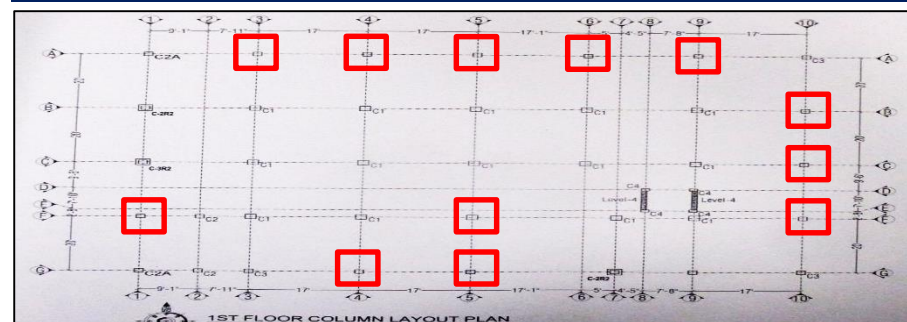
Elevation at grid-1 From ETABS

In column layout plan, column ID is missing in several location of different floors.

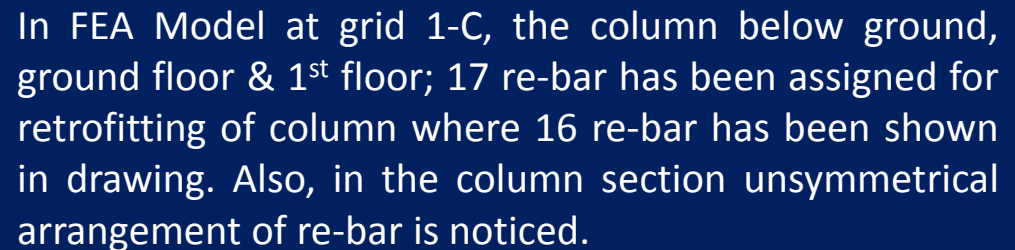
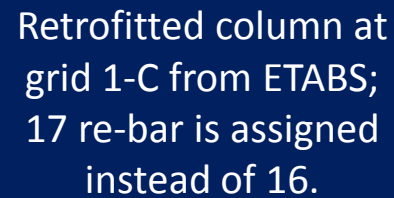
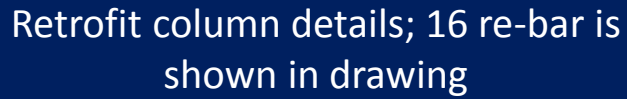


2nd for 6th floor column Layout

At grid 1-C, C2 column has been assigned at 2nd & 3rd Floor and C3A column has been assigned at 4th to 6th floor in FEA model. But in as-built drawing only C3 column has been shown from 2nd to 6th floor at that mentioned grid. Also there is no column as C3A in column schedule.



1st floor column Layout; Column ID missing



Elevation at grid-1 From ETABS



Beam Layout plan from ETABS.

General Data

Property Name: RB10X28

Material: B3536

Notional Size Data: Modify/Show Notional Size...

Display Color: [Red] Change...

Notes: Modify/Show Notes...

Shape

Section Shape: Concrete Rectangular

Section Property Source

Source: User Defined

Section Dimensions

Depth: 28 in

Width: 10 in

Beam detail of RB-10X28

General Data

Property Name: RB12X28

Material: B3536

Notional Size Data: Modify/Show Notional Size...

Display Color: [Yellow] Change...

Notes: Modify/Show Notes...

Shape

Section Shape: Concrete Rectangular

Section Property Source

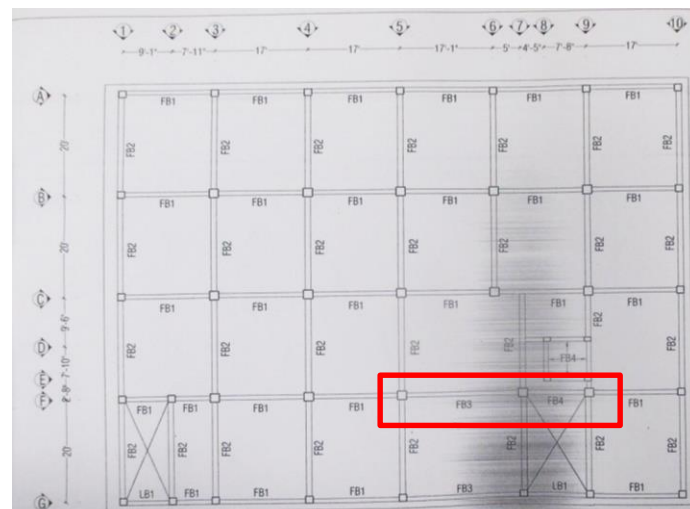
Source: User Defined

Section Dimensions

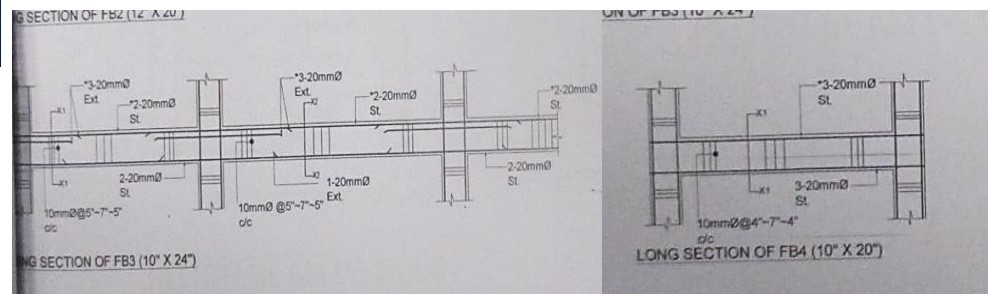
Depth: 28 in

Width: 12 in

Beam detail of RB-12X28



Beam Layout plan in as-built drawing



Beam Details of FB3-10X24 (left) & FB4-10X20 (right)

At grid (7-9/F) from 1st floor to stair RB-12X28 has been assigned in FEA model. But in as built drawing FB3- 10X24 beam has been shown. Similarly RB10X28 beam has been assigned in FEA model at grid (5-7/F) instead of FB4 10X20



Wind Load Pattern - UBC 94

Exposure and Pressure Coefficients

☒ Exposure from Extents of Diaphragms
☐ Exposure from Shell Objects

Wind Exposure Parameters

Wind Directions and Exposure Widths Modify/Show...

Windward Coefficient, C_q
 Leeward Coefficient, C_q

Wind Coefficients

Wind Speed (mph)
 Exposure Type
 Importance Factor

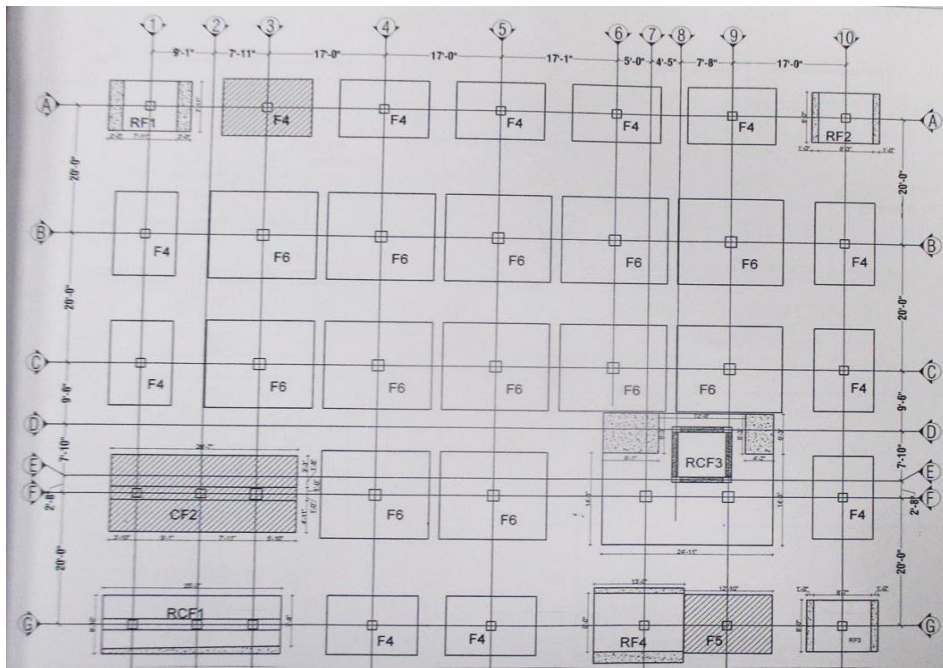
Exposure Height

Top Story
 Bottom Story
☐ Include Parapet
 Parapet Height

OK Cancel

Windward coefficient & leeward coefficient have been assigned as 0.8 & 0.5 respectively. No calculation has been provided in report for the C_{pe} . Factory engineer is required to calculate the required C_{pe} value and assign properly in required directions.

Assignment of wind loading in FEA model



In foundation layout plan for the interior foundations denoted as F6, no sectional details have been provided.

Foundation Layout plan

Observations:



Problems Observed

01: Water damage at peripheral wall

02: Mismatch found between as built drawing & FEA model



Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Water damage at peripheral wall	Investigate the cause of dampness on the wall.	6-weeks
2	Water damage at peripheral wall	Carry out required measures to remove dampness on walls as per recommendation of factory engineer.	6-months
3	Mismatch found between as built drawing & FEA model	Factory engineer is required to survey the structure and update the as-built drawing and revise the DEA report accordingly.	6-weeks
4	Mismatch found between as built drawing & FEA model	Implement the recommendations of Engineering Assessments.	6-months