

Epyllion Style Ltd

Bahadurpur, P.O - Bhawal Mirzapur , Gazipur Sadar, Gazipur 1703.

24.086384, 90.379837

6th May 2014



Observations

Observations Building 1

Numerous cracks in non structural masonry walls (Concrete Section- Building 1).

Observations Building 1

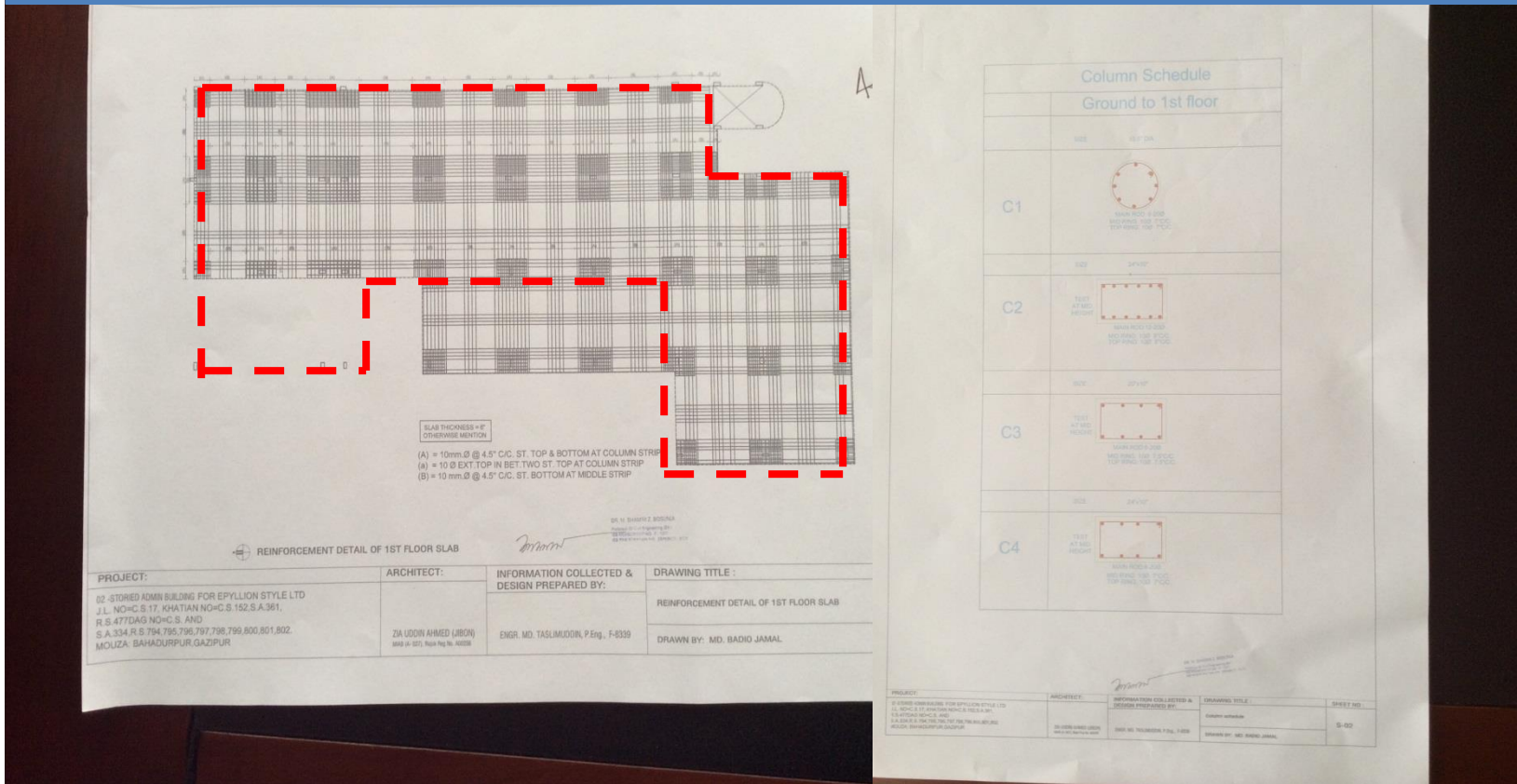
In the concrete section of Building 1 there were numerous cracks and crack repairs in non structural masonry walls



Inadequate Structural Drawings for Concrete Section of Building 1

Observations Building 1

Inadequate structural drawings were provided for concrete section of Building 1. These consisted of a single reinforcement detail for first floor slab and stairs and a column schedule. The slab thickness shown on 1st floor slab reinforcement drawing was 150mm. The actual slab thickness measured including finishes was 300mm. The extent of 1st floor shown on the drawing is incorrect.



Actual First Floor slab layout

Observations Building 1

Large gaps between bearing plates in steelwork (Shed 1 and Shed 2- Building 1).

Observations Building 1

In both Sheds 1 and 2 of Building 1 there are large gaps between bearing plates of the stanchions and rafters (eaves connection of the portal frames).



Observations Building 1

High gable walls appear unrestrained (Shed 1 and Shed 2 – Building 1).

Observations Building 1



Perimeter walls are independent of portal frame structure. Wind posts in Gable walls of Sheds 1 and 2 did not go full height.

Unrestrained wall height of gable wall

Priority Actions

Problems Observed

ITEM 1: Numerous cracks in non structural masonry walls (Concrete Section- Building 1).

ITEM 2: Inadequate structural drawings (Concrete Section- Building 1).

ITEM 3: Large gaps between bearing plates in steelwork (Shed 1 and Shed 2- Building 1).

ITEM 4: High gable walls appear unrestrained (Shed 1 and Shed 2 – Building 1).

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Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Numerous cracks in non structural masonry walls (Concrete Section- Building 1)	Engage an Engineer to carry out flexural and shear checks on the flat slabs (first floor and roof).	6-weeks
2	Numerous cracks in non structural masonry walls (Concrete Section- Building 1)	Engage an Engineer to investigate if the cracking is the result of excessive deflection in the flat slabs.	6-weeks
3	Inadequate structural drawings (Concrete Section- Building 1)	Engage an Engineer to prepare full “as built” engineering drawings.	6-weeks
4	Large gaps between bearing plates in steelwork (Shed 1 and Shed 2- Building 1)	Engage an Engineer to check that the eaves connections are structurally adequate.	6-months
5	High gable walls appear unrestrained (Shed 1 & Shed 2 Building 1)	Engage an Engineer to investigate the stability of the external masonry walls.	6-months