Carlos Leather Fashion Ltd. (10099)

Teknog Para, Chandona Chourasta, Joydebpur, Gazipur

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21.AUGUST.2014

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Identified Priority 1 Concerns

(None)

Identified Priority 2 Concerns

- Inadequacies between the drawings and the actual as-built conditions.
- Stability and capacity of lightweight roof.
- Stability and capacity of steel staircase on Building 1.
- Capacity check of roof slab supporting water tanks on Building 1.

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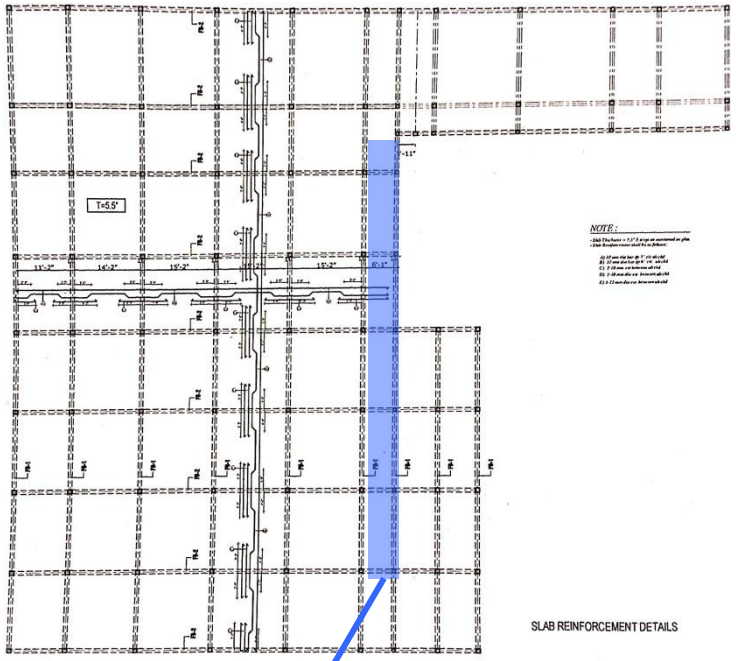
1st Priority 2 Concern



Building 1

The beams specified in structural drawings shown on the left were not found.

There are also no structural drawings provided for the extension of Building 1 and Shed 1.

The structural drawings need to be revised.

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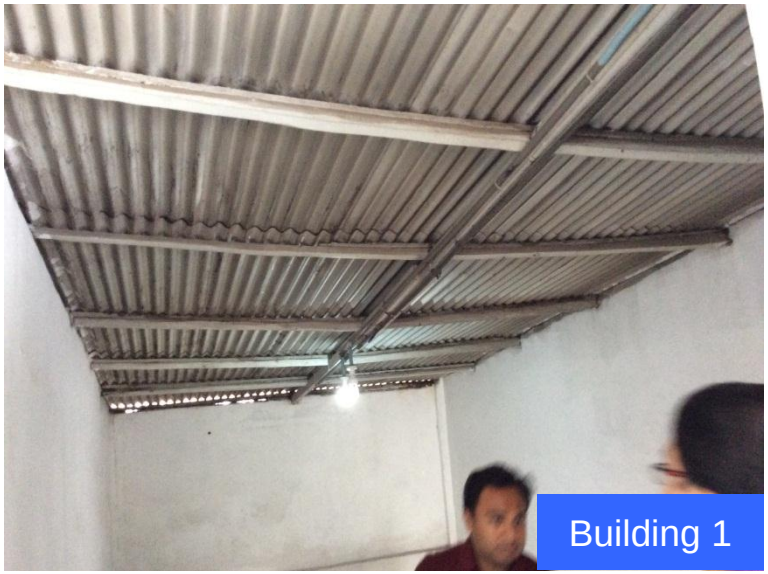
2nd Priority 2 Concern

Building 1



Building 1

Shed 1

Concerns on the lightweight roof at Building 1. Stability and capacity must be checked especially the connections. Stability under wind uplift needs to be checked in particular.

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3rd Priority 2 Concern

Building 1

Concerns on stability and capacity of the steel stair on Building 1.

Building 2

These should be investigated and/or strengthened.

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4th Priority 2 Concern

Building 1

Concerns on the roof slab supporting water tanks. A capacity check of this slab and all related elements need to be carried out.

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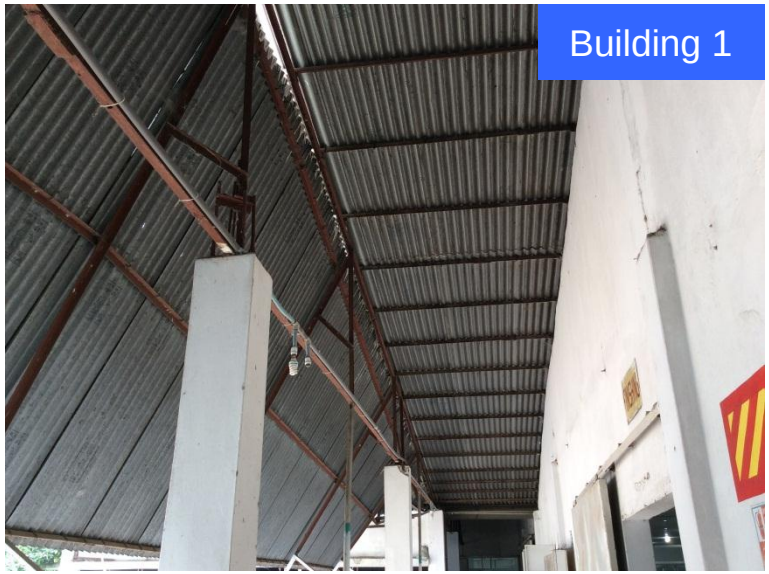
Identified Priority 3 Concerns

- No fireproofing material for structural steel elements (if required).

1st Priority 3 Concern



No fireproofing material was noted on structural steel elements (if required).

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Overall Stability System

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The lateral loading resistance for this 2-storey building is provided by moment frame action without any shear walls and the façade brickwork walls lack moment capacity due to their poor connections with the surrounding columns and beams.

We require that the stability of this building is investigated as part of an Engineering Assessment.

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Water Ingress

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Water distress was noted on beams, columns and walls.

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Priority Actions

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Problems Observed Summary

ITEM 1:	**(Priority 2)**	**Inadequacies between the drawings and the actual as-built conditions.**
ITEM 2:	**(Priority 2)**	**Stability and capacity of lightweight roof.**
ITEM 3:	**(Priority 2)**	**Stability and capacity of steel staircase on Building 1.**
ITEM 4:	**(Priority 2)**	**Capacity check of roof slab supporting water tanks on Building 1.**
ITEM 5:	**(Priority 2)**	**Overall stability system.**
ITEM 6:	**(Priority 3)**	**Distress due to water ingress on Building 1.**
ITEM 7:	**(Priority 3)**	**No fireproofing material for structural steel elements (if required).**

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Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Priority 2 - Inadequacies between the drawings and the actual as-built conditions.	Factory Engineer to survey the actual conditions and revise the drawings. Any results of the Engineering Assessment which affect the structure should be taken on board.	6-weeks
2	Priority 2 - Inadequacies between the drawings and the actual as-built conditions.	Continue to implement load plan.	6-months
3	Priority 2 - Stability and capacity of lightweight roof.	Factory Engineer to review design, loads and related elements in area identified above to confirm capacity and stability for these items.	6-weeks
4	Priority 2 - Stability and capacity of steel staircase on Building 1.	Factory Engineer to review design, loads and related elements in area identified above to confirm capacity and stability for these items. These items should be strengthened or replaced with appropriate permanent structural elements.	6-weeks
5	Priority 2 - Capacity check of roof slab supporting water tanks on Building 1.	Factory Engineer to review design, loads and related elements in area identified above to confirm capacity for these items. Or The items in the area identified above should be removed.	6-weeks
6	Priority 2 - Overall stability system.	An Engineering Assessment of the overall building to be carried out and in particular, stability and foundation aspects should be investigated in detail.	6-weeks
7	Priority 3 - Distress due to water ingress on Building 1.	The Factory Engineer to investigate the cause by appropriate methods. Factory Engineer to inspect water damaged structures and repair with a suitable methods.	6-months
8	Priority 3 - No fireproofing material for structural steel elements (if required).	Fireproofing material for structural steel element is recommended as suggested in BNBC Codes. Maintain standard of quality control and protection of the fire protection.	6-months