Parkview Dresses Ltd. (9902)

30/2, Darail Sataish, Gazipura, Gazipur .

(+23.915212N, 90.361604E)

19.AUGUST.2014

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Identified Priority 3 Concerns

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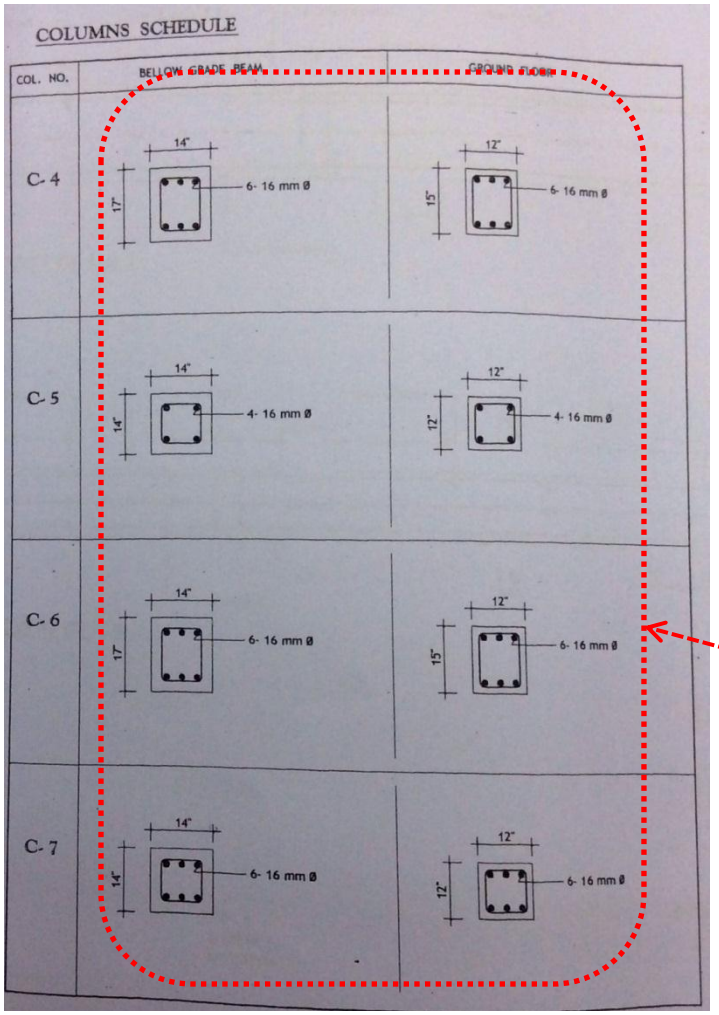
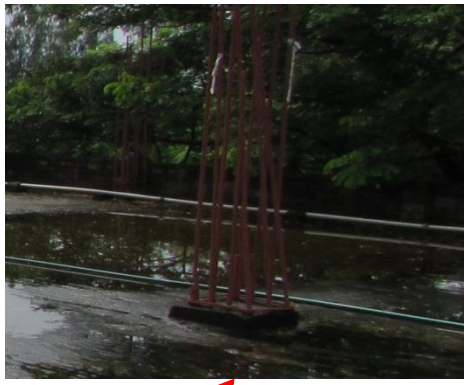
1st Priority 3 Concern

Main building





Column sizes and number of bars shown on the drawing available did not match with what was seen on site.

The As-built drawings need to be revised to more accurately represent the actual existing construction.

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1st Priority 3 Concern

Main building

There is no structural drawing showing the typical framing layout.

The As-built drawings need to be updated and supplemented where necessary to more accurately reflect the actual existing construction.

Beam and slab of existing site

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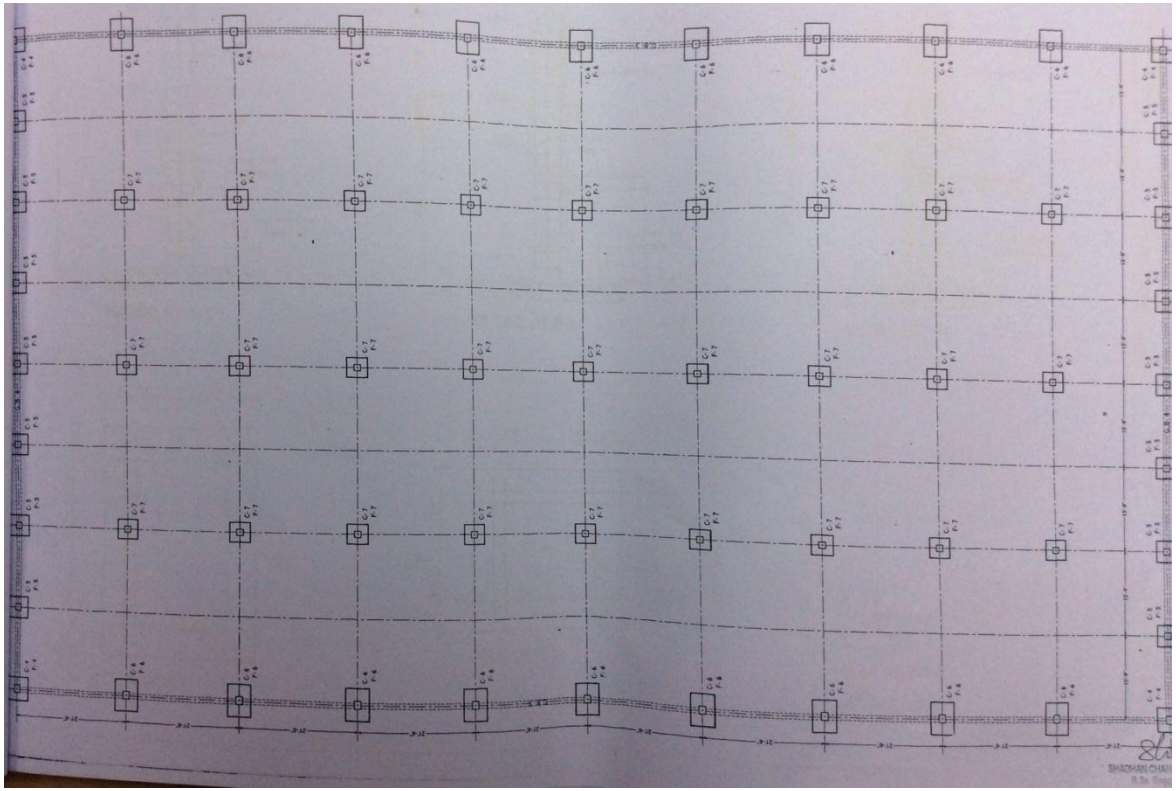
1st Priority 3 Concern

Main building



The foundations on the structural drawing are very small and appear inadequate.

The factory's Structural Engineer needs to investigate this in more detail and should determine exactly the dimension of the foundations and therefore their adequacy as soon as possible.

Foundation and Column Layout Plan

The As-built drawings need to be updated and supplemented where necessary to more accurately reflect the actual existing construction.

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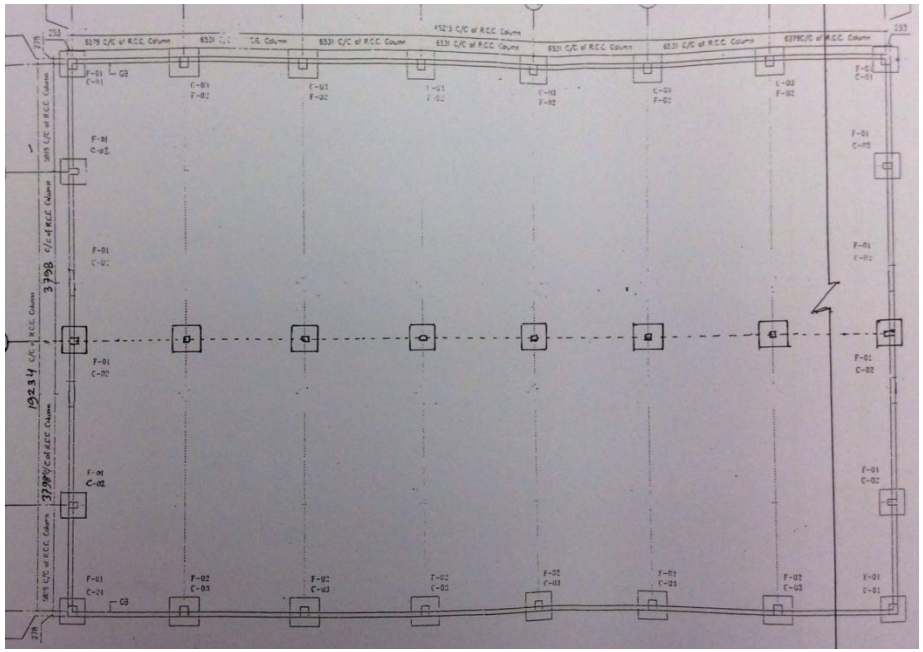
1st Priority 3 Concern

Shed building



Foundation and Column Layout Plan

The number of columns shown on the drawing does not match what is on site.

The As-built drawings need to be updated and supplemented where necessary to more accurately reflect the actual existing construction.

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2nd Priority 3 Concern

Main building

The weight of stored cardboard boxes on level 1 is higher than the designed load. The designed live load should be around 3.0 kPa. Each stack is estimated to impose a load of around 3.33 kPa.

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3rd Priority 3 Concern

Main building

The current roof needs to be protected with a water proofing layer if the construction is not to proceed in the next six months.

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4th Priority 3 Concern

Main building

We require that this item is investigated in an Engineering Assessment

R.C Beam and column frame with a 2-way solid slab
Stability provided by moment frame system only.

Slab Thickness 160mm
Column Size 500x500mm (typ.)
Beam Size 330x590mm(typ.)

Grid 6.55m x 7.47m.

This type of structural framing is appropriate for a building lower than 10 storeys high with a large plan area. It is therefore recommended that an Engineer reviews and checks the overall lateral stability of the building.

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5th Priority 3 Concern

Main building

A canopy in the corner of the Main building is poorly built and members appear to have already failed.

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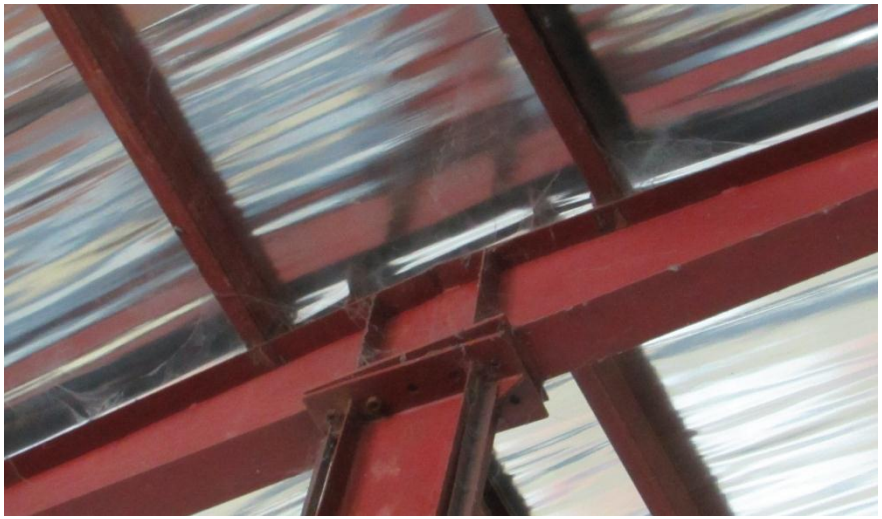
6th Priority 3 Concern

Shed building



Some steel connections appear incomplete.

The purlins should be provided with restraining tie rods.

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7th Priority 3 Concern

Shed building

The steel columns of shed building need to be provided with longitudinal cross bracing and eaves tie beams.

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8th Priority 3 Concern

Temporary steel sheds used for storage, Generator, Kitchen and Dining are made of various materials and don't appear to be adequately designed or detailed.

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Priority Actions

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Problems Observed Summary

ITEM 1: (1st Priority 3) The As-built drawings need to be revised to more accurately represent the actual existing construction.

ITEM 2: (2nd Priority 3) The loading intensity appears to be exceeded on level 1 in the store room.

ITEM 3: (3rd Priority 3) The current roof needs to be protected with a water proofing layer if the construction is not to proceed in the next six months.

ITEM 4: (4th Priority 3) The factory's Structural Engineer needs to analyse and check the overall lateral stability system under wind and seismic lateral loads.

ITEM 5: (5th Priority 3) A canopy in the corner of the Main building is poorly built and members appear to have already failed.

ITEM 6: (6th Priority 3) Some steel connections of the shed building are incomplete. The purlins should be provided with restraining tie rods.

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Problems Observed Summary

ITEM 7: (7th Priority 3) The steel columns of shed building need to be provided with longitudinal cross bracing and eaves tie beams.

ITEM 8: (8th Priority 3) Temporary steel sheds used for storage, Generator, Kitchen and Dining are made of various materials and don't appear to be adequately designed or detailed.

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Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	1st Priority 3 - The As-built drawings need to be revised to more accurately represent the actual existing construction.	The factory's Structural Engineer is to survey the actual conditions and produce proper As-built drawings as early as possible.	6-months
2	2nd Priority 3 - The loading intensity appears to be exceeded on level 1 in the store room.	Immediately reduce stacking height of cardboard boxes to ensure total load does not exceed 3.0kPa.	Immediate – Now
3	2nd Priority 3 - The loading intensity appears to be exceeded on level 1 in the store room.	Produce Loading Plans for each floor level and display these clearly. Ensure that the floor loadings are not exceeded in the future.	6-weeks
4	2nd Priority 3 - The loading intensity appears to be exceeded on level 1 in the store room.	Maintain and enforce all Loading Plans.	6-months
5	3rd Priority 3 - The current roof needs to be protected with a water proofing layer if the construction is not to proceed in the next six months.	Provide a proper waterproofing layer on the current roof level if the construction does not proceed within the next six months.	6-months
6	4th Priority 3 - The factory's Structural Engineer needs to analyse and check the overall lateral stability system under wind and seismic lateral loads.	A Structural Engineer should analyse and check the overall structural system under lateral wind and seismic loads to ensure that the building satisfies all appropriate BNBC codes.	6-weeks
7	4th Priority 3 - The factory's Structural Engineer needs to analyse and check the overall lateral stability system under wind and seismic lateral loads.	Based on the analysis results, consider whether strengthening or modification works are necessary.	6-months
8	5th Priority 3 - A canopy in the corner of the Main building is poorly built and members appear to have already failed.	The canopy either needs to be removed and replaced. Or, the canopy structure needs to be significantly strengthened.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
9	6th Priority 3 - Some steel connections of the shed building are incomplete. The purlins should be provided with restraining tie rods.	The connection need to be fixed.	6-weeks
10	6th Priority 3 - Some steel connections of the shed building are incomplete. The purlins should be provided with restraining tie rods.	Ties rod should be installed between purlins to prevent buckling.	6-months
11	7th Priority 3 - The steel columns of shed building need to be provided with longitudinal cross bracing and eaves tie beams.	Provide longitudinal cross bracing. Provide restraining eaves tie beams.	6-months
12	8th Priority 3 - Temporary steel sheds used for storage, Generator, Kitchen and Dining are made of various materials and don't appear to be adequately designed or detailed.	The detailed design of the various shed buildings need be fully reviewed and any strengthening or modifications required carried out.	6-months