

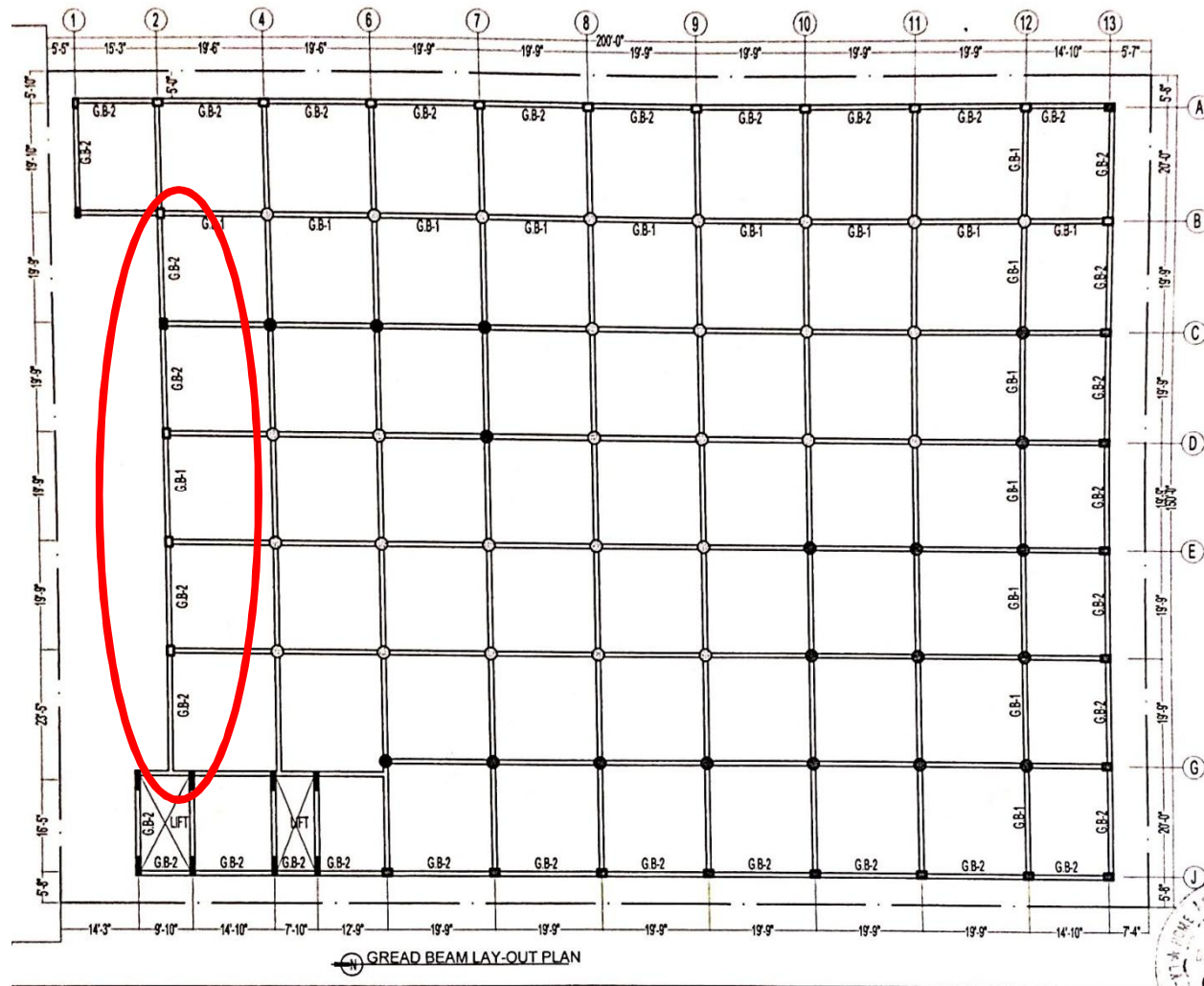
Sumi Apparels (Pvt) Ltd. #9920
Disari Poly Print & Packaging Ind. Ltd.
Disari Washing Plant

A-112, 113, (West side) BSCIC, Tongi, Gazipur
(+23.895039N, 90.414413E)

17.APRIL.2014



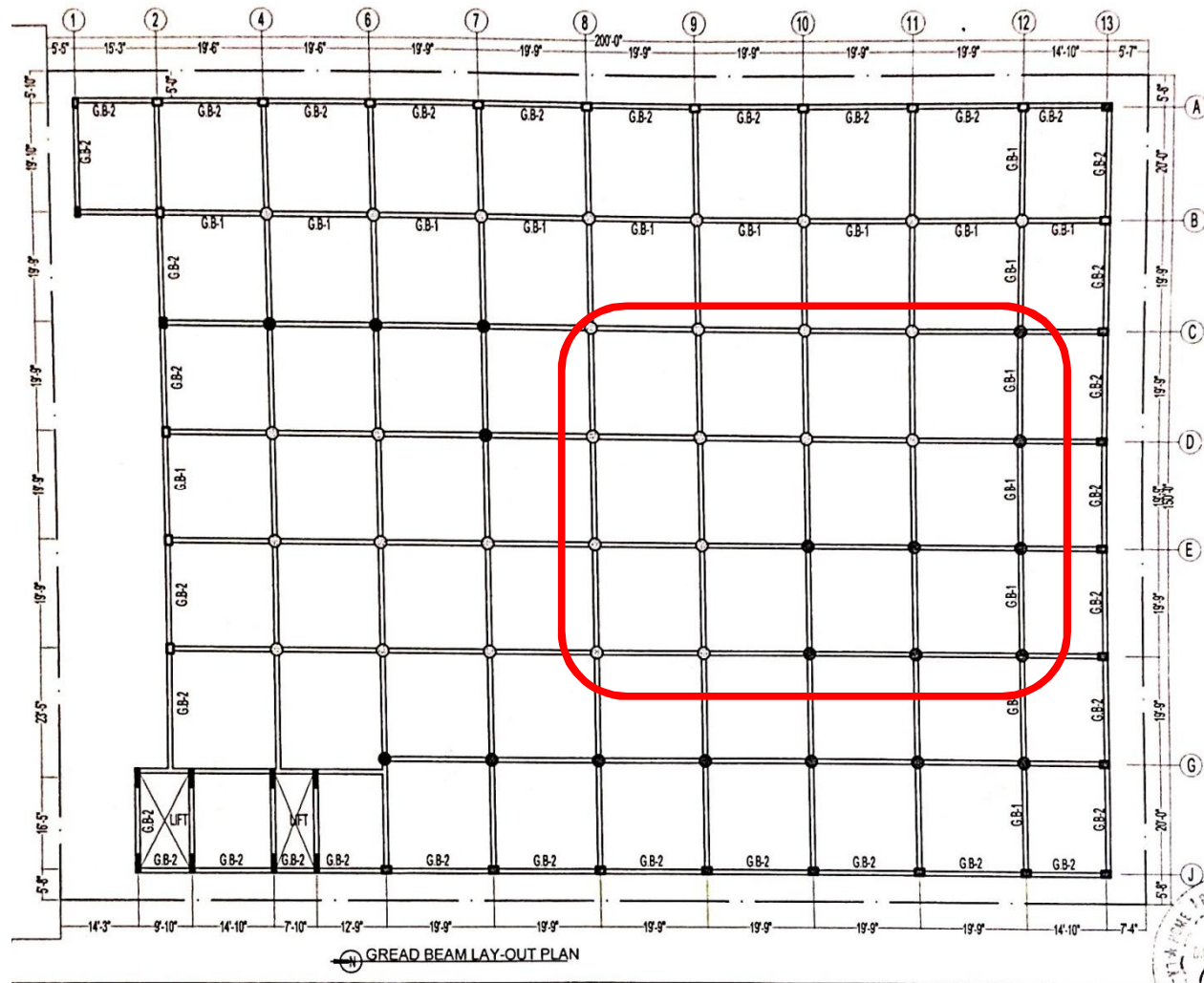
Identified Priority 1 Concerns



Priority 1 Concern

Structural drawings do not match current state or permit drawings. Cantilevers not shown. A courtyard shown on the permit drawings has been built over.

Major Concern



Major Concern

Structural drawings do not match current state or permit drawings. Courtyard shown on permit drawings has been built over. The two existing mezzanines are not shown on the permit drawings.

High storage loads on two floors. The rolls of yarn were calculated as 12kPa.



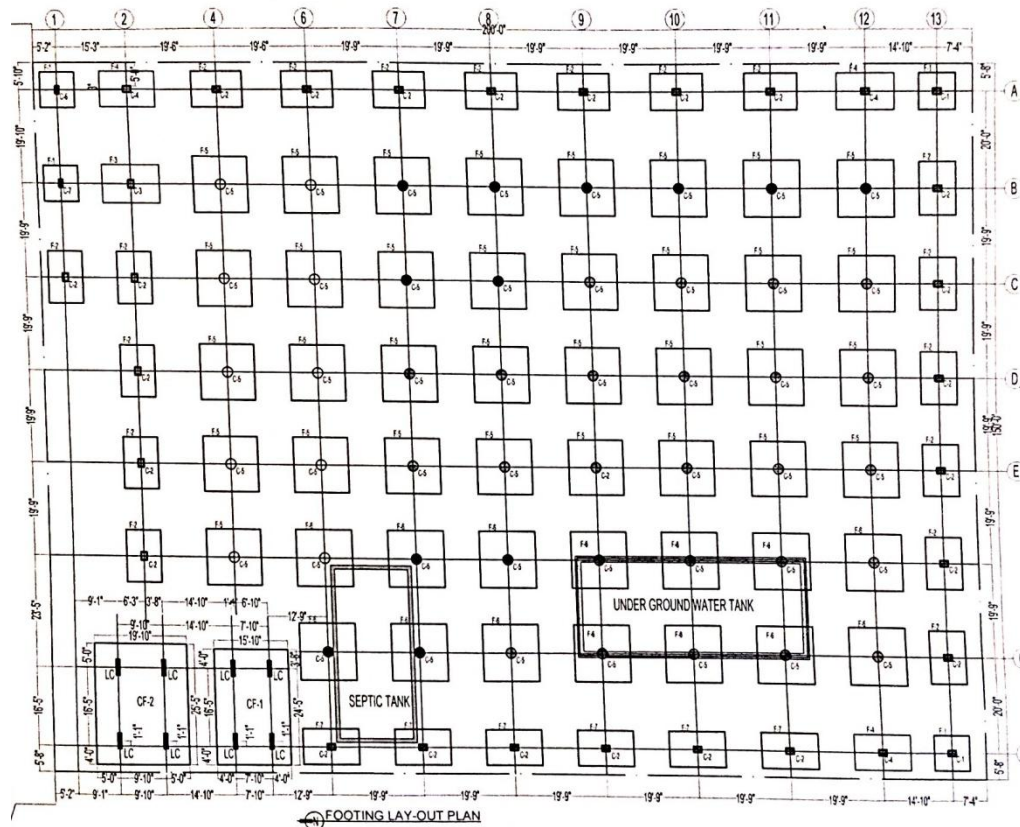
3rd Priority 1 Concern

Cracking in beams, slabs and one isolated crack in column. Cracks are shown in red for clarity



4th Priority 1 Concern

Overall Stability System



The building did not feature any core or shear walls. Stability was achieved through sway action between beams and columns and masonry infill walls.

We require that these items be investigated in a Detailed Engineering Assessment

Water Ingress at Roof Level



No waterproofing membrane was visible on the roof of the building. This means that any cracks in the surface finishes on the roof will allow water to seep into the concrete slab beneath the finishes, and cause long-term soaking of the slab.

Priority Actions

Problems Observed Summary

ITEM 1: Structural drawings do not match current state.

ITEM 2: Permit drawings do not match structural drawings or current state.

ITEM 3: High storage loads on two floors.

ITEM 4: Cracking in beams, slabs and one isolated crack in column.

Item 1 and actions

Structural drawings do not match current state. Reinforcing steel in columns and beams, cantilever lengths, and mezzanines observed do not match structural drawings. In particular, two mezzanines (one 1st story and one 2nd story) were discovered, neither of which was properly shown on structural drawings.

Priority 1 (Immediate – Now)

- The factory Structural Engineer stated that the columns and footings were designed for 8 floors (5 floors, 2 mezzanines, and a roof slab), however this is not shown on structural plans and plans to build more were observed.
- The Structural Engineer is to review the site conditions and modify drawings to suit existing conditions.

Priority 2 (within 6 – weeks)

- N/A

Priority 3 (within 6-months)

- N/A

Item 2 and actions

Permit drawings do not match structural drawings or current building. The permit drawings were designed for an 8 storey building, however the structural drawings were designed for a six storey building. In addition, an atrium is shown on the permit drawings, which was not built.

Priority 1 (Immediate – Now)

- The structural drawings were designed for 6 storeys (plus two mezzanines) however permit drawings indicate 8 storeys (plus two mezzanines).
- No more floors should be constructed until a full Detailed Engineering Assessment is carried out.

Priority 2 (within 6 – weeks)

- Submit updated drawings for revised permit drawings.

Priority 3 (within 6-months)

- N/A

Item 3 and actions

Storage was discovered on the 1st storey mezzanine and the 1st floor in excess of 12kPa. No loading plans were made available, and in addition the mezzanine was not shown on the structural drawings.

Priority 1 (Immediate – Now)

- Storage loading to be removed from these two floors down to 5kPa maximum until an engineering assessment is carried out to determine the load carrying capacity.

Priority 2 (within 6 – weeks)

- Loading plans be drawn and provided to owner/management for use.

Priority 3 (within 6-months)

- Continue to implement the Loading Plan.

Item 4 and actions

Hairline to small cracking was observed in the slabs and beams on several floors. One isolated vertical hairline crack was observed on a 1st storey mezzanine column extending from slab to slab.

Priority 1 (Immediate – Now)

- Engineering assessment be carried out to determine the cause of the cracks.

Priority 2 (within 6 – weeks)

- Remedial work be carried as required to repair cracking.

Priority 3 (within 6-months)

- N/A