

Smug Sweaters Ltd

Telipara, Gazipur
(23.997564N ,90.382987E)

15 December 2013



Building Observations

Limit density of loading in storage areas

**Plan and height restrictions to be introduced to prevent future overloading.
(Loading plans in line with design loads from engineer)**

Roof Level

**Building 1
Extension**

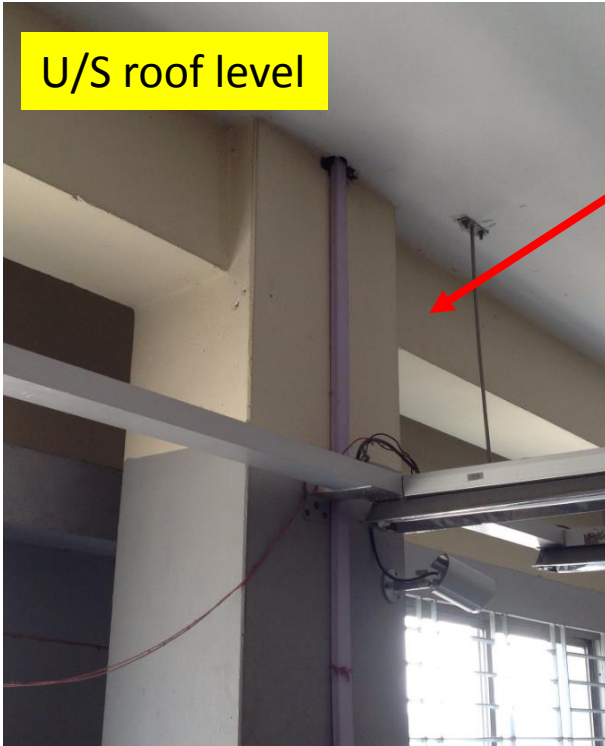
Building 1

**Uncontrolled
loading**

5th Floor

Load Management

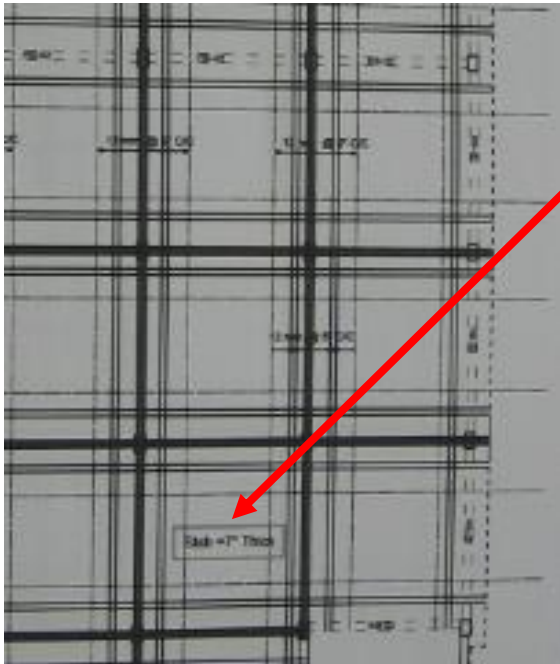
**Structural drawings not matching as built
condition (minor)**



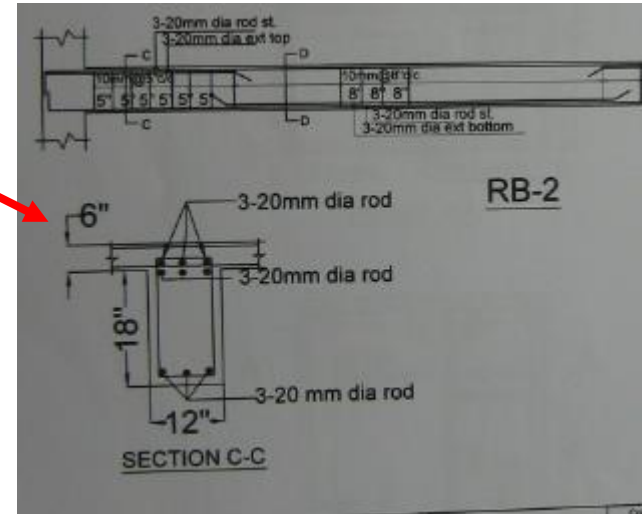
Edge beam shown on drawings at underside of roof (6th floor) but also present at underside of 4th floor



Structural drawings not matching as built



Roof slab shown as 7" on structural floor plans and 6" in roof beam sections. Roof slab appeared to be more active when jump test done. Thickness to be confirmed by engineer



Drawings titles do not correspond with the information shown on drawings. For example roof slab structural reinforcing drawings has title of Ground Floor

Incomplete set of structural drawings. For example there is no ground floor reinforcing drawings

Structural drawings not matching as built

Water damage to roof slab (area now not covered by steel roof)



Water damage showing
to ceiling of 5th floor (to
area now without steel
roof over)



Water damage below uncovered roof area

Water causing damage and risk of corrosion

**Water damage
to internal wall
at Level 1 office
area – toilet
behind**



Water causing damage and risk of corrosion

Redundant secondary structure to be removed (water treatment plant and roof structure)



Redundant secondary structures

Priority Actions

Problems Observed

1. Concrete Strength
2. Structural drawings do not match as constructed condition (minor)
3. Water damage evident to ceiling of 5th floor under area that has had steel roof removed
4. Water damage to internal wall at level 1 from toilet area
5. Redundant structure at roof level (to be removed)

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Concrete Strength	Factory Engineer to review design, loads and columns stresses in area identified above.	6-weeks
2	Concrete Strength	Verify insitu concrete stresses either by cores or existing cylinder strength data for at least 4 columns	6-weeks
3	Concrete Strength	Produce and actively manage a loading plan for all floor plates within the factory giving consideration to floor capacity and column capacity.	6-months
4	Structural drawings do not match as constructed condition (minor)	Design check all columns, beams and slabs. Produce As-Built drawings showing actual conditions and arrangement for building.	6-months
5	Water damage evident to ceiling of 5th floor under area that has had steel roof removed	Ensure exposed roof slab is waterproofed	6-months
6	Water damage to internal wall at level 1 from toilet area	Rectify waterproofing to toilet to ensure that water penetration does not corrode reinforcing steel.	6-months
7	Redundant structure at roof level (to be removed)	Consider Removing water treatment and redundant tie beams	6-months