

KIMBERLEY DESIGN

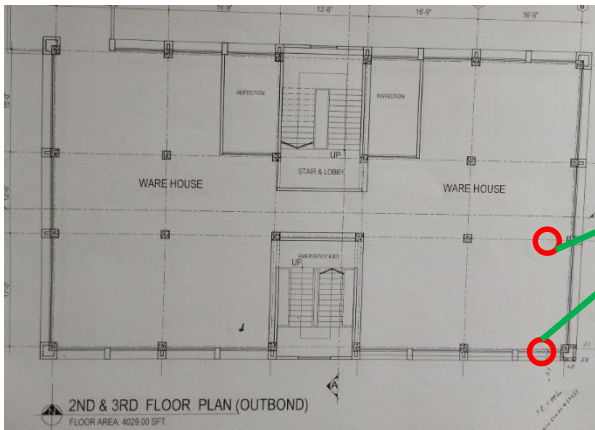
214/3, Technogpara, Joydebpur, Gazipur.
(24.003760 N, 90.386295 E)

24th October 2015



Observations

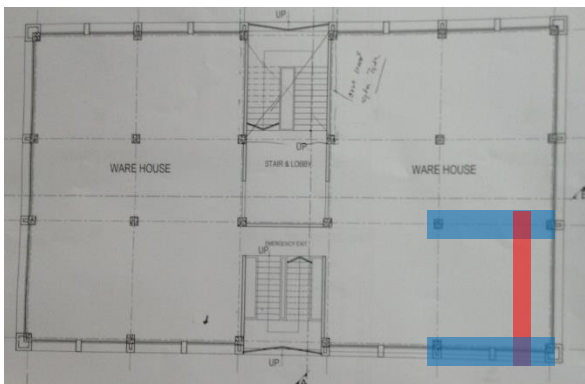
Discrepancies between Permit Drawings and Site Observations



Structural drawing of 2nd & 3rd floor



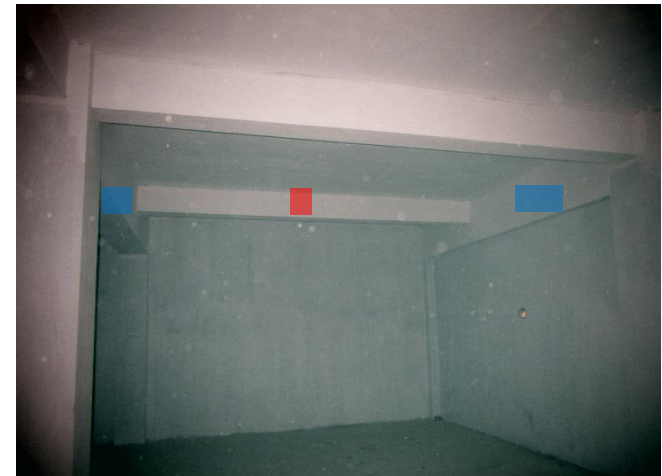
Observed columns which are shifted inwards after the 2nd floor.



Structural drawing of 1st floor

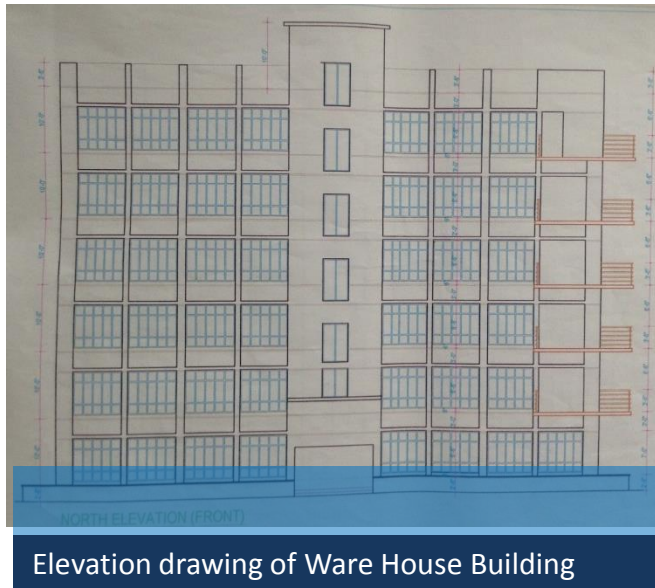
■ Shifted
Frame
Beam

■ Transfer
Beam



Shifted frame beam and transfer beams which are not present in permit drawings.

Observations – Warehouse Building (Building 2)



Elevation drawing of Ware House Building



The basement was not shown on the permit drawings. Will be used for water tanks

Observations – Warehouse Building (Building 2)



Extra Two Floors not shown on
Permit Drawings : Basement and
Marked Floor

Observations – Medical and Office Building (Building 3)

Health and Safety Issues

Factory Building – Top Floor

- Lack of fall protection at building perimeter.
- Uncontrolled storage of construction material.
- Water ponding to be prevented.

Other Buildings

- Lack of fall protection at stairs.



Observations –Factory Building

Priority Actions

Problems Observed

ITEM 1: Check the adequacy of the Transfer Beams on 2nd floor of the Warehouse Building.

ITEM 2: Verify the structural capacity of the Medical and Office Building.

ITEM 3: Structural members in the water tank at the basement level of Warehouse Building should be waterproofed.

ITEM 4: Loading plans should be prepared for storage areas.

Non structural Item

ITEM 5: Health and Safety precautions should be taken during construction to prevent falls from a height.

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Check Adequacy of Transfer Beams at Warehouse Building 2nd floor.	Building Engineer to check and verify the adequacy of the transfer beams at second floor level.	6-weeks
2	Check Adequacy of Transfer Beams at Warehouse Building 2nd floor.	Make structural alterations if required by Building Engineer.	6-months
3	Verify the structural capacity of the Medical and Office Building.	Building Engineer to provide detailed drawings and check calculations for the building which has two additional storeys when compared to permit drawings.	6-weeks
4	Verify the structural capacity of the Medical and Office Building.	Make structural alterations as required Building Engineer.	6-months

Item No.	Observation	Recommended Action Plan	Recommended Timeline
5	Waterproof structural members in water tank Warehouse Building	Structural members inside the basement water tank (fire) should be waterproofed to prevent corrosion.	6-weeks
6	Loading plans should be prepared for all storage areas	Building Engineer to prepare a detailed loading plan for all storage areas.	6-months
7	Safety Precautions during Construction	Protective measures are lacking at the roof levels and at stairs to prevent falls from a height. Measures should be taken to remove this threat to human life.	Immediate - Now