

Mondol Intimates Limited New Building

Shirir chala, Bagar Bazar, Mohona Bhabanipur, Gazipur sadar, Gazipur, Bangladesh
(24.1651181 90.4287471)
10th February 2021

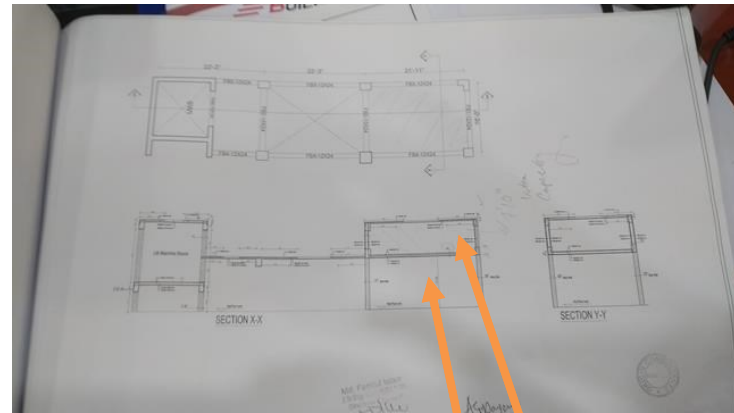
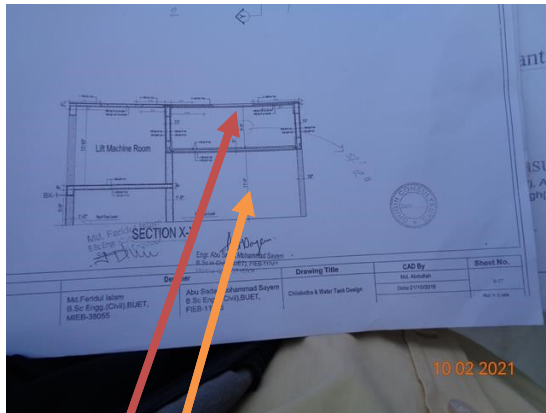


Building Information

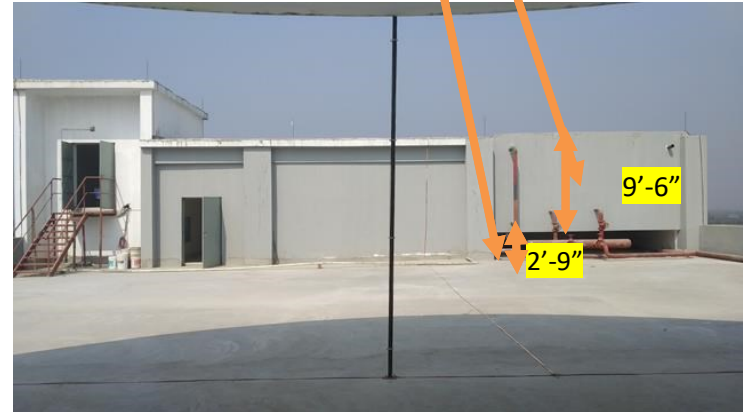
1. Factory Building (Building 2) (G+8)

Observations

Discrepancies in as-built drawing



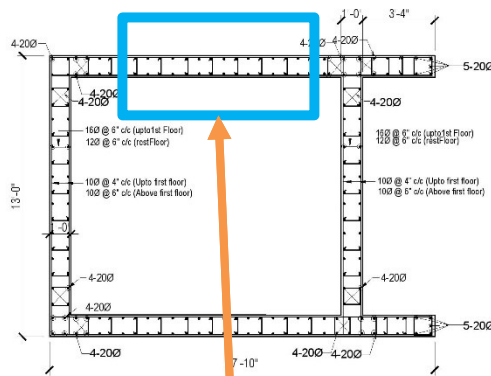
Over Head Water Tank Section



Gardening-Not shown in drawing



Stair (Roof to Helipad) supported by two brick wall, but one brick wall is shown in drawing



Lift Wall Reinforcement Detail (SW1)
Below EGL AND 1ST TO TOP FLOOR

SW1: Door Opening-
Not Shown in Drawing



Canopy at North-West Corner-Not Shown in Drawing

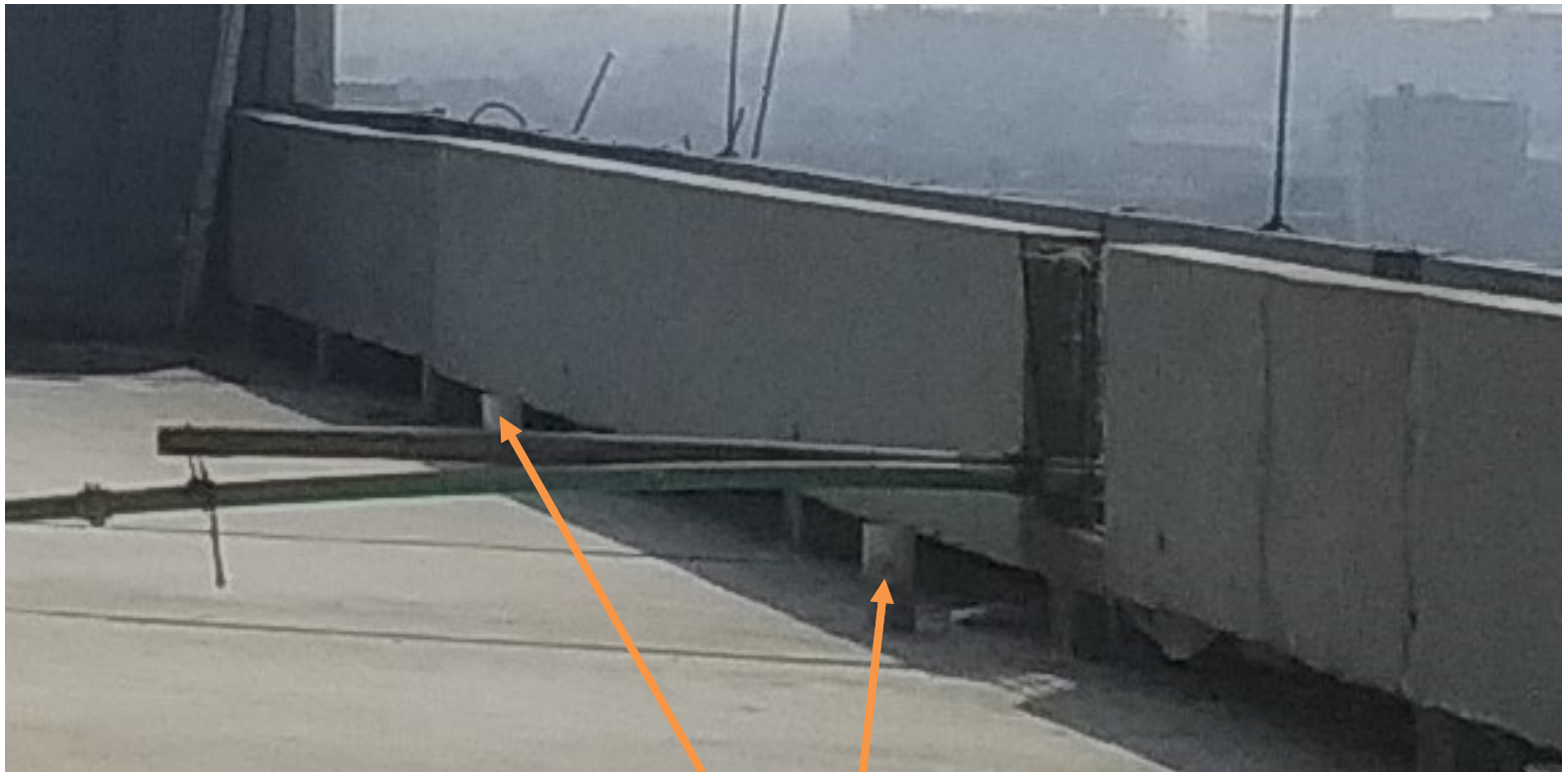
Crack in brick wall



Cracks was found in brick wall supporting stair (roof to helipad). Factory engineer is required to investigate the cause of crack and repair the crack as per recommendation from investigation report.

8 Observations: Building 2

Inactive drainage pipe at roof



Drainage pipe is not active at roof.

Adequacy Check of Canopy.



No detailing of canopy. Factory is required to produce detailing and check adequacy of canopy.

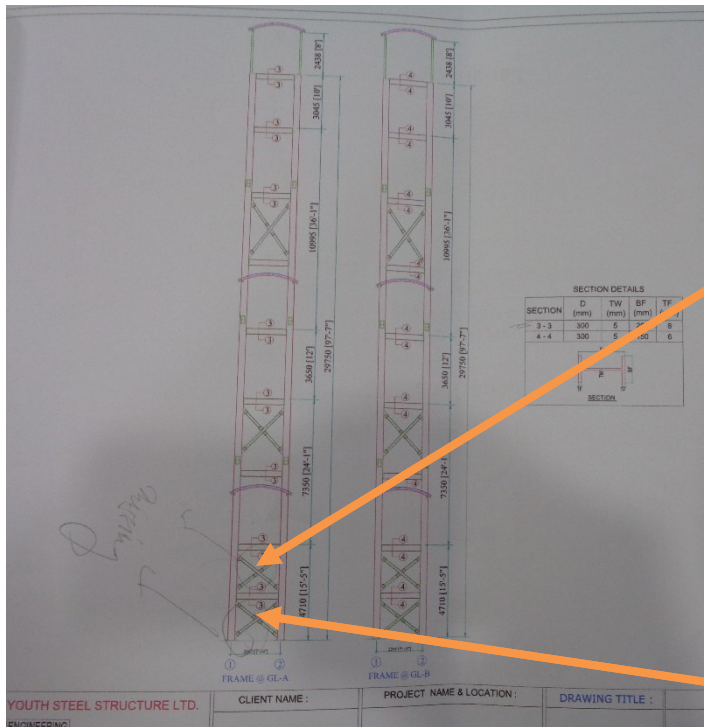
Unavailable structural design report



As per BNBC every structure designed shall have its design documents prepared in accordance with the provision of section 1.9.1. The design document shall include a design report, and a set of structural drawings, which shall be prepared in compliance with section 1.9.1.1 and section 1.9.1.2 as per BNBC.

Design report of connecting bridge was not found which is required to be prepared in compliance with section 1.9.1.1 (part-6, BNBC).

Bracing Missing at several locations



Bracing missing at several Location. Factory engineer is required to install missing bracing or check the stability of the bridge for existing condition.

Gap between pedestal column and steel base plate



Gap between pedestal column and steel base plate. Factory is required to fill the gap properly..

Plate cutting for testing- not filled



A portion is cut from flange of steel column. Factory is required to fill the portion with steel plate of same strength.

Problems Observed

Factory Building:

Item 1: Discrepancies in as-built drawing.

Item 2: Crack in brick wall.

Item 3: Inactive drainage pipe at roof.

Item 4: Adequacy Check of Canopy.

Connecting Bridge:

Item 5: Unavailable structural design report.

Item 6: Bracing missing at several locations.

Item 7: Gap between pedestal column and steel base plate.

Item 8: Plate cutting for testing- not filled.

| Item No. | Observation | Recommended Action Plan | Recommended Timeline |
|----------|---|--|----------------------|
| 01 | Discrepancies in as-built drawing [Building 2]. | Factory Engineer to survey the structure and prepare accurate as-built (architectural and structural) drawings in compliance with section 1.9.1.2 as per BNBC. | 6-weeks |
| 02 | Crack in brick wall [Building 2]. | Factory engineer is required to investigate the cause of crack and repair the crack as per recommendation from investigation report. | 6-weeks |
| 03 | Inactive drainage pipe at roof [Building 2]. | Factory engineer is required to remove all obstacles from inlet of roof drainage pipe and improve roof drainage system. | 6-weeks |
| 04 | Adequacy Check of Canopy [Building 2]. | Factory engineer is required to produce as-built drawing in compliance with section 1.9.1.2 as per BNBC. | 6-weeks |
| 05 | Adequacy Check of Canopy [Building 2]. | Check adequacy of member size and connection of canopy. | 6-weeks |

| Item No. | Observation | Recommended Action Plan | Recommended Timeline |
|----------|---|---|----------------------|
| 06 | Unavailable structural design report [Connecting Bridge]. | Factory engineer to prepare the design document including a design report, and a set of structural drawings in compliance with section 1.9.1.1 and section 1.9.1.2 as per BNBC. | 6-weeks |
| 07 | Unavailable structural design report [Connecting Bridge]. | Review the design of the structures considering the gravity & lateral loading described in BNBC. | 6-weeks |
| 08 | Bracing missing at several locations [Connecting Bridge]. | Factory engineer is required to install missing bracing or check the stability of the bridge for existing condition. | 6-weeks |
| 09 | Gap between pedestal column and steel base plate [Connecting Bridge]. | Factory engineer is required to fill the gap with suitable materials. | 6-weeks |
| 10 | Plate cutting for testing- not filled. [Connecting Bridge]. | Factory engineer is required to fill the cut portion with steel plate of same strength. | 6-weeks |