

AR-TEX COMPOSITE LTD. (EXTENSION)

Bholail, Kashipur, Fatullah, Narayangonj.

(23.620076, 90.476524)

18 November 2024



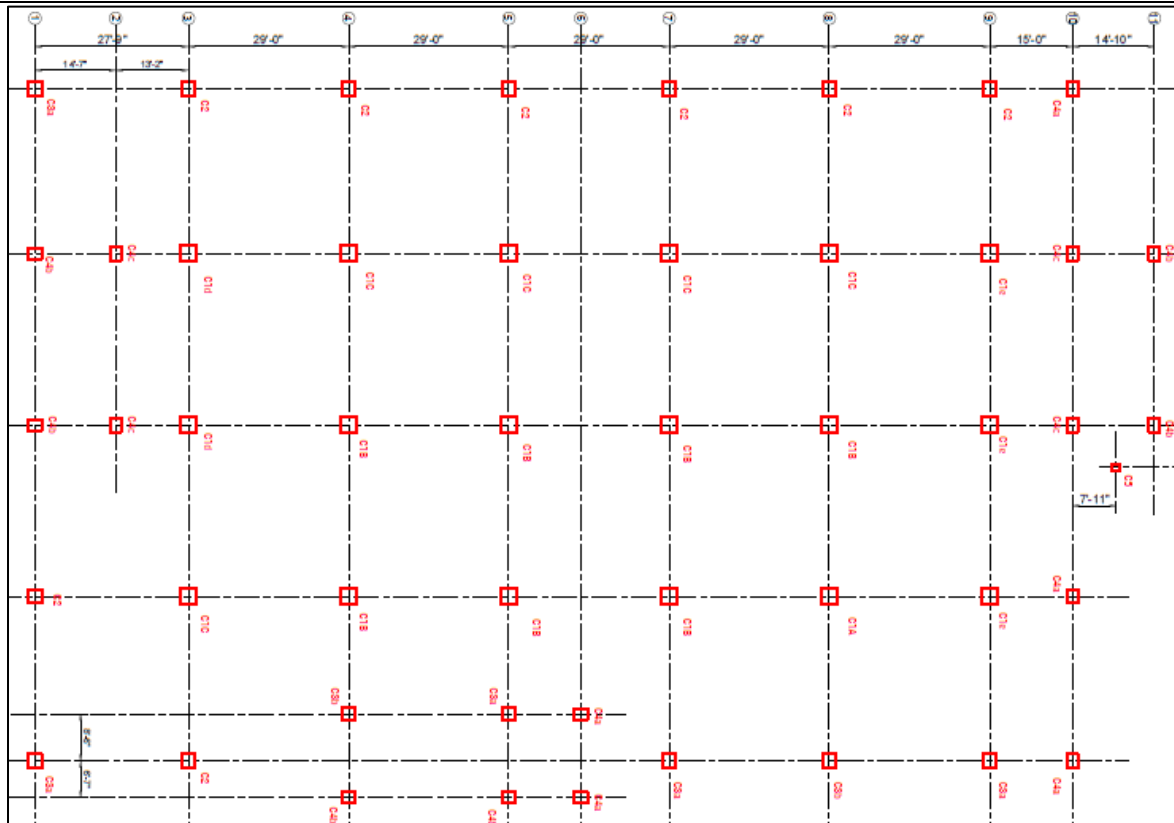
1. Building Information

Building-04 (11 Storied Garments Building): (G+10)

Building-5 (3 storied Utility Building): (G+M+2)

2. Observation

Observation-1: Stress in column marginally above the design limit and pile load test report.



Column layout plan

Description: The cursory calculation indicated that the columns are marginally stressed above the normal design limit considering the prepared live load plan and concrete strength from the core test report. Building engineer is required to review the design load and column stress. Building engineer is required to collect the pile load test report and check the pile adequacy.

Observation 2: Lack of approval drawing from the local authority. (Building 4 & Building 5)



Building-4

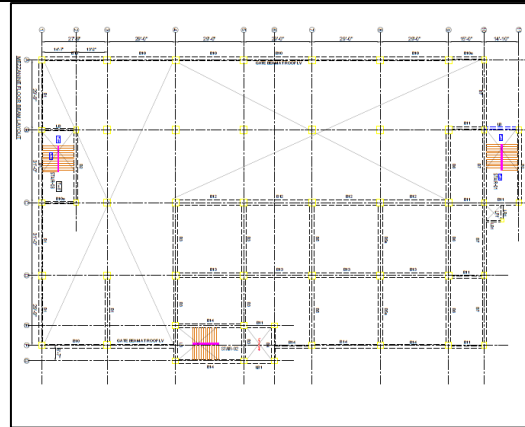
Building-5

Description: No approval from local authorities for both Building 4 & Building 5 was available. The building engineer is required to get approval from concerned authorities for each building.

Observation 3: Lack of information in as-built structural drawing (Building-04).



Tie beams with different levels



Ground floor beam layout plan

Description: During inspection, tie beams with different levels were observed on the ground floor. However, structural information for tie beams with different levels was not incorporated in the structural drawing. The building engineer is required to survey the structure and update the as-built drawing as per BNBC.

Observation-4: Unbraced storage racks on different floors (Building-04).




Description: Unbraced storage racks were observed on different floors. The building engineer is required to provide anchorage/bracing to the storage racks to protect them from falling hazards.

Observation-5: Masonry cracks on walls on different floors (Building-04).



Description: Masonry cracks were observed on walls on different floors. The building engineer is required to investigate the source of cracks and repair them accordingly.

Observation 6: Inconsistency in the design report (Building-05).

 EA REPORT
ARTEX COMPOSITE LTD

ENGINEERING ASSESSMENT REPORT

OF

EXISTING 3-STORIED RCC UTILITY BUILDING

FOR

ARTEX COMPOSITE LTD
(RSC ID: 25963)

SUBMISSION NO 1
REVISION NO 0

AT

ANAYET NAGAR, FATULLA, NARAYANGONJ.


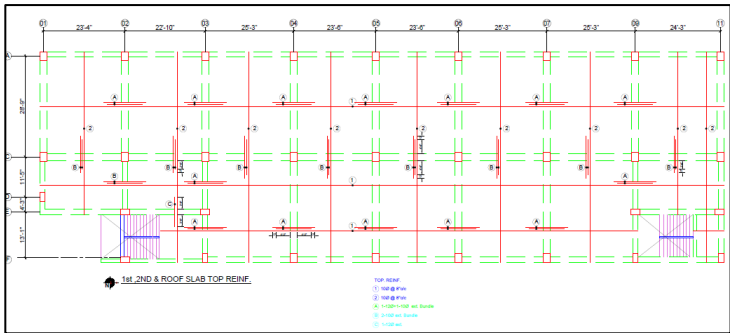
DATE OF SUBMISSION: 20/10/2024

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Design Report

Description: Seismic design consideration not comply with the BNBC. Building engineer need to address the inconsistencies and provide the necessary information in the design report. Produce the design report as per BNBC 1.9

Observation 7: Lack of information in as-built structural drawing (Building-05).

	
<u>Slab opening on 1st floor</u>	<u>1st floor slab layout plan</u>

Description: During inspection, some slab openings were observed in the 1st floor slab which is not shown in the as-built structural drawing. The building engineer is required to survey the structure and update the as-built drawing as per BNBC.

3. Action Plan

Item No.	Observation	Action Plan	Timeline
1.	Stress in column marginally above the design limit and pile load test report. (Building-04).	Building engineer is required to review the design load and column stress as per BNBC 2020.	within 6 weeks
2.		Building engineer is required to collect the pile load test report and check the pile adequacy.	within 6 weeks
3.		Implement the floor loading plan	within 6 weeks
4.		Implement remediation work if required.	within 6 months
5.	Lack of approval drawing from local authority (Building 4 & 5).	The factory is required to collect building permits from the concerned local authority.	within 6 months
6.	Lack of information in as-built structural drawing (Building-04).	The building engineer is required to survey the structure and update the as-built drawing.	within 6 weeks
7.	Unbraced storage racks on different floors (Building-04).	The building engineer is required to provide anchorage/bracing to the storage racks to protect them from falling hazards.	within 6 months
8.	Masonry cracks on walls on different floors (Building-04).	The building engineer is required to investigate the source of cracks and repair them accordingly.	within 6 months
9.	Inconsistency in the design report (Building-05)	Building engineer need to address the inconsistencies and provide the necessary information in the design report. Produce the design report as per BNBC 1.9.	within 6 weeks
10.		Implement remediation work if required.	within 6 months
11.	Lack of information in as-built structural drawing (Building-05).	The building engineer is required to survey the structure and update the as-built drawing.	within 6 weeks