

Northern Corporation Ltd.- Sreepur

Northern Garments Limited

Tepirbari, Sreepur, Gazipur, Bangladesh
(24.240588, 90.417995)
5th January 2021 & 1st February 2021



Buildings Information

1. Production Building (G+3)
2. Store Building (G+3)
3. Admin Building (G+4)
4. Utility Building (B+G+1)
5. Security Building (single storied)

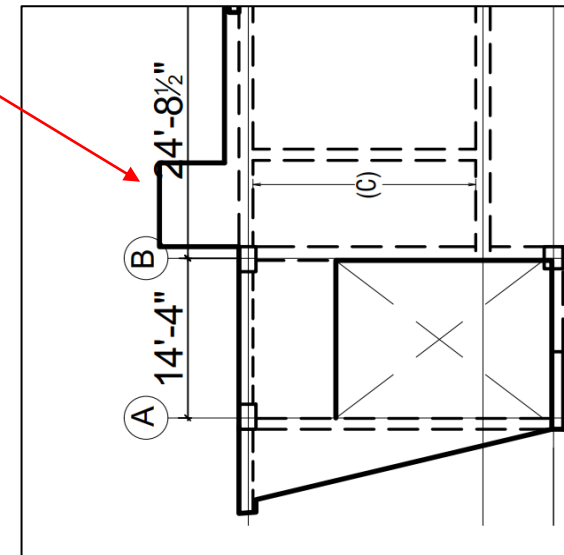
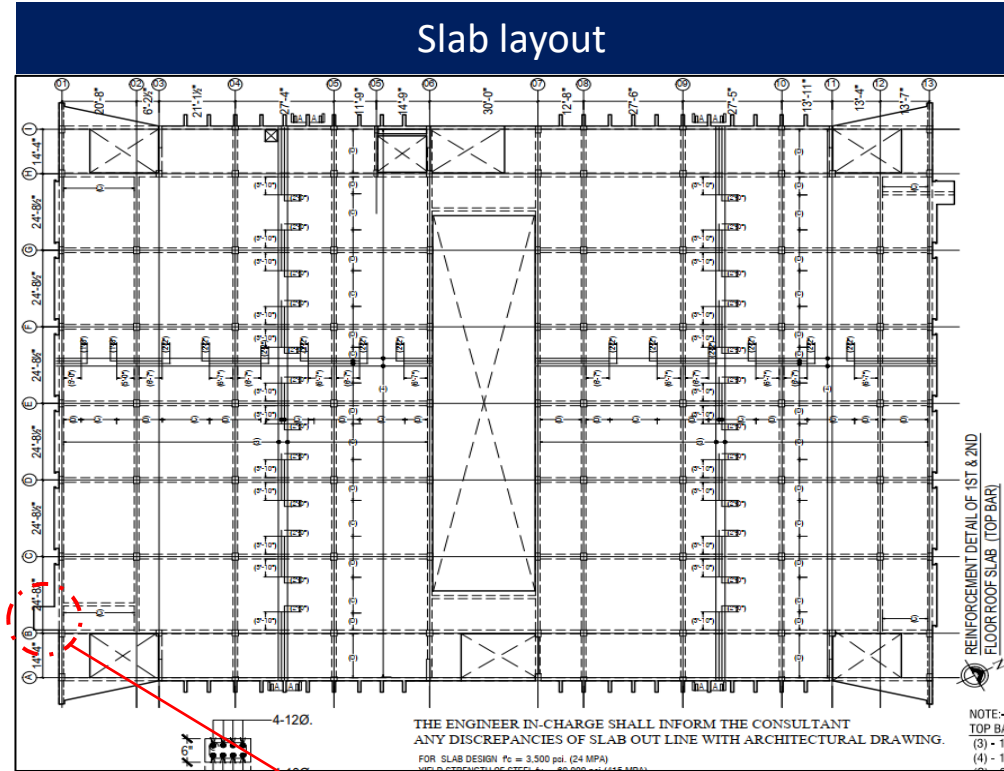
Observations

Connecting Slab between Production building and Store building



Connecting bridge between production building and store building

According to slab layout drawing of production building, the marked portion is a cantilever slab between production building and store building. But the slab was found structurally connected between both structures. This slab is susceptible to different movement from two different structures. The load transfer mechanism via this slab and capacity is required to be assessed.



Absence of design documents

Observation: Production Building

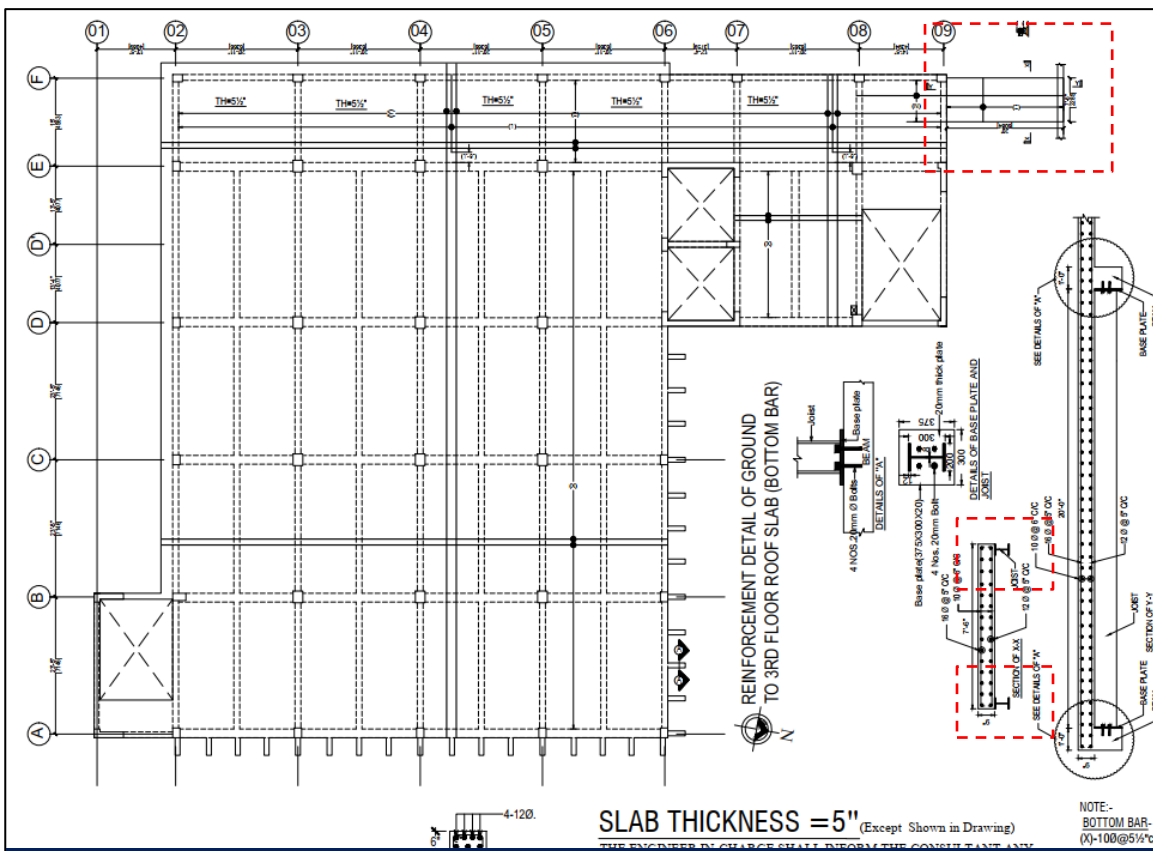
As per BNBC, every building or structure designed shall have its design documents prepared in accordance with the provision of Section 1.9.1. The design document shall include a design report, and a set of structural drawings, which shall be prepared in compliance with section 1.9.1.1 and section 1.9.1.2 as per BNBC. At the time of inspection, only as-built drawing, load plan and geotechnical report were available, but no design report was available which is required to be prepared in compliance with section 1.9.1.1 (part-6, BNBC).



No design report was available for Production Building

Discrepancies in as-built drawings of slab and lack of drawing for canopy structure

Observation: Store Building



Slab layout of store building

The slab of the connecting bridge connects the production building and store building. According to drawing, there should be two Steel I joist to support this slab. During inspection, this I joist was not found beneath of this slabs.



Slab of connecting bridge



No drawing or detailing was available for this canopy at ground floor roof level of store building.

Absence of design documents

Observation: Store Building



No design report was available for Store Building

As per BNBC, every building or 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. At the time of inspection, only as-built drawing, load plan and geotechnical report were available, but no design report was available which is required to be prepared in compliance with section 1.9.1.1 (part-6, BNBC).

Absence of design documents

Observation: Admin Building



No design report was available for Admin Building

As per BNBC, every building or 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. At the time of inspection, only as-built drawing, load plan and geotechnical report were available but no design report was available which is required to be prepared in compliance with section 1.9.1.1 (part-6, BNBC).

Column Susceptible to Impact Load on Ground Floor

Observation: Admin Building



Column of admin building on ground floor

The column of ground floor of admin building is susceptible to impact load from vehicular movement. Factory management is required to provide barrier to protect the column.

Absence of design documents

As per BNBC, every building or 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. At the time of inspection, only as-built drawing, load plan and geotechnical report were available, but no design report was available which is required to be prepared in compliance with section 1.9.1.1 (part-6, BNBC).



No design report was available for Utility Building

Problems Observed

Production Building:

- Item 1: Connecting Slab between Production building and Store building
- Item 2: Absence of design documents

Store Building :

- Item 3: Discrepancies in as-built drawings with onsite condition
- Item 4: Lack of Drawing of Canopy
- Item 5: Absence of design documents

Admin Building :

- Item 6: Absence of design documents
- Item 7: Column Susceptible to vehicle impact

Utility Building :

- Item 8: Absence of design documents

Priority Actions

Item No.	Observation	Recommended Action Plan	Recommended Timeline
01	Connecting Slab between Production building and Store building (Production Building)	Building Engineer to check the capacity of the slab of cantilever bridge and prepare an assessment report.	6-weeks
02	Connecting Slab between Production building and Store building (Production Building)	Produce & actively manage loading plan for this slab panel considering slab capacity.	6-weeks
03	Connecting Slab between Production building and Store building (Production Building)	Complete implementation of any remedial works deemed necessary by the assessment report.	6-months
04	Absence of design documents (Production Building)	Factory engineer is required to prepare the design documents 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 part 6 and submit to RSC for review.	6-weeks
05	Absence of design documents (Production Building)	Verify and actively manage prepared load plan for all floors considering floor, column and foundation capacity.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
06	Absence of design documents (Production Building)	Carry out remedial works (if any) after review by RSC.	6-months
07	Absence of design documents (Production Building)	Implement floor loading plan.	6-months
08	Discrepancies in as-built drawings of slab and lack of drawing for canopy structure (Store Building)	Building Engineer is to survey the whole structure and update as-built drawings representing accurate site condition.	6-weeks
09	Discrepancies in as-built drawings of slab and lack of drawing for canopy structure (Store Building)	Install the missing Steel I joist as per the drawing.	6-weeks
10	Absence of design documents (Store Building)	Factory engineer is required to prepare the design documents 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 part 6 and submit to RSC for review.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
11	Absence of design documents (Store Building)	Verify and actively manage prepared load plan for all floors considering floor, column and foundation capacity.	6-weeks
12	Absence of design documents (Store Building)	Carry out remedial works (if any) after review by RSC.	6-months
13	Absence of design documents (Store Building)	Implement floor loading plan.	6-months
14	Absence of design documents (Admin Building)	Factory engineer is required to prepare the design documents 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 part 6 and submit to RSC for review.	6-weeks
15	Absence of design documents (Admin Building)	Verify and actively manage prepared load plan for all floors considering floor, column and foundation capacity.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
16	Absence of design documents (Admin Building)	Carry out remedial works (if any) after review by RSC.	6-months
17	Absence of design documents (Admin Building)	Implement floor loading plan.	6-months
18	Column Susceptible to vehicle impact (Admin Building)	Building engineer is required to take necessary measures to prevent the vehicle impact by providing the barrier around the column.	6-weeks
19	Absence of design documents (Utility Building)	Factory engineer is required to prepare the design documents 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 part 6 and submit to RSC for review.	6-weeks
20	Absence of design documents (Utility Building)	Verify and actively manage prepared load plan for all floors considering floor, column and foundation capacity.	6-weeks

Item No.	Observation	Recommended Action Plan	Recommended Timeline
21	Absence of design documents (Utility Building)	Carry out remedial works (if any) after review by RSC.	6-months
22	Absence of design documents (Utility Building)	Implement floor loading plan.	6-months