Logos Apparels Ltd. (10917)

No. 73, Ward No.06, Mouchak Kaliakoir, Gazipur Bangladesh

(+24.022065N, +90.297296E)

06.APRIL.2014

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Identified Priority 2 Concerns

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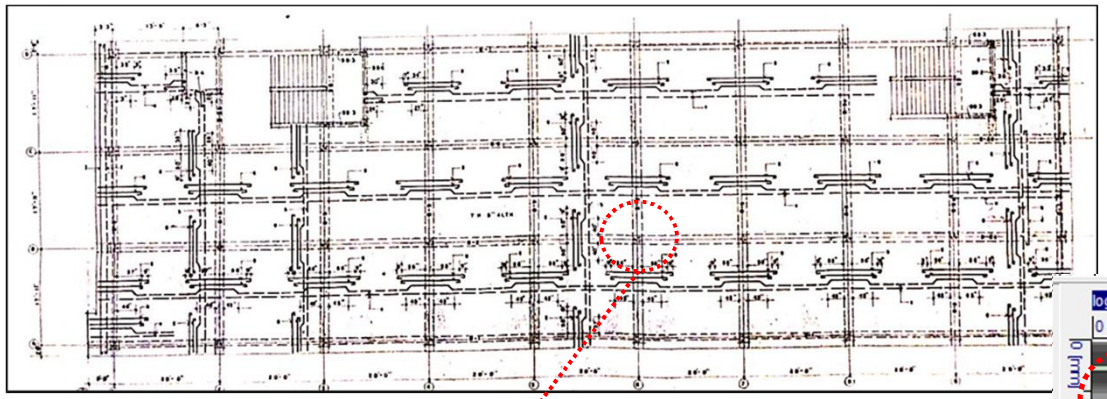
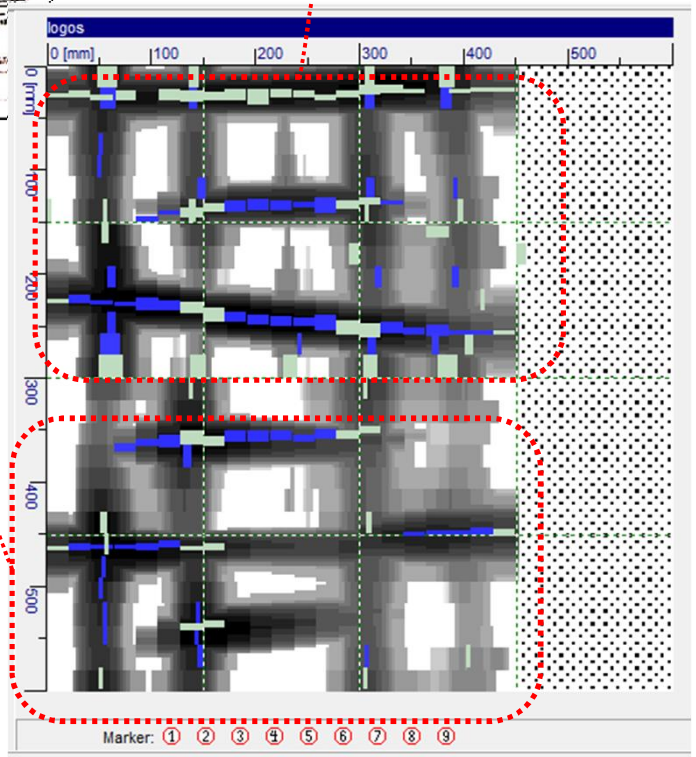
1st Priority 2 Concern

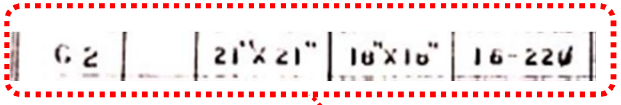


This column C2 at grid B6 was randomly checked with a Ferroscanning device.

This area shows 5 longitudinal bars.



This area shows 4 longitudinal bars.



The column C2 is supposed to have 5 bars each side.

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Identified Priority 3 Concerns

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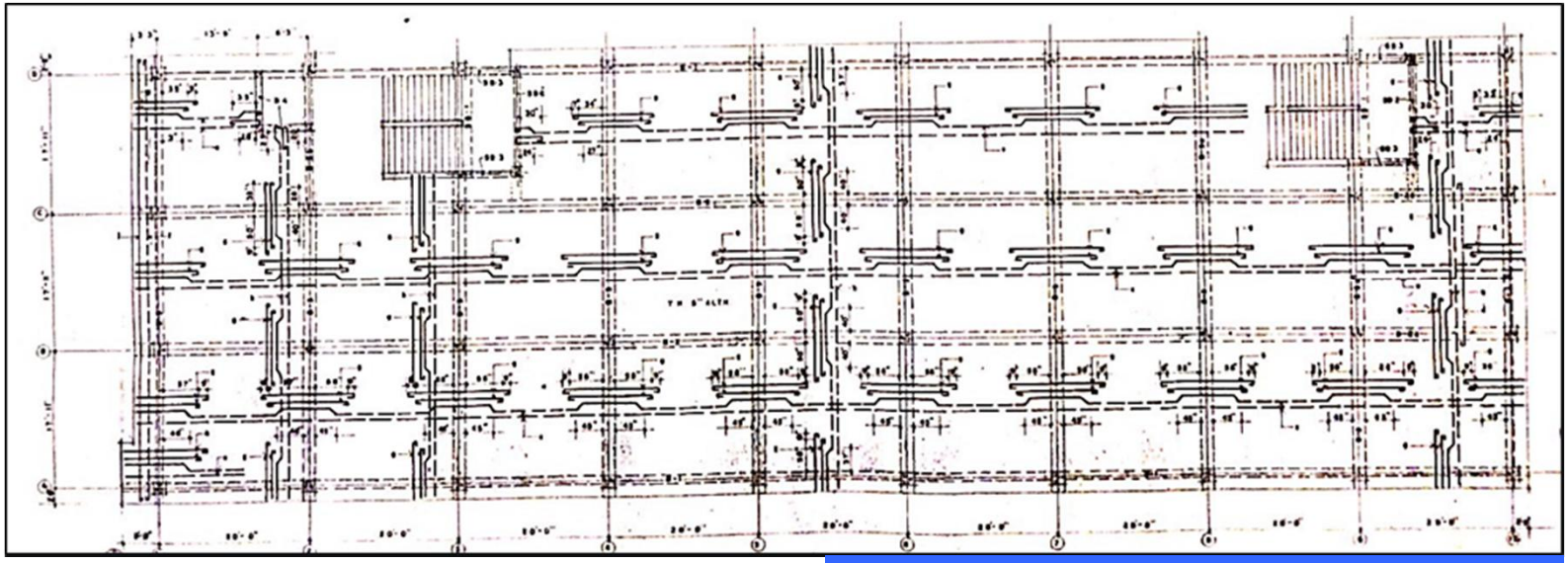
1st Priority 3 Concern



Typical 127mm concrete slab (5in)

-The slab appears to be thinner than what is required. The span/depth ratio of slab = 6090/127 = 47 > 38
-The design seems to lack a long term deflection analysis consideration.

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Priority Actions

Problems Observed Summary

ITEM 1: (1st Priority 2) An inconsistency of column reinforcement between structural design and as-built structure

ITEM 2: (1st Priority 3) Depth of slab is very thin and the design seems to lack a consideration of long term deflection analysis.

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Item 1 and actions

The Ferroscan image shows an inconsistency with the reinforcement configuration between the structural design and the as-built structure.

Priority 1 (Immediate – Now)	• None required
Priority 2 (within 6 – weeks)	• Building survey must be taken to verify the system with regard to reinforcement configuration • Building engineer to verify the system to ensure the structural consistency between design and as-built structure
Priority 3 (within 6-months)	• Building engineer to check for non-compliance

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Item 2 and actions

Very thin slabs could result in excessive long term deflections

Priority 1 (Immediate – Now)	• None required
Priority 2 (within 6 – weeks)	• Building Engineer to verify design and check with full compliance to design codes • Long term deflection criteria to be justified
Priority 3 (within 6-months)	• If the slabs are found not to comply, then remedial details should be proposed and installed.

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