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Meditex Industries Ltd (9253)

Plot #912, Kashimpur Road, Konabari, Gazipur

(+24.005503N, 90.315594E)

09.APRIL.2014

Client Summary Report

Observations & Actions

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Identified Priority 1 Concerns

(None)

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Identified Priority 2 Concerns

Low Column Safety Factors in Phase 2

Uncertainty Regarding Inconsistent As-Built Drawings

Poor Steel Framing at Rooftop Prayer Room

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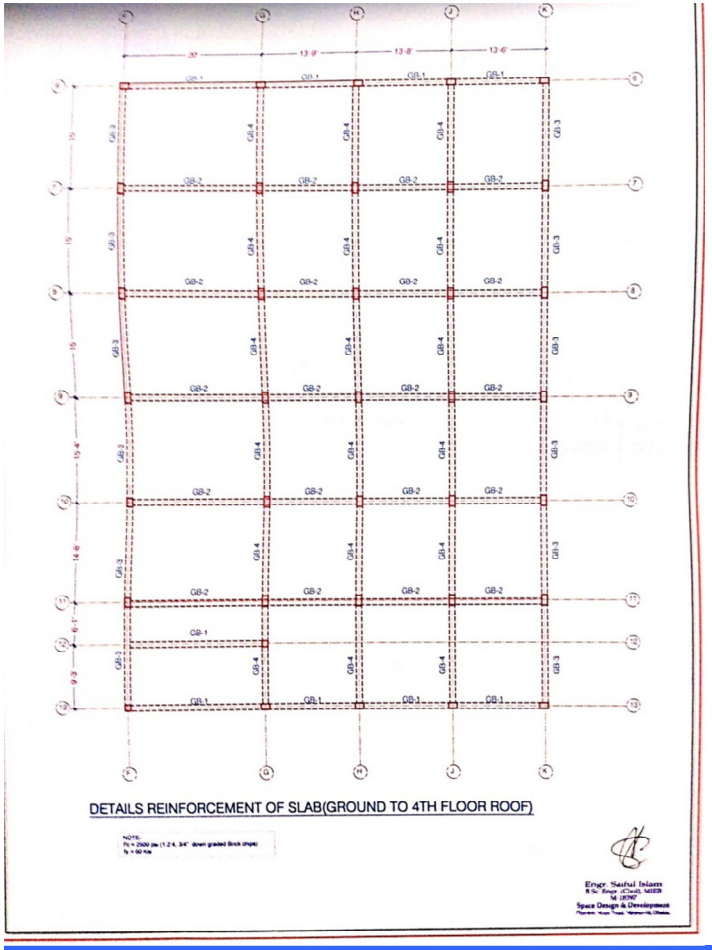
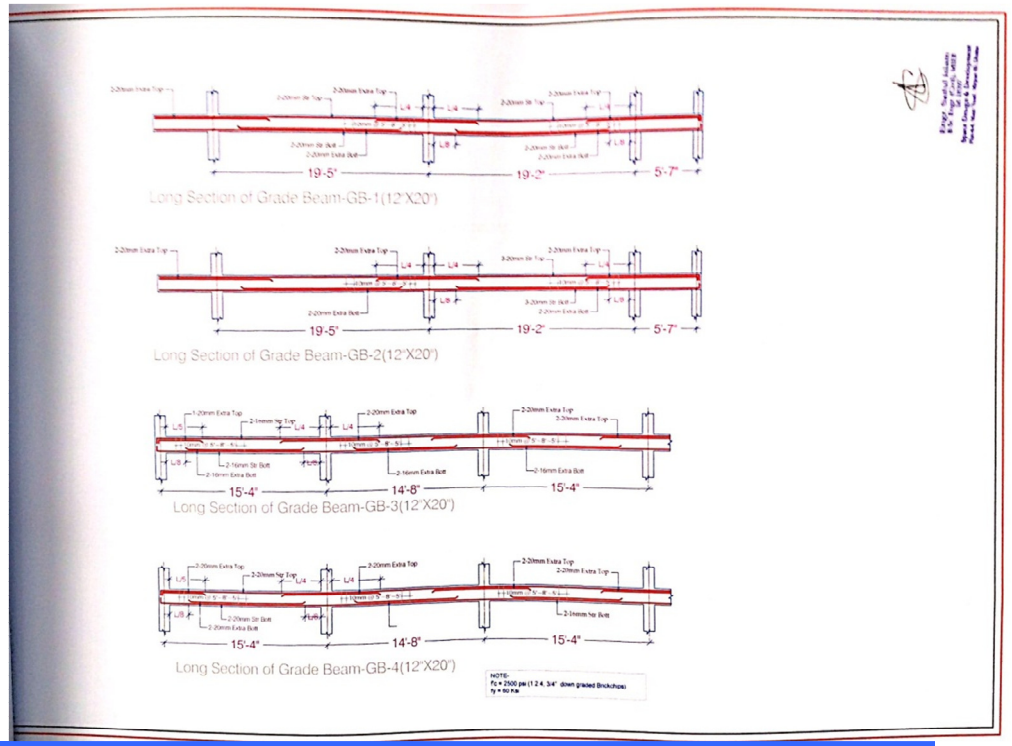
Priority 2 Concern





No original drawings were available. As-built drawings were in some cases inconsistent with the observed building construction. Notably within Phase 1, spans, beam depths and column dimensions differed from the as-built drawings.

Inconsistencies in As-Built Drawings

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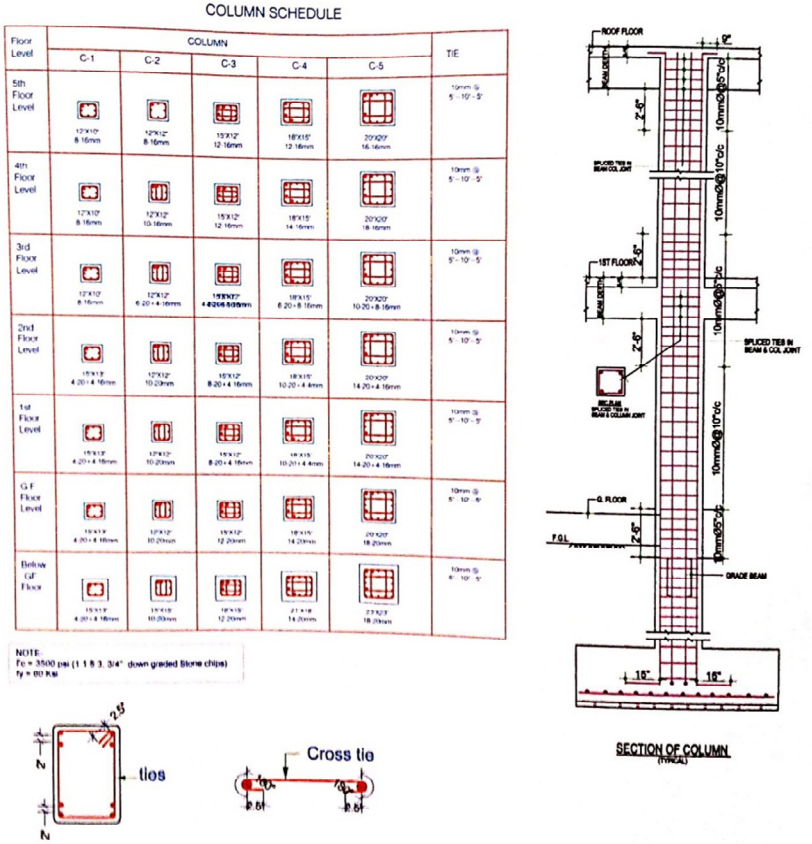
Priority 2 Concern



Within phase 2 under minimum allowable live loads, column checks yield lower than desirable safety factors.

High Column Stresses in Phase 2

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Priority 2 Concern

Exceedingly light steel sections were observed framing the shade over the rooftop prayer area.

Light Steel Framing at Rooftop Shed

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Identified Priority 3 Concerns

(None)

Overall Stability System

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Within Phases 3 & 4 there are flat slab configurations above the 1st Floor slab level. Additionally there are no shear walls or braced frames present. This creates uncertainty regarding the lateral stability of these structures.

We require that these items be investigated in a Detailed Engineering Assessment

Lateral Restraint System

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Water Ingress at Roof Level

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There was no waterproofing observed at the rooftop level

There was no evidence of water infiltration at the underside of roof slabs

Roof Waterproofing System

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Priority Actions

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Problems Observed Summary

ITEM 1: (Priority 2) As-built drawings provided are in some instances inconsistent with building construction. It was not possible for the factory engineering staff to describe how the reinforcing shown on as-built drawings had been determined.

ITEM 2: (Priority 2) Column stresses within Phase 2 are higher than desirable even under minimum allowable live loads.

ITEM 3: (Priority 2) The prayer room shade at the rooftop level was composed of very light steel framing.

ITEM 4: (Priority 2) Phases 3 & 4 are lacking an apparent lateral restraint system.

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Item 1 and actions

Inconsistent as-built drawings

Priority 1 (Immediate – Now)	• None
Priority 2 (within 6 weeks)	• Commission a detailed engineering assessment to ascertain the structural adequacy of as-built conditions as well as the quantities of existing reinforcement, sizes of structural members and building layout.
Priority 3 (within 6 months)	• Implement any works deemed necessary by the detailed engineering assessment.

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Item 2 and actions

Inconsistent as-built drawings

Priority 1 (Immediate – Now)	• None
Priority 2 (within 6 weeks)	• Detailed engineering assessment scope to include assessment of adequacy of existing columns.
Priority 3 (within 6 months)	• Implement any works deemed necessary by the detailed engineering assessment.

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Item 3 and actions

Light steel framing of rooftop prayer room shade

Priority 1 (Immediate – Now)	• None
Priority 2 (within 6 weeks)	• Remove rooftop prayer room shade or detailed engineering assessment to comment on adequacy of steel shade framing to resist wind loads.
Priority 3 (within 6 months)	• If shade is not removed, implement any recommendations made by the detailed engineering assessment

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Item 4 and actions

Phases 3 & 4 lack an apparent lateral restraint system above ground floor level.

Priority 1 (Immediate – Now)	• None required.
Priority 2 (within 6 weeks)	• Detailed engineering assessment to determine adequacy of structure to resist seismic and wind loads.
Priority 3 (within 6 months)	• Implement any works deemed necessary by the detailed engineering assessment.

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