

Tusuka Denim Ltd and Tusuka Washing Ltd

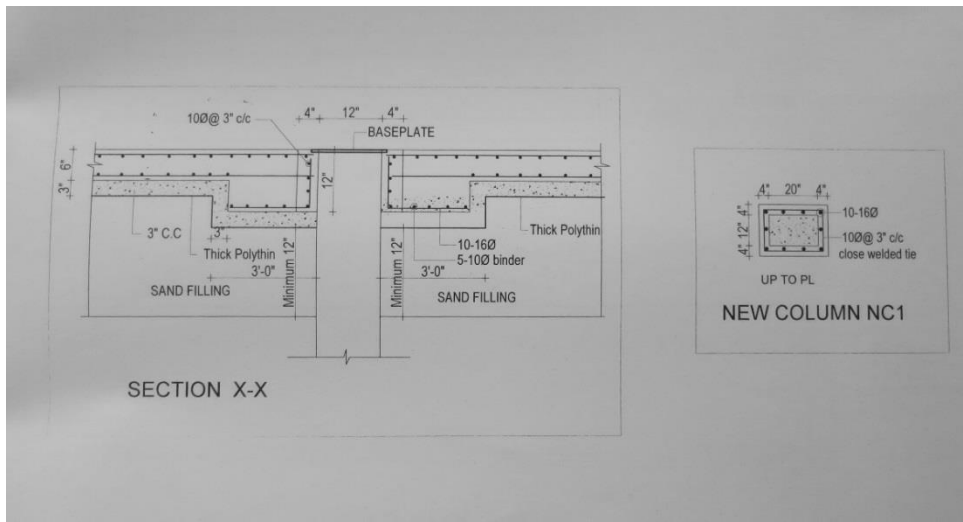
490/1, Neelnagar, Konabari, Gazipur
(24.010631, 90.328249)

1 March 2015



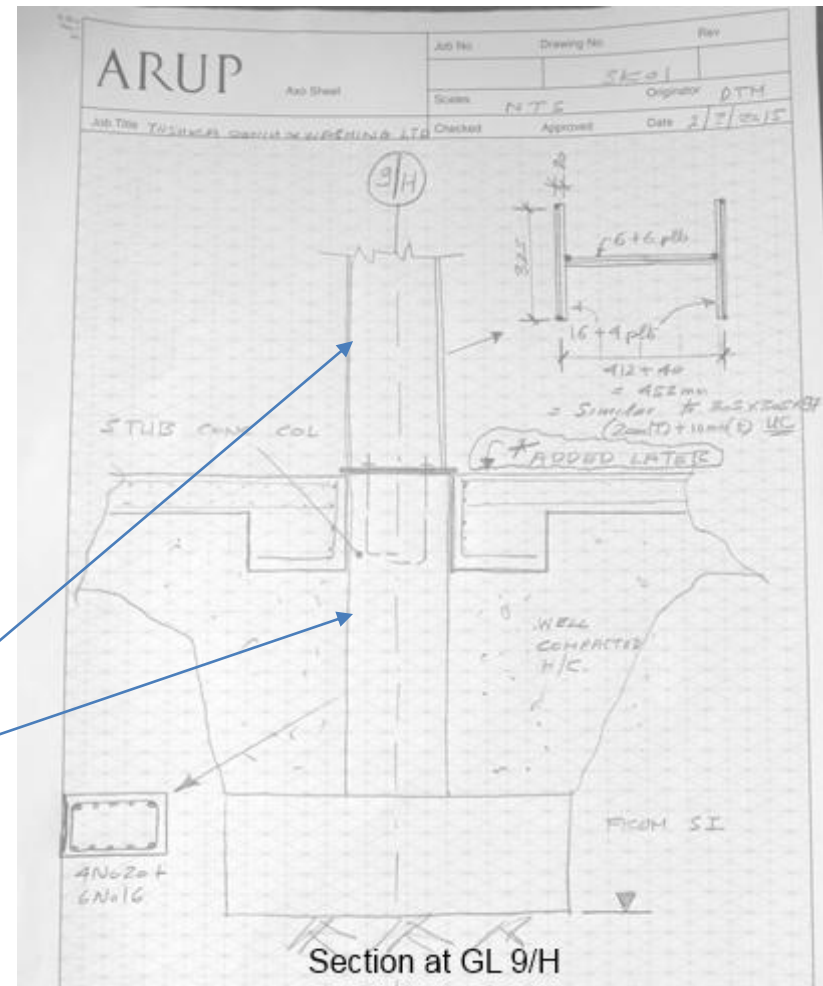
Observations Building 1

High Stress in Stub Columns



Extract from Md. Mahfuzur Rahman drawing

RC Stub column highly stressed when design loads specified in Table 1 are applied.



Section at GL 9/H Foundation

Structural System: Building 1

Soils Report has low Allowable Bearing Pressure

Soils Report – Bore hole 9

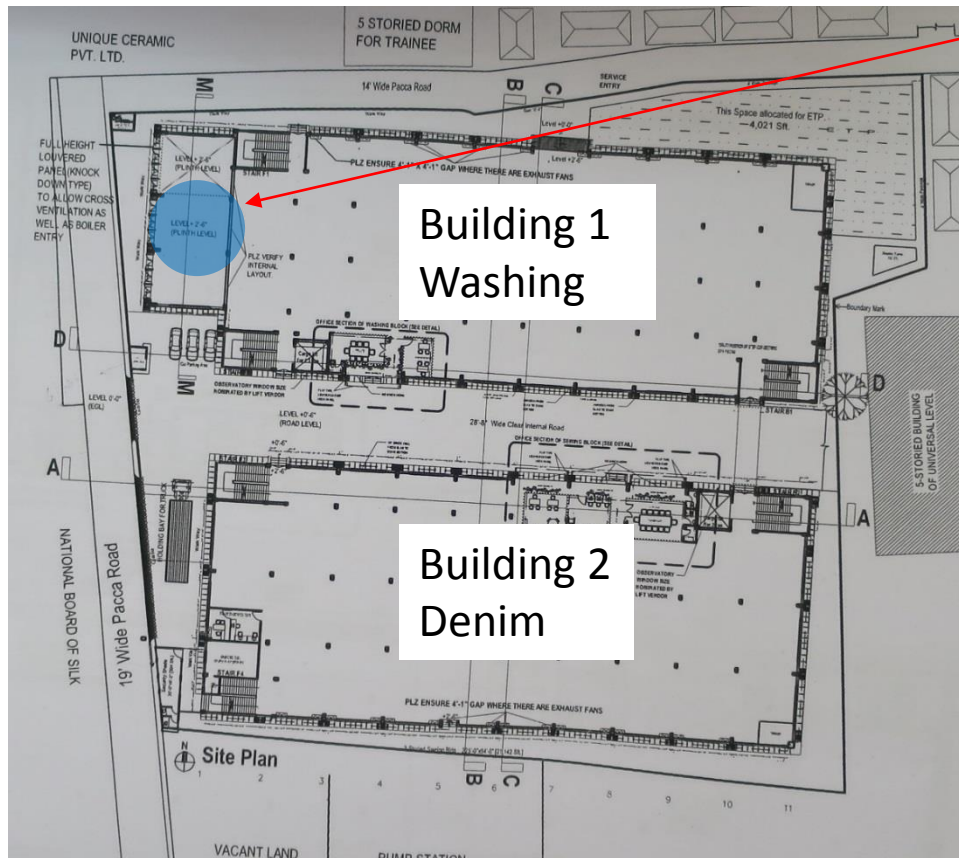


Table-1 (b): Allowable Bearing Capacity for shallow Foundation

Borehole No	Depth (m)	Cohesion, Ton/m ²	Allowable Bearing Capacity, Ton/m ² Raft foundation
BH-8	2.5	7.77	16.96
	4.0	13.42	28.18
	5.0	13.42	28.63
BH-9	2.5	4.39	9.07
	4.0	14.65	30.76
	5.0	16.11	34.37
BH-10	2.5	11.69	24.16
	4.0	17.15	36.01
	5.0	17.15	36.58
BH-11	2.5	10.30	21.28
	4.0	13.25	27.82
	5.0	13.98	29.82
BH-12	2.5	10.37	21.43
	4.0	13.83	29.04
	5.0	14.52	30.97
BH-13	2.5	11.18	23.10
	4.0	14.16	29.73
	5.0	15.65	33.38
BH-14	2.5	11.70	24.18
	4.0	16.09	33.79
	5.0	17.55	37.44

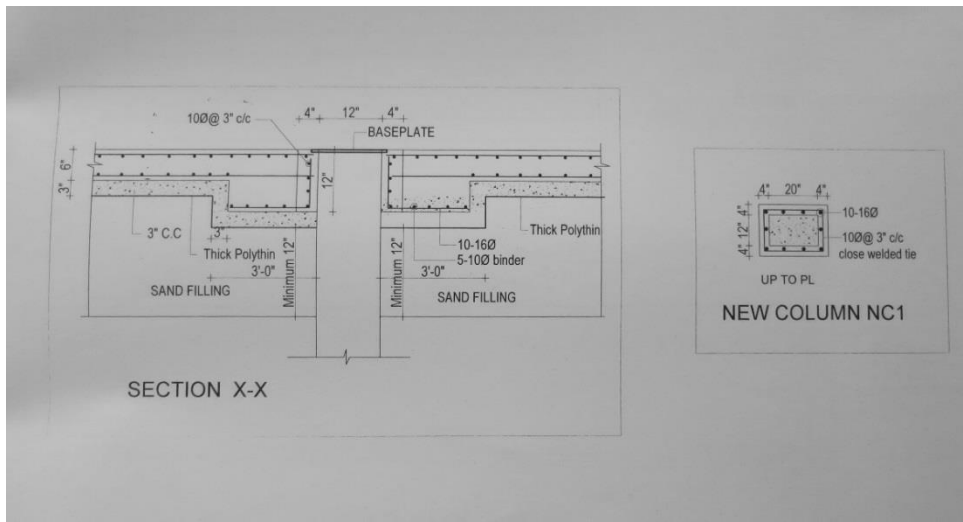
Soils Report has low Allowable Bearing Pressure

Observation: Building 1

Observations

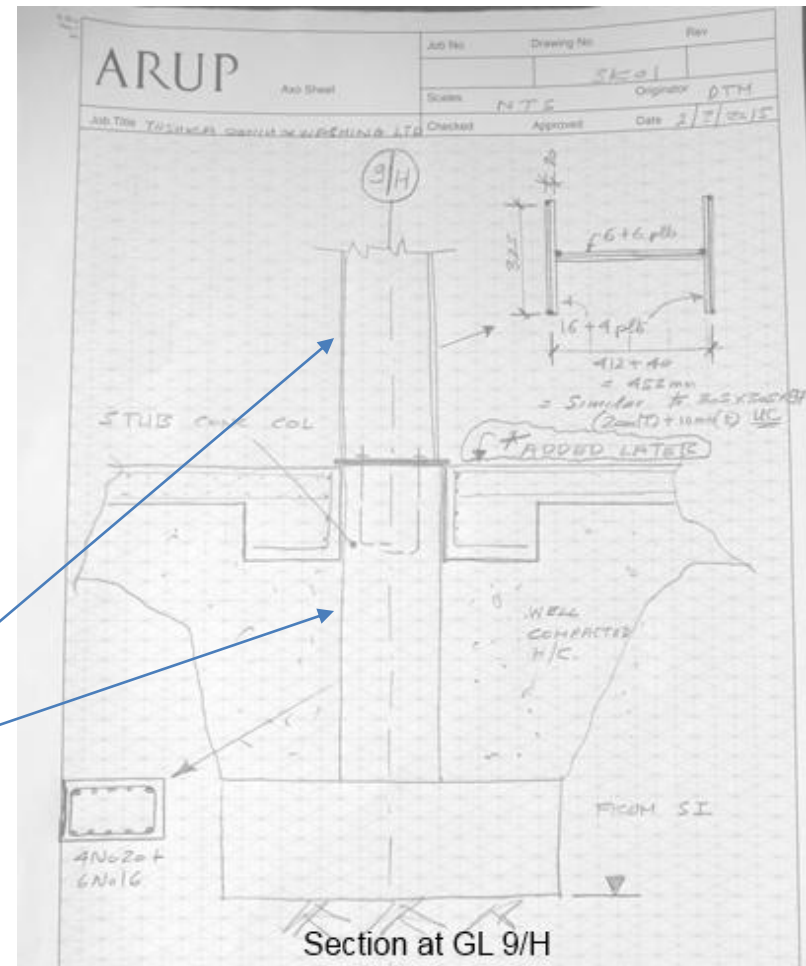
Building 2

High Stress in Stub Columns



Extract from Md. Mahfuzur Rahman drawing

RC Stub column highly stressed when design loads specified in Table 1 are applied.



Typical Section

Structural System: Building 2

Priority Actions

Problems Observed

Building 1 (Washing)

ITEM 1: High Stress in Stub Columns

ITEM 2: Soils Report has low Allowable Bearing Pressure

Building 2 (Denim)

ITEM 3: High Stress in Stub Columns

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	High Stress in Stub Columns	Factory Engineer to review design of stub columns for full loads noted in Table 1.	6-months
2	High Stress in Stub Columns	Carry out appropriate strengthening works as deemed necessary to meet code requirements for stub columns	6-months
3	High Stress in Stub Columns	Factory Engineer to prepare Allowable Loading Plans taking accounts of capacity of stub columns, allowable foundation pressure, steel columns and beams elements and of floor slabs.	6-months
4	Soils Report has low Allowable Bearing Pressure	Factory Engineer to review design of foundations at or near Bore Hole No 9 (9 Tons/sqm) shown in Soils Report.	6-months
5	Soils Report has low Allowable Bearing Pressure	Carry out appropriate strengthening works or load reduction as deemed necessary to meet allowable bearing pressure for foundations in this area	6-months