SAVFAB
CRAFTING YOUR DREAMS

दिनांक :- 22.09. 2025

सेवा में,
श्रीमान प्रभारी प्रवर्तन, जोन - 7,
गाजियाबाद विकास प्राधिकरण,
गाजियाबाद - उत्तर प्रदेश।

विषय :- सैवफैब बिल्डटेक प्रा० लि० द्वारा विकसित की जा रही ग्रुप हाउसिंग भवन की " डीड ऑफ़ डेक्लेरेशन " जमा किये जाने के सम्बन्ध में।

महोदय जी,

सैवफैब बिल्डटेक प्रा० लि० द्वारा खसरा संख्या 1125/1, 1126/1, 1131, 1144/2, 1145/1, 1146/M, 1154/1, 1132, 1127/M, 1128/1, 1129,1114,1115, 1116,1117, 1119, 1120, 1124/1, 1130, 1147, 1148, 1149, 1150,1146/M) करहेड़ा एवं (1/2,13,13,1/2) साहिबाबाद, पर ग्रुप हाउसिंग भवनों का निर्माण किया जा रहा था तथा अब जिसका निर्माण कार्य समाप्त हो चूका है। अतः हम प्रोजेक्ट की नवीनतम " डीड ऑफ़ डेक्लेरेशन " जमा करा रहे हैं।

कृपया इसका संज्ञान शीघ्र ही लेने की कृपा करें, आपकी अति कृपा होगी।

धन्यवाद

भवदीय

सैवफैब बिल्डटेक प्रा० लि०

SAVFAB BUILDTECH PVT. LTD.

JE
29/9/25
AE(enf-07)

cc:
कृ० इस DOD को प्रवर्तन के वेबसाईट पर अपलोड कराएं।
26/10/25

96/PR6
22/09/25
613/enf-07
26/9/25

FORM A

(See Rule 3)

FORM OF DECLARATION

Date: 22-09-2025

Place: GHAZIABAD

Promoter 1	Details Name:	Savfab Buildtech Pvt. Ltd. (who is the Lead Party of consortium and having Group Housing approved on land at khasra no(1125/1, 1126/1, 1131, 1144/2, 1145/1, 1146/M, 1154/1, 1132, 1127/M, 1128/1, 1129,1114,1115, 1116,1117, 1119, 1120, 1124/1, 1130, 1147, 1148, 1149, 1150,1146/m,)IN KARHERA& (1/2,13,13,1/2 IN SAHIBABAD) (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P) Registered Address: 177, BLOCK NO.-A, 4TH FLOOR, KONDLI GHAROLI, EAST DELHI, INDIA - 110096
2	Local/ Postal Address:	Village Karhera, 108, Katori Mill, Mohan Nagar Ghaziabad
3	Date of Incorporation (if applicable)	9/9/2010
4	Name/ designation of Authorized Signatory:	Mr.Vikas Kumar Gupta

The Declarant hereby solemnly states the following:

FIRST: The Promoter owns/holds the land as free hold which is fully described and detailed in Annexure 'A' to this declaration.

SECOND: The Promoter has constructed on the parcel of land, described in an Apartment Building/ Group Housing scheme, detailed below: Annexure 'A' to this declaration

S.NO	DESCRIPTION	PARTICULARS
1	Name of the building/Group Housing Scheme	Saviour Park, Mohan nagar, Ghaziabad
2	Sanctioning Authority of the plan	G.D.A
3	Date of sanction	10.08.2011
4	Muncipal No. of the property	
5	Muncipal Ward of the property	
6	Postal address of the property	Saviour park, Mohan nagar, Ghaziabad-201001
7	Name of Architect/Structural Engineer	Mr. Deepak Mehta & Mr. V.D. Sharma
8	Height of the building	45.00Mtr.
9	Scheme whether residential or commercial(other than multiplex or mall)	Residential
10	No. of Floors	G+14

SAVFAB BUILDTECH PVT. LTD.

Annexure 'A'

Details of the land of the building to which the preset declaration relates

Sl. No.	Items		
1	Location of the land of the building	Revenue village	Karhera & Sahibabad
		Tehsil	Ghaziabad
		District	Ghaziabad
2	Survey No. With area		37284.00 Sq.mtr
3	Date of the last document of title under which the promoter claims the land		Saviour Park land ownership & tilte documents have duly been verified by GDA
4	Details of Registration of the above title document	Book No.	Under various title document i.e. Sale Deeds
		Vol. No.	
		Page no.	
		Sl. No.	
		Date of regn.	
5	Boundaries of the land	North	Loni Road
		South	Other's Property
		East	Other's Property
		West	Other's Property
6	Land whether freehold or leasehold		freehold
7	If land is leasehold, the unexpired period of the lease		NA

Place: Ghaziabad

Date: 22-09-2025

Signature of declarant

With designation and seal

Annexure 'B'
(Details of Apartments) **TOWER B-1 (BLOCK A1)**
Name of condominium:
Value of condominium:

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		3BHK	88.97	0.088	1.16	Residential	As Per Price List/Mutually Agreed Upon
2		2		3BHK	88.97	0.088	1.16		
3		3		2BHK	76.56	0.0755	1		
4		4		3BHK	88.97	0.088	1.16		
5		5		3BHK	88.97	0.088	1.16		
6		6		2BHK	76.56	0.0755	1		
7	First Floor	1		3BHK	88.97	0.088	1.16		
8		2		3BHK	88.97	0.088	1.16		
9		3		2BHK	76.56	0.0755	1		
10		4		3BHK	88.97	0.088	1.16		
11		5		3BHK	88.97	0.088	1.16		
12		6		2BHK	76.56	0.0755	1		
13	Second Floor	1		3BHK	88.97	0.088	1.16		
14		2		3BHK	88.97	0.088	1.16		
15		3		2BHK	76.56	0.0755	1		
16		4		3BHK	88.97	0.088	1.16		
17		5		3BHK	88.97	0.088	1.16		
18		6		2BHK	76.56	0.0755	1		
19	Third Floor	1		3BHK	88.97	0.088	1.16		
20		2		3BHK	88.97	0.088	1.16		
21		3		2BHK	76.56	0.0755	1		
22		4		3BHK	88.97	0.088	1.16		
23		5		3BHK	88.97	0.088	1.16		
24		6		2BHK	76.56	0.0755	1		
25	Fourth Floor	1		3BHK	88.97	0.088	1.16		
26		2		3BHK	88.97	0.088	1.16		
27		3		2BHK	76.56	0.0755	1		
28		4		3BHK	88.97	0.088	1.16		
29		5		3BHK	88.97	0.088	1.16		
30		6		2BHK	76.56	0.0755	1		
31	Fifth Floor	1		3BHK	88.97	0.088	1.16		
32		2		3BHK	88.97	0.088	1.16		
33		3		2BHK	76.56	0.0755	1		
34		4		3BHK	88.97	0.088	1.16		
35		5		3BHK	88.97	0.088	1.16		
36		6		2BHK	76.56	0.0755	1		
37	Sixth Floor	1		3BHK	88.97	0.088	1.16		
38		2		3BHK	88.97	0.088	1.16		
39		3		2BHK	76.56	0.0755	1		
40		4		3BHK	88.97	0.088	1.16		
41		5		3BHK	88.97	0.088	1.16		
42		6		2BHK	76.56	0.0755	1		

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43	Seventh Floor	1		3BHK	88.97	0.088	1.16	Residential	As Per Price List/Mutually Agreed Upon
44		2		3BHK	88.97	0.088	1.16		
45		3		2BHK	76.56	0.0755	1		
46		4		3BHK	88.97	0.088	1.16		
47		5		3BHK	88.97	0.088	1.16		
48		6		2BHK	76.56	0.0755	1		
49	Eighth Floor	1		3BHK	88.97	0.088	1.16		
50		2		3BHK	88.97	0.088	1.16		
51		3		2BHK	76.56	0.0755	1		
52		4		3BHK	88.97	0.088	1.16		
53		5		3BHK	88.97	0.088	1.16		
54		6		2BHK	76.56	0.0755	1		
55	Ninth Floor	1		3BHK	88.97	0.088	1.16		
56		2		3BHK	88.97	0.088	1.16		
57		3		2BHK	76.56	0.0755	1		
58		4		3BHK	88.97	0.088	1.16		
59		5		3BHK	88.97	0.088	1.16		
60		6		2BHK	76.56	0.0755	1		
61	Tenth Floor	1		3BHK	88.97	0.088	1.16		
62		2		3BHK	88.97	0.088	1.16		
63		3		2BHK	76.56	0.0755	1		
64		4		3BHK	88.97	0.088	1.16		
65		5		3BHK	88.97	0.088	1.16		
66		6		2BHK	76.56	0.0755	1		
67	Eleventh Floor	1		3BHK	88.97	0.088	1.16		
68		2		3BHK	88.97	0.088	1.16		
69		3		2BHK	76.56	0.0755	1		
70		4		3BHK	88.97	0.088	1.16		
71		5		3BHK	88.97	0.088	1.16		
72		6		2BHK	76.56	0.0755	1		
73	Twelfth Floor	1		3BHK	88.97	0.088	1.16		
74		2		3BHK	88.97	0.088	1.16		
75		3		2BHK	76.56	0.0755	1		
76		4		3BHK	88.97	0.088	1.16		
77		5		3BHK	88.97	0.088	1.16		
78		6		2BHK	76.56	0.0755	1		
79	Thirteenth Floor	1		3BHK	88.97	0.088	1.16		
80		2		3BHK	88.97	0.088	1.16		
81		3		2BHK	76.56	0.0755	1		
82		4		3BHK	88.97	0.088	1.16		
83		5		3BHK	88.97	0.088	1.16		
84		6		2BHK	76.56	0.0755	1		
85	Fourteenth Floor	1		3BHK	88.97	0.088	1.16		
86		2		3BHK	88.97	0.088	1.16		
87		3		2BHK	76.56	0.0755	1		
88		4		3BHK	88.97	0.088	1.16		
89		5		3BHK	88.97	0.088	1.16		
90		6		2BHK	76.56	0.0755	1		
	TOTAL BLOCK				**7635**	**7.545**			

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Annexure 'B'
(Details of Apartments) **TOWER B-1 (BLOCK A2)**
Name of condominium:
Value of condominium:

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		3BHK	111.75	0.11	1.46		
2		2		3BHK	111.75	0.11	1.46		
3		3		3BHK	111.75	0.11	1.46		
4		4		3BHK	111.75	0.11	1.46		
5	First Floor	1		3BHK	111.75	0.11	1.46		
6		2		3BHK	111.75	0.11	1.46		
7		3		3BHK	111.75	0.11	1.46		
8		4		3BHK	111.75	0.11	1.46		
9	Second Floor	1		3BHK	111.75	0.11	1.46		
10		2		3BHK	111.75	0.11	1.46		
11		3		3BHK	111.75	0.11	1.46		
12		4		3BHK	111.75	0.11	1.46		
13	Third Floor	1		3BHK	111.75	0.11	1.46		
14		2		3BHK	111.75	0.11	1.46		
15		3		3BHK	111.75	0.11	1.46		
16		4		3BHK	111.75	0.11	1.46		
17	Fourth Floor	1		3BHK	111.75	0.11	1.46		
18		2		3BHK	111.75	0.11	1.46		
19		3		3BHK	111.75	0.11	1.46		
20		4		3BHK	111.75	0.11	1.46		
21	Fifth Floor	1		3BHK	111.75	0.11	1.46		
22		2		3BHK	111.75	0.11	1.46		
23		3		3BHK	111.75	0.11	1.46		
24		4		3BHK	111.75	0.11	1.46		
25	Sixth Floor	1		3BHK	111.75	0.11	1.46		
26		2		3BHK	111.75	0.11	1.46		
27		3		3BHK	111.75	0.11	1.46		
28		4		3BHK	111.75	0.11	1.46		
29	Seventh Floor	1		3BHK	111.75	0.11	1.46		
30		2		3BHK	111.75	0.11	1.46		
31		3		3BHK	111.75	0.11	1.46		
32		4		3BHK	111.75	0.11	1.46		
33	Eighth Floor	1		3BHK	111.75	0.11	1.46		
34		2		3BHK	111.75	0.11	1.46		
35		3		3BHK	111.75	0.11	1.46		
36		4		3BHK	111.75	0.11	1.46		
37	Ninth Floor	1		3BHK	111.75	0.11	1.46		
38		2		3BHK	111.75	0.11	1.46		
39		3		3BHK	111.75	0.11	1.46		
40		4		3BHK	111.75	0.11	1.46		
41	Tenth Floor	1		3BHK	111.75	0.11	1.46		
42		2		3BHK	111.75	0.11	1.46		
43		3		3BHK	111.75	0.11	1.46		
44		4		3BHK	111.75	0.11	1.46		
45	Eleventh Floor	1		3BHK	111.75	0.11	1.46		
46		2		3BHK	111.75	0.11	1.46		
47		3		3BHK	111.75	0.11	1.46		
48		4		3BHK	111.75	0.11	1.46		
49	Twelfth Floor	1		3BHK	111.75	0.11	1.46		
50		2		3BHK	111.75	0.11	1.46		
51		3		3BHK	111.75	0.11	1.46		
52		4		3BHK	111.75	0.11	1.46		
53	Thirteenth Floor	1		3BHK	111.75	0.11	1.46		
54		2		3BHK	111.75	0.11	1.46		
55		3		3BHK	111.75	0.11	1.46		
56		4		3BHK	111.75	0.11	1.46		
57	Fourteenth Floor	1		3BHK	111.75	0.11	1.46		
58		2		3BHK	111.75	0.11	1.46		
59		3		3BHK	111.75	0.11	1.46		
60		4		3BHK	111.75	0.11	1.46		
	TOTAL BLOCK				6705	6.6			

Residential

As Per Price List/Mutually Agreed Upon

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Annexure 'B'
(Details of Apartments) **TOWER B-1 (BLOCK A3)**
Name of condominium:
Value of condominium:

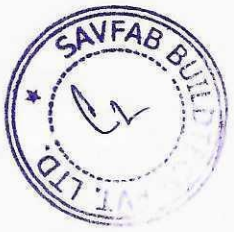
SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		2BHK	76.56	0.0755	1		
2		2		2BHK	76.56	0.0755	1		
3		3		2BHK	76.56	0.0755	1		
4		4		3BHK	88.97	0.088	1.16		
5		5		3BHK	88.97	0.088	1.16		
6		6		2BHK	76.56	0.0755	1		
7	First Floor	1		2BHK	76.56	0.0755	1		
8		2		2BHK	76.56	0.0755	1		
9		3		2BHK	76.56	0.0755	1		
10		4		3BHK	88.97	0.088	1.16		
11		5		3BHK	88.97	0.088	1.16		
12		6		2BHK	76.56	0.0755	1		
13	Second Floor	1		2BHK	76.56	0.0755	1		
14		2		2BHK	76.56	0.0755	1		
15		3		2BHK	76.56	0.0755	1		
16		4		3BHK	88.97	0.088	1.16		
17		5		3BHK	88.97	0.088	1.16		
18		6		2BHK	76.56	0.0755	1		
19	Third Floor	1		2BHK	76.56	0.0755	1		
20		2		2BHK	76.56	0.0755	1		
21		3		2BHK	76.56	0.0755	1		
22		4		3BHK	88.97	0.088	1.16		
23		5		3BHK	88.97	0.088	1.16		
24		6		2BHK	76.56	0.0755	1		
25	Fourth Floor	1		2BHK	76.56	0.0755	1		
26		2		2BHK	76.56	0.0755	1		
27		3		2BHK	76.56	0.0755	1		
28		4		3BHK	88.97	0.088	1.16		
29		5		3BHK	88.97	0.088	1.16		
30		6		2BHK	76.56	0.0755	1		
31	Fifth Floor	1		2BHK	76.56	0.0755	1		
32		2		2BHK	76.56	0.0755	1		
33		3		2BHK	76.56	0.0755	1		
34		4		3BHK	88.97	0.088	1.16		
35		5		3BHK	88.97	0.088	1.16		
36		6		2BHK	76.56	0.0755	1		
37	Sixth Floor	1		2BHK	76.56	0.0755	1		
38		2		2BHK	76.56	0.0755	1		
39		3		2BHK	76.56	0.0755	1		
40		4		3BHK	88.97	0.088	1.16		
41		5		3BHK	88.97	0.088	1.16		
42		6		2BHK	76.56	0.0755	1		
43	Seventh Floor	1		2BHK	76.56	0.0755	1		
44		2		2BHK	76.56	0.0755	1		
45		3		2BHK	76.56	0.0755	1		
46		4		3BHK	88.97	0.088	1.16		
47		5		3BHK	88.97	0.088	1.16		
48		6		2BHK	76.56	0.0755	1		

Residential

As Per Price List/Mutually Agreed Upon

SAVFAB BUILDTECH PVT. LTD.

49	Eighth Floor	1		2BHK	76.56	0.0755	1	Residential	As Per Price List/Mutually Agreed Upon
50		2		2BHK	76.56	0.0755	1		
51		3		2BHK	76.56	0.0755	1		
52		4		3BHK	88.97	0.088	1.16		
53		5		3BHK	88.97	0.088	1.16		
54		6		2BHK	76.56	0.0755	1		
55	Ninth Floor	1		2BHK	76.56	0.0755	1		
56		2		2BHK	76.56	0.0755	1		
57		3		2BHK	76.56	0.0755	1		
58		4		3BHK	88.97	0.088	1.16		
59		5		3BHK	88.97	0.088	1.16		
60		6		2BHK	76.56	0.0755	1		
61	Tenth Floor	1		2BHK	76.56	0.0755	1		
62		2		2BHK	76.56	0.0755	1		
63		3		2BHK	76.56	0.0755	1		
64		4		3BHK	88.97	0.088	1.16		
65		5		3BHK	88.97	0.088	1.16		
66		6		2BHK	76.56	0.0755	1		
67	Eleventh Floor	1		2BHK	76.56	0.0755	1		
68		2		2BHK	76.56	0.0755	1		
69		3		2BHK	76.56	0.0755	1		
70		4		3BHK	88.97	0.088	1.16		
71		5		3BHK	88.97	0.088	1.16		
72		6		2BHK	76.56	0.0755	1		
73	Twelfth Floor	1		2BHK	76.56	0.0755	1		
74		2		2BHK	76.56	0.0755	1		
75		3		2BHK	76.56	0.0755	1		
76		4		3BHK	88.97	0.088	1.16		
77		5		3BHK	88.97	0.088	1.16		
78		6		2BHK	76.56	0.0755	1		
79	Thirteenth Floor	1		2BHK	76.56	0.0755	1		
80		2		2BHK	76.56	0.0755	1		
81		3		2BHK	76.56	0.0755	1		
82		4		3BHK	88.97	0.088	1.16		
83		5		3BHK	88.97	0.088	1.16		
84		6		2BHK	76.56	0.0755	1		
85	Fourteenth Floor	1		2BHK	76.56	0.0755	1		
86		2		2BHK	76.56	0.0755	1		
87		3		2BHK	76.56	0.0755	1		
88		4		3BHK	88.97	0.088	1.16		
89		5		3BHK	88.97	0.088	1.16		
90		6		2BHK	76.56	0.0755	1		
	TOTAL BLOCK				7262.7	7.17			



Annexure 'B'
(Details of Apartments) **TOWER B-1 (BLOCK A4)**
Name of condominium:
Value of condominium:

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		3BHK	88.97	0.088	1.16	Residential	As Per Price List/Mutually Agreed Upon
2		2		3BHK	88.97	0.088	1.16		
3		3		2BHK	76.56	0.0755	1		
4		4		2BHK	76.56	0.0755	1		
5	First Floor	1		3BHK	88.97	0.088	1.16		
6		2		3BHK	88.97	0.088	1.16		
7		3		2BHK	76.56	0.0755	1		
8		4		2BHK	76.56	0.0755	1		
9	Second Floor	1		3BHK	88.97	0.088	1.16		
10		2		3BHK	88.97	0.088	1.16		
11		3		2BHK	76.56	0.0755	1		
12		4		2BHK	76.56	0.0755	1		
13	Third Floor	1		3BHK	88.97	0.088	1.16		
14		2		3BHK	88.97	0.088	1.16		
15		3		2BHK	76.56	0.0755	1		
16		4		2BHK	76.56	0.0755	1		
17	Fourth Floor	1		3BHK	88.97	0.088	1.16		
18		2		3BHK	88.97	0.088	1.16		
19		3		2BHK	76.56	0.0755	1		
20		4		2BHK	76.56	0.0755	1		
21	Fifth Floor	1		3BHK	88.97	0.088	1.16		
22		2		3BHK	88.97	0.088	1.16		
23		3		2BHK	76.56	0.0755	1		
24		4		2BHK	76.56	0.0755	1		
25	Sixth Floor	1		3BHK	88.97	0.088	1.16		
26		2		3BHK	88.97	0.088	1.16		
27		3		2BHK	76.56	0.0755	1		
28		4		2BHK	76.56	0.0755	1		
29	Seventh Floor	1		3BHK	88.97	0.088	1.16		
30		2		3BHK	88.97	0.088	1.16		
31		3		2BHK	76.56	0.0755	1		
32		4		2BHK	76.56	0.0755	1		
33	Eighth Floor	1		3BHK	88.97	0.088	1.16		
34		2		3BHK	88.97	0.088	1.16		
35		3		2BHK	76.56	0.0755	1		
36		4		2BHK	76.56	0.0755	1		
37	Ninth Floor	1		3BHK	88.97	0.088	1.16		
38		2		3BHK	88.97	0.088	1.16		
39		3		2BHK	76.56	0.0755	1		
40		4		2BHK	76.56	0.0755	1		
41	Tenth Floor	1		3BHK	88.97	0.088	1.16		
42		2		3BHK	88.97	0.088	1.16		
43		3		2BHK	76.56	0.0755	1		
44		4		2BHK	76.56	0.0755	1		
45	Eleventh Floor	1		3BHK	88.97	0.088	1.16		
46		2		3BHK	88.97	0.088	1.16		
47		3		2BHK	76.56	0.0755	1		
48		4		2BHK	76.56	0.0755	1		
49	Twelfth Floor	1		3BHK	88.97	0.088	1.16		
50		2		3BHK	88.97	0.088	1.16		
51		3		2BHK	76.56	0.0755	1		
52		4		2BHK	76.56	0.0755	1		
53	Thirteenth Floor	1		3BHK	88.97	0.088	1.16		
54		2		3BHK	88.97	0.088	1.16		
55		3		2BHK	76.56	0.0755	1		
56		4		2BHK	76.56	0.0755	1		
57	Fourteenth Floor	1		3BHK	88.97	0.088	1.16		
58		2		3BHK	88.97	0.088	1.16		
59		3		2BHK	76.56	0.0755	1		
60		4		2BHK	76.56	0.0755	1		
	TOTAL BLOCK				4965.9	4.905			

SAVFAB BUILDTECH PVT. LTD.

Annexure 'B'

(Details of Apartments)
Name of condominium:
Value of condominium:

TOWER C-1 (BLOCK B1)

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		2BHK	88.97	0.088	1.16		
2		2		2BHK	88.97	0.088	1.16		
3		3		3BHK	111.75	0.11	1.46		
4		4		3BHK	111.75	0.11	1.46		
5	First Floor	1		2BHK	88.97	0.088	1.16		
6		2		2BHK	88.97	0.088	1.16		
7		3		3BHK	111.75	0.11	1.46		
8		4		3BHK	111.75	0.11	1.46		
9	Second Floor	1		2BHK	88.97	0.088	1.16		
10		2		2BHK	88.97	0.088	1.16		
11		3		3BHK	111.75	0.11	1.46		
12		4		3BHK	111.75	0.11	1.46		
13	Third Floor	1		2BHK	88.97	0.088	1.16		
14		2		2BHK	88.97	0.088	1.16		
15		3		3BHK	111.75	0.11	1.46		
16		4		3BHK	111.75	0.11	1.46		
17	Fourth Floor	1		2BHK	88.97	0.088	1.16		
18		2		2BHK	88.97	0.088	1.16		
19		3		3BHK	111.75	0.11	1.46		
20		4		3BHK	111.75	0.11	1.46		
21	Fifth Floor	1		2BHK	88.97	0.088	1.16		
22		2		2BHK	88.97	0.088	1.16		
23		3		3BHK	111.75	0.11	1.46		
24		4		3BHK	111.75	0.11	1.46		
25	Sixth Floor	1		2BHK	88.97	0.088	1.16		
26		2		2BHK	88.97	0.088	1.16		
27		3		3BHK	111.75	0.11	1.46		
28		4		3BHK	111.75	0.11	1.46		
29	Seventh Floor	1		2BHK	88.97	0.088	1.16		
30		2		2BHK	88.97	0.088	1.16		
31		3		3BHK	111.75	0.11	1.46		
32		4		3BHK	111.75	0.11	1.46		
33	Eighth Floor	1		2BHK	88.97	0.088	1.16		
34		2		2BHK	88.97	0.088	1.16		
35		3		3BHK	111.75	0.11	1.46		
36		4		3BHK	111.75	0.11	1.46		
37	Ninth Floor	1		2BHK	88.97	0.088	1.16		
38		2		2BHK	88.97	0.088	1.16		
39		3		3BHK	111.75	0.11	1.46		
40		4		3BHK	111.75	0.11	1.46		
41	Tenth Floor	1		2BHK	88.97	0.088	1.16		
42		2		2BHK	88.97	0.088	1.16		
43		3		3BHK	111.75	0.11	1.46		
44		4		3BHK	111.75	0.11	1.46		
45	Eleventh Floor	1		2BHK	88.97	0.088	1.16		
46		2		2BHK	88.97	0.088	1.16		
47		3		3BHK	111.75	0.11	1.46		
48		4		3BHK	111.75	0.11	1.46		
49	Twelfth Floor	1		2BHK	88.97	0.088	1.16		
50		2		2BHK	88.97	0.088	1.16		
51		3		3BHK	111.75	0.11	1.46		
52		4		3BHK	111.75	0.11	1.46		
53	Thirteenth Floor	1		2BHK	88.97	0.088	1.16		
54		2		2BHK	88.97	0.088	1.16		
55		3		3BHK	111.75	0.11	1.46		
56		4		3BHK	111.75	0.11	1.46		
57	Fourteenth Floor	1		2BHK	88.97	0.088	1.16		
58		2		2BHK	88.97	0.088	1.16		
59		3		3BHK	111.75	0.11	1.46		
60		4		3BHK	111.75	0.11	1.46		
	TOTAL BLOCK				6021.6	5.94		Residential	As Per Price List/Mutually Agreed Upon

SAVFAB BUILDTECH PVT. LTD.

Annexure 'B'

(Details of Apartments) **TOWER C-1 (BLOCK B2)**

Name of condominium:

Value of condominium:

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		2BHK	76.56	0.0755	1	Residential	As Per Price List/Mutually Agreed Upon
2		2		2BHK	76.56	0.0755	1		
3		3		2BHK	76.56	0.0755	1		
4		4		2BHK	76.56	0.0755	1		
5	First Floor	1		2BHK	76.56	0.0755	1		
6		2		2BHK	76.56	0.0755	1		
7		3		2BHK	76.56	0.0755	1		
8		4		2BHK	76.56	0.0755	1		
9	Second Floor	1		2BHK	76.56	0.0755	1		
10		2		2BHK	76.56	0.0755	1		
11		3		2BHK	76.56	0.0755	1		
12		4		2BHK	76.56	0.0755	1		
13	Third Floor	1		2BHK	76.56	0.0755	1		
14		2		2BHK	76.56	0.0755	1		
15		3		2BHK	76.56	0.0755	1		
16		4		2BHK	76.56	0.0755	1		
17	Fourth Floor	1		2BHK	76.56	0.0755	1		
18		2		2BHK	76.56	0.0755	1		
19		3		2BHK	76.56	0.0755	1		
20		4		2BHK	76.56	0.0755	1		
21	Fifth Floor	1		2BHK	76.56	0.0755	1		
22		2		2BHK	76.56	0.0755	1		
23		3		2BHK	76.56	0.0755	1		
24		4		2BHK	76.56	0.0755	1		
25	Sixth Floor	1		2BHK	76.56	0.0755	1		
26		2		2BHK	76.56	0.0755	1		
27		3		2BHK	76.56	0.0755	1		
28		4		2BHK	76.56	0.0755	1		
29	Seventh Floor	1		2BHK	76.56	0.0755	1		
30		2		2BHK	76.56	0.0755	1		
31		3		2BHK	76.56	0.0755	1		
32		4		2BHK	76.56	0.0755	1		
33	Eighth Floor	1		2BHK	76.56	0.0755	1		
34		2		2BHK	76.56	0.0755	1		
35		3		2BHK	76.56	0.0755	1		
36		4		2BHK	76.56	0.0755	1		
37	Ninth Floor	1		2BHK	76.56	0.0755	1		
38		2		2BHK	76.56	0.0755	1		
39		3		2BHK	76.56	0.0755	1		
40		4		2BHK	76.56	0.0755	1		
41	Tenth Floor	1		2BHK	76.56	0.0755	1		
42		2		2BHK	76.56	0.0755	1		
43		3		2BHK	76.56	0.0755	1		
44		4		2BHK	76.56	0.0755	1		
45	Eleventh Floor	1		2BHK	76.56	0.0755	1		
46		2		2BHK	76.56	0.0755	1		
47		3		2BHK	76.56	0.0755	1		
48		4		2BHK	76.56	0.0755	1		
49	Twelfth Floor	1		2BHK	76.56	0.0755	1		
50		2		2BHK	76.56	0.0755	1		
51		3		2BHK	76.56	0.0755	1		
52		4		2BHK	76.56	0.0755	1		
53	Thirteenth Floor	1		2BHK	76.56	0.0755	1		
54		2		2BHK	76.56	0.0755	1		
55		3		2BHK	76.56	0.0755	1		
56		4		2BHK	76.56	0.0755	1		
57	Fourteenth Floor	1		2BHK	76.56	0.0755	1		
58		2		2BHK	76.56	0.0755	1		
59		3		2BHK	76.56	0.0755	1		
60		4		2BHK	76.56	0.0755	1		
	TOTAL BLOCK				4593.6	4.53			

SAVFAB BUILDTECH PVT. LTD.

Annexure 'B'

(Details of Apartments)
Name of condominium:
Value of condominium:

TOWER C-1 (BLOCK B3)

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		3BHK	88.97	0.088	1.16	Residential	As Per Price List/Mutually Agreed Upon
2		2		3BHK	88.97	0.088	1.16		
3		3		3BHK	88.97	0.088	1.16		
4		4		3BHK	88.97	0.088	1.16		
5	First Floor	1		3BHK	88.97	0.088	1.16		
6		2		3BHK	88.97	0.088	1.16		
7		3		3BHK	88.97	0.088	1.16		
8		4		3BHK	88.97	0.088	1.16		
9	Second Floor	1		3BHK	88.97	0.088	1.16		
10		2		3BHK	88.97	0.088	1.16		
11		3		3BHK	88.97	0.088	1.16		
12		4		3BHK	88.97	0.088	1.16		
13	Third Floor	1		3BHK	88.97	0.088	1.16		
14		2		3BHK	88.97	0.088	1.16		
15		3		3BHK	88.97	0.088	1.16		
16		4		3BHK	88.97	0.088	1.16		
17	Fourth Floor	1		3BHK	88.97	0.088	1.16		
18		2		3BHK	88.97	0.088	1.16		
19		3		3BHK	88.97	0.088	1.16		
20		4		3BHK	88.97	0.088	1.16		
21	Fifth Floor	1		3BHK	88.97	0.088	1.16		
22		2		3BHK	88.97	0.088	1.16		
23		3		3BHK	88.97	0.088	1.16		
24		4		3BHK	88.97	0.088	1.16		
25	Sixth Floor	1		3BHK	88.97	0.088	1.16		
26		2		3BHK	88.97	0.088	1.16		
27		3		3BHK	88.97	0.088	1.16		
28		4		3BHK	88.97	0.088	1.16		
29	Seventh Floor	1		3BHK	88.97	0.088	1.16		
30		2		3BHK	88.97	0.088	1.16		
31		3		3BHK	88.97	0.088	1.16		
32		4		3BHK	88.97	0.088	1.16		
33	Eighth Floor	1		3BHK	88.97	0.088	1.16		
34		2		3BHK	88.97	0.088	1.16		
35		3		3BHK	88.97	0.088	1.16		
36		4		3BHK	88.97	0.088	1.16		
37	Ninth Floor	1		3BHK	88.97	0.088	1.16		
38		2		3BHK	88.97	0.088	1.16		
39		3		3BHK	88.97	0.088	1.16		
40		4		3BHK	88.97	0.088	1.16		
41	Tenth Floor	1		3BHK	88.97	0.088	1.16		
42		2		3BHK	88.97	0.088	1.16		
43		3		3BHK	88.97	0.088	1.16		
44		4		3BHK	88.97	0.088	1.16		
45	Eleventh Floor	1		3BHK	88.97	0.088	1.16		
46		2		3BHK	88.97	0.088	1.16		
47		3		3BHK	88.97	0.088	1.16		
48		4		3BHK	88.97	0.088	1.16		
49	Twelfth Floor	1		3BHK	88.97	0.088	1.16		
50		2		3BHK	88.97	0.088	1.16		
51		3		3BHK	88.97	0.088	1.16		
52		4		3BHK	88.97	0.088	1.16		
53	Thirteenth Floor	1		3BHK	88.97	0.088	1.16		
54		2		3BHK	88.97	0.088	1.16		
55		3		3BHK	88.97	0.088	1.16		
56		4		3BHK	88.97	0.088	1.16		
57	Fourteenth Floor	1		3BHK	88.97	0.088	1.16		
58		2		3BHK	88.97	0.088	1.16		
59		3		3BHK	88.97	0.088	1.16		
60		4		3BHK	88.97	0.088	1.16		
	TOTAL BLOCK				5338.2	5.28			

SAVFAB BUILDTECH PVT. LTD.

Annexure 'B'

(Details of Apartments) **TOWER D-1 (BLOCK D1)**

Name of condominium:

Value of condominium:

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		3BHK	88.97	0.088	1.16		
2		2		3BHK	88.97	0.088	1.16		
3		3		3BHK	88.97	0.088	1.16		
4		4		3BHK	88.97	0.088	1.16		
5	First Floor	1		3BHK	88.97	0.088	1.16		
6		2		3BHK	88.97	0.088	1.16		
7		3		3BHK	88.97	0.088	1.16		
8		4		3BHK	88.97	0.088	1.16		
9	Second Floor	1		3BHK	88.97	0.088	1.16		
10		2		3BHK	88.97	0.088	1.16		
11		3		3BHK	88.97	0.088	1.16		
12		4		3BHK	88.97	0.088	1.16		
13	Third Floor	1		3BHK	88.97	0.088	1.16		
14		2		3BHK	88.97	0.088	1.16		
15		3		3BHK	88.97	0.088	1.16		
16		4		3BHK	88.97	0.088	1.16		
17	Fourth Floor	1		3BHK	88.97	0.088	1.16		
18		2		3BHK	88.97	0.088	1.16		
19		3		3BHK	88.97	0.088	1.16		
20		4		3BHK	88.97	0.088	1.16		
21	Fifth Floor	1		3BHK	88.97	0.088	1.16		
22		2		3BHK	88.97	0.088	1.16		
23		3		3BHK	88.97	0.088	1.16		
24		4		3BHK	88.97	0.088	1.16		
25	Sixth Floor	1		3BHK	88.97	0.088	1.16		
26		2		3BHK	88.97	0.088	1.16		
27		3		3BHK	88.97	0.088	1.16		
28		4		3BHK	88.97	0.088	1.16		
29	Seventh Floor	1		3BHK	88.97	0.088	1.16		
30		2		3BHK	88.97	0.088	1.16		
31		3		3BHK	88.97	0.088	1.16		
32		4		3BHK	88.97	0.088	1.16		
33	Eighth Floor	1		3BHK	88.97	0.088	1.16		
34		2		3BHK	88.97	0.088	1.16		
35		3		3BHK	88.97	0.088	1.16		
36		4		3BHK	88.97	0.088	1.16		
37	Ninth Floor	1		3BHK	88.97	0.088	1.16		
38		2		3BHK	88.97	0.088	1.16		
39		3		3BHK	88.97	0.088	1.16		
40		4		3BHK	88.97	0.088	1.16		
41	Tenth Floor	1		3BHK	88.97	0.088	1.16		
42		2		3BHK	88.97	0.088	1.16		
43		3		3BHK	88.97	0.088	1.16		
44		4		3BHK	88.97	0.088	1.16		
45	Eleventh Floor	1		3BHK	88.97	0.088	1.16		
46		2		3BHK	88.97	0.088	1.16		
47		3		3BHK	88.97	0.088	1.16		
48		4		3BHK	88.97	0.088	1.16		
49	Twelfth Floor	1		3BHK	88.97	0.088	1.16		
50		2		3BHK	88.97	0.088	1.16		
51		3		3BHK	88.97	0.088	1.16		
52		4		3BHK	88.97	0.088	1.16		
53	Thirteenth Floor	1		3BHK	88.97	0.088	1.16		
54		2		3BHK	88.97	0.088	1.16		
55		3		3BHK	88.97	0.088	1.16		
56		4		3BHK	88.97	0.088	1.16		
57	Fourteenth Floor	1		3BHK	88.97	0.088	1.16		
58		2		3BHK	88.97	0.088	1.16		
59		3		3BHK	88.97	0.088	1.16		
60		4		3BHK	88.97	0.088	1.16		
	TOTAL BLOCK				5338.2	5.28		Residential	As Per Price List/Mutually Agreed Upon

SAVIFAB BUILDTECH PVT. LTD.

Annexure 'B'

(Details of Apartments) **TOWER D-1 (BLOCK D2)**

Name of condominium:

Value of condominium:

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		2BHK	76.56	0.0755	1		
2		2		2BHK	76.56	0.0755	1		
3		3		2BHK	76.56	0.0755	1		
4		4		2BHK	76.56	0.0755	1		
5	First Floor	1		2BHK	76.56	0.0755	1		
6		2		2BHK	76.56	0.0755	1		
7		3		2BHK	76.56	0.0755	1		
8		4		2BHK	76.56	0.0755	1		
9	Second Floor	1		2BHK	76.56	0.0755	1		
10		2		2BHK	76.56	0.0755	1		
11		3		2BHK	76.56	0.0755	1		
12		4		2BHK	76.56	0.0755	1		
13	Third Floor	1		2BHK	76.56	0.0755	1		
14		2		2BHK	76.56	0.0755	1		
15		3		2BHK	76.56	0.0755	1		
16		4		2BHK	76.56	0.0755	1		
17	Fourth Floor	1		2BHK	76.56	0.0755	1		
18		2		2BHK	76.56	0.0755	1		
19		3		2BHK	76.56	0.0755	1		
20		4		2BHK	76.56	0.0755	1		
21	Fifth Floor	1		2BHK	76.56	0.0755	1		
22		2		2BHK	76.56	0.0755	1		
23		3		2BHK	76.56	0.0755	1		
24		4		2BHK	76.56	0.0755	1		
25	Sixth Floor	1		2BHK	76.56	0.0755	1		
26		2		2BHK	76.56	0.0755	1		
27		3		2BHK	76.56	0.0755	1		
28		4		2BHK	76.56	0.0755	1		
29	Seventh Floor	1		2BHK	76.56	0.0755	1		
30		2		2BHK	76.56	0.0755	1		
31		3		2BHK	76.56	0.0755	1		
32		4		2BHK	76.56	0.0755	1		
33	Eighth Floor	1		2BHK	76.56	0.0755	1		
34		2		2BHK	76.56	0.0755	1		
35		3		2BHK	76.56	0.0755	1		
36		4		2BHK	76.56	0.0755	1		
37	Ninth Floor	1		2BHK	76.56	0.0755	1		
38		2		2BHK	76.56	0.0755	1		
39		3		2BHK	76.56	0.0755	1		
40		4		2BHK	76.56	0.0755	1		
41	Tenth Floor	1		2BHK	76.56	0.0755	1		
42		2		2BHK	76.56	0.0755	1		
43		3		2BHK	76.56	0.0755	1		
44		4		2BHK	76.56	0.0755	1		
45	Eleventh Floor	1		2BHK	76.56	0.0755	1		
46		2		2BHK	76.56	0.0755	1		
47		3		2BHK	76.56	0.0755	1		
48		4		2BHK	76.56	0.0755	1		
49	Twelfth Floor	1		2BHK	76.56	0.0755	1		
50		2		2BHK	76.56	0.0755	1		
51		3		2BHK	76.56	0.0755	1		
52		4		2BHK	76.56	0.0755	1		
53	Thirteenth Floor	1		2BHK	76.56	0.0755	1		
54		2		2BHK	76.56	0.0755	1		
55		3		2BHK	76.56	0.0755	1		
56		4		2BHK	76.56	0.0755	1		
57	Fourteenth Floor	1		2BHK	76.56	0.0755	1		
58		2		2BHK	76.56	0.0755	1		
59		3		2BHK	76.56	0.0755	1		
60		4		2BHK	76.56	0.0755	1		
	TOTAL BLOCK				4593.6	4.53		Residential	As Per Price List/Mutually Agreed Upon

SAIFAB BUILDTECH PVT. LTD.

Annexure 'B'

(Details of Apartments)
Name of condominium:
Value of condominium:

TOWER D-2 (BLOCK D3)

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		3BHK	88.97	0.088	1.16		
2		2		2BHK	76.56	0.0755	1		
3		3		2BHK	76.56	0.0755	1		
4		4		3BHK	88.97	0.088	1.16		
5	First Floor	1		3BHK	88.97	0.088	1.16		
6		2		2BHK	76.56	0.0755	1		
7		3		2BHK	76.56	0.0755	1		
8		4		3BHK	88.97	0.088	1.16		
9	Second Floor	1		3BHK	88.97	0.088	1.16		
10		2		2BHK	76.56	0.0755	1		
11		3		2BHK	76.56	0.0755	1		
12		4		3BHK	88.97	0.088	1.16		
13	Third Floor	1		3BHK	88.97	0.088	1.16		
14		2		2BHK	76.56	0.0755	1		
15		3		2BHK	76.56	0.0755	1		
16		4		3BHK	88.97	0.088	1.16		
17	Fourth Floor	1		3BHK	88.97	0.088	1.16		
18		2		2BHK	76.56	0.0755	1		
19		3		2BHK	76.56	0.0755	1		
20		4		3BHK	88.97	0.088	1.16		
21	Fifth Floor	1		3BHK	88.97	0.088	1.16		
22		2		2BHK	76.56	0.0755	1		
23		3		2BHK	76.56	0.0755	1		
24		4		3BHK	88.97	0.088	1.16		
25	Sixth Floor	1		3BHK	88.97	0.088	1.16		
26		2		2BHK	76.56	0.0755	1		
27		3		2BHK	76.56	0.0755	1		
28		4		3BHK	88.97	0.088	1.16		
29	Seventh Floor	1		3BHK	88.97	0.088	1.16		
30		2		2BHK	76.56	0.0755	1		
31		3		2BHK	76.56	0.0755	1		
32		4		3BHK	88.97	0.088	1.16		
33	Eighth Floor	1		3BHK	88.97	0.088	1.16		
34		2		2BHK	76.56	0.0755	1		
35		3		2BHK	76.56	0.0755	1		
36		4		3BHK	88.97	0.088	1.16		
37	Ninth Floor	1		3BHK	88.97	0.088	1.16		
38		2		2BHK	76.56	0.0755	1		
39		3		2BHK	76.56	0.0755	1		
40		4		3BHK	88.97	0.088	1.16		
41	Tenth Floor	1		3BHK	88.97	0.088	1.16		
42		2		2BHK	76.56	0.0755	1		
43		3		2BHK	76.56	0.0755	1		
44		4		3BHK	88.97	0.088	1.16		
45	Eleventh Floor	1		3BHK	88.97	0.088	1.16		
46		2		2BHK	76.56	0.0755	1		
47		3		2BHK	76.56	0.0755	1		
48		4		3BHK	88.97	0.088	1.16		
49	Twelfth Floor	1		3BHK	88.97	0.088	1.16		
50		2		2BHK	76.56	0.0755	1		
51		3		2BHK	76.56	0.0755	1		
52		4		3BHK	88.97	0.088	1.16		
53	Thirteenth Floor	1		3BHK	88.97	0.088	1.16		
54		2		2BHK	76.56	0.0755	1		
55		3		2BHK	76.56	0.0755	1		
56		4		3BHK	88.97	0.088	1.16		
57	Fourteenth Floor	1		3BHK	88.97	0.088	1.16		
58		2		2BHK	76.56	0.0755	1		
59		3		2BHK	76.56	0.0755	1		
60		4		3BHK	88.97	0.088	1.16		
	TOTAL BLOCK				4965.9	4.905		Residential	As Per Price List/Mutually Agreed Upon

SAVFAB BUILDTECH PVT. LTD.

Annexure 'B'

(Details of Apartments)
Name of condominium:
Value of condominium:

TOWER D-2 (BLOCK D4)

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		2BHK	76.56	0.0755	1	Residential	As Per Price List/Mutually Agreed Upon
2		2		**NO UNIT**					
3		3		2BHK	76.56	0.0755	1		
4		4		2BHK	76.56	0.0755	1		
5	First Floor	1		2BHK	76.56	0.0755	1		
6		2		2BHK	76.56	0.0755	1		
7		3		2BHK	76.56	0.0755	1		
8		4		2BHK	76.56	0.0755	1		
9	Second Floor	1		2BHK	76.56	0.0755	1		
10		2		2BHK	76.56	0.0755	1		
11		3		2BHK	76.56	0.0755	1		
12		4		2BHK	76.56	0.0755	1		
13	Third Floor	1		2BHK	76.56	0.0755	1		
14		2		2BHK	76.56	0.0755	1		
15		3		2BHK	76.56	0.0755	1		
16		4		2BHK	76.56	0.0755	1		
17	Fourth Floor	1		2BHK	76.56	0.0755	1		
18		2		2BHK	76.56	0.0755	1		
19		3		2BHK	76.56	0.0755	1		
20		4		2BHK	76.56	0.0755	1		
21	Fifth Floor	1		2BHK	76.56	0.0755	1		
22		2		2BHK	76.56	0.0755	1		
23		3		2BHK	76.56	0.0755	1		
24		4		2BHK	76.56	0.0755	1		
25	Sixth Floor	1		2BHK	76.56	0.0755	1		
26		2		2BHK	76.56	0.0755	1		
27		3		2BHK	76.56	0.0755	1		
28		4		2BHK	76.56	0.0755	1		
29	Seventh Floor	1		2BHK	76.56	0.0755	1		
30		2		2BHK	76.56	0.0755	1		
31		3		2BHK	76.56	0.0755	1		
32		4		2BHK	76.56	0.0755	1		
33	Eighth Floor	1		2BHK	76.56	0.0755	1		
34		2		2BHK	76.56	0.0755	1		
35		3		2BHK	76.56	0.0755	1		
36		4		2BHK	76.56	0.0755	1		
37	Ninth Floor	1		2BHK	76.56	0.0755	1		
38		2		2BHK	76.56	0.0755	1		
39		3		2BHK	76.56	0.0755	1		
40		4		2BHK	76.56	0.0755	1		
41	Tenth Floor	1		2BHK	76.56	0.0755	1		
42		2		2BHK	76.56	0.0755	1		
43		3		2BHK	76.56	0.0755	1		
44		4		2BHK	76.56	0.0755	1		
45	Eleventh Floor	1		2BHK	76.56	0.0755	1		
46		2		2BHK	76.56	0.0755	1		
47		3		2BHK	76.56	0.0755	1		
48		4		2BHK	76.56	0.0755	1		
49	Twelfth Floor	1		2BHK	76.56	0.0755	1		
50		2		2BHK	76.56	0.0755	1		
51		3		2BHK	76.56	0.0755	1		
52		4		2BHK	76.56	0.0755	1		
53	Thirteenth Floor	1		2BHK	76.56	0.0755	1		
54		2		2BHK	76.56	0.0755	1		
55		3		2BHK	76.56	0.0755	1		
56		4		2BHK	76.56	0.0755	1		
57	Fourteenth Floor	1		2BHK	76.56	0.0755	1		
58		2		2BHK	76.56	0.0755	1		
59		3		2BHK	76.56	0.0755	1		
60		4		2BHK	76.56	0.0755	1		
	TOTAL BLOCK				4517.04	4.4545			

SAVFAB BUILDTECH PVT. LTD.

Annexure 'B'

(Details of Apartments)
Name of condominium:
Value of condominium:

TOWER D-2 (BLOCK D5)

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		3BHK	111.75	0.11	1.46		
2		2		3BHK	111.75	0.11	1.46		
3		3		3BHK	111.75	0.11	1.46		
4		4		3BHK	111.75	0.11	1.46		
5	First Floor	1		3BHK	111.75	0.11	1.46		
6		2		3BHK	111.75	0.11	1.46		
7		3		3BHK	111.75	0.11	1.46		
8		4		3BHK	111.75	0.11	1.46		
9	Second Floor	1		3BHK	111.75	0.11	1.46		
10		2		3BHK	111.75	0.11	1.46		
11		3		3BHK	111.75	0.11	1.46		
12		4		3BHK	111.75	0.11	1.46		
13	Third Floor	1		3BHK	111.75	0.11	1.46		
14		2		3BHK	111.75	0.11	1.46		
15		3		3BHK	111.75	0.11	1.46		
16		4		3BHK	111.75	0.11	1.46		
17	Fourth Floor	1		3BHK	111.75	0.11	1.46		
18		2		3BHK	111.75	0.11	1.46		
19		3		3BHK	111.75	0.11	1.46		
20		4		3BHK	111.75	0.11	1.46		
21	Fifth Floor	1		3BHK	111.75	0.11	1.46		
22		2		3BHK	111.75	0.11	1.46		
23		3		3BHK	111.75	0.11	1.46		
24		4		3BHK	111.75	0.11	1.46		
25	Sixth Floor	1		3BHK	111.75	0.11	1.46		
26		2		3BHK	111.75	0.11	1.46		
27		3		3BHK	111.75	0.11	1.46		
28		4		3BHK	111.75	0.11	1.46		
29	Seventh Floor	1		3BHK	111.75	0.11	1.46		
30		2		3BHK	111.75	0.11	1.46		
31		3		3BHK	111.75	0.11	1.46		
32		4		3BHK	111.75	0.11	1.46		
33	Eighth Floor	1		3BHK	111.75	0.11	1.46		
34		2		3BHK	111.75	0.11	1.46		
35		3		3BHK	111.75	0.11	1.46		
36		4		3BHK	111.75	0.11	1.46		
37	Ninth Floor	1		3BHK	111.75	0.11	1.46		
38		2		3BHK	111.75	0.11	1.46		
39		3		3BHK	111.75	0.11	1.46		
40		4		3BHK	111.75	0.11	1.46		
41	Tenth Floor	1		3BHK	111.75	0.11	1.46		
42		2		3BHK	111.75	0.11	1.46		
43		3		3BHK	111.75	0.11	1.46		
44		4		3BHK	111.75	0.11	1.46		
45	Eleventh Floor	1		3BHK	111.75	0.11	1.46		
46		2		3BHK	111.75	0.11	1.46		
47		3		3BHK	111.75	0.11	1.46		
48		4		3BHK	111.75	0.11	1.46		
49	Twelfth Floor	1		3BHK	111.75	0.11	1.46		
50		2		3BHK	111.75	0.11	1.46		
51		3		3BHK	111.75	0.11	1.46		
52		4		3BHK	111.75	0.11	1.46		
53	Thirteenth Floor	1		3BHK	111.75	0.11	1.46		
54		2		3BHK	111.75	0.11	1.46		
55		3		3BHK	111.75	0.11	1.46		
56		4		3BHK	111.75	0.11	1.46		
57	Fourteenth Floor	1		3BHK	111.75	0.11	1.46		
58		2		3BHK	111.75	0.11	1.46		
59		3		3BHK	111.75	0.11	1.46		
60		4		3BHK	111.75	0.11	1.46		
	TOTAL BLOCK				6705	6.6		Residential	As Per Price List/Mutually Agreed Upon

SAVFAB BUILDTECH PVT. LTD.

Annexure 'B'

(Details of Apartments)

Name of condominium:

Value of condominium:

TOWER D-3 (BLOCK D6)

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		3BHK	88.97	0.088	1.16	Residential	As Per Price List/Mutually Agreed Upon
2		2		3BHK	88.97	0.088	1.16		
3		3		**NO UNIT**					
4		4		2BHK	76.56	0.0755	1		
5		5		2BHK	76.56	0.0755	1		
6		6		2BHK	76.56	0.0755	1		
7	First Floor	1		3BHK	88.97	0.088	1.16		
8		2		3BHK	88.97	0.088	1.16		
9		3		2BHK	76.56	0.0755	1		
10		4		2BHK	76.56	0.0755	1		
11		5		2BHK	76.56	0.0755	1		
12		6		2BHK	76.56	0.0755	1		
13	Second Floor	1		3BHK	88.97	0.088	1.16		
14		2		3BHK	88.97	0.088	1.16		
15		3		2BHK	76.56	0.0755	1		
16		4		2BHK	76.56	0.0755	1		
17		5		2BHK	76.56	0.0755	1		
18		6		2BHK	76.56	0.0755	1		
19	Third Floor	1		3BHK	88.97	0.088	1.16		
20		2		3BHK	88.97	0.088	1.16		
21		3		2BHK	76.56	0.0755	1		
22		4		2BHK	76.56	0.0755	1		
23		5		2BHK	76.56	0.0755	1		
24		6		2BHK	76.56	0.0755	1		
25	Fourth Floor	1		3BHK	88.97	0.088	1.16		
26		2		3BHK	88.97	0.088	1.16		
27		3		2BHK	76.56	0.0755	1		
28		4		2BHK	76.56	0.0755	1		
29		5		2BHK	76.56	0.0755	1		
30		6		2BHK	76.56	0.0755	1		
31	Fifth Floor	1		3BHK	88.97	0.088	1.16		
32		2		3BHK	88.97	0.088	1.16		
33		3		2BHK	76.56	0.0755	1		
34		4		2BHK	76.56	0.0755	1		
35		5		2BHK	76.56	0.0755	1		
36		6		2BHK	76.56	0.0755	1		
37	Sixth Floor	1		3BHK	88.97	0.088	1.16		
38		2		3BHK	88.97	0.088	1.16		
39		3		2BHK	76.56	0.0755	1		
40		4		2BHK	76.56	0.0755	1		
41		5		2BHK	76.56	0.0755	1		
42		6		2BHK	76.56	0.0755	1		

SAVFAB BUILDTECH

43	Seventh Floor	1		3BHK	88.97	0.088	1.16	Residential	As Per Price List/Mutually Agreed Upon
44		2		3BHK	88.97	0.088	1.16		
45		3		2BHK	76.56	0.0755	1		
46		4		2BHK	76.56	0.0755	1		
47		5		2BHK	76.56	0.0755	1		
48		6		2BHK	76.56	0.0755	1		
49	Eighth Floor	1		3BHK	88.97	0.088	1.16		
50		2		3BHK	88.97	0.088	1.16		
51		3		2BHK	76.56	0.0755	1		
52		4		2BHK	76.56	0.0755	1		
53		5		2BHK	76.56	0.0755	1		
54		6		2BHK	76.56	0.0755	1		
55	Ninth Floor	1		3BHK	88.97	0.088	1.16		
56		2		3BHK	88.97	0.088	1.16		
57		3		2BHK	76.56	0.0755	1		
58		4		2BHK	76.56	0.0755	1		
59		5		2BHK	76.56	0.0755	1		
60		6		2BHK	76.56	0.0755	1		
61	Tenth Floor	1		3BHK	88.97	0.088	1.16		
62		2		3BHK	88.97	0.088	1.16		
63		3		2BHK	76.56	0.0755	1		
64		4		2BHK	76.56	0.0755	1		
65		5		2BHK	76.56	0.0755	1		
66		6		2BHK	76.56	0.0755	1		
67	Eleventh Floor	1		3BHK	88.97	0.088	1.16		
68		2		3BHK	88.97	0.088	1.16		
69		3		2BHK	76.56	0.0755	1		
70		4		2BHK	76.56	0.0755	1		
71		5		2BHK	76.56	0.0755	1		
72		6		2BHK	76.56	0.0755	1		
73	Twelfth Floor	1		3BHK	88.97	0.088	1.16		
74		2		3BHK	88.97	0.088	1.16		
75		3		2BHK	76.56	0.0755	1		
76		4		3BHK	76.56	0.0755	1		
77		5		3BHK	76.56	0.0755	1		
78		6		2BHK	76.56	0.0755	1		
79	Thirteenth Floor	1		3BHK	88.97	0.088	1.16		
80		2		3BHK	88.97	0.088	1.16		
81		3		2BHK	76.56	0.0755	1		
82		4		3BHK	76.56	0.0755	1		
83		5		3BHK	76.56	0.0755	1		
84		6		2BHK	76.56	0.0755	1		
85	Fourteenth Floor	1		3BHK	88.97	0.088	1.16		
86		2		3BHK	88.97	0.088	1.16		
87		3		2BHK	76.56	0.0755	1		
88		4		3BHK	76.56	0.0755	1		
89		5		3BHK	76.56	0.0755	1		
90		6		2BHK	76.56	0.0755	1		
	TOTAL BLOCK				7186.14	7.0945			

SAVFAB BUILDTECH PVT. LTD.

Annexure 'B'

(Details of Apartments)
Name of condominium:
Value of condominium:

TOWER A-1 (BLOCK C1)

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		3BHK	88.97	0.088	1.16	Residential	As Per Price List/Mutually Agreed Upon
2		2		3BHK	88.97	0.088	1.16		
3		3		2BHK	76.56	0.0755	1		
4		4		2BHK	76.56	0.0755	1		
5	First Floor	1		3BHK	88.97	0.088	1.16		
6		2		3BHK	88.97	0.088	1.16		
7		3		2BHK	76.56	0.0755	1		
8		4		2BHK	76.56	0.0755	1		
9	Second Floor	1		3BHK	88.97	0.088	1.16		
10		2		3BHK	88.97	0.088	1.16		
11		3		2BHK	76.56	0.0755	1		
12		4		2BHK	76.56	0.0755	1		
13	Third Floor	1		3BHK	88.97	0.088	1.16		
14		2		3BHK	88.97	0.088	1.16		
15		3		2BHK	76.56	0.0755	1		
16		4		2BHK	76.56	0.0755	1		
17	Fourth Floor	1		3BHK	88.97	0.088	1.16		
18		2		3BHK	88.97	0.088	1.16		
19		3		2BHK	76.56	0.0755	1		
20		4		2BHK	76.56	0.0755	1		
21	Fifth Floor	1		3BHK	88.97	0.088	1.16		
22		2		3BHK	88.97	0.088	1.16		
23		3		2BHK	76.56	0.0755	1		
24		4		2BHK	76.56	0.0755	1		
25	Sixth Floor	1		3BHK	88.97	0.088	1.16		
26		2		3BHK	88.97	0.088	1.16		
27		3		2BHK	76.56	0.0755	1		
28		4		2BHK	76.56	0.0755	1		
29	Seventh Floor	1		3BHK	88.97	0.088	1.16		
30		2		3BHK	88.97	0.088	1.16		
31		3		2BHK	76.56	0.0755	1		
32		4		2BHK	76.56	0.0755	1		
33	Eighth Floor	1		3BHK	88.97	0.088	1.16		
34		2		3BHK	88.97	0.088	1.16		
35		3		2BHK	76.56	0.0755	1		
36		4		2BHK	76.56	0.0755	1		
37	Ninth Floor	1		3BHK	88.97	0.088	1.16		
38		2		3BHK	88.97	0.088	1.16		
39		3		2BHK	76.56	0.0755	1		
40		4		2BHK	76.56	0.0755	1		
41	Tenth Floor	1		3BHK	88.97	0.088	1.16		
42		2		3BHK	88.97	0.088	1.16		
43		3		2BHK	76.56	0.0755	1		
44		4		2BHK	76.56	0.0755	1		
45	Eleventh Floor	1		3BHK	88.97	0.088	1.16		
46		2		3BHK	88.97	0.088	1.16		
47		3		2BHK	76.56	0.0755	1		
48		4		2BHK	76.56	0.0755	1		
49	Twelfth Floor	1		3BHK	88.97	0.088	1.16		
50		2		3BHK	88.97	0.088	1.16		
51		3		2BHK	76.56	0.0755	1		
52		4		2BHK	76.56	0.0755	1		
53	Thirteenth Floor	1		3BHK	88.97	0.088	1.16		
54		2		3BHK	88.97	0.088	1.16		
55		3		2BHK	76.56	0.0755	1		
56		4		2BHK	76.56	0.0755	1		
57	Fourteenth Floor	1		**NO UNIT**					
58		2		**NO UNIT**					
59		3		2BHK	76.56	0.0755	1		
60		4		2BHK	76.56	0.0755	1		
	TOTAL BLOCK				4787.96	4.729			

SAVFAB BUILDTECH PVT. LTD.

Annexure 'B'

(Details of Apartments)
Name of condominium:
Value of condominium:

TOWER A-1 (BLOCK C2)

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1			NO UNIT			Residential	As Per Price List/Mutually Agreed Upon
2		2		2BHK	76.56	0.0755	1		
3		3			NO UNIT				
4		4			NO UNIT				
5	First Floor	1		2BHK	76.56	0.0755	1		
6		2		2BHK	76.56	0.0755	1		
7		3		3BHK	88.97	0.088	1.16		
8		4		4BHK	120.57	0.0755	1.58		
9	Second Floor	1		2BHK	76.56	0.0755	1		
10		2		2BHK	76.56	0.0755	1		
11		3		3BHK	88.97	0.0755	1.16		
12		4		4BHK	120.57	0.119	1.58		
13	Third Floor	1		2BHK	76.56	0.0755	1		
14		2		2BHK	76.56	0.0755	1		
15		3		3BHK	88.97	0.088	1.16		
16		4		4BHK	120.57	0.119	1.58		
17	Fourth Floor	1		2BHK	76.56	0.0755	1		
18		2		2BHK	76.56	0.0755	1		
19		3		3BHK	88.97	0.088	1.16		
20		4		4BHK	120.57	0.119	1.58		
21	Fifth Floor	1		2BHK	76.56	0.0755	1		
22		2		2BHK	76.56	0.0755	1		
23		3		3BHK	88.97	0.088	1.16		
24		4		4BHK	120.57	0.119	1.58		
25	Sixth Floor	1		2BHK	76.56	0.0755	1		
26		2		2BHK	76.56	0.0755	1		
27		3		3BHK	88.97	0.088	1.16		
28		4		4BHK	120.57	0.119	1.58		
29	Seventh Floor	1		2BHK	76.56	0.0755	1		
30		2		2BHK	76.56	0.0755	1		
31		3		3BHK	88.97	0.088	1.16		
32		4		4BHK	120.57	0.119	1.58		
33	Eighth Floor	1		2BHK	76.56	0.0755	1		
34		2		2BHK	76.56	0.0755	1		
35		3		3BHK	88.97	0.088	1.16		
36		4		4BHK	120.57	0.119	1.58		
37	Ninth Floor	1		2BHK	76.56	0.0755	1		
38		2		2BHK	76.56	0.0755	1		
39		3		3BHK	88.97	0.088	1.16		
40		4		4BHK	120.57	0.119	1.58		
41	Tenth Floor	1		2BHK	76.56	0.0755	1		
42		2		2BHK	76.56	0.0755	1		
43		3		3BHK	88.97	0.088	1.16		
44		4		4BHK	120.57	0.119	1.58		
45	Eleventh Floor	1		2BHK	76.56	0.0755	1		
46		2		2BHK	76.56	0.0755	1		
47		3		3BHK	88.97	0.088	1.16		
48		4		4BHK	120.57	0.119	1.58		
49	Twelfth Floor	1		2BHK	76.56	0.0755	1		
50		2		2BHK	76.56	0.0755	1		
51		3		3BHK	88.97	0.088	1.16		
52		4		4BHK	120.57	0.119	1.58		
53	Thirteenth Floor	1		2BHK	76.56	0.0755	1		
54		2		2BHK	76.56	0.0755	1		
55		3		3BHK	88.97	0.088	1.16		
56		4		4BHK	120.57	0.119	1.58		
57	Fourteenth Floor	1		2BHK	76.56	0.0755	1		
58		2		2BHK	76.56	0.0755	1		
59		3		3BHK	88.97	0.088	1.16		
60		4		4BHK	120.57	0.119	1.58		
	TOTAL BLOCK				5153.8	5.0315			

SAVFAB BUILDTECH PVT. LTD.

Annexure 'B'

(Details of Apartments)

Name of condominium:

Value of condominium:

TOWER A-2 (BLOCK C3)

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		NO UNIT				x	x
2		2		NO UNIT					
3		3		NO UNIT					
4		4		NO UNIT					
5		5		NO UNIT					
6		6		NO UNIT					
7	First Floor	1		NO UNIT					
8		2		NO UNIT					
9		3		NO UNIT					
10		4		NO UNIT					
11		5		NO UNIT					
12		6		NO UNIT					
13	Second Floor	1		3BHK	82.15	0.081	1.07	Residential	As Per Price List/Mutually Agreed Upon
14		2		3BHK	82.15	0.081	1.07		
15		3		4BHK	154.3	0.152	2.02		
16		4		3BHK	82.15	0.081	1.07		
17		5		3BHK	82.15	0.081	1.07		
18		6		4BHK	154.3	0.152	2.02		
19	Third Floor	1		3BHK	82.15	0.081	1.07		
20		2		3BHK	82.15	0.081	1.07		
21		3		4BHK	154.3	0.152	2.02		
22		4		3BHK	82.15	0.081	1.07		
23		5		3BHK	82.15	0.081	1.07		
24		6		4BHK	154.3	0.152	2.02		
25	Fourth Floor	1		3BHK	82.15	0.081	1.07		
26		2		3BHK	82.15	0.081	1.07		
27		3		4BHK	154.3	0.152	2.02		
28		4		3BHK	82.15	0.081	1.07		
29		5		3BHK	82.15	0.081	1.07		
30		6		4BHK	154.3	0.152	2.02		
31	Fifth Floor	1		3BHK	82.15	0.081	1.07		
32		2		3BHK	82.15	0.081	1.07		
33		3		4BHK	154.3	0.152	2.02		
34		4		3BHK	82.15	0.081	1.07		
35		5		3BHK	82.15	0.081	1.07		
36		6		4BHK	154.3	0.152	2.02		
37	Sixth Floor	1		3BHK	82.15	0.081	1.07		
38		2		3BHK	82.15	0.081	1.07		
39		3		4BHK	154.3	0.152	2.02		
40		4		3BHK	82.15	0.081	1.07		
41		5		3BHK	82.15	0.081	1.07		
42		6		4BHK	154.3	0.152	2.02		
43	Seventh Floor	1		3BHK	82.15	0.081	1.07		
44		2		3BHK	82.15	0.081	1.07		
45		3		4BHK	154.3	0.152	2.02		
46		4		3BHK	82.15	0.081	1.07		
47		5		3BHK	82.15	0.081	1.07		
48		6		4BHK	154.3	0.152	2.02		



49	Eighth Floor	1		3BHK	82.15	0.081	1.07	Residential	As Per Price List/Mutually Agreed Upon
50		2		3BHK	82.15	0.081	1.07		
51		3		4BHK	154.3	0.152	2.02		
52		4		3BHK	82.15	0.081	1.07		
53		5		3BHK	82.15	0.081	1.07		
54		6		4BHK	154.3	0.152	2.02		
55	Ninth Floor	1		3BHK	82.15	0.081	1.07		
56		2		3BHK	82.15	0.081	1.07		
57		3		4BHK	154.3	0.152	2.02		
58		4		3BHK	82.15	0.081	1.07		
59		5		3BHK	82.15	0.081	1.07		
60		6		4BHK	154.3	0.152	2.02		
61	Tenth Floor	1		3BHK	82.15	0.081	1.07		
62		2		3BHK	82.15	0.081	1.07		
63		3		4BHK	154.3	0.152	2.02		
64		4		3BHK	82.15	0.081	1.07		
65		5		3BHK	82.15	0.081	1.07		
66		6		4BHK	154.3	0.152	2.02		
67	Eleventh Floor	1		3BHK	82.15	0.081	1.07		
68		2		3BHK	82.15	0.081	1.07		
69		3		4BHK	154.3	0.152	2.02		
70		4		3BHK	82.15	0.081	1.07		
71		5		3BHK	82.15	0.081	1.07		
72		6		4BHK	154.3	0.152	2.02		
73	Twelfth Floor	1		3BHK	82.15	0.081	1.07		
74		2		3BHK	82.15	0.081	1.07		
75		3		4BHK	154.3	0.152	2.02		
76		4		3BHK	82.15	0.081	1.07		
77		5		3BHK	82.15	0.081	1.07		
78		6		4BHK	154.3	0.152	2.02		
79	Thirteenth Floor	1		3BHK	82.15	0.081	1.07		
80		2		3BHK	82.15	0.081	1.07		
81		3		4BHK	154.3	0.152	2.02		
82		4		3BHK	82.15	0.081	1.07		
83		5		3BHK	82.15	0.081	1.07		
84		6		4BHK	154.3	0.152	2.02		
85	Fourteenth Floor	1		3BHK	82.15	0.081	1.07		
86		2		3BHK	82.15	0.081	1.07		
87		3		4BHK	154.3	0.152	2.02		
88		4		3BHK	82.15	0.081	1.07		
89		5		3BHK	82.15	0.081	1.07		
90		6		4BHK	154.3	0.152	2.02		
	TOTAL BLOCK				8283.6	8.164			

SAVFAB BUILDTECH PVT. LTD.

Annexure 'B'

(Details of Apartments)

Name of condominium:

Value of condominium:

TOWER A-2 (BLOCK C4)

SL.NO.	FLOOR	Identifiable No. of the Apartment	TYPE	No. of Rooms	Covered area (in sq.mt.)	Percentage of undivided share in land on the basis of covered area of the apartment	Proportionate representation for voting purpose in the meeting of the association of apartment owners	Approved use Residential/ Commercial	Value of the Apartment
1	2	3	4	5	6	7	8	9	10
1	Ground Floor	1		NO UNIT				Residential	As Per Price List/Mutually Agreed Upon
2		2		3BHK	88.97	0.088	1.16		
3		3		NO UNIT					
4		4		3BHK	88.97	0.088	1.16		
5		5		3BHK	88.97	0.088	1.16		
6		6		2BHK	76.56	0.0755	1		
7	First Floor	1		3BHK	88.97	0.088	1.16		
8		2		3BHK	88.97	0.088	1.16		
9		3		2BHK	76.56	0.0755	1		
10		4		3BHK	88.97	0.088	1.16		
11		5		3BHK	88.97	0.088	1.16		
12		6		2BHK	76.56	0.0755	1		
13	Second Floor	1		3BHK	88.97	0.088	1.16		
14		2		3BHK	88.97	0.088	1.16		
15		3		2BHK	76.56	0.0755	1		
16		4		3BHK	88.97	0.088	1.16		
17		5		3BHK	88.97	0.088	1.16		
18		6		2BHK	76.56	0.0755	1		
19	Third Floor	1		3BHK	88.97	0.088	1.16		
20		2		3BHK	88.97	0.088	1.16		
21		3		2BHK	76.56	0.0755	1		
22		4		3BHK	88.97	0.088	1.16		
23		5		3BHK	88.97	0.088	1.16		
24		6		2BHK	76.56	0.0755	1		
25	Fourth Floor	1		3BHK	88.97	0.088	1.16		
26		2		3BHK	88.97	0.088	1.16		
27		3		2BHK	76.56	0.0755	1		
28		4		3BHK	88.97	0.088	1.16		
29		5		3BHK	88.97	0.088	1.16		
30		6		2BHK	76.56	0.0755	1		
31	Fifth Floor	1		3BHK	88.97	0.088	1.16		
32		2		3BHK	88.97	0.088	1.16		
33		3		2BHK	76.56	0.0755	1		
34		4		3BHK	88.97	0.088	1.16		
35		5		3BHK	88.97	0.088	1.16		
36		6		2BHK	76.56	0.0755	1		
37	Sixth Floor	1		3BHK	88.97	0.088	1.16		
38		2		3BHK	88.97	0.088	1.16		
39		3		2BHK	76.56	0.0755	1		
40		4		3BHK	88.97	0.088	1.16		
41		5		3BHK	88.97	0.088	1.16		
42		6		2BHK	76.56	0.0755	1		

SAVFAB BUILDTECH PVT. LTD.

43	Seventh Floor	1		3BHK	88.97	0.088	1.16	Residential	As Per Price List/Mutually Agreed Upon
44		2		3BHK	88.97	0.088	1.16		
45		3		2BHK	76.56	0.0755	1		
46		4		3BHK	88.97	0.088	1.16		
47		5		3BHK	88.97	0.088	1.16		
48		6		2BHK	76.56	0.0755	1		
49	Eighth Floor	1		3BHK	88.97	0.088	1.16		
50		2		3BHK	88.97	0.088	1.16		
51		3		2BHK	76.56	0.0755	1		
52		4		3BHK	88.97	0.088	1.16		
53		5		3BHK	88.97	0.088	1.16		
54		6		2BHK	76.56	0.0755	1		
55	Ninth Floor	1		3BHK	88.97	0.088	1.16		
56		2		3BHK	88.97	0.088	1.16		
57		3		2BHK	76.56	0.0755	1		
58		4		3BHK	88.97	0.088	1.16		
59		5		3BHK	88.97	0.088	1.16		
60		6		2BHK	76.56	0.0755	1		
61	Tenth Floor	1		3BHK	88.97	0.088	1.16		
62		2		3BHK	88.97	0.088	1.16		
63		3		2BHK	76.56	0.0755	1		
64		4		3BHK	88.97	0.088	1.16		
65		5		3BHK	88.97	0.088	1.16		
66		6		2BHK	76.56	0.0755	1		
67	Eleventh Floor	1		3BHK	88.97	0.088	1.16		
68		2		3BHK	88.97	0.088	1.16		
69		3		2BHK	76.56	0.0755	1		
70		4		3BHK	88.97	0.088	1.16		
71		5		3BHK	88.97	0.088	1.16		
72		6		2BHK	76.56	0.0755	1		
73	Twelfth Floor	1		3BHK	88.97	0.088	1.16		
74		2		3BHK	88.97	0.088	1.16		
75		3		2BHK	76.56	0.0755	1		
76		4		3BHK	88.97	0.088	1.16		
77		5		3BHK	88.97	0.088	1.16		
78		6		2BHK	76.56	0.0755	1		
79	Thirteenth Floor	1		3BHK	88.97	0.088	1.16		
80		2		3BHK	88.97	0.088	1.16		
81		3		2BHK	76.56	0.0755	1		
82		4		3BHK	88.97	0.088	1.16		
83		5		3BHK	88.97	0.088	1.16		
84		6		2BHK	76.56	0.0755	1		
85	Fourteenth Floor	1		3BHK	88.97	0.088	1.16		
86		2		3BHK	88.97	0.088	1.16		
87		3		2BHK	76.56	0.0755	1		
88		4		**NO UNIT**			0		
89		5		**NO UNIT**			0		
90		6		2BHK	76.56	0.0755	1		
					7291.53	**7.2055**			
	GRAND TOTAL				**101344.8**	**100**			

Note : The percentage of undivided share in the land is calculated on the basis of the covered area of apartment in relation to the total covered area of the apartments, being the aggregate of Column No. 4.

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Annexure 'C'

Details of covered area of apartments and total covered area of common areas and facilities/ limited common areas and facilities (Only for block B1, C1, D1(Part-1)

Note:- Subject to change as per the revise layout plan and on final planning.

SL.NO	Particulars				
1	2	3	4	5	6
(a)	Total covered area of apartment at various floors	101345 sq mtr	x	x	x
(b-1)	Total covered area of common areas & facilities(as defined in S.3(s) of theAct	x	19958.445 sq mtr	x	x
(b-2)	Total covered areaof limited common area &facilities(as defined in S.3(s) of the Act)	x	x	x	x
(c)	Total covered area of the building[Total of(a),(b-1)&(b-2)]	x	x	x	121303.445 sq mtr
	Sum up	i.e(a)	i.e(b-1)	i.e(b-2)	i.e(c)

Place:

Date:

Signature department with designation and

Authorised Signatory

Annexure 'D'

Details of the common area and facilities of the building to which the present declaration relates

Sl. No.	Name of the common areas & facilities		its description/area
(a)	The parcel of Land described in paragraph First of this Deed		37284.00 sq.mtr
(b)	Basement (if any) (as shown in Exhibit 'A' attached hereto)		Enclosed dwg for refrence total area 54800 sq.mtr.. Upper basement area 27400 sqmtr. Lower basement area 27400sqmtr. (As per compounding drawings submitted in authority)
(c)	Facilities in the basement		Parking
(d)	Parking facilties (as shown in Exhibit 'A' attached hereto)		No parking provided in common areas & facilities
(e)	Facilities on the ground floor (as shown in Exhibit 'A' attached hereto)		
	(i)	Garden lawns	5647.187 sq.mtr.
	(ii)	Children playing area	
	(iii)	Badminton Court	
	(iv)	Tennis Court	434 sq.mtr.
	(v)	Swimming Pool	517.595 sq. mtr.
	(vi)	Commercial areas & facilities	
	(vii)	Lobby & facilities	1007 sq. mtr.
	(viii)	Any other facility (Community Hall)	
(f)	Common areas & Facilities located throughout the building (as shown in Exhibit 'A')		
	(i)	Elevator	22 Lifts
	(ii)	Area of shaft(s)	440 sq.mtr.
	(iii)	Elevator shaft extends from ground floor upto 14th floor	Basement upto 14th floor
	(iv)	No. of stairway 'A' which lead from the ground floor to the roof of the building	22 Staircases
	(v)	No. of stairway'B' (if any), which lead from open court to the upper floors.	9 staircases from basement to ground floor common area
	(vi)	A Flue (if applicable), extending from the incinerator in the basement to the roof of the building which one of the upper floors for the disposal of garbage and rubbish, and will be fed from the janitor's room of each of the upper floors.	N/A
	(vii)	No. of Water tank(s)	As per drawings attached

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	(viii)	Elevator pent house with corresponding elevator equipment located on the roof of the building	N/A
	(ix)	Plumbing network throughout the building	Dwg.Attached
	(x)	Electric wiring network throughout the building	Dwg. Attached
	(xi)	Necessary light(s)	65 POLES
	(xii)	Telephone(s)	
	(xiii)	Public water connection(s)	2
	(xiv)	Foundation and main walls, columns, girders, beams, and roofs of the building	R.C.C Design by structure engineer
	(xv)	Tank(s)	2-DOMESTIC UGT (350KL)
			1-FIRE UGT (150KL)
	(xvi)	Pump(s)	3NOS
	(xvii)	Motor(s)	5NOS
	(xviii)	Fan(s)	
	(xix)	Firefighting equipment(s)*	EQUIPPED AS PER FIRE N.O.C
	(xx)	Compressor(s)	NA
	(xxi)	Duct(s)	NA
	(xxii)	Central Air Conditioning Equipment(s)	NA
	(xxiii)	Heating Equipment	NA
	(xxiv)	General all apparatus & installation existing for common use	**TOTAL CAMERA =171** **STP = 700 KLD** **Solar Panel = 40KV**

Place: Ghaziabad

Date: 22-09-2025

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Authorised Signatory

Note: Section 3(i) of the Act has defined the term "*common area and facilities*" and the above common aras and facilities are

Annexure 'E'

Details of the limited common area and facilities of the building to which the present declaration relates

"Limited Common areas & Facilities (as defined in S.3(c) of the Act and shown in Exhbit		
(i)	Parking	N/A
(ii)	Lobby, giving access to the elevator (s) to specified dwelling unit	N/A
(iii)	Corridor extending from the lobby to the stairway	N/A

Place: Ghaziabad

Date: 22-09-2025

Signature department with designation and
Authorised Signatory

Annexure 'F'

Details of the Independent area of the building to which the present declaration relates

(i)	Parking	Parking
(ii)	Servant Quarter	N/A
(iii)	Club with independent acess	N/A
(iv)	Convenient shops/commercial	N/A
(v)	Covered garage/store	N/A
(vi)	Terrace attached to an apartment(if Applicable)	N/A

Place: Ghaziabad

Date: 22-09-2025

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Schedule-A
(Specification of Construction)

FLOORING

1. Vitrified tiles 2*2 in Drawing Room, Kitchen and Bedrooms.
2. Wooden laminated flooring in one bedroom.
3. Ceramic tiles in bathrooms and Balconies.

WALLS & CEILING FINISH

1. Finished walls & ceiling with OBD in pleasing shades.

Kitchen

1. Granite working top with stainless steel sink.
2. 2'-0" dado above the working top and 5'-0" from the floor level on remaining walls by ceramic tiles.
3. Wooden below the working top.

TOILETS

1. Ceramic tiles on walls upto door level.
2. White sanitary ware with EWC, CP fitting and mirror in the toilets.

DOORS & WINDOWS

1. Outer doors & Windows aluminum power coated/UPVC.
3. Inner door made of painted flush shutters.
3. Inner door frames of Maranti or equivalent wood.
4. Main entry door frame of Maranti or Equivalent wood skin moulded door shutter.
5. Good quality hardware fitting.

ELECTRICAL

1. Copper wire PVC condults with MCB supported circuits and adequate number of points and light points in ceiling.
2. TV & TELEPHONE
3. One landline connection having Intercom facilities.

Place: Ghaziabad

Date: 22-09-2025

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Authorised Signatory

DRG. NO S-SO-2B

MN SCHEDULE 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL.
MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

K:-	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
S													
BARS	4-25ϕ(b)+6-20ϕ	10-20ϕ	4-25ϕ(b)+6-20ϕ	10-25ϕ	4-32ϕ(b)+6-25ϕ	14-16ϕ	14-16ϕ	4-25ϕ(b)+6-20ϕ(c)+2-16ϕ	10-25ϕ	10-16ϕ	10-20ϕ	12-16ϕ	4-20ϕ(b)+8-16ϕ
E	300X750	300X750	300X750	300X750	300X750	300X1085	300X1085	300X895	300X715	300X715	300X715	300X830	300X830
S	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (3 sets)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (3 sets)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (3 sets)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (3 sets)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (3 sets)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (4 sets)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (4 sets)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (4 sets)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (3 sets)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (3 sets)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (3 sets)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (4 sets)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (4 sets)
APE													
/SW O.	C1	C2	C3	C4	C5	C6	C6A	C7	C8	C9	C10	C11	C12

NOTE ON CURTAILMENT DETAILS OF COLUMNS

AR WALL 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL.
C. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

IX:-	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
ES													
N BARS	12-20ϕ(b)+2-16ϕ	4-20ϕ(b)+10-16ϕ	8-25ϕ(b)+6-20ϕ	4-32ϕ(b)+4-25ϕ(c)+6-20ϕ	8-20ϕ(b)+6-16ϕ	4-20ϕ(b)+10-16ϕ	12-20ϕ	4-20ϕ(b)+8-16ϕ	4-32ϕ(b)+8-25ϕ(c)+2-20ϕ	12-25ϕ	4-20ϕ(b)+14-16ϕ	8-20ϕ(b)+10-16ϕ
ZE	230X1200	230X1200	230X1200	230X1200	230X1200	230X1225	230X1000	230X1000	230X1115	230X1115	230X1470	230X1470
ES	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (4 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (4 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (4 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (6 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (6 sets)
HAPE													
EARWALL NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10	SW11	SW12

HEAR WALL 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL.
ONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

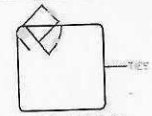
C.MIX:-	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
TIES										
AIN BARS	8-20ϕ(b)+8-16ϕ	8-25ϕ(b)+8-20ϕ	4-20ϕ(b)+12-16ϕ	4-25ϕ(b)+18-20ϕ	8-20ϕ(b)+12-16ϕ	12-16ϕ(b)+10-12ϕ	8-20ϕ(b)+14-16ϕ	24-16ϕ(b)+8-12ϕ	24-16ϕ(b)+8-12ϕ
SIZE	230X1355	230X1355	230X1315	230X1500	230X1500	230X1770	230X1770	230X2360	230X2360
TIES	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (7 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (6 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (7 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (7 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (9 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (9 sets)
SHAPE									
SHEARWALL NO.	SW13	SW14	SW15	SW16	SW17	SW18	SW19	SW20	SW21

SHEAR WALL 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

C.MIX:-	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
TIES								
MAIN BARS	40-16ϕ(b)+8-12ϕ	10-16ϕ	10-20ϕ	4-25ϕ(b)+6-20ϕ	18-16ϕ	20-16ϕ	14-20ϕ	12-20ϕ(b)+12-16ϕ
SIZE	230X3810	230X900	230X900	230X900	230X1500	230X1700	230X1255	230X1900
TIES	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (13 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (4 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (4 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (4 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (6 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (6 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (7 sets)
SHAPE								
SHEARWALL NO.	SW22	SW23	SW24	SW25	SW26	SW27	SW28	SW29

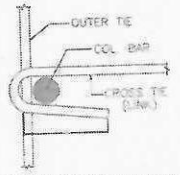
SHEAR WALL 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

C.MIX:-	M-30	M-30	M-30
TIES			
MAIN BARS	4-20ϕ(b)+22-16ϕ	10-20ϕ	4-20ϕ(b)+10-16ϕ
SIZE	230X2035	230X900	230X1160
TIES	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (8 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (4 sets)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 sets)
SHAPE			
SHEARWALL NO.	SW30	SW31	SW32

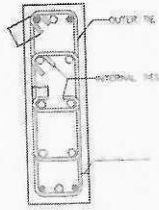


TYPICAL DETAIL OF STIRRUP TIES BENDING

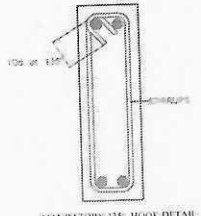

DETAIL OF HOOKS



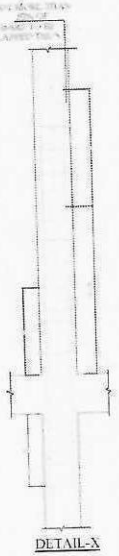
D/P DETAIL OF CROSS TIE&OUTER TIE ALONG WITH VERTICAL BAR.

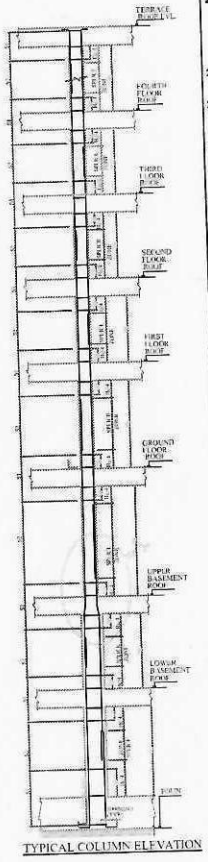


COLUMN TIES DETAIL



MANDATORY 135° HOOK DETAIL IN COLUMN , BEAM STIRRUPS


DETAIL-X



TYPICAL COLUMN ELEVATION

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:5(1 CEMENT, 5 COARSE SAND)
1.9 HALF BRICK WORK 115TH. BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM

2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8ϕ@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE TIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 15MM A TYPICAL CHAIRS COULD BE AS BELOW.



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS.PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTERING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS

DRG. NO S-SO-2C

COLUMN SCHEDULE 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL

CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

MIX:-	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
TIES														
MAIN BARS	4-20#(b)+6-16#	4-20#(b)+8-16#	4-20#(b)+8-15#	10-20#	6-25#(b)+4-20#	14-16#	14-16#	12-16#	10-20#	10-16#	10-16#	12-16#	12-16#
SIZE	300X750	300X750	300X750	300X750	300X750	300X1085	300X1085	300X895	300X715	300X715	300X715	300X830	300X830
TIES	OUTER TIES10#@150c/c INNER TIES 8#@150c/c (3 sets)	OUTER TIES10#@150c/c INNER TIES 8#@150c/c (3 sets)	OUTER TIES10#@150c/c INNER TIES 8#@150c/c (3 sets)	OUTER TIES10#@150c/c INNER TIES 8#@150c/c (3 sets)	OUTER TIES10#@150c/c INNER TIES 8#@150c/c (3 sets)	OUTER TIES10#@150c/c INNER TIES 8#@150c/c (4 sets)	OUTER TIES10#@150c/c INNER TIES 8#@150c/c (4 sets)	OUTER TIES10#@150c/c INNER TIES 8#@150c/c (4 sets)	OUTER TIES10#@150c/c INNER TIES 8#@150c/c (3 sets)	OUTER TIES10#@150c/c INNER TIES 8#@150c/c (3 sets)	OUTER TIES10#@150c/c INNER TIES 8#@150c/c (3 sets)	OUTER TIES10#@150c/c INNER TIES 8#@150c/c (4 sets)	OUTER TIES10#@150c/c INNER TIES 8#@150c/c (4 sets)
SHAPE													
COL/SW NO.	C1	C2	C3	C4	C5	C6	C6A	C7	C8	C9	C10	C11	C12

NOTE ON CURTAILMENT DETAILS OF COLUMNS

SHEAR WALL 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL

CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

MIX:-	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
TIES												
MAIN BARS	4-20#(b)+10-16#	8-16#(b)+8-12#	14-20#	8-25#(b)+8-20#	12-16#(b)+2-12#	4-16#(b)+10-12#	8-20#(b)+4-12#	4-16#(b)+8-12#	8-25#(b)+5-20#	4-25#(b)+8-20#	4-16#(b)+14-12#	12-16#(b)+6-12#
SIZE	230X1200	230X1200	230X1200	230X1200	230X1200	230X1225	230X1000	230X1000	230X1115	230X1115	230X1470	230X1470
TIES	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (5 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (5 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (5 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (5 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (5 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (5 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (4 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (4 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (5 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (4 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (6 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (6 sets)
SHAPE												
SHEARWALL NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10	SW11	SW12

SHEAR WALL 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL

CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

C.MIX:-	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
TIES									
MAIN BARS	8-16#(b)+8-12#	4-20#(b)+12-16#	12-16#(b)+4-12#	16-16#(b)+8-12#	4-16#(b)+16-12#	4-16#(b)+18-12#	8-16#(b)+14-12#	4-16#(b)+28-12#	4-16#(b)+26-12#
SIZE	230X1355	230X1355	230X1315	230X1500	230X1500	230X1770	230X1770	230X2360	230X2360
TIES	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (5 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (5 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (5 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (7 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (6 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (7 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (7 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (9 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (9 sets)
SHAPE									
SHEARWALL NO.	SW13	SW14	SW15	SW16	SW17	SW18	SW19	SW20	SW21

SHEAR WALL 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL

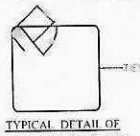
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

C.MIX:-	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
TIES								
MAIN BARS	4-16#(b)+44-12#	4-16#(b)+6-12#	4-20#(b)+8-16#	4-20#(b)+8-16#	4-16#(b)+14-12#	4-16#(b)+18-12#	4-20#(b)+10-16#	8-16#(b)+16-12#
SIZE	230X3810	230X900	230X900	230X900	230X1500	230X1700	230X1255	230X1900
TIES	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (13 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (4 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (4 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (4 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (6 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (6 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (5 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (7 sets)
SHAPE								
SHEARWALL NO.	SW22	SW23	SW24	SW25	SW26	SW27	SW28	SW29

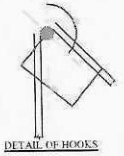
SHEAR WALL 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL

CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

C.MIX:-	M-30	M-30	M-30
TIES			
MAIN BARS	4-16#(b)+22-12#	8-16#(b)+2-12#	12-16#(b)+2-12#
SIZE	230X2035	230X900	230X1160
TIES	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (8 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (4 sets)	OUTER TIES10#@115c/c INNER TIES 8#@115c/c (5 sets)
SHAPE			
SHEARWALL NO.	SW30	SW31	SW32

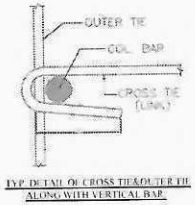


TYPICAL DETAIL OF STIRRUP TIES BENDING

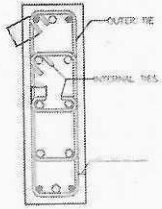


DETAIL OF HOOKS

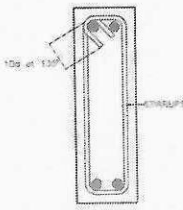
BUILDING HAS BEEN DESIGN FOR BASEMENT + GROUND + 4 FLOORS



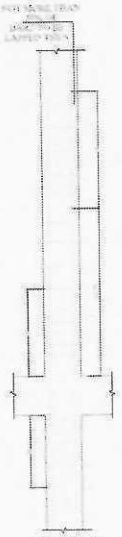
TYP. DETAIL OF CROSS TIE/OUTER TIE ALONG WITH VERTICAL BAR



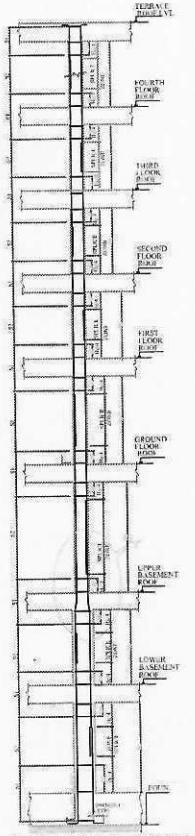
COLUMN TIES DETAIL



MANDATORY 135° HOOK DETAIL IN COLUMN / BEAM STIRRUPS



DETAIL-X



TYPICAL COLUMN ELEVATION

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEWANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115TH. BLOCK MASORRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

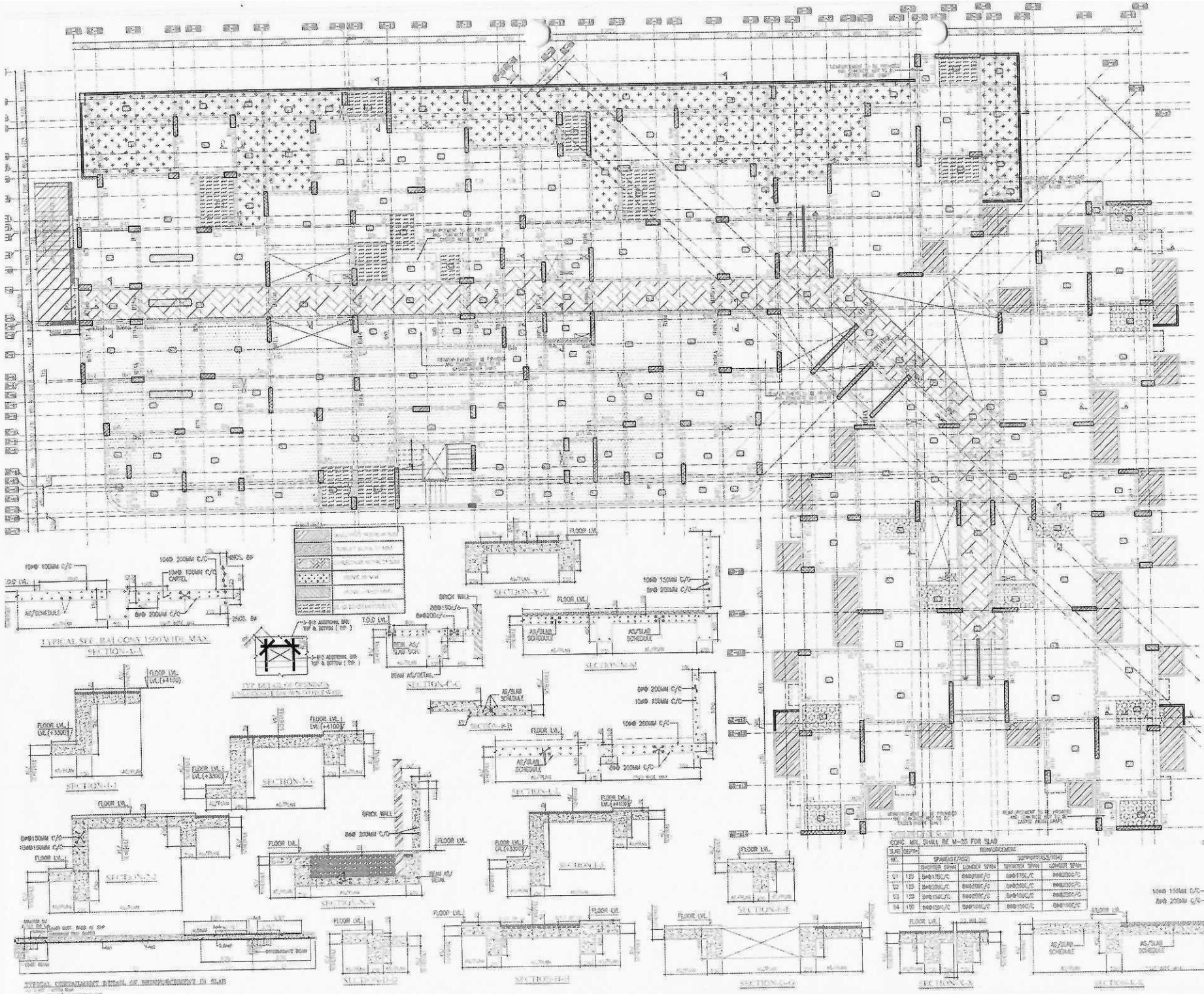
2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM

2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8#@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CHHOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS



DRG NO : S.SAV.PARK.T.A1.02_FAD.101

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO S.GEN.01.01
2. ALL DIMENSIONS ARE IN (MM)
3. ALL BEAMS SHALL BE (230X450) M15.
4. CON. MIX - M25
5. REINF. GRADE - Fe 500
6. THIS DWG SHALL BE READ WITH ALL RELEVANT ARCH. DRAWINGS
7. ALL LEVELS AS PER ARCH.
8. FOR SLAB CUT OUT SIZE REFER ARCH. DWG

KEY PLAN

LEGEND :

(1)	(230X450)
(2)	(230X600)
(3)	(230X300)
(4)	(230X750)
(5)	(230X1200)
(6)	(230X1500)
(7)	(230X1350)

PROJECT :

PROJECT TITLE :
PROPOSED GROUP HOUSING AT PLOT AT KHAJAAN

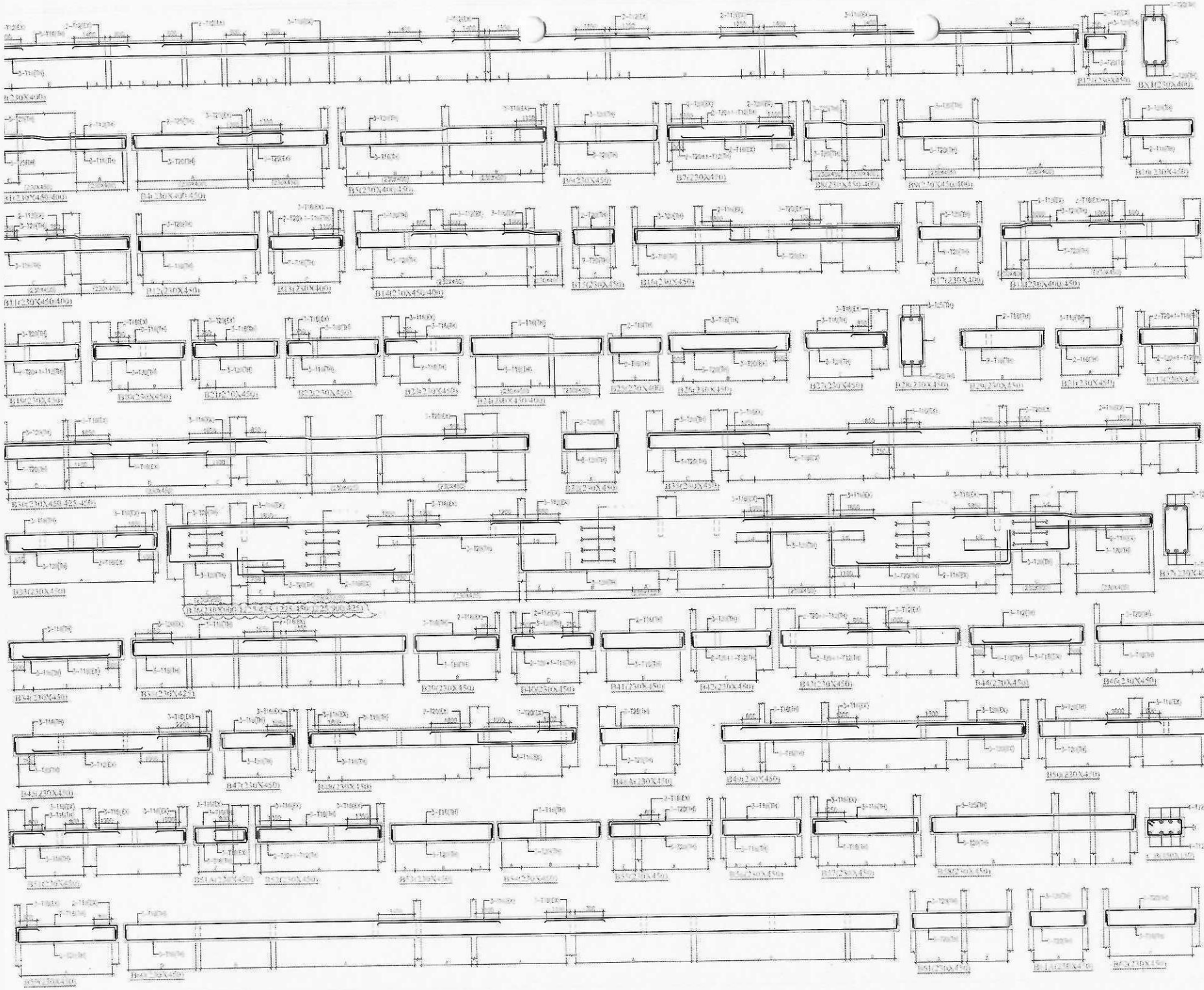
BUILDERS & PROMOTER :

TITLE :
FRAMING PLAN AT 1ST FLOOR LVL TOWER A1,A2 (PART-02)

ARCHITECTS :
DEEPAK MEHTA &ASSOCIATES

SCALE	A1
DATE	30/04/2019
DRAWN BY	KRISHNA
DESIGNED BY	ANAND
CHECKED BY	RAVI KANT
APPROVED BY	V.D. SHARMA

CONSULTANTS :
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.



DRG NO. SSAV PARK/ES/AL/FIRST/01A

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG NO S/VIK/ES/100
2. ALL DIMENSIONS ARE IN mm.
3. CON MIX - M25
4. REINF GRADE - Fe 500
5. THIS DWG SHALL BE READ WITH ALL RELEVANT ARCH. DRAWING.

STIRRUP SCHEDULE

A	2L-T8-100C/C
B	2L-T8-175C/C
C	2L-T10-100C/C
D	2L-T10-175C/C
E	2L-T12-100C/C
F	2L-T12-175C/C

04	01.08.2019	REVISED AS PER ARCH.
03	06.04.2019	G.F.C.
CHK	REV.	DATE REMARKS/ISSUED TO

PROJECT :-

saviour park

PROJECT TITLE :-

PROPOSED GROUP HOUSING AT PLOT AT KHASRA NO. 312 (1-17), 313 (1-4), 314 (1-16), 315 (1-16), 316 (1-4), 317 (1-12), 318 (1-16), 319 (1-16), 320 (1-16), 321 (1-16), 322 (1-16), 323 (1-16), 324 (1-16), 325 (1-16), 326 (1-16), 327 (1-16), 328 (1-16), 329 (1-16), 330 (1-16), 331 (1-16), 332 (1-16), 333 (1-16), 334 (1-16), 335 (1-16), 336 (1-16), 337 (1-16), 338 (1-16), 339 (1-16), 340 (1-16), 341 (1-16), 342 (1-16), 343 (1-16), 344 (1-16), 345 (1-16), 346 (1-16), 347 (1-16), 348 (1-16), 349 (1-16), 350 (1-16), 351 (1-16), 352 (1-16), 353 (1-16), 354 (1-16), 355 (1-16), 356 (1-16), 357 (1-16), 358 (1-16), 359 (1-16), 360 (1-16), 361 (1-16), 362 (1-16), 363 (1-16), 364 (1-16), 365 (1-16), 366 (1-16), 367 (1-16), 368 (1-16), 369 (1-16), 370 (1-16), 371 (1-16), 372 (1-16), 373 (1-16), 374 (1-16), 375 (1-16), 376 (1-16), 377 (1-16), 378 (1-16), 379 (1-16), 380 (1-16), 381 (1-16), 382 (1-16), 383 (1-16), 384 (1-16), 385 (1-16), 386 (1-16), 387 (1-16), 388 (1-16), 389 (1-16), 390 (1-16), 391 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KAPASERA AT VILLAGE KAPASERA, NEW DELHI

SAVIOUR PARK (GROUP HOUSING) MUMBAI

NAGAR GHAZIABAD (U.P.)

BUILDERS & PROMOTERS :-

TITLE :-

BEAM DETAIL AT 1ST FLOOR LVL (TOWER-A1,A2)(PART-02)

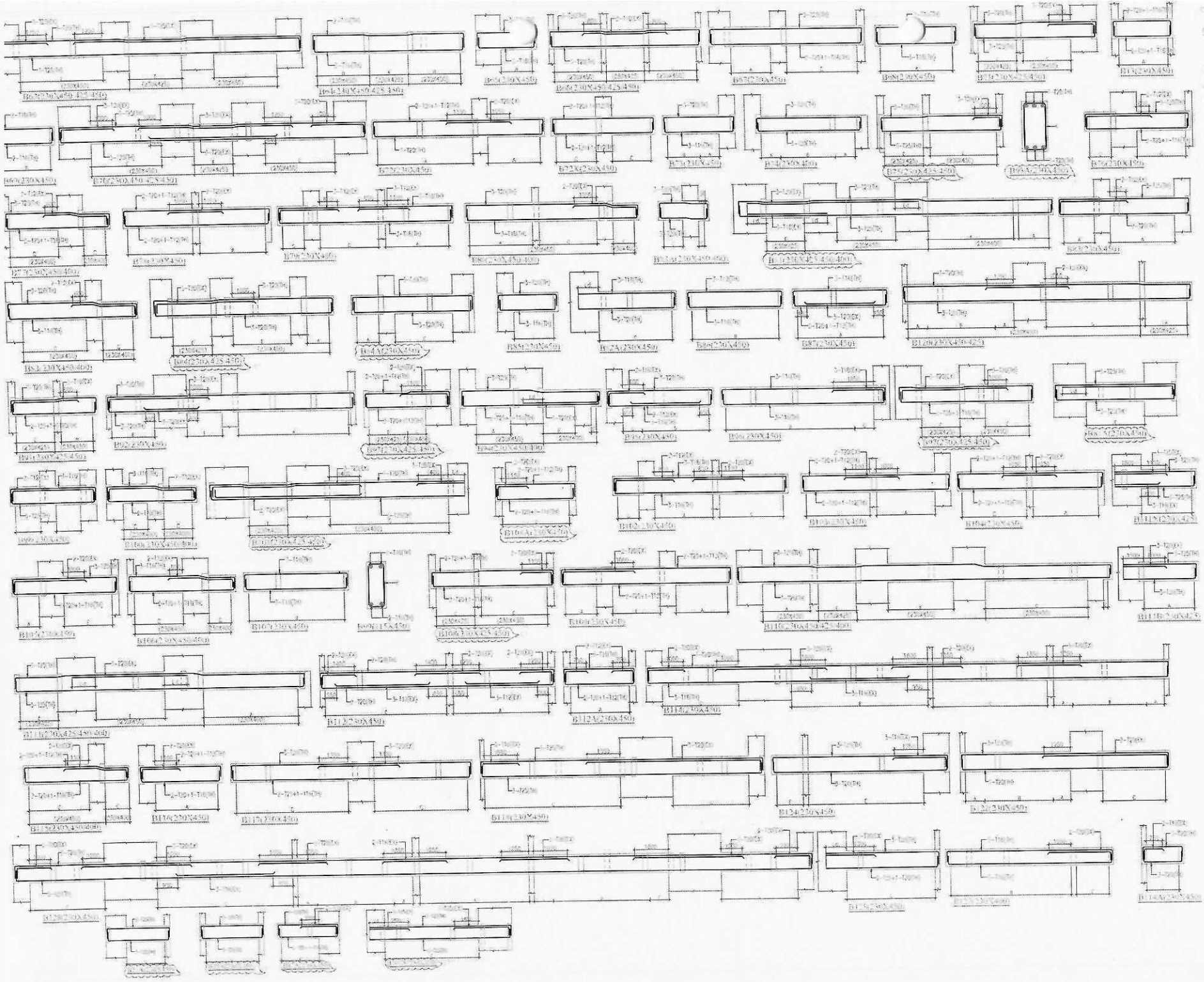
ARCHITECTS :-

DEEPAK MEHTA &ASSOCIATES

SCALE	A2
DATE	30/04/2019
DRAWN BY	KRISHNA
DESIGNED BY	ANAND
CHECKED BY	RAVI KANT
APPROVED BY	V.D. SHARMA

CONSULTANTS :-

OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.



DRG NO. SSW-PART-1-ALL-FM-001

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG NO. G-SWE-1-ALL
2. ALL DIMENSIONS ARE IN mm
3. CON. MIX - M45
4. REINF GRADE - Fe 500
5. THIS DWG SHALL BE READ WITH ALL RELEVANT ARCH. DRAWING

STIRRUP SCHEDULE

A	2L-T8-100C/C
B	2L-T8-175C/C
C	2L-T10-100C/C
D	2L-T10-175C/C
E	2L-T12-100C/C
F	2L-T12-175C/C

04	30.07.2019	ISSUED FOR CONSTRUCTION
03	05.07.2019	ISSUED FOR CONSTRUCTION
02	24.06.2019	ISSUED FOR CONSTRUCTION
01	17.06.2019	ISSUED FOR CONSTRUCTION
REV	DATE	REMARKS/ISSUED TO

PROJECT :-

seviour park

PROJECT TITLE :-

PROPOSED GROUP HOUSING AT PLOT AT KHASRA NO. 112/1, 112/2, 113/1, 114/2, 115/2, 116/2, 117/1, 117/2, 118/1, 119/1, 119/2, 120/1, 121/1, 122/1, 123/1, 124/1, 125/1, 126/1, 127/1, 128/1, 129/1, 130/1, 131/1, 132/1, 133/1, 134/1, 135/1, 136/1, 137/1, 138/1, 139/1, 140/1, 141/1, 142/1, 143/1, 144/1, 145/1, 146/1, 147/1, 148/1, 149/1, 150/1, 151/1, 152/1, 153/1, 154/1, 155/1, 156/1, 157/1, 158/1, 159/1, 160/1, 161/1, 162/1, 163/1, 164/1, 165/1, 166/1, 167/1, 168/1, 169/1, 170/1, 171/1, 172/1, 173/1, 174/1, 175/1, 176/1, 177/1, 178/1, 179/1, 180/1, 181/1, 182/1, 183/1, 184/1, 185/1, 186/1, 187/1, 188/1, 189/1, 190/1, 191/1, 192/1, 193/1, 194/1, 195/1, 196/1, 197/1, 198/1, 199/1, 200/1, 201/1, 202/1, 203/1, 204/1, 205/1, 206/1, 207/1, 208/1, 209/1, 210/1, 211/1, 212/1, 213/1, 214/1, 215/1, 216/1, 217/1, 218/1, 219/1, 220/1, 221/1, 222/1, 223/1, 224/1, 225/1, 226/1, 227/1, 228/1, 229/1, 230/1, 231/1, 232/1, 233/1, 234/1, 235/1, 236/1, 237/1, 238/1, 239/1, 240/1, 241/1, 242/1, 243/1, 244/1, 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BUILDERS & PROMOTER :-

TITLE :-

REAMBLE FAIL AT 1ST FLOOR LVL
TOWER A1 & A2 (PART-02)

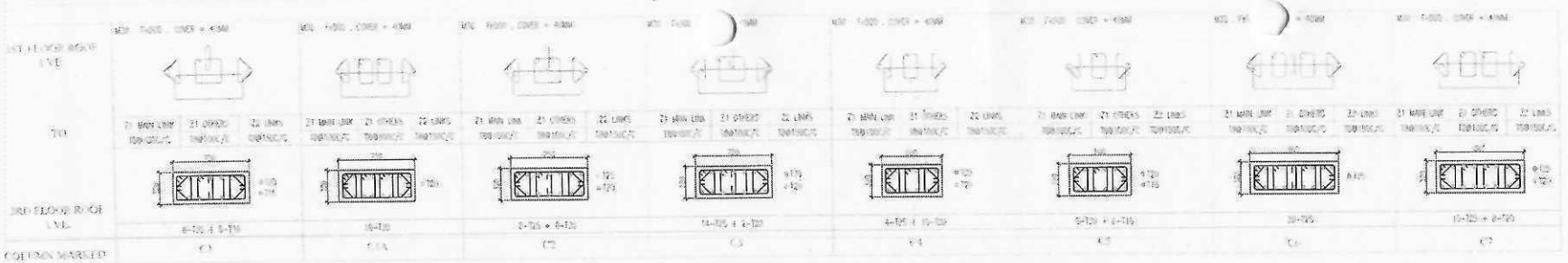
ARCHITECTS :-

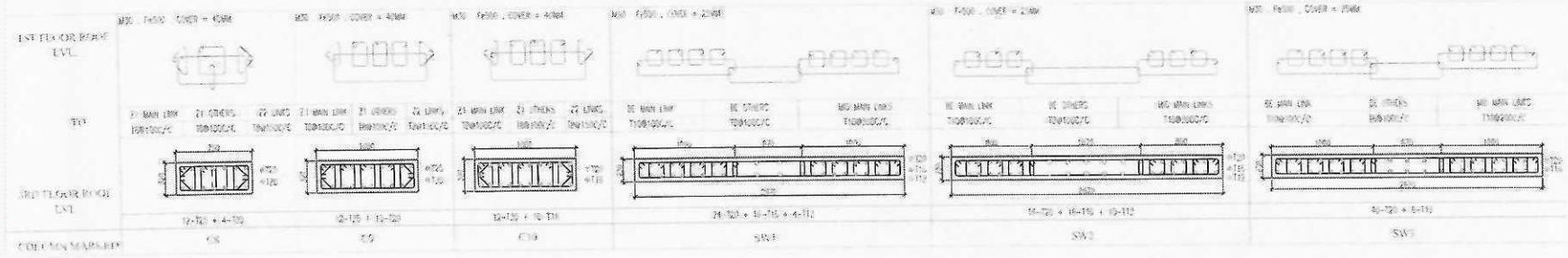
DEEPAK MEHTA ASSOCIATES

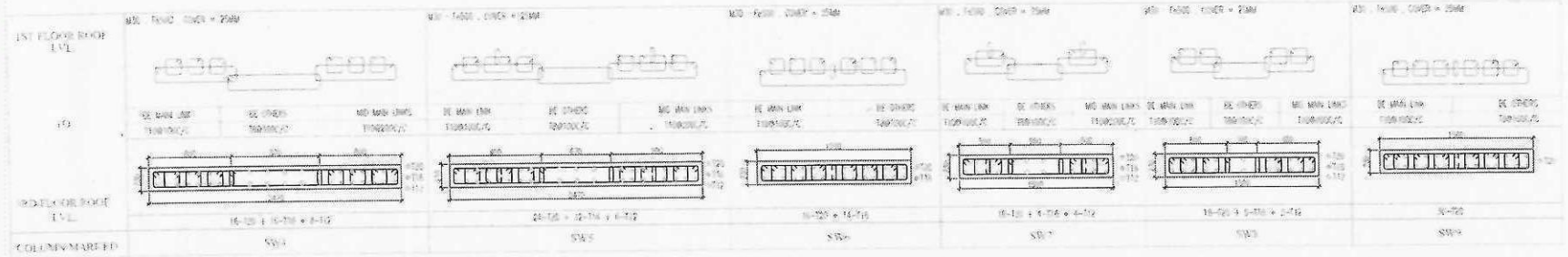
SCALE	40
DATE	30/04/2019
DRAWN BY	KRISHNA
DESIGNED BY	MANO
CHECKED BY	RAVI KANT
APPROVED BY	V.S. SHARMA

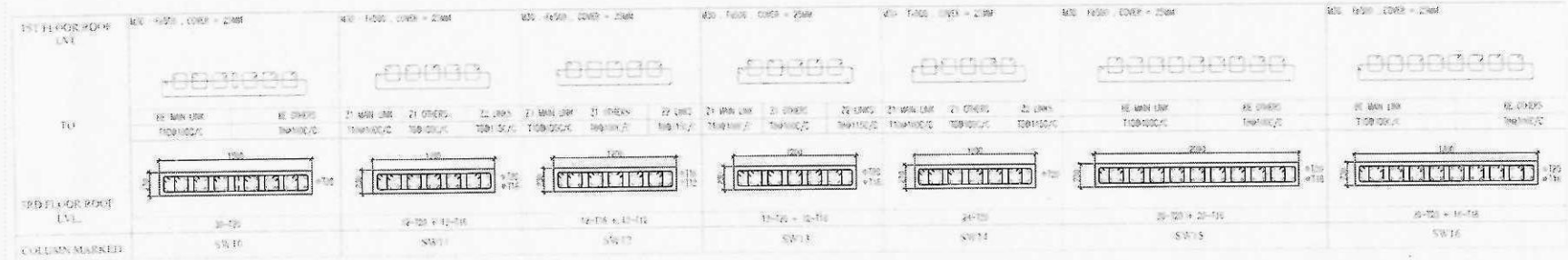
CONSULTANTS :-

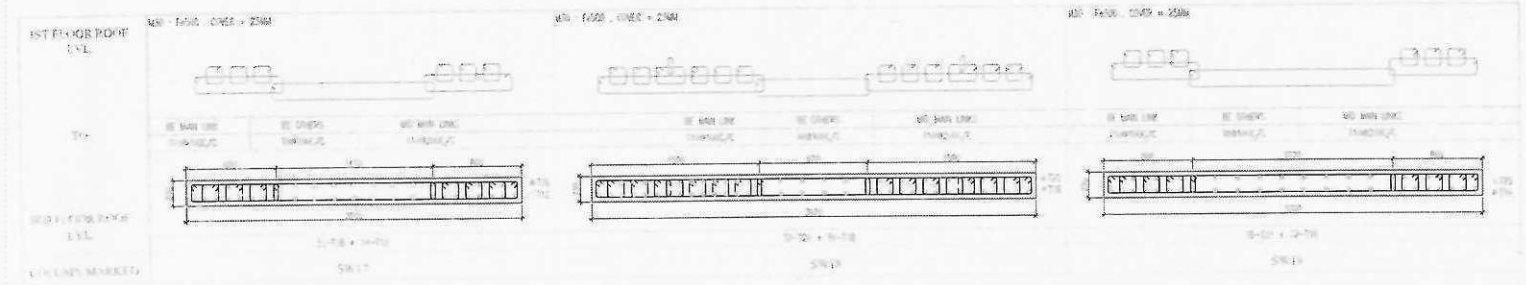
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.
B-29, SECTOR-67, NOIDA-201301
Phone : 0120-4370000, 4370001
0120-3640100 (5 LINES)
Email : info@optimumdesign.in
Website : www.optimumdesign.in

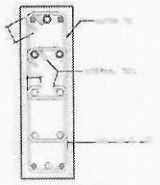












DRGNO. S-SAV-PARK-T-A1&A2-P42-1002

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO. S-GEN-A1-1001
2. ALL DIMENSIONS ARE IN mm.
4. CON MIX - M35
5. REINF. GRADE - Fe 500

BUILDING HAS BEEN DESIGN
2 BASEMENT +GROUND+14TH STOREY

TYPICAL COLUMN ELEVATION DETAIL REFER SHEET NO.-S-GAL PARK-T-A1(&A2)_P-04-1003

PROJECT :-

PROJECT TITLE :-

BUILDERS & PROMOTERS :-

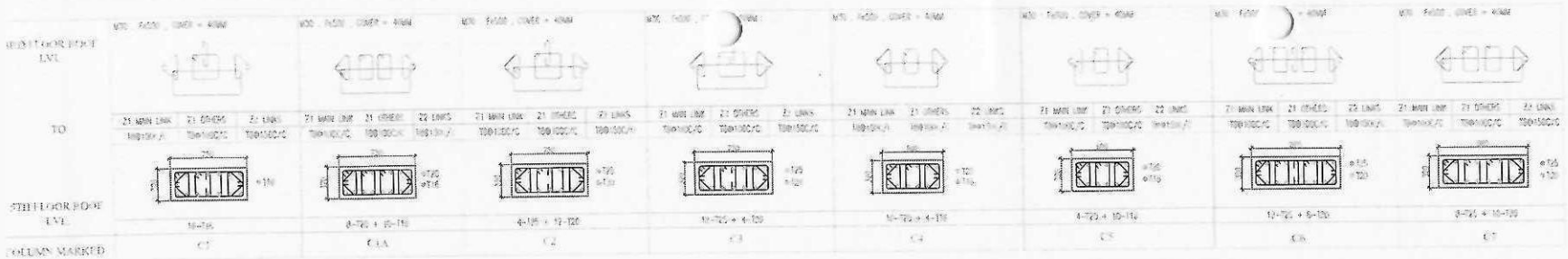
TITLE COLUMN SCHEDULE 1ST FLOOR ROOF LVL TO 3RD FLOOR ROOF LVL TOWER-A1& A2 (PAP 1 of 2)

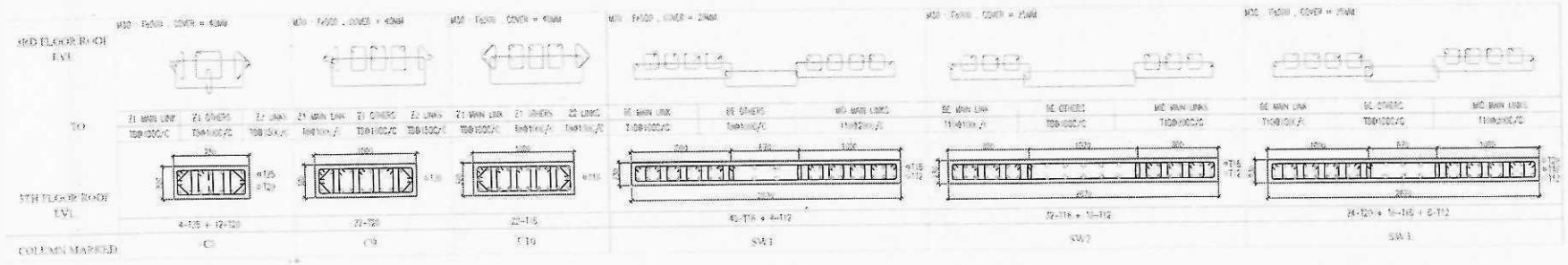
ARCHITECTS :-
DEEPAK MEHTA & ASSOCIATES
ARCHITECTS PLANNERS VALUERS LANDSCAPE & INTERIORS
Unit: 2nd FLOOR, PLOT NO. 16, ARUNACHAL PLAZA 3, C.S.C.
MAYUR VIHAR PH - I, DELHI - 110 091, INDIA

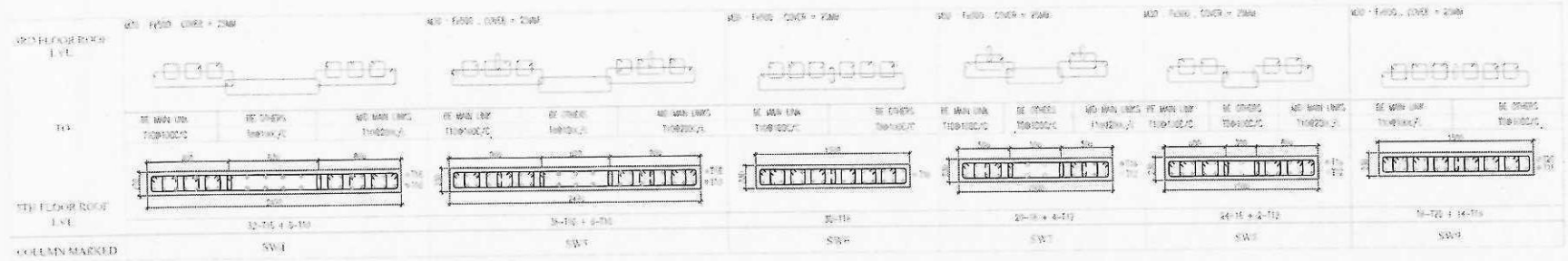
SCALE	A2
DATE	31/03/2010
DRAWN BY	KRISHNA
DESIGNED BY	ANAND
APPROVED BY	V.D. SHARMA

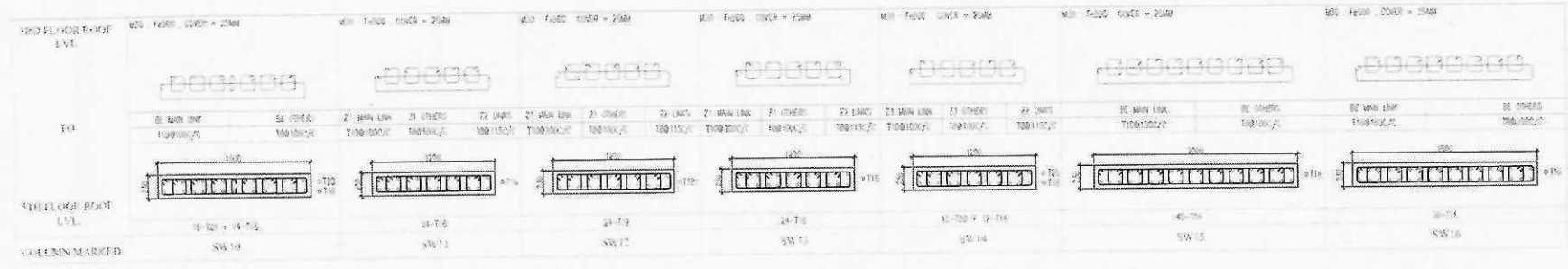
CONSULTANTS :-

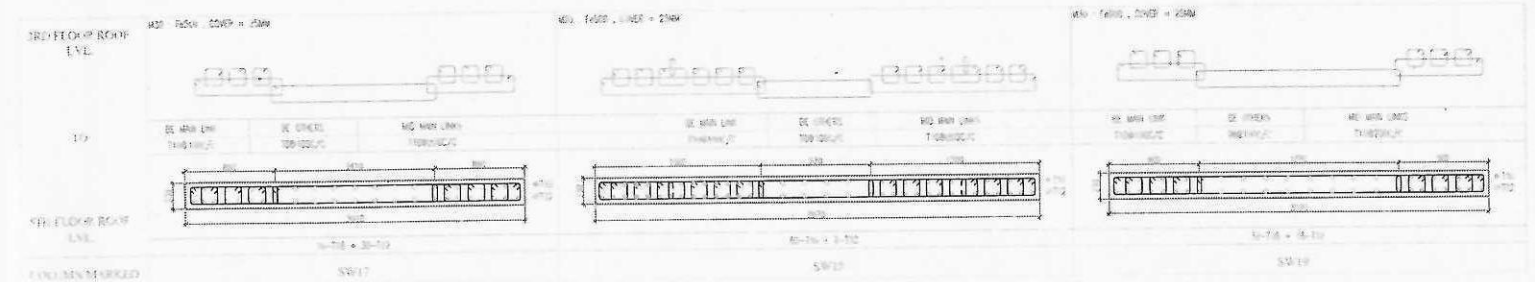
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.

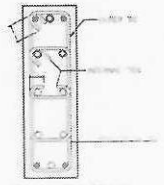












DWG NO S-SAV PARK-I-A1&A2 P-02-1070

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO. S-GN/E/100
2. ALL DIMENSIONS ARE IN mm.
4. CON. MIX - M30
5. REINF. GRADE - Fe 500.

BUILDING HAS BEEN DESIGN
2 BASEMENT +GROUND+14TH STOREY

TYPICAL COLUMN ELEVATION DETAIL REFER SHEET NO-S-300 PARK-I-A1&A2 P-02-1078

PROJECT :-

PROJECT TITLE :-
PROPOSED GROUP HOUSING AT PLOT AT KHASRA
PARKEA M/S ZAVCON INFRA PVT. LTD.
NIGAM GHAZIABAD (U.P.)

BUILDERS & PROMOTER :-

TITLE :- COLUMN SCHEDULE UPPER 3RD FLOOR ROOF LVL TO 9TH FLOOR ROOF LVL TOWER-A1&A2 (PARK-07)

ARCHITECTS :-
DEEPAK MEHTA & ASSOCIATES
ARCHITECTS, PLANNERS & VASTU & LANDSCAPE & INTERIORS
1ST & 2ND FLOOR, PLOT NO. 16, ABHISHEK PLAZA, I.P. EXT., MAYUR VIHAR PH.-II, DELHI - 110091, INDIA

SCALE	A2
DATE	21/02/2019
DRAWN BY	KRISHNA
DESIGNED BY	ANAND
APPROVED BY	V.D. SHARMA

CONSULTANTS :-
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.

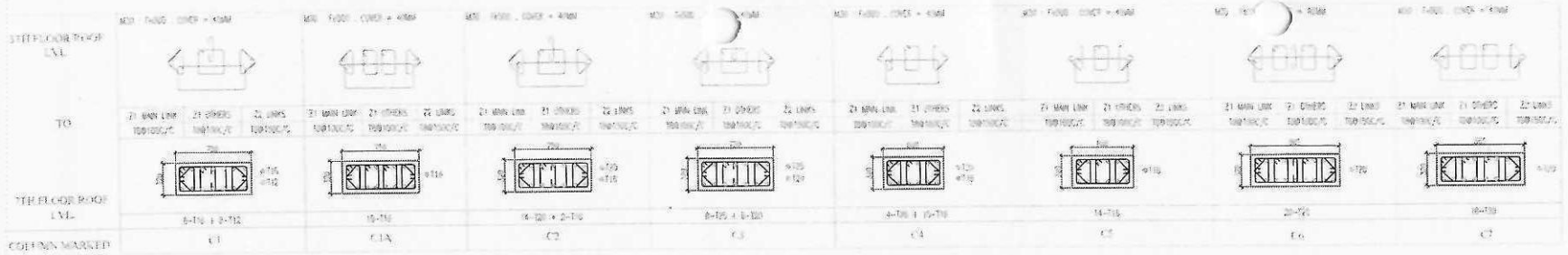
DRG NO. S-NAV PARK-T-A1&A2-[illegible]

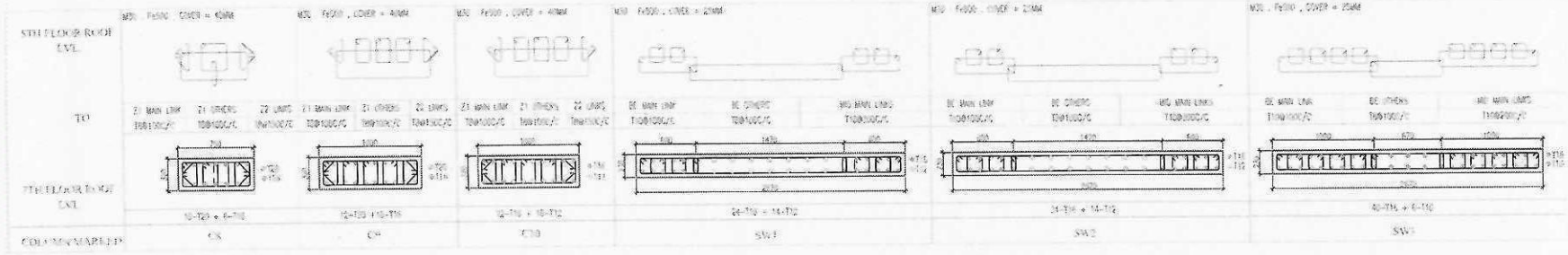
GENERAL NOTES

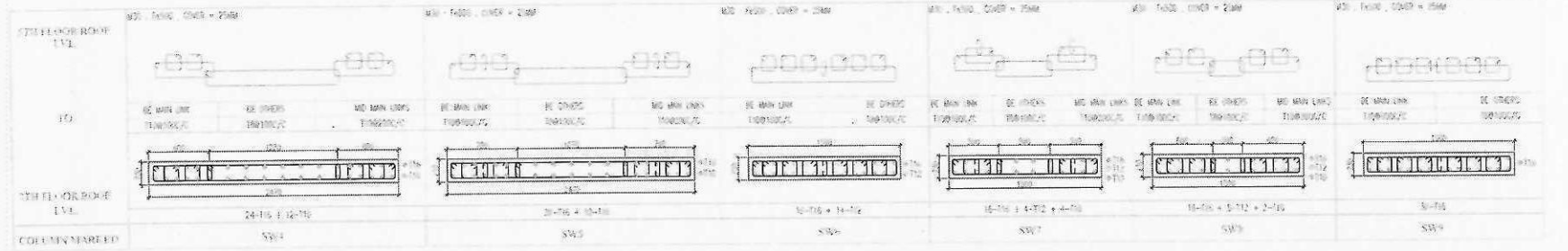
1. FOR GENERAL NOTES REFER DRG. NO. S-NAVPARK-T-GN
2. ALL DIMENSIONS ARE IN mm.
4. CONC. MIX - M30
5. REINF. GRADE - Fe 500

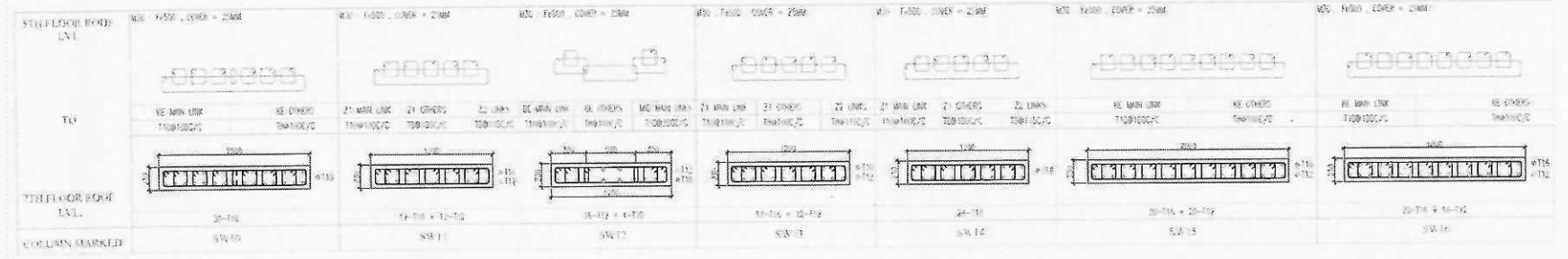
BUILDING HAS BEEN DESIGN
2 BASEMENT + GROUND+14TH STOREY

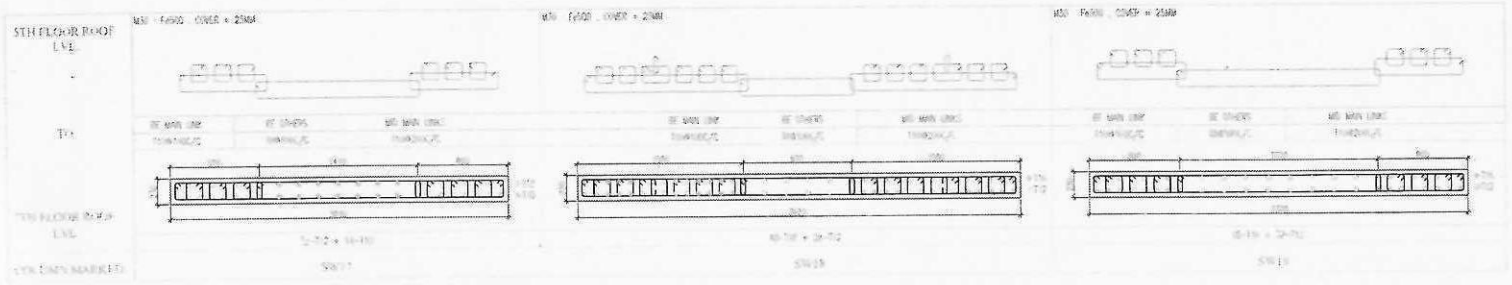
TYPICAL COLUMN ELEVATION DETAIL REFER SHEET NO.-S-DAV PARK-T-A1&A2_F-02-11700

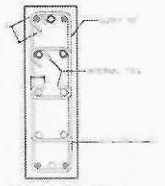












PROJECT :-

PROJECT TITLE :-
PROPOSED GROUP HOUSING AT PLOT AT KHASRA NO. [illegible]
[illegible]
SANGANER (SANGER TEHSIL) MOHAN NAGAR SANGANER (SJP.)

BUILDERS & PROMOTER :-

TITLE :- COLUMN SCHEDULE UPPER STILT FLOOR ROOF LVL TO 7TH FLOOR ROOF LVL TOWER A1 & A2 (PART-II)

ARCHITECTS :-
DEEPAK MEHTA & ASSOCIATES
ARCHITECTS PLANNERS VALUERS LANDSCAPE & INTERIORS
INDL 2nd FLOOR PLOT NO. 16, ARUNACHAL PLAZA, L.S.C.
MAYUR VIHAR PH - II, DELHI - 110091, INDIA
[illegible]

SCALE	A2
DATE	23/02/2019
DRAWN BY	KRISHNA
DESIGNED BY	ANAND
APPROVED BY	V.D. SHARMA

CONSULTANTS :-
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001: 2008 Certified Co.
[illegible]

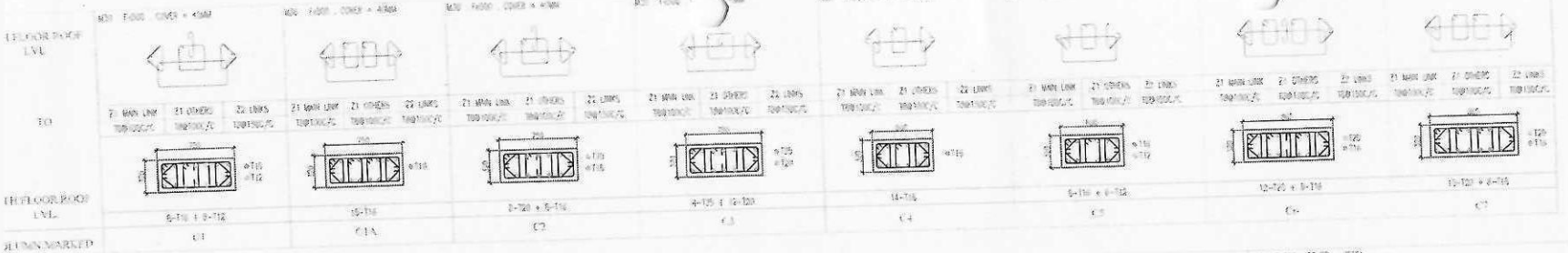
PROJECT NO. : S SAV PARC-T-A16A2 (PART-02)

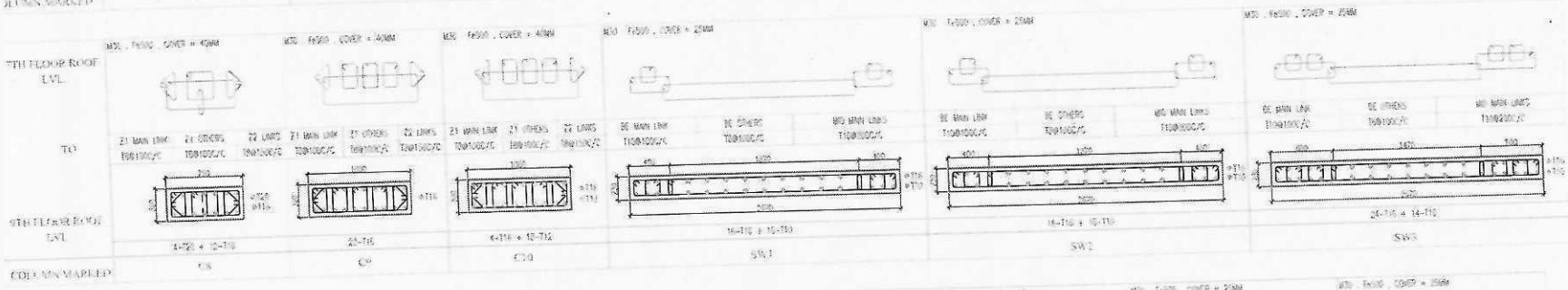
GENERAL NOTES

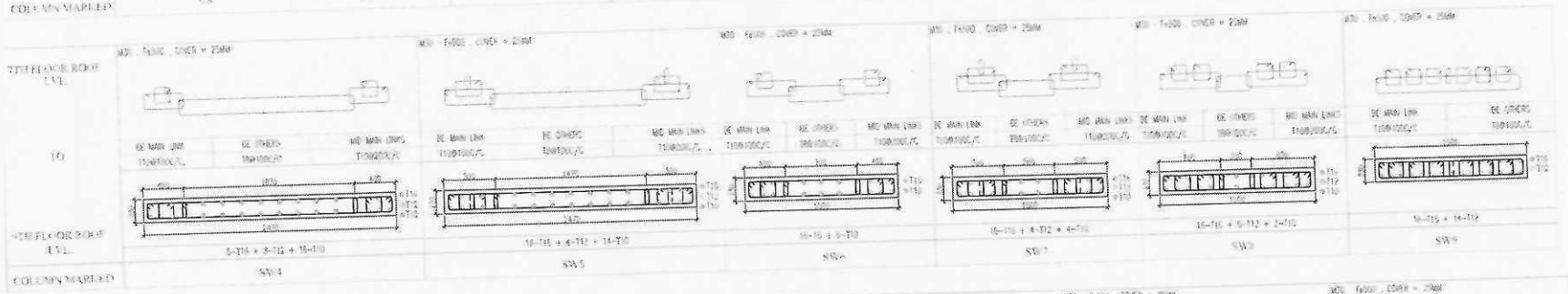
1. FOR GENERAL NOTES REFER DRG. NO. S/SW/E/150
2. ALL DIMENSIONS ARE IN mm.
4. CON. MIX :-M30
5. REINF. GRADE :- Fe 500

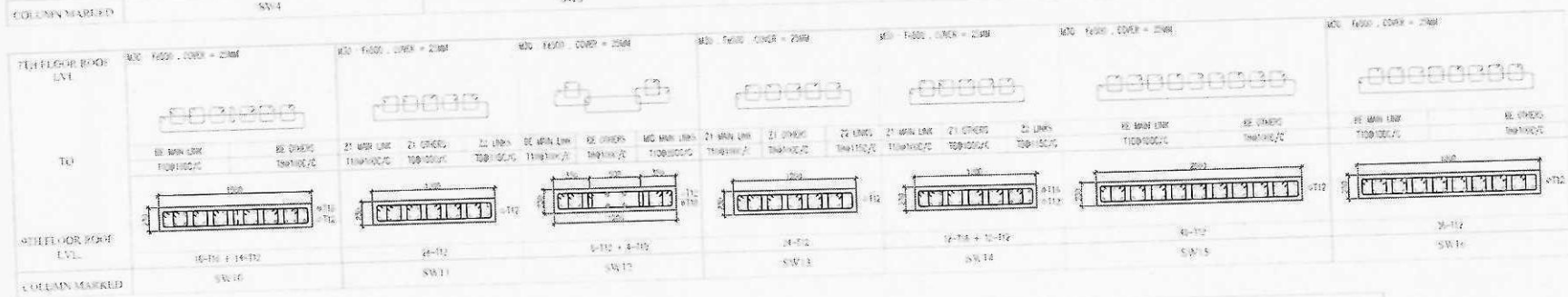
BUILDING HAS BEEN DESIGN
2 BASEMENT +GROUND+14TH STOREY

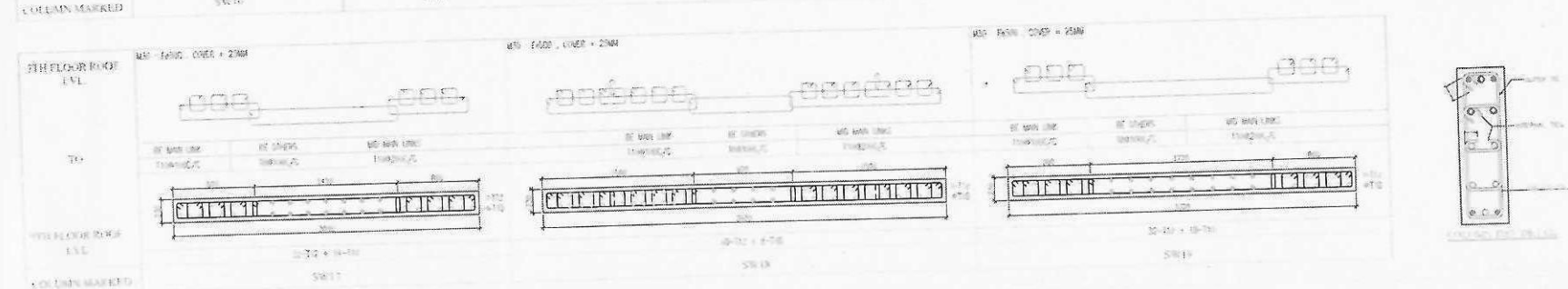
TYPICAL COLUMN ELEVATION DETAIL REFER SHEET NO.-S-SAV PARK-T-A16A2_P-02-1008











PROJECT :-

PROJECT TITLE :-
PROPOSED GROUP HOUSING AT PLOT AT KHASRA NO.[illegible]
MAHIPALPUR EXTN. NEW DELHI

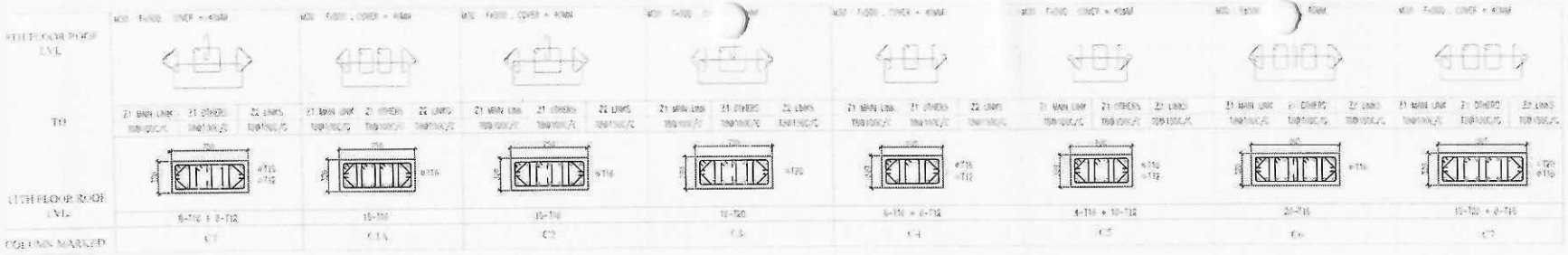
BUILDER & PROMOTER :-

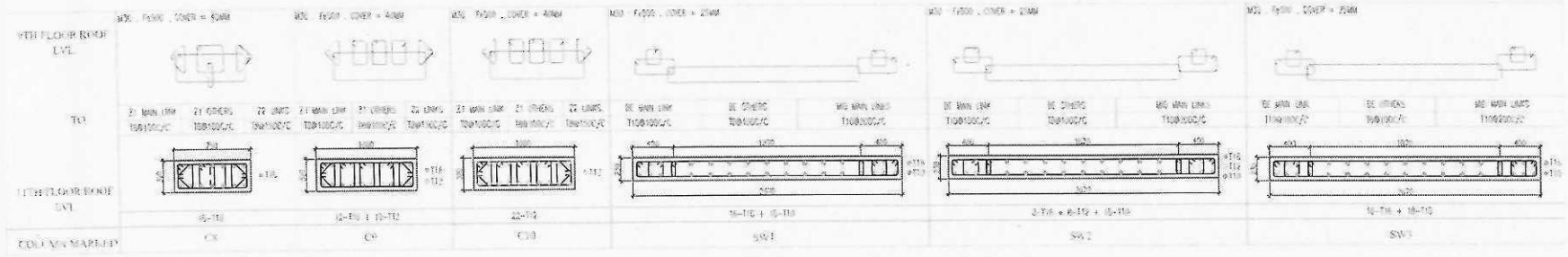
TITLE :- COLUMN SCHEDULE (LOWER 7TH FLOOR ROOF LVL TO 9TH FLOOR ROOF LVL)
TOWER-A16 & 21(PART-02)

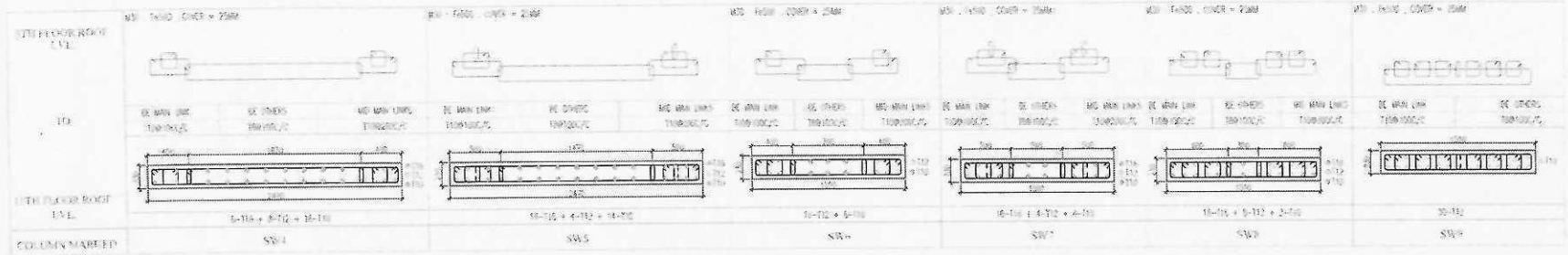
ARCHITECTS :-
DEEPAK MEHTA & ASSOCIATES
ARCHITECTS, PLANNERS, VALUE ENGINEERS, LANDSCAPE & INTERIORS
[illegible] 2nd FLOOR, PLOT NO. 16, ARUNA ASHEK PLAZA, L.S.C
MAYUR VIHAR PH - II, DELHI - 110091, INDIA

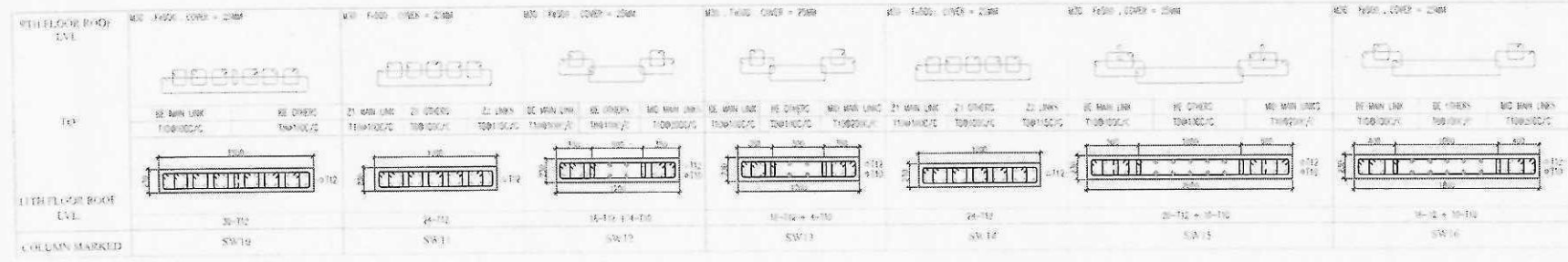
SCALE	A2
DATE	31/03/2014
DRAWN BY	KESHAV
DESIGNED BY	ANAND
APPROVED BY	V.P. SHARMA

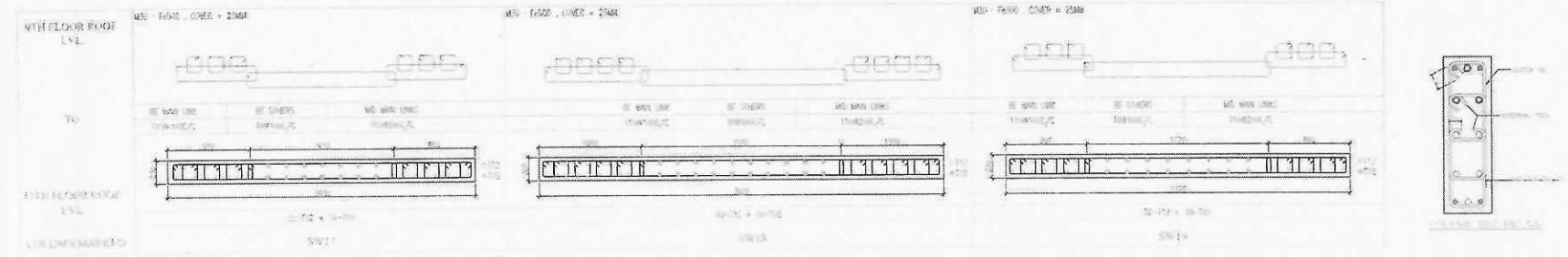
CONSULTANTS :-
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.
[illegible]











DRG NO. S-SNV-PARK-T-ATRIA2_9-02-8058

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO. S-SNV-9-150
2. ALL DIMENSIONS ARE IN mm.
4. CON. MIX – M30
5. REINF. GRADE – Fe 500

BUILDING HAS BEEN DESIGN
2 BASEMENT +GROUND+14TH STOREY

TYPICAL COLUMN ELEVATION DETAIL REFER SHEET NO.-S-SNV-PARK-T-ATRIA2_9-02-8058

PROJECT :-

PROJECT TITLE :-
PROPOSED GROUP HOUSING AT PLOT 'A2' KHASRA NO.1142/1143/1144/1145/1146/1147/1148, 1150/1151/1152/1153/1154/1155/1156/1157/1158/1159/1160/1161, 1162, 1163, 1164, 1165, 1166, 1167/1168, 1169, KARKHERA A1 1/2, A2 1/2, 1/3, IN SAHIBABAD TAHSIL & PARGANA, MOHAN NAGAR GHAZIABAD (U.P.)

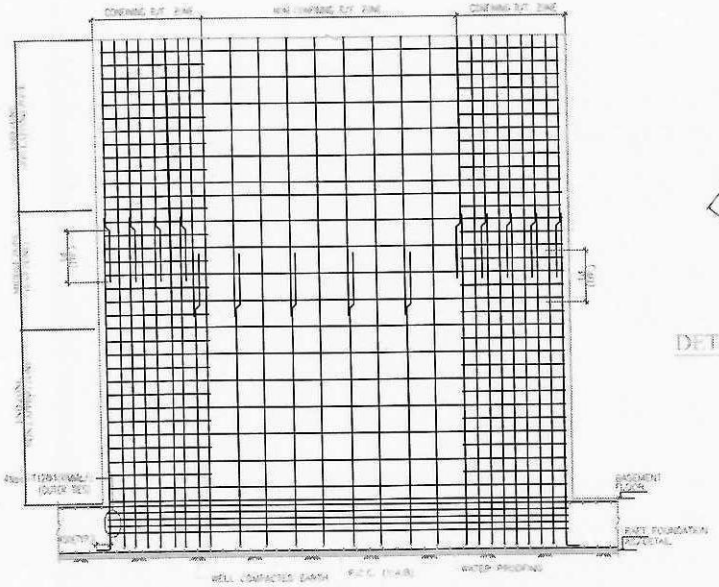
BUILDERS & PROMOTER :-

TITLE :- COLUMN SCHEDULE (UPPER +9TH FLOOR ROOF LVL TO 11TH FLOOR ROOF LVL TOWER A1 & A2 (PART-02)

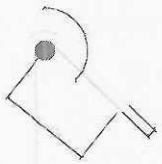
ARCHITECTS :-
DEEPAK MEHTA & ASSOCIATES
ARCHITECTS, PLANNERS, VASTUTEA, LANDSCAPE & INTERIORS
FIRST & SECOND FLOOR, PLOT NO. 16, ABHISHEK PLAZA, I.P. EXTN. MAYUR VIHAR PH - II, DELHI - 110091, INDIA

SCALE	A2
DATE	21/07/2014
DRAWN BY	KRISHNA
DESIGNED BY	ANAND
APPROVED BY	V.P. SHARMA

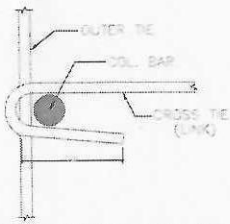
CONSULTANTS :-
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.



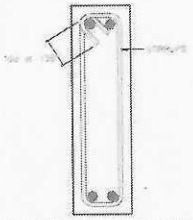
SECTION Y-Y
TYPICAL LAPPING ZONE DETAIL OF SHEARWALL



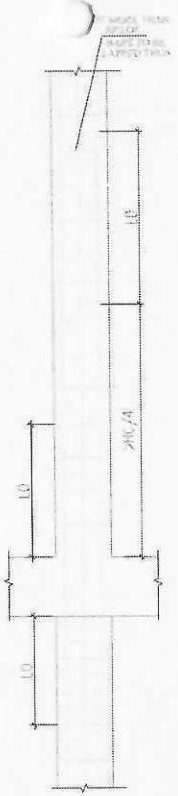
DETAIL OF HOOKS

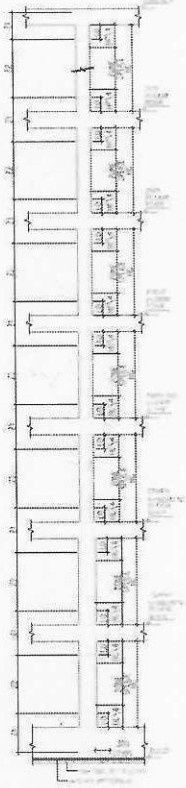


TYP. DETAIL OF CROSS TIE&OUTER TIE ALONG WITH VERTICAL BAR.



MANDATORY 135° HOOK DETAIL IN COLUMN, BEAM STIRRUPS





DRG NO S/AW PART-A(A)/ R/0 R1/R2

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG NO S/GN/E/100
2. ALL DIMENSIONS ARE IN mm.
3. CON. MIX - M30
4. REINF. GRADE - Fe 500

BUILDING HAS BEEN DESIGN
2 BASEMENT +GROUND+14TH STOREY

DATE : 25/02/2014 SCALE :
CHK. BY : DWG. NO. : R0/R1/R2/R3/R4

PROJECT :-

PROJECT TITLE :-
PROPOSED GROUP HOUSING AT PLOT NO. KH/SHOP
NO. 1 & 2, 11/12, 14/1, 15/1/MIN/2, 15/1/MIN/3, 15/1/MIN/4, 15/2,
17/2/MIN/1, 17/2/MIN/2, 17/2/MIN/3, 17/2/MIN/4, 17/2/MIN/5, 17/2/MIN/6,
17/3, 18/1, 18/2, 18/3, 18/4, 19/2, 19/3, 19/4, 19/5, 19/6, 19/7, 19/8, 19/9,
KH/SHOP NO. 1, 2, 11, 12, 13, 17/1, 18, 19,
GHAZIABAD (URBAN) PARK, MOHAN NAGAR, GHAZIABAD (U.P.)

BUILDERS & PROMOTER :-

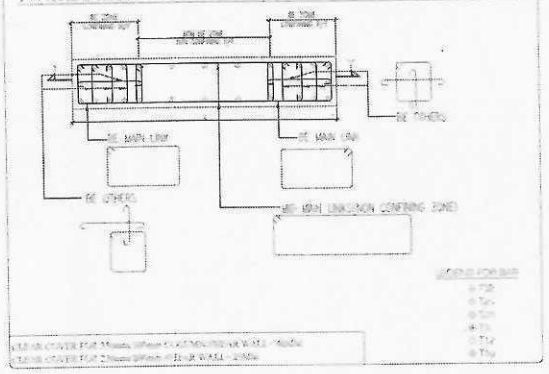
TITLE :- COLUMN SCHEDULE 1ST FLOOR ROOF LVL TO 1ST FLOOR ROOF LVL TOWER A1/A2 (PART-02)

ARCHITECTS :-
DEEPAK MEHTA & ASSOCIATES
ARCHITECTS, PLANNERS, VALUERS, LANDSCAPE & INTERIORS
Unit No. 5&6, 1st FLOOR, PLOT NO. 16, ARUNACHAL PRADESH, ARUNACHAL PRADESH
MAYUR VIHAR PH - I, DELHI - 110091, INDIA

SCALE	NS
DATE	25/02/2014
DRAWN BY	KRISHNA
DESIGNED BY	ANAND
APPROVED BY	V.D. SHARMA

CONSULTANTS :-
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.

TYPICAL SHEAR WALL DETAILS SHOWING LINK REINF. ARRANGEMENT





SHEAR WALL SCHEDULE

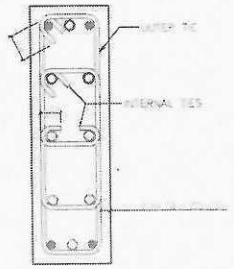
TABLE 12(I)

NOTES:

1. BE = BOUNDARY ELEMENT AS PER CL 13.6.2(I). PROVIDE CONFINING REINFORCEMENT ACROSS ENTIRE WIDTH OF WALL IN THE BOUNDARY ELEMENT
2. SE = SPECIAL CONFINING ZONE AS PER CL 13.6.2(II) & REMAINING ZONE AS PER CL 13.6.2(III)

NOTE ON CURTAILMENT DETAILS OF COLUMNS

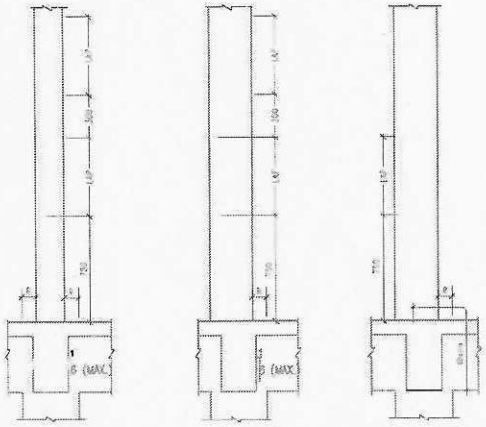
1. He IS CLEAR COLUMN HEIGHT.
2. Lo IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) He/6
   c) 450mm
3. FOR DEVELOPMENT LENGTH 'Ld' REFER GENERAL NOTES PEFER DRAWING NO. S/SN/E/100 AND Fe-500.
4. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION.
5. S2 - TIES AS PER COLUMN SCHEDULE
   S1 - 8 ϕ @ 00 C/C (INNER TIES)
   10 ϕ @100 C/C (OUTER TIES)



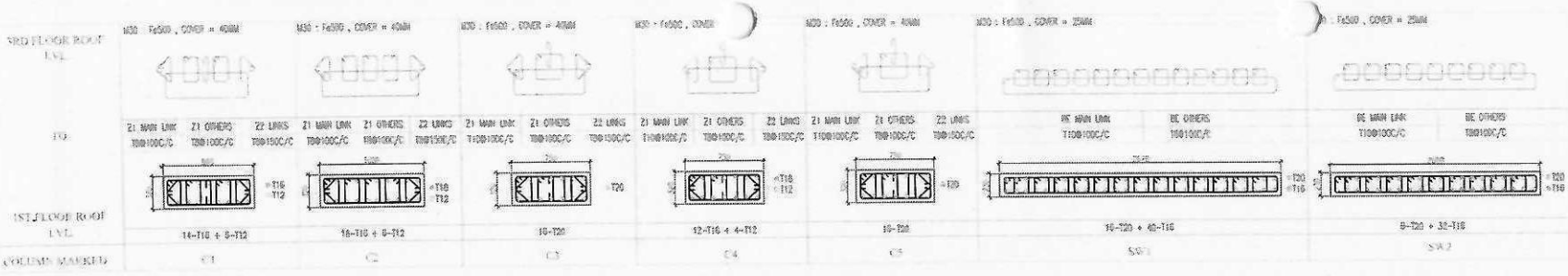
COLUMN TIES DETAIL

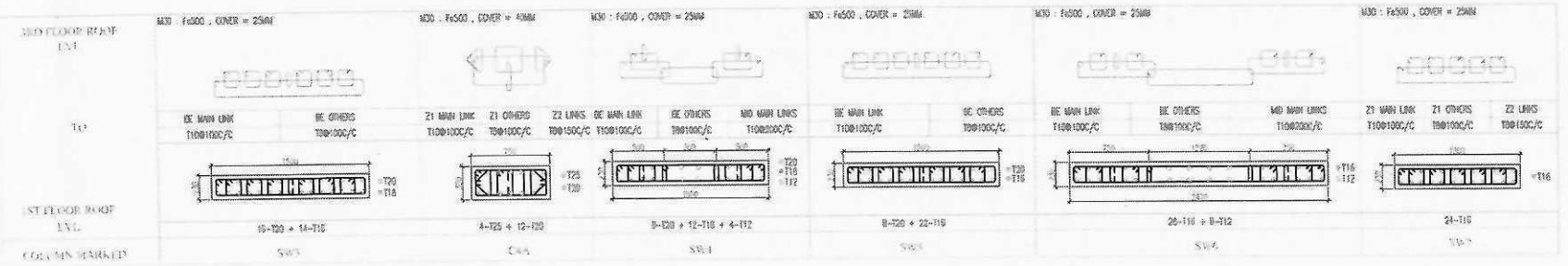


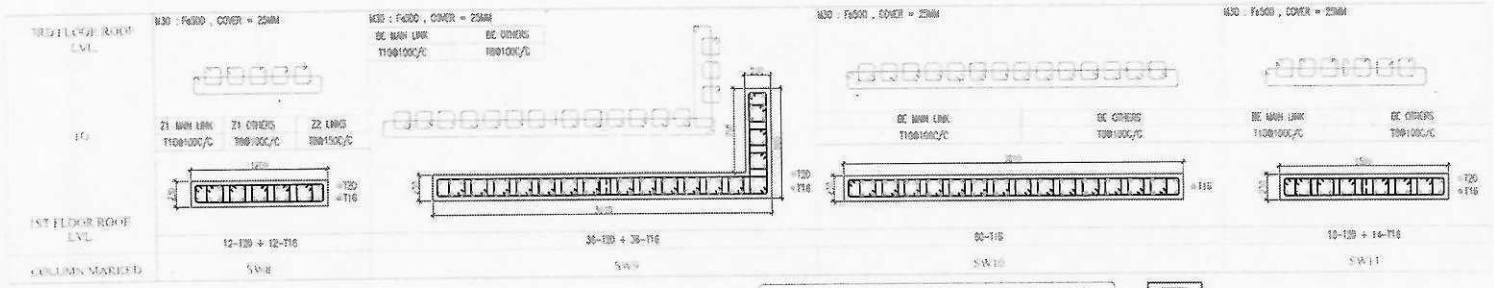
TYPICAL DETAIL OF STIRRUP/TIES BENDING

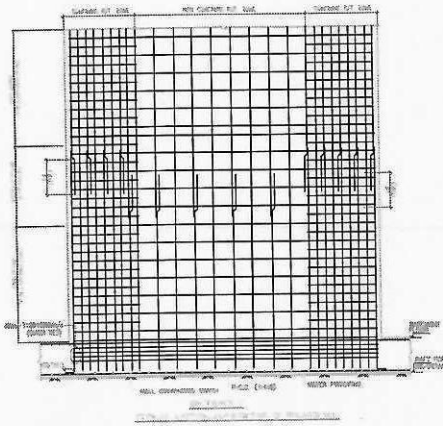


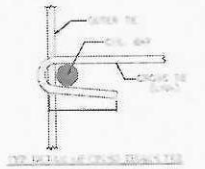
STAGGERING OF COLUMN, SHEAR WALL BARS AND REDUCTION OF SIZE
(TIES NOT SHOWN FOR CLARITY)

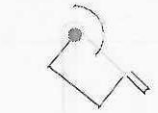


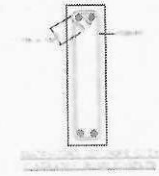


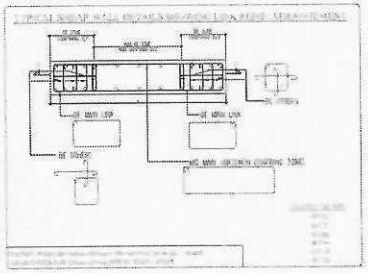


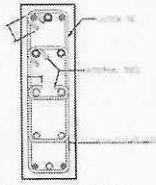




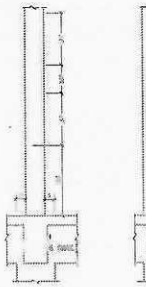


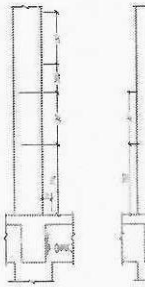


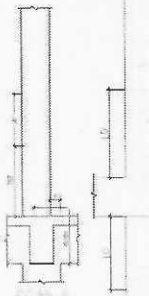


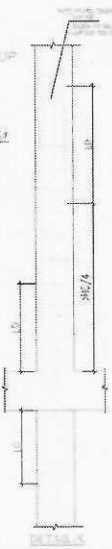


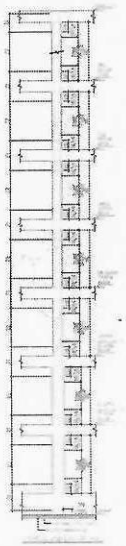










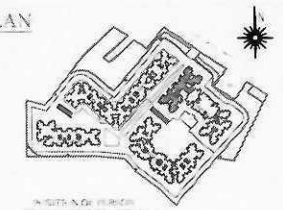


DWG NO S-STY PORT-ATS-A2-P-02-1018

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG NO. S/PNVE/100
2. ALL DIMENSIONS ARE IN mm.
4. CON. MIX - M30
5. REINF. GRADE - Fe 500

KEY PLAN



BUILDING HAS BEEN DESIGN
2 BASEMENT +GROUND+14TH STOREY

CON NO DATE REVISION/ISSUED TO

PROJECT :-

PROJECT TITLE :-
PROPOSED GROUP HOUSING AT PLOT AT GHITORNI
KHASRA NO. 1/1/2, 1/1/3, 1/1/4, 1/1/5, 1/1/6, 1/1/7, 1/2, 1/3, 1/4, 1/5, 1/6, 1/7, 1/8, 1/9, 1/10, 1/11, 1/12, 1/13, 1/14, 1/15, 1/16, 1/17, 1/18, 1/19, 1/20, 1/21, 1/22, 1/23, 1/24, 1/25, 1/26, 1/27, 1/28, 1/29, 1/30, 1/31, 1/32, 1/33, 1/34, 1/35, 1/36, 1/37, 1/38, 1/39, 1/40, 1/41, 1/42, 1/43, 1/44, 1/45, 1/46, 1/47, 1/48, 1/49, 1/50, 1/51, 1/52, 1/53, 1/54, 1/55, 1/56, 1/57, 1/58, 1/59, 1/60, 1/61, 1/62, 1/63, 1/64, 1/65, 1/66, 1/67, 1/68, 1/69, 1/70, 1/71, 1/72, 1/73, 1/74, 1/75, 1/76, 1/77, 1/78, 1/79, 1/80, 1/81, 1/82, 1/83, 1/84, 1/85, 1/86, 1/87, 1/88, 1/89, 1/90, 1/91, 1/92, 1/93, 1/94, 1/95, 1/96, 1/97, 1/98, 1/99, 1/100, 1/101, 1/102, 1/103, 1/104, 1/105, 1/106, 1/107, 1/108, 1/109, 1/110, 1/111, 1/112, 1/113, 1/114, 1/115, 1/116, 1/117, 1/118, 1/119, 1/120, 1/121, 1/122, 1/123, 1/124, 1/125, 1/126, 1/127, 1/128, 1/129, 1/130, 1/131, 1/132, 1/133, 1/134, 1/135, 1/136, 1/137, 1/138, 1/139, 1/140, 1/141, 1/142, 1/143, 1/144, 1/145, 1/146, 1/147, 1/148, 1/149, 1/150, 1/151, 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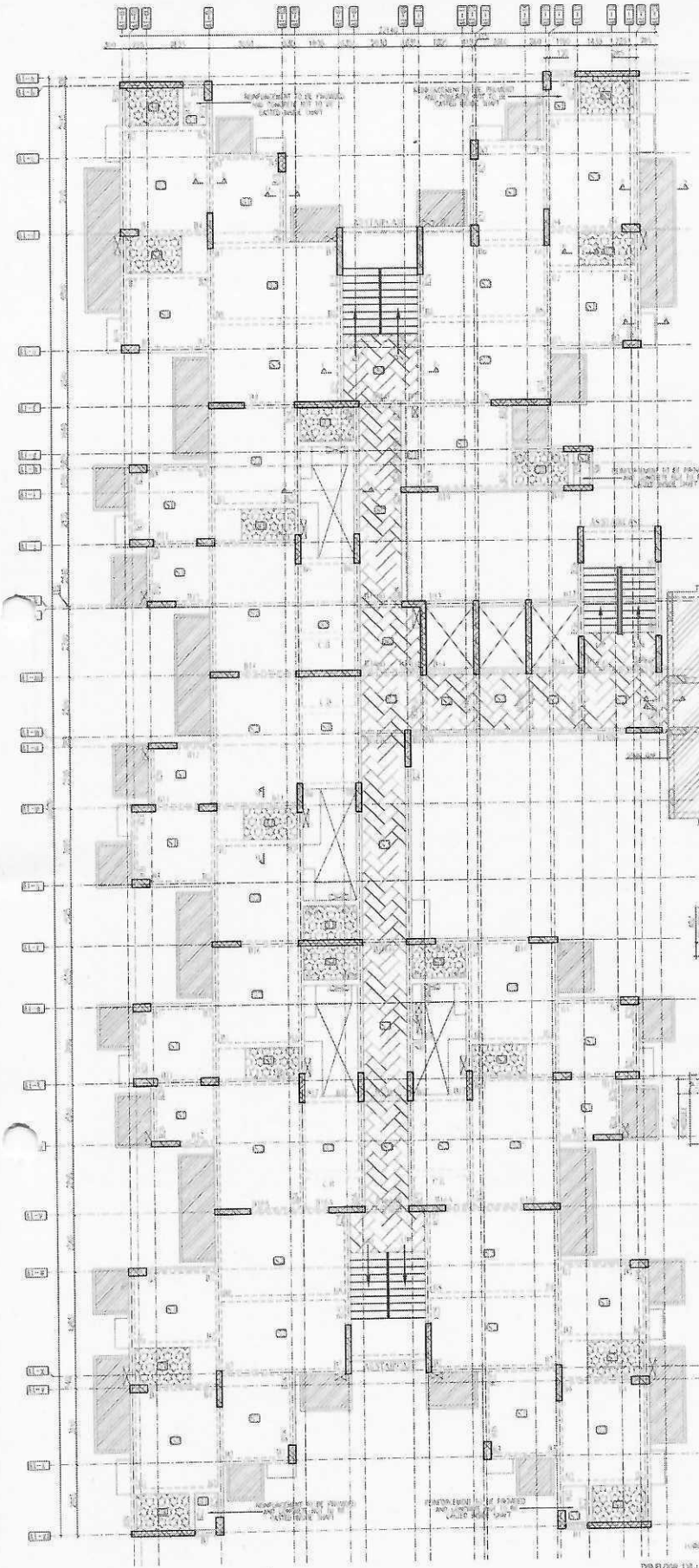
BUILDERS & PROMOTER :-

TITLE :- COLUMN SCHEDULE 1ST FLOOR ROOF TO 3RD FLOOR ROOF LVL TOWER-A1,A2,PART-01

ARCHITECTS :-
DEEPAK MUTTA & ASSOCIATES
ARCHITECTS, PLANNERS, VALUERS, LANDSCAPE & INTERIORS
1st & 2nd FLOOR, PLOT NO. 16, ABHISHEK PLAZA, I.S.C.
MAYUR VIHAR PH - II, DELHI - 110091, INDIA

SCALE	A2
DATE	10.05.2019
DRAWN BY	KRISHNA
DESIGNED BY	ANAND
APPROVED BY	V.D. SHUKLA

CONSULTANTS :-
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.



DRG NO. S-SAV PARK T-A1,A2 /ARC/101

GENERAL NOTES

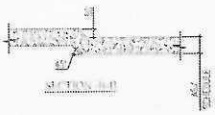
1. FOR GENERAL NOTES REFER DRG NO S/SR/E/100
2. ALL DIMENSIONS ARE IN mm.
3. ALL BEAMS SHALL BE (230x450) U.O.S
4. CON. MIX. – M/25
5. REINF. GRADE – Fe 500
6. THIS DWG. SHALL BE READ WITH ALL RELEVANT ARCH. DRAWING
7. ALL LEVELS AS PER ARCH.
8. FOR CUT-OUT SIZE REFER ARCH. DWG.

KEY PLAN





SECTION-X-X

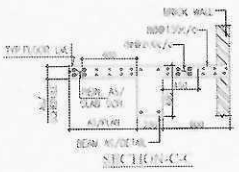




LEGENDS-

	BALCONY SUNK 40 MM
	TOILET SUNK 50 MM
	CORRIDOR SUNK 25 MM

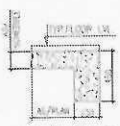




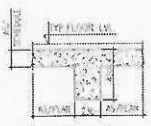
SECTION-C-C

LEGEND:-

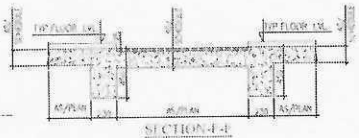
(A)	(230X425)
(B)	(230X750)
(C)	(300X125)



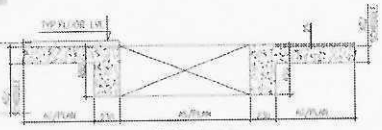
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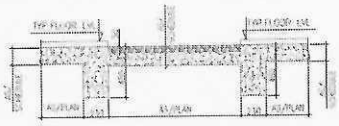
SECTION-E-E



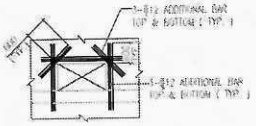
SECTION-F-F



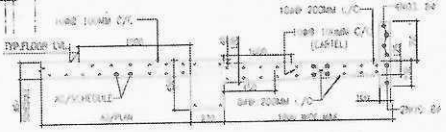
SECTION-G-G



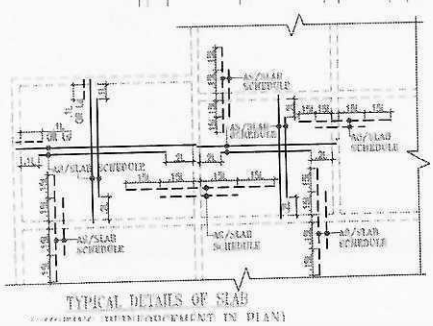
SECTION-H-H



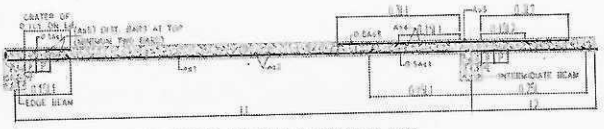
TYP. DETAIL OF OPENINGS UNLESS NOT SHOWN OTHERWISE



TYPICAL SEC. BALCONY 1500 WIDE MAX. SECTION A-A



TYPICAL DETAILS OF SLAB



TYPICAL CURTAILMENT DETAIL OF REINFORCEMENT IN SLAB

04	R0	03/12/2018		OFC
COPY REV		DATE	REVISION/ISSUED TO	

PROJECT :-

SOVEREIGN PARK

PROJECT TITLE :-

PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.1125/1,1126/1,1130,1144/1,1145/1,1146/1,1147/1,1127/1,1128/1,1129,1131/1,1132/1,1130,1147,1148,1149,1150,1146/1,2/1 KARHERA &(1/2,13,13/1/2) IN SAHIBABAD (SAHIBABAD PARK) MOHAN NAGAR GHAZIABAD (U.P.)

BUILDERS & PROMOTER :-

TITLE :-

FRAMING PLAN AT TYPICAL FLOOR LVL TOWER-A1,A2 (PART-01)

ARCHITECTS :-

DEEPAK MEHTA & ASSOCIATES

SCALE	A2
DATE	03/12/2018
DRAWN BY	KRISHNA
DESIGNED BY	ANAND
CHECKED BY	RAVI KANT
APPROVED BY	V.D. SHARMA

CONSULTANTS :-

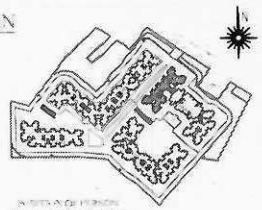
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.
B-24, SECTOR-67, NOIDA-201301
Phone : 0120-6458968, 07042333507
0120-2848230,31,32,33,34&35
Email - info@optimumdesign.in
Website -www.optimumdesign.in

DOC NO. S-SEV-PARK-T-A1&A2_R02.16(V)

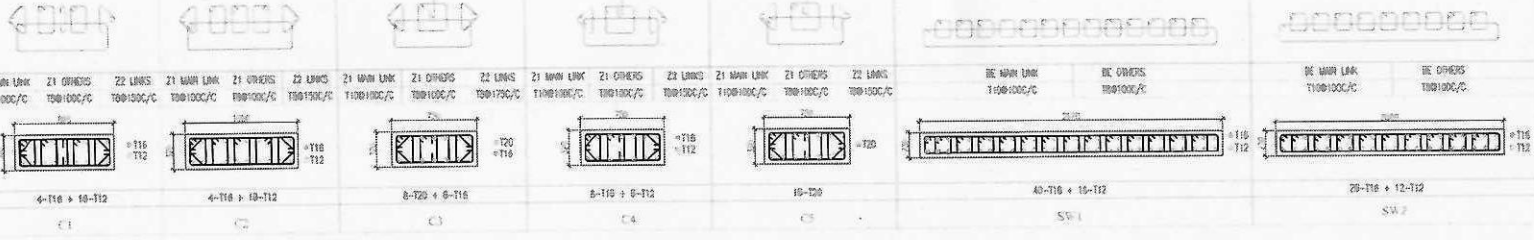
GENERAL NOTES

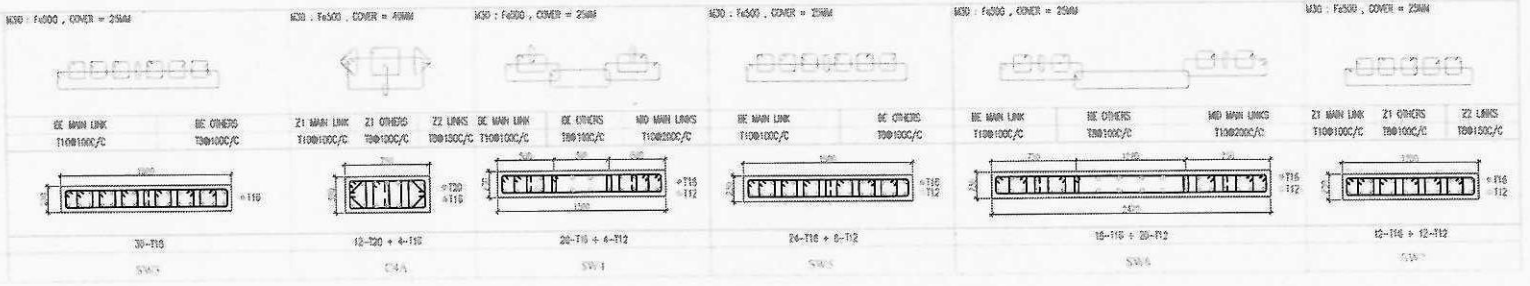
1. FOR GENERAL NOTES, NOTES DOC NO. S/SEV/C/100
2. ALL DIMENSIONS ARE IN mm.
4. CON. MIX – M30
5. REINF. GRADE – Fe 500

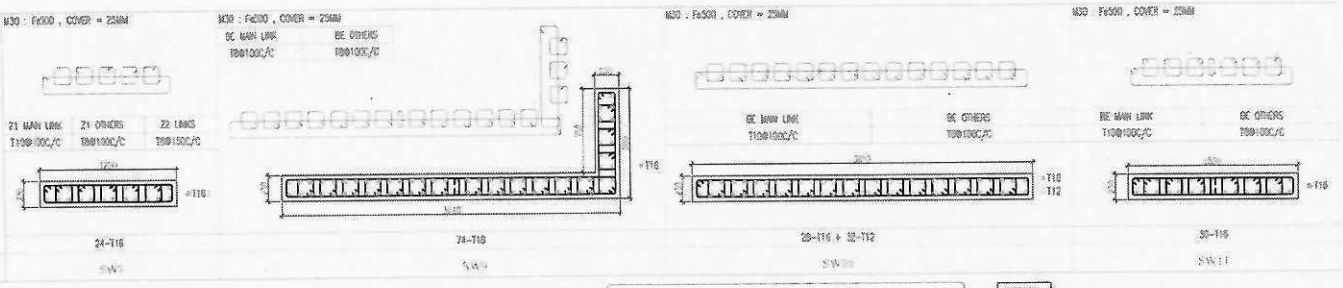
KEY PLAN

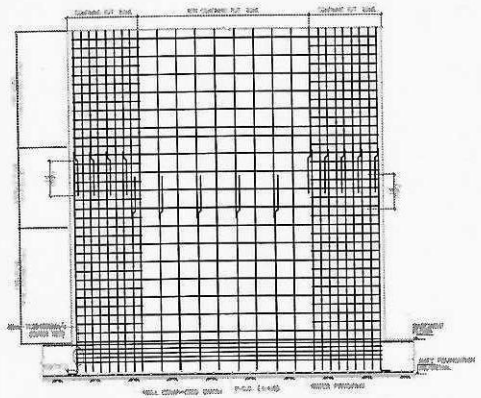


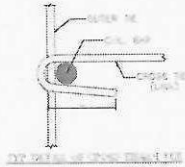
BUILDING HAS BEEN DESIGN
2 BASEMENT +GROUND+14TH STOREY



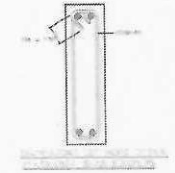


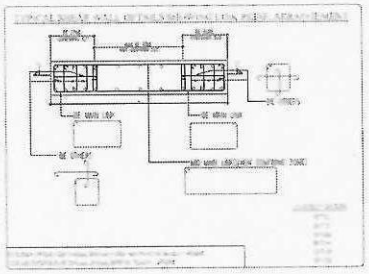






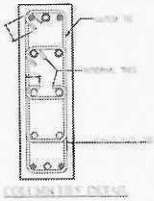
DETAIL OF HOOKS



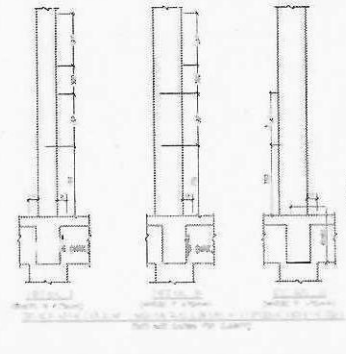


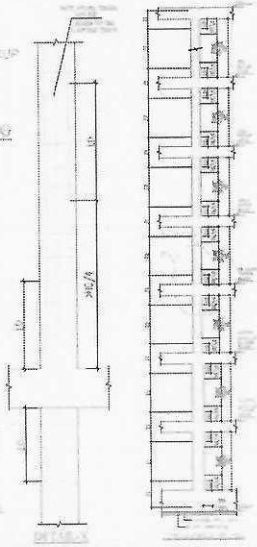
NOTE ON CURTAILMENT DETAILS OF COLUMNS

1. Hr IS CLEAR COLUMN HEIGHT
2. Lo IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) Hr/6
   c) 450mm
3. FOR DEVELOPMENT LENGTH 'Ld' REFER GENERAL NOTES REFER DRAWING NO. S/SEV/C/100 AND Fe-500.
4. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION.
5. 'SD' – TIES AS PER COLUMN SCHEDULE
   S1 – 8 ϕ @ 100 C/C (INNER TIES)
   S2 8 ϕ@100 C/C (OUTER TIES)



TYPICAL DETAIL OF STIRRUP TIES BENDING

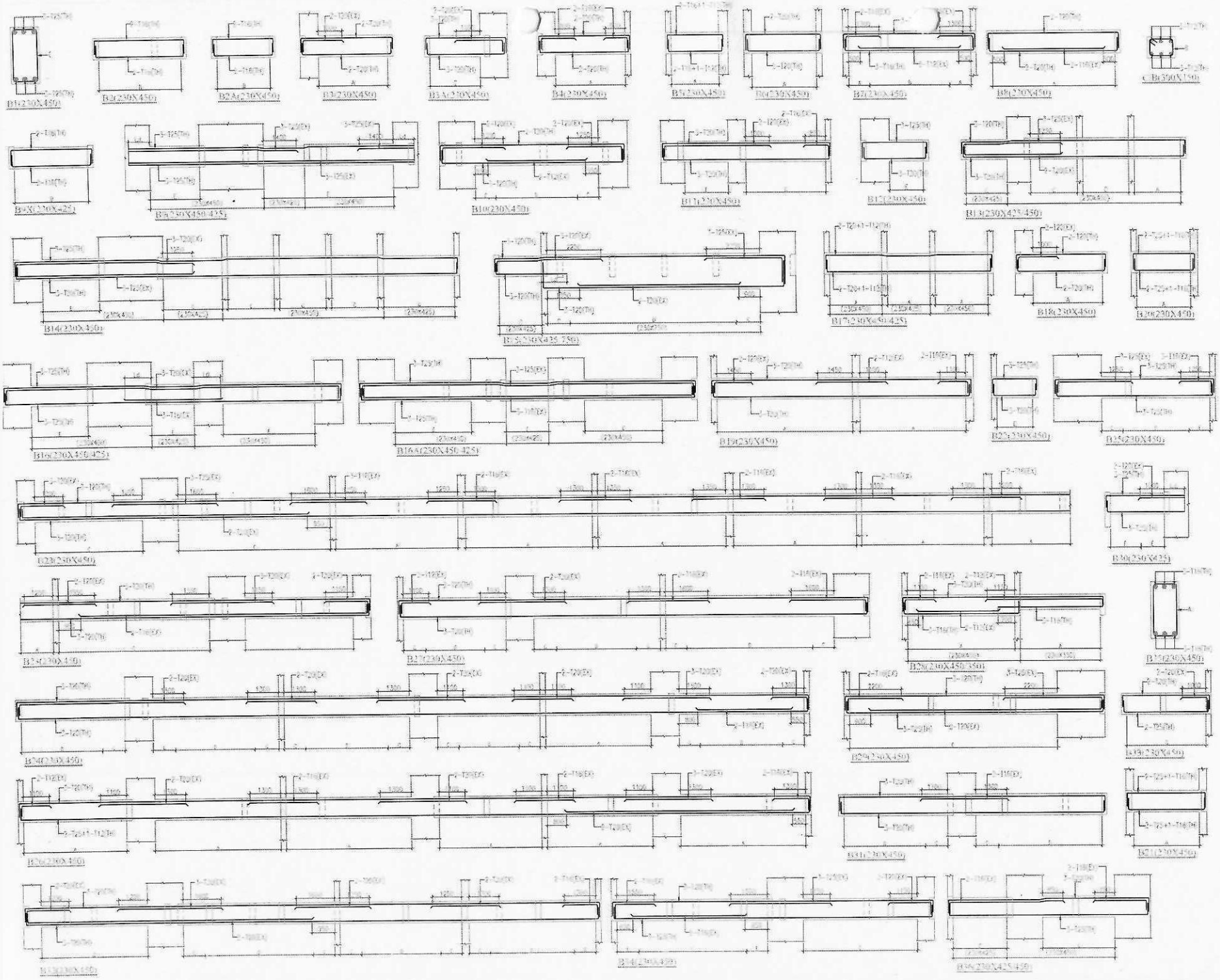




CON. NO. DATE REVISION/ISSUED TO

PROJECT :- SEVENTH PARK

PROJECT TITLE :-
PROPOSED GROUP HOUSING AT PLOT AT KHASRA NO. (2/1,1/2/1,1/3,1/4/2,1/4/1,3/4/1,1/5/2,1/1/2, 1/2/1,1/3/1,1/4/2,1/4/1,3/4/1,1/5/2,1/1/2, 1/2/2,1/3/2,1/4/1,1/4/2,1/5/1,1/5/2,1/1/1,1/2/2,



DRG NO. SSAV-PAPER-LA-A2-1-OF-1-00

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO. C/SSAV/E/100
2. ALL DIMENSIONS ARE IN mm.
3. CON. MIX - M25
4. REBAR GRADE - Fe 500
5. THIS DRG. SHALL BE READ WITH ALL RELEVANT ARCH. DRAWING.

KEY PLAN



STIRRUPS SCHEDULE

A	2L-8A-100@/C
B	2L-8B-175C/C
C	2L-8C-150@/C
D	2L-8D-175@/C
E	2L-8E-100@/C
F	2L-8F-175C/C

REVISIONS/ISSUE TO

SNO	REV.	DATE	REVISIONS/ISSUE TO

PROJECT :-

PROJECT TITLE :-

PROPOSED GROUP HOUSING AT PLOT AT KANARA

BUILDERS & PROMOTERS :-

TITLE :-

BEAM DETAIL AT TYPICAL FLOOR LVL

TOWER A1,A2 (PART-01)

ARCHITECTS :-

DEEPAK MEHTA RASSOCIATES

SCALE	AS
DATE	03/10/2018
DRAWN BY	PRERNA
DESIGNED BY	ANAND
CHECKED BY	RAVI KANT
APPROVED BY	V.D. SHARMA

CONSULTANTS

OPTIMUM DESIGN PVT. LTD.

CONSULTING ENGINEERS

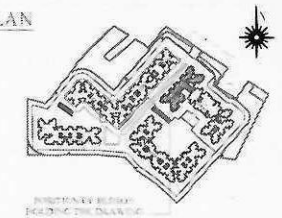
An ISO 9001:2008 Certified Co.

DRG NO. S-SAV-PARK-STRUCT-DRG-1030

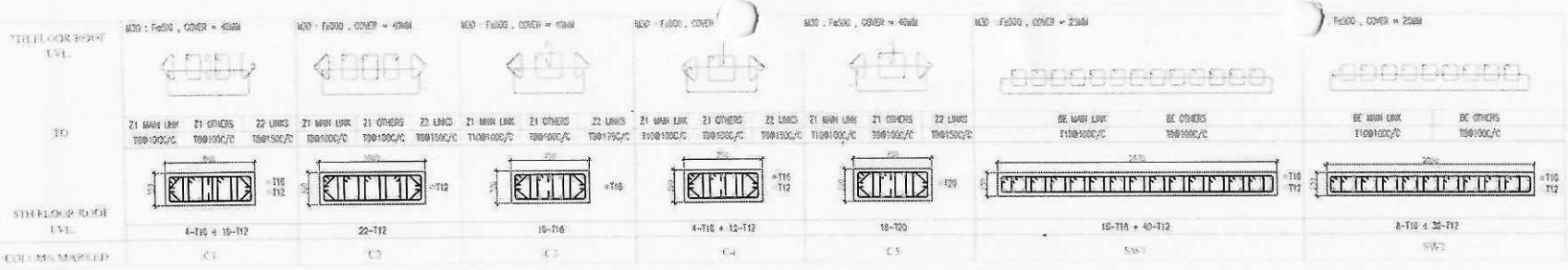
GENERAL NOTES

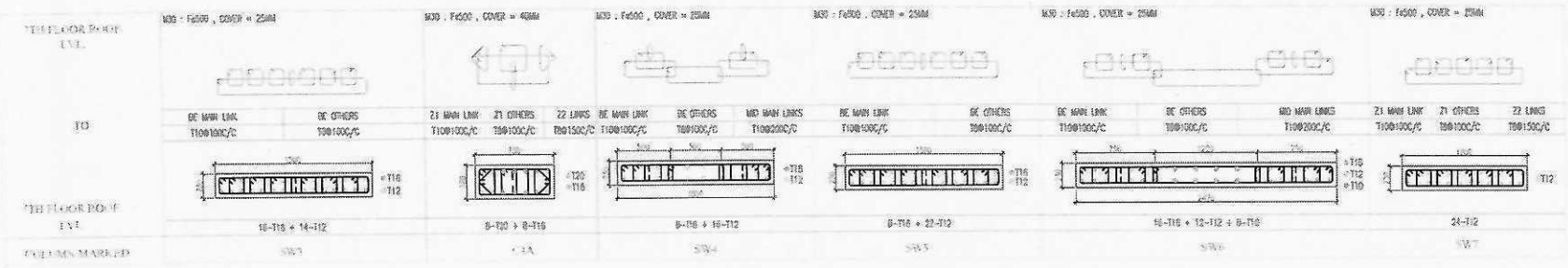
1. FOR GENERAL NOTES REFER DRG. NO. S-SAV/E/100
2. ALL DIMENSIONS ARE IN mm.
3. CON. MIX - M30
4. REINF. GRADE - Fe 500

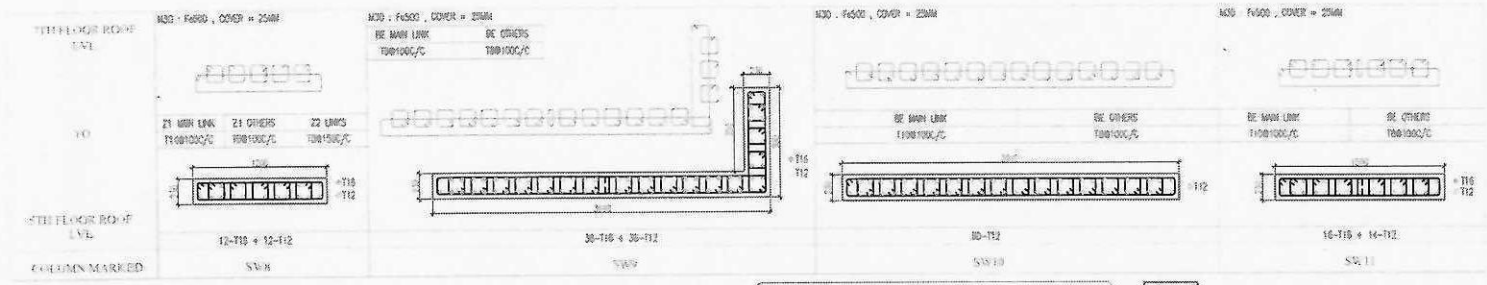
KEY PLAN

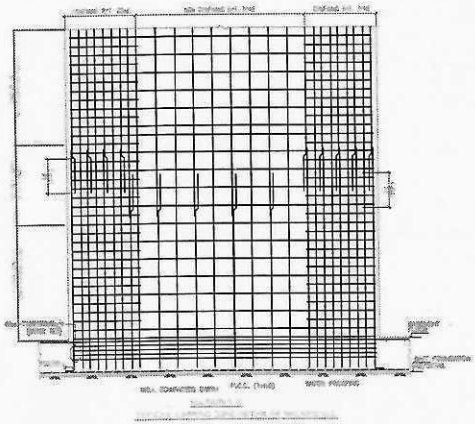


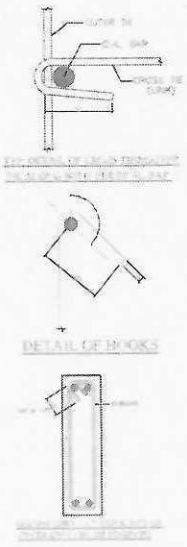
BUILDING HAS BEEN DESIGN
2 BASEMENT + GROUND + 14TH STOREY

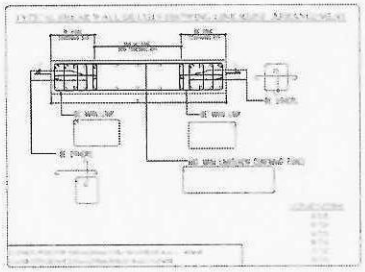






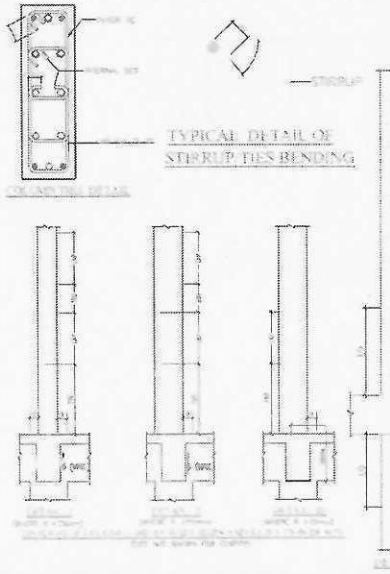


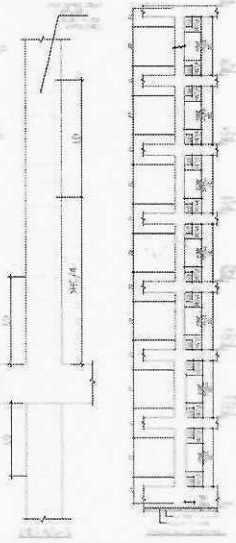




NOTE ON CURTAILMENT DETAILS OF COLUMNS

1. ... IS CLEAR COLUMN HEIGHT
2. ... IS GREATER OF
   a) MIN. LATERAL DIMENSION OF COLUMN
   b) ...
   c) 450mm
3. FOR DEVELOPMENT LENGTH ... REFER GENERAL NOTES, REFER DRAWING NO. S-SAV/E/100 AND Fe 500
4. MAXIMUM ... SHALL BE SPLICED AT ONE SECTION
5. ... REFER AS PER COLUMN SCHEDULE
   ... @ ... C/C (INNER TIES)
   ... @ ... C/C (OUTER TIES)





PROJECT :-

PROJECT TITLE :-
PROPOSED GROUP HOUSING AT PLOT AT GHUMMA

BUILDERS & PROMOTER :-

TITLE :- COLUMN SCHEDULE 5TH FLOOR ROOF TO 13TH FLOOR ROOF LVL. TOWER-A, A1, A2 (PART-01)

ARCHITECTS :-
DEEPAK MEHTA & ASSOCIATES
ARCHITECTS PLANNERS VALUERS LANDSCAPE & INTERIORS
IInd& 2nd FLOOR, PLOT NO. 1B, ABHISHEK PLAZA, L.S.C.
MAYUR VIHAR PH - I, DELHI - 110091, INDIA

SCALE	A2
DATE	[illegible]
DRAWN BY	KRISHNA
DESIGNED BY	ANAND
APPROVED BY	V.K.SHARMA

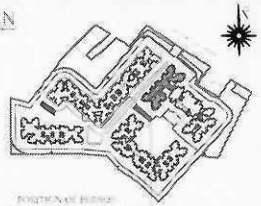
CONSULTANTS :-
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.

PRO NO. S:\SAV PAR\2 T-A\1&A2_PART.DGN

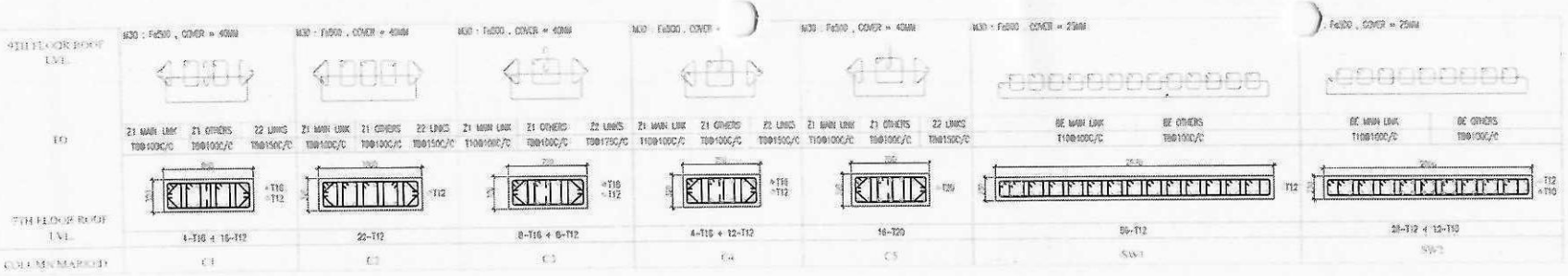
GENERAL NOTES

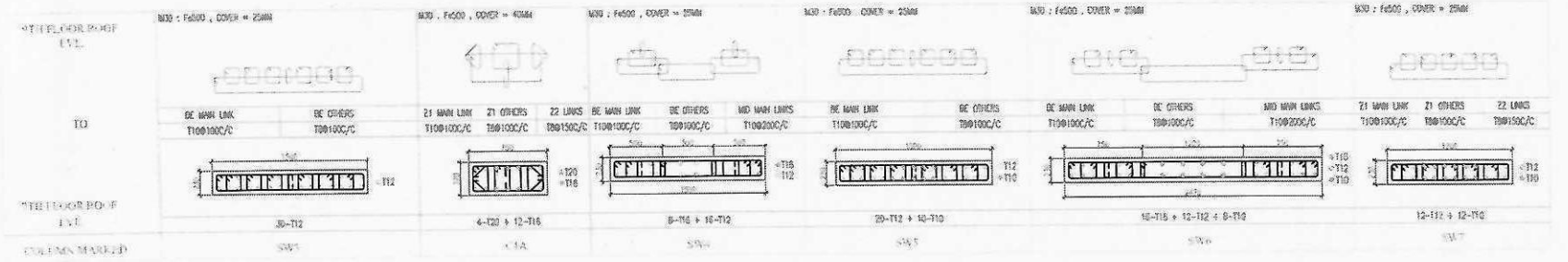
1. FOR GENERAL NOTES REFER DRG NO S/SW/E/101
2. ALL DIMENSIONS ARE IN mm.
4. CON. MIX - M30
5. REINF. GRADE - Fe 500

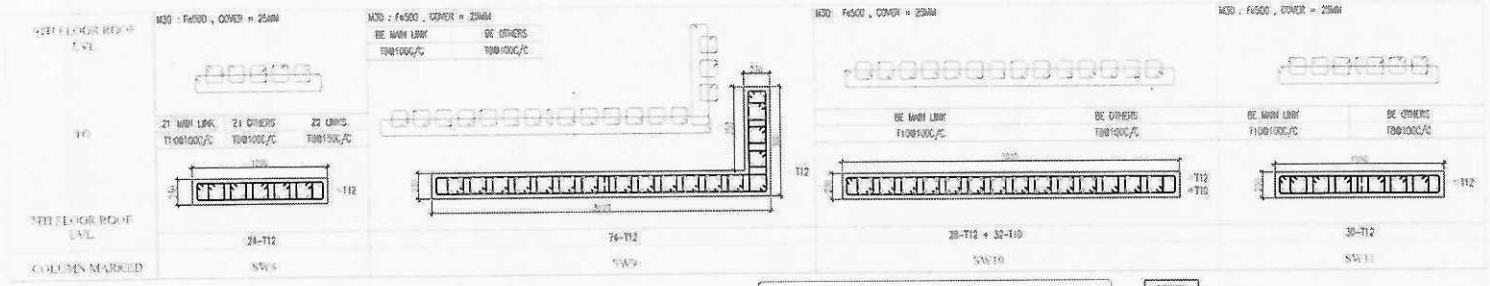
KEY PLAN

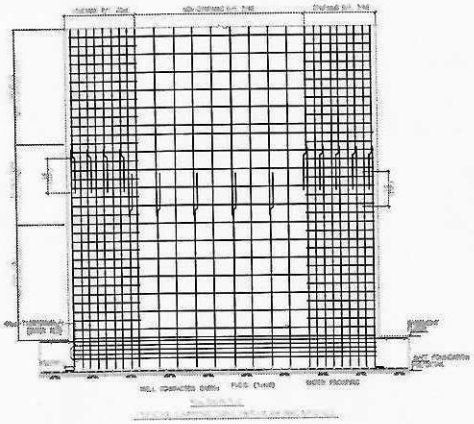


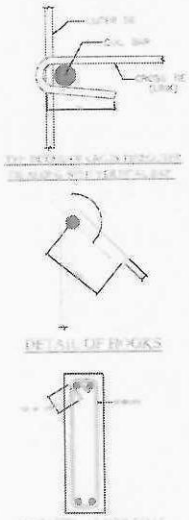
BUILDING HAS BEEN DESIGN
2 BASEMENT +GROUND+14TH STOREY

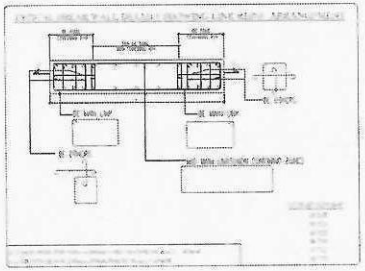






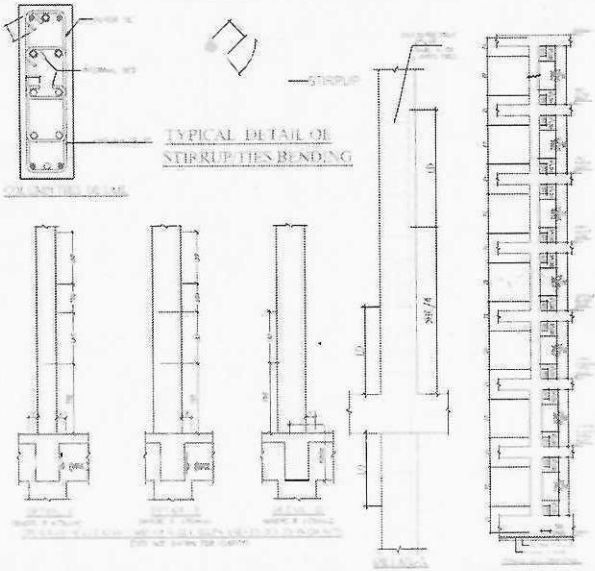






NOTE ON CURTAILMENT DETAILS OF COLUMNS

1. Hc IS CLEAR COLUMN HEIGHT
2. Lo IS GREATER OF
   a) ANY LATERAL DIMENSION OF COLUMN
   b) Hc/6
   c) 450mm
3. FOR DEVELOPMENT LENGTH 'Ld' REFER GENERAL NOTES, REFER DRAWING NO S/SW/E/100 AND Fe-500.
4. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION
5. Lo - TIES AS PER COLUMN SCHEDULE
   S1 - 8 ϕ @100 C/C INNER TIES
   S2 - 8 ϕ @100 C/C OUTER TIES



PROJECT :-

PROJECT TITLE :-
PROPOSED GROUP HOUSING AT PLOT 'A' KIRKARA
[illegible]
KARKARA (KIRKARA VILLAGE) IN
SAKINAKA (SAKIVIHAR MARG, MOHAN
NAGAR GHAZIABAD (U.P.)

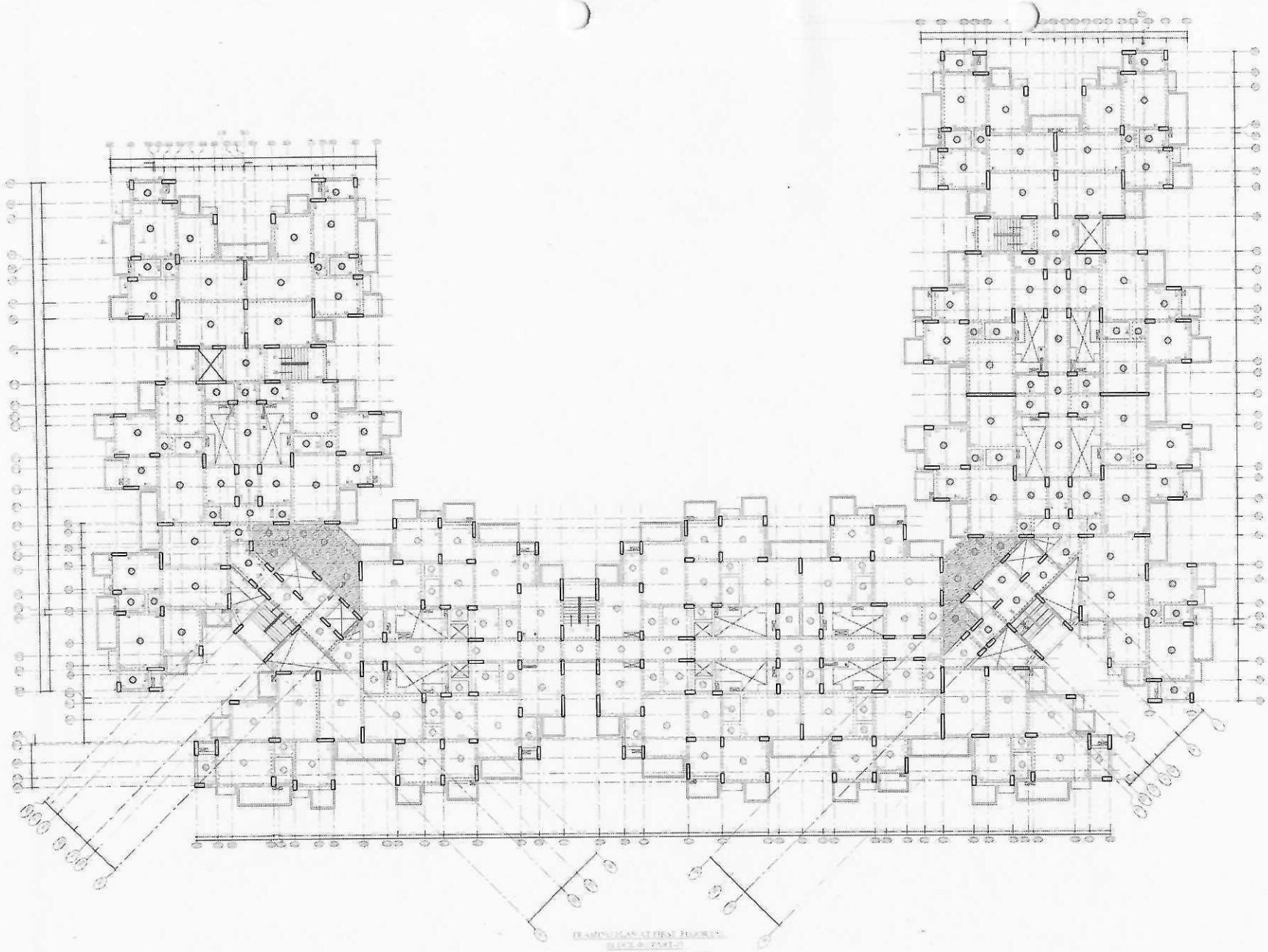
BUILDERS & PROMOTERS :-

TITLE :- COLUMN SCHEDULE 7TH FLOOR ROOF TO 9TH FLOOR ROOF LVL TOWER A1&A2 (PART-01)

ARCHITECTS :-
DEEPAK MEHTA & ASSOCIATES
ARCHITECTS PLANNERS VALUERS LANDSCAPE & INTERIORS
[illegible] PLOT NO. 16, ANTRIKSH KHAZA 1, SEC
MAYUR VIHAR PH - II, DELHI - 110091, INDIA

SCALE	NS
DATE	[illegible]
DRAWN BY	KRISHNA
DESIGNED BY	ANAND
APPROVED BY	V.B. SHARMA

CONSULTANTS :-
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.
[illegible]

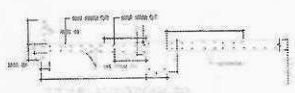


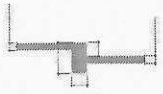
1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GIVE DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115TH, BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE EXP. BAR

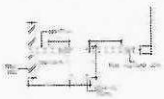
2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS(
SLAB----------20MM
R.C.C.WALL----------35MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-25 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YIELD STRENGTH DEFORMED BARS (Fy=415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-25 CONCRETE SHALL BE 47D (D IS DIA OF THE BAR)
2.8 REINFORCEMENTS BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8MM@300C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED SAH REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLABS, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE, LAYER SPACER (CUBES OF ADEQUATE SIZE OF BARS AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.

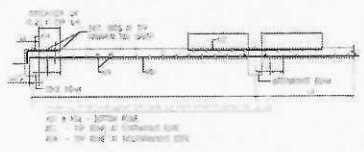


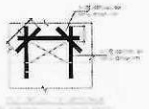
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2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTERING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING EDGE ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.



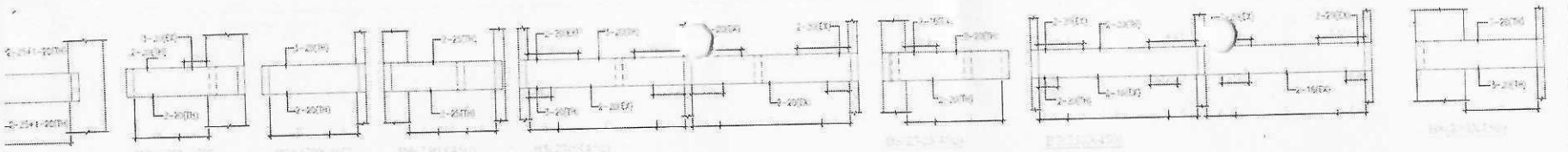


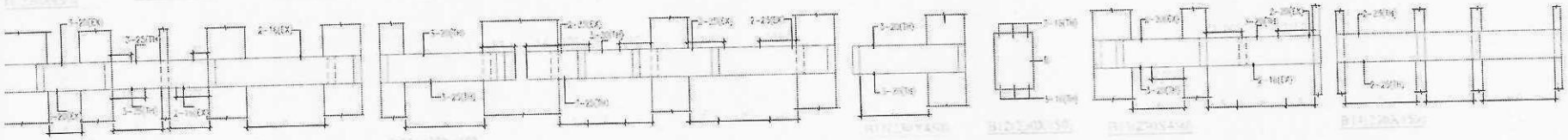


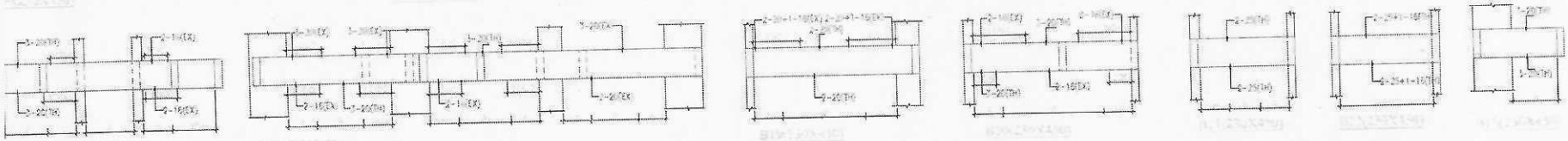


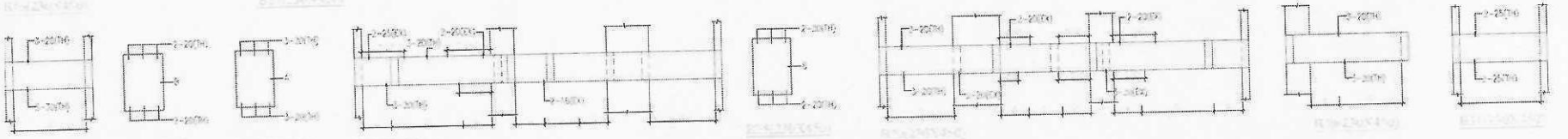


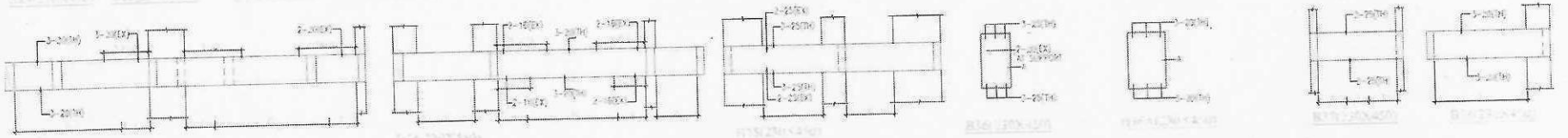
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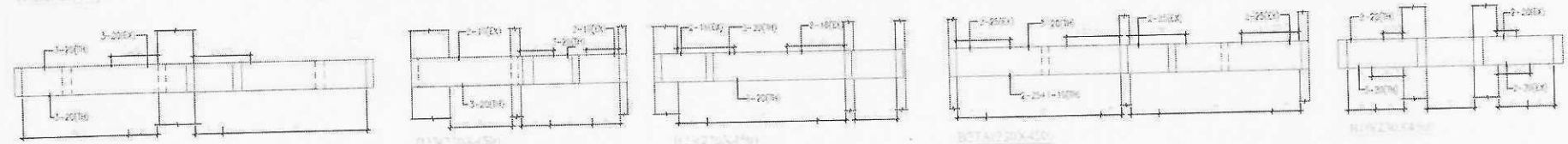


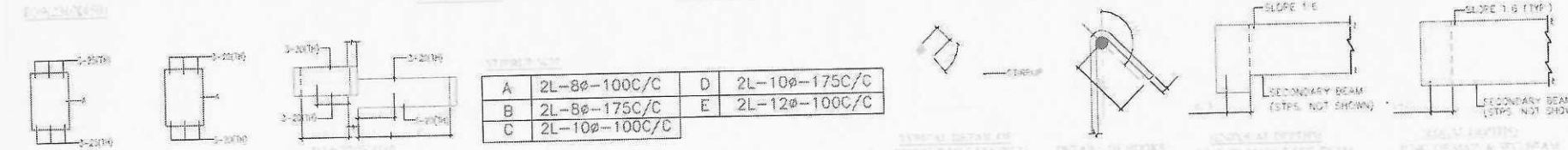




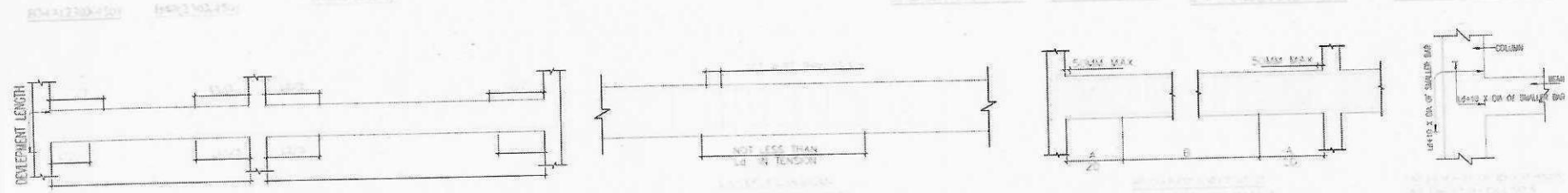








A	2L–8ø–100C/C	D	2L–10ø–175C/C
B	2L–8ø–175C/C	E	2L–12ø–100C/C
C	2L–10ø–100C/C		



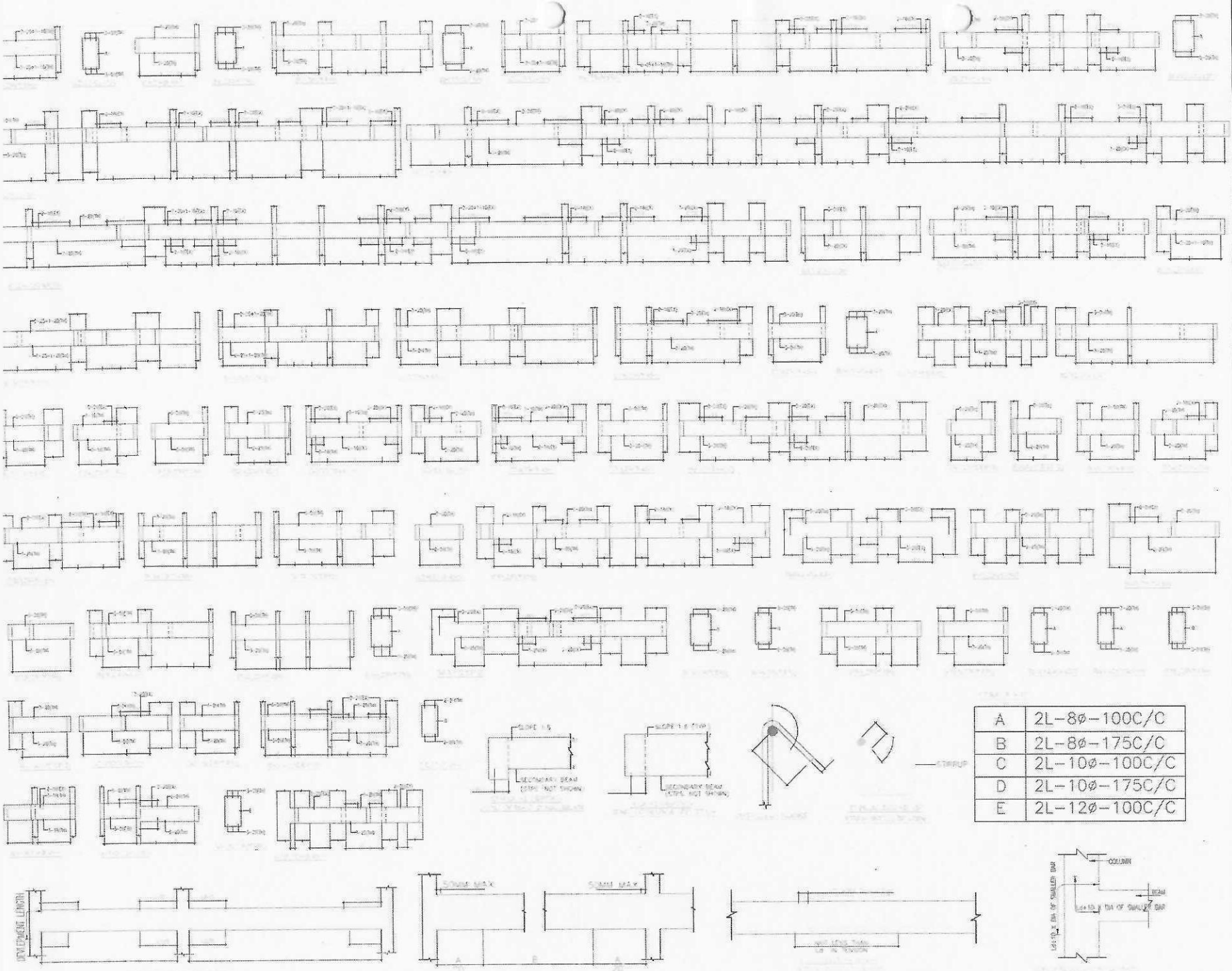
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1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY IN BRICK WORK SHALL BE IN CEMENT MORTER 1:6(1 CEMENT, 6 GRADE SAND)
1.9 HALF BRICK WORK 115THK BLOCK MASONRY 125/150 SHALL BE IN CEMENT MORTER 1:4(CEMENT, 4 GRADE SAND) AND DPC BAR 6MM OF SAIL IN PLACE IN EVERY 4TH COURSE.

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB ---------- 20MM
R.C.C.WALL ---------- 25MM
BEAMS ---------- 25MM
COLUMNS ---------- 40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-25 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YIELD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS PER IS1786.
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH IS456:2000.
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS.
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-25 CONCRETE SHALL BE 41D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND LAYER.
2.9 PROVIDE 8MM@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROPER ACCURATE LATER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE TIED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



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2.13 THE SIZE AND POSITION OF WIRE-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS.PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE CONCRETING.
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE REMOVED TILL MAXIMUM COUNTER WEIGHT OVER THE OVERHANG BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

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1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT & 6 COARSE SAND)
1.9 HALF BRICK WORK 115(4) BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE GW 6MM

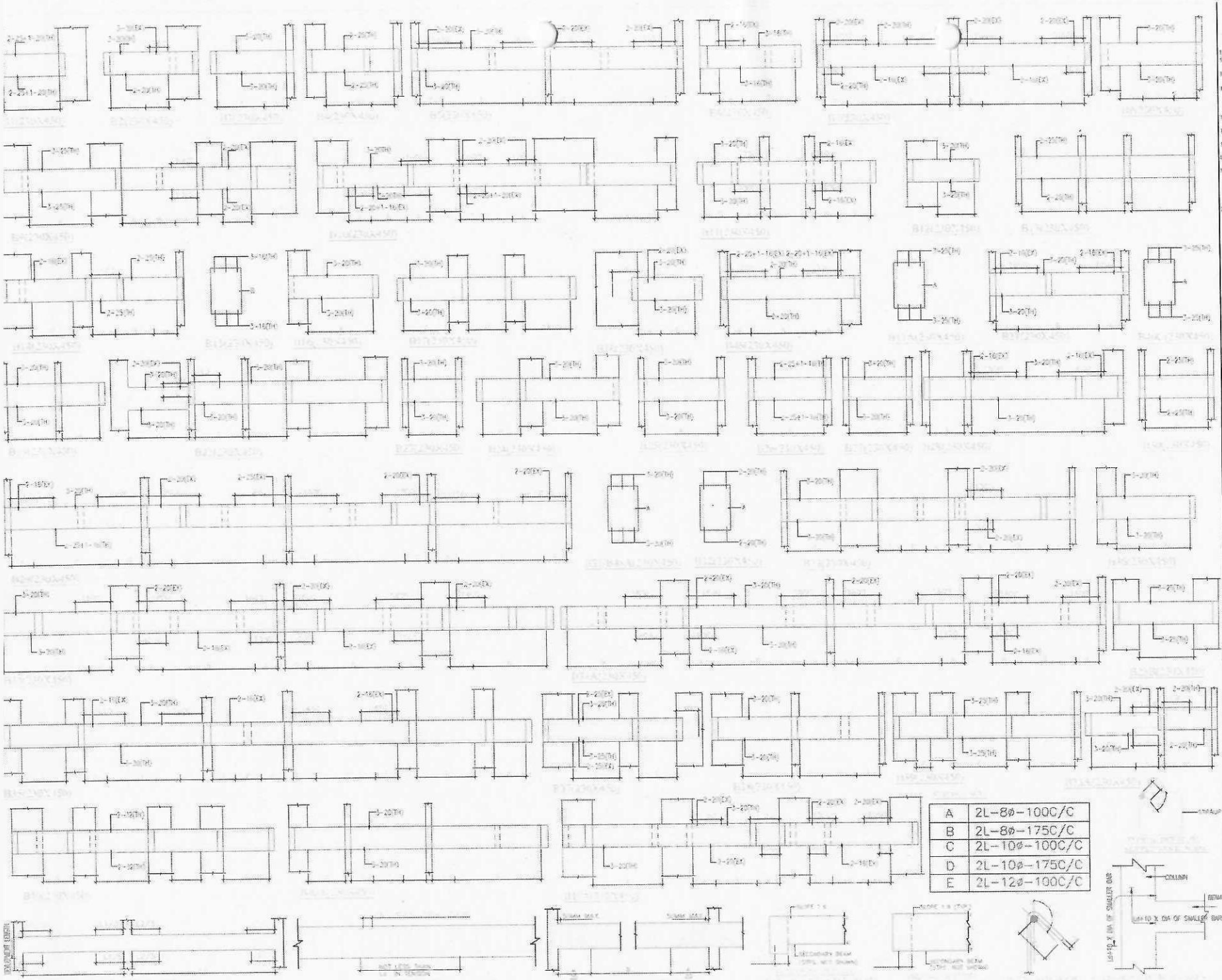
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2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
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2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8MM@300C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE, LAYER SPACER (CHAIRS) OF ADEQUATE SIZE OF BARS AT LEAST 1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
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2.13 THE SIZE AND POSITION OF WAS-HOLE , SLAB STEEL, LADDAR, SALEY/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS.PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CHAJJA, OVERHANGS ETC MUST BE REMOVED TILL MINIMUM COUNTER WEIGHT OVER THE BEARING GIVEN ATTACHED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

A	2L-8ø-100C/C
B	2L-8ø-175C/C
C	2L-10ø-100C/C
D	2L-10ø-175C/C
E	2L-12ø-100C/C

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2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
- SLAB ---------- 20MM
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- BEAMS ---------- 25MM
- COLUMNS ---------- 40MM

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2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND LAYER.
2.9 PROVIDE TEMP.BARS/C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER CHAIRS OF APPROVED SIZE OF DIA. AS LOAD
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2.11 MINIMUM DIAMETER OF STIRRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 12MM & TYPICAL STIRRS COULD BE AS BELOW



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINUOUSLY UP TO THE CONSTRUCTION JOINT
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB SINKS, SUMPS, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS.PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE CASTING.
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE OVERHANG HAVE BEEN ATTAINED
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C	2L-10ø-100C/C
D	2L-10ø-175C/C
E	2L-12ø-100C/C

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DRG NO | S-SO-2A

COLUMN SCHEDULE GROUND FLOOR LVL TO 2ND FLOOR LVL
CONC MIX SHALL BE M-30 FOR COLUMNS (Fe-500)

C MIX -	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
TIES										
MAIN BARS										
SIZE										
TIES										
SHAPE										
COL/SW NO.	C1	C2	C2A	C3	C4	C5	C5A	C6	C6A	C7

COLUMN SCHEDULE GROUND FLOOR LVL TO 2ND FLOOR LVL
CONC MIX SHALL BE M-30 FOR COLUMNS (Fe-500)

C MIX -	M-30	M-30	M-30	M-30	M-30	M-30
TIES						
MAIN BARS						
SIZE						
TIES						
SHAPE						
COL/SW NO	C7A	C8	C9	C10	SW1	SW2

COLUMN SCHEDULE GROUND FLOOR LVL TO 2ND FLOOR LVL
CONC MIX SHALL BE M-30 FOR COLUMNS (Fe-500)

C MIX -	M-30	M-30	M-30
TIES			
MAIN BARS			
SIZE			
TIES			
SHAPE			
COL/SW NO	SW3	SW4	SW5

COLUMN SCHEDULE GROUND FLOOR LVL TO 2ND FLOOR LVL
CONC MIX SHALL BE M-30 FOR COLUMNS (Fe-500)

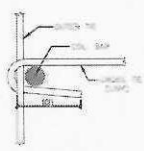
C MIX -	M-30	M-30	M-30
TIES			
MAIN BARS			
SIZE			
TIES			
SHAPE			
COL/SW NO	C7A	SW6A	SW6

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO S/SN/E/1.0
2. ALL DIMENSIONS ARE IN mm.
3. REINF GRADE= Fe 500
4. THIS DWG SHALL BE READ WITH ALL RELEVANT ARCH. DRAWING.
5. ALL LEVELS AS PER ARCH.

NOTE (): CUT OFF LENGTH DETAILS OF COLUMN

1. H1 IS CLEAR COLUMN HEIGHT
2. LO IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) H1/6
   c) 450mm
3. FOR DEVELOPMENT LENGTH "Ld" REFER GENERAL NOTES REFER DRAWING NO S/SN/E/1.0 AND Fe-415
4. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION
5. S1 = TIES AS PER COLUMN SCHEDULE
   T1 = 8ϕ @100 c/c (INNER TIES)
   T2 = 8 @ 150 c/c (OUTER TIES)



TYPICAL COLUMN LONGITUDINAL SECTION

BUILDING HAS BEEN DESIGNED FOR
2BASEMENT+GROUND+14TH STORIES

NO.	DESCRIPTION	DATE	REV.
04	G.F.C.	28.04.2016	R0

REVISION

PROJECT :-

PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.1125,1126,1127,1144,1145,1146/2,1147,1148/2,1149,1150,1151,1152/2,1153,1154,1155,1156,1157,1158/2,1159,1160,1161,1162,1163,1164,1165,1166,1167,1168 & 1169
KAUSHIKA &1123,1124,1125,1126
SAHIBABAD TAHSIL & DISTRICT GHAZIABAD
NAGAR GHAZIABAD (U.P.)

TITLE :-

COLUMN SCHEDULE GROUND FLOOR TO 2ND FLOOR LVL (BLOCK-02,PART-01)

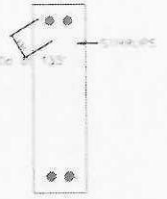
ARCHITECT :-

DEEPAK MEHRA AND ASSOCIATES

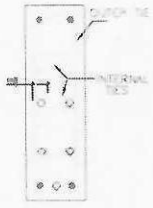
SCALE	AS C 100%
DATE	28.04.2016
DRAWN BY	DARSAN SINGH
DESIGNED BY	MANI
CHECKED BY	MANI

CONSULTANTS :-

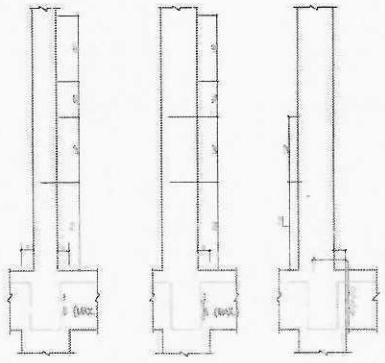
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MANDATORY 135° HOOK DETAIL IN COLUMN BEAM STIRRUPS

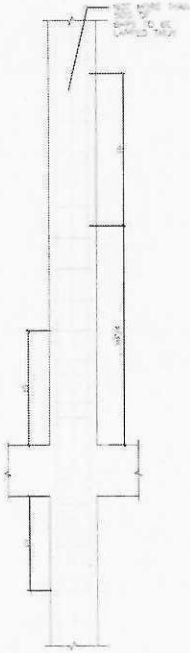


COLUMN TIES DETAIL

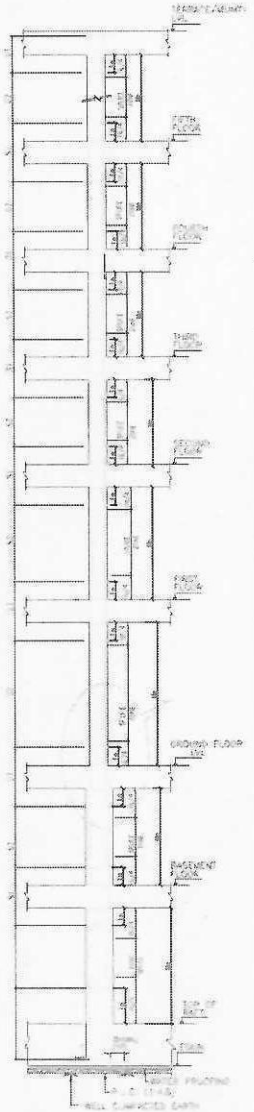


DETAIL-I DETAIL-II DETAIL-III

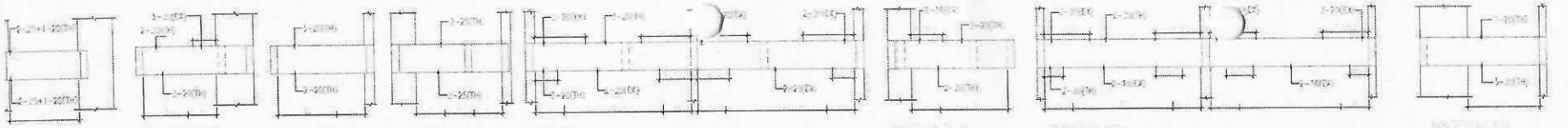
SPLICING OF COLUMN, SHEAR WALL BARS AND REDUCTION OF SIZE

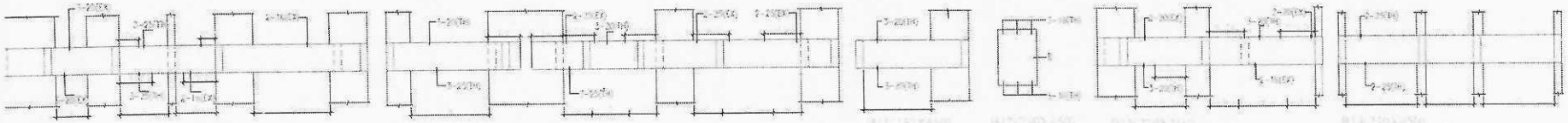


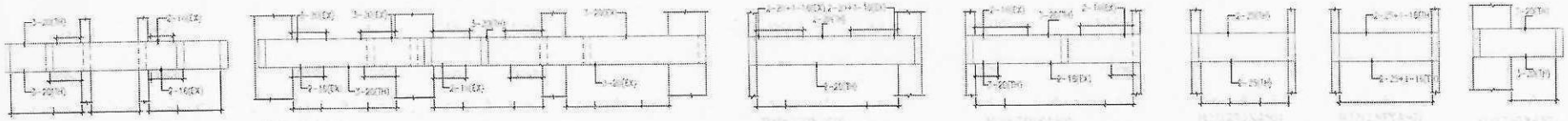
DETAIL-X

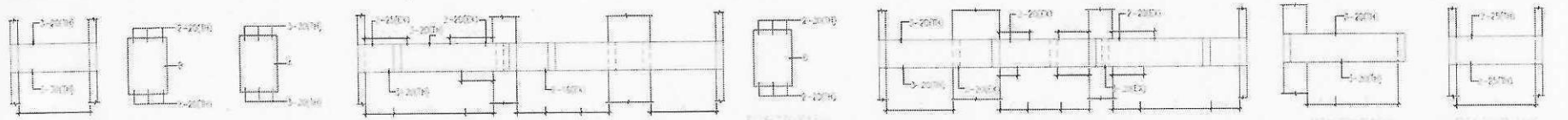


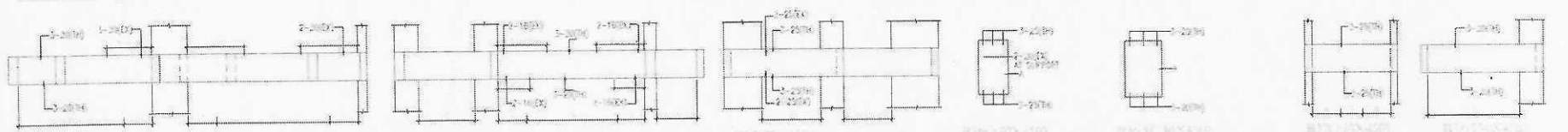
TYPICAL COLUMN ELEVATION

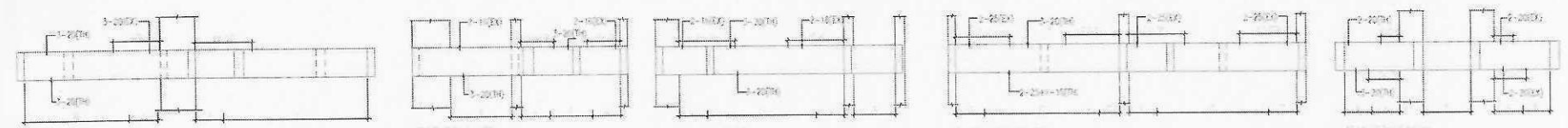


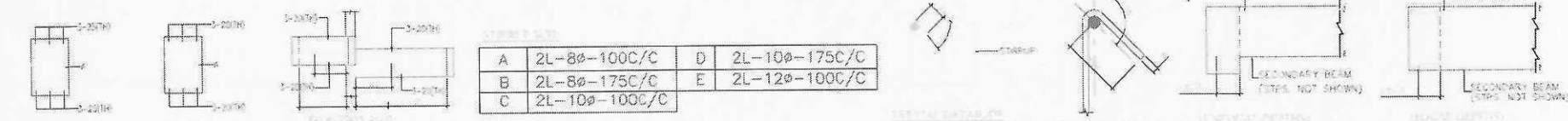




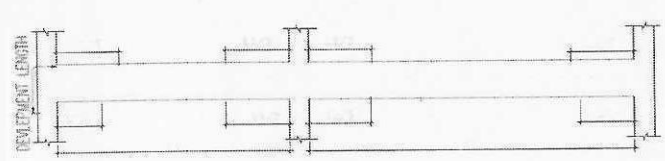


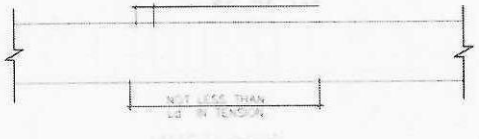


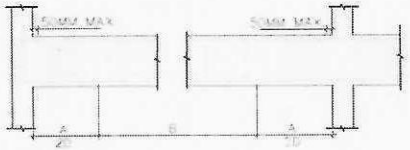


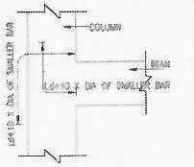


A	2L-8ø-100C/C	D	2L-10ø-175C/C
B	2L-8ø-175C/C	E	2L-12ø-100C/C
C	2L-10ø-100C/C		









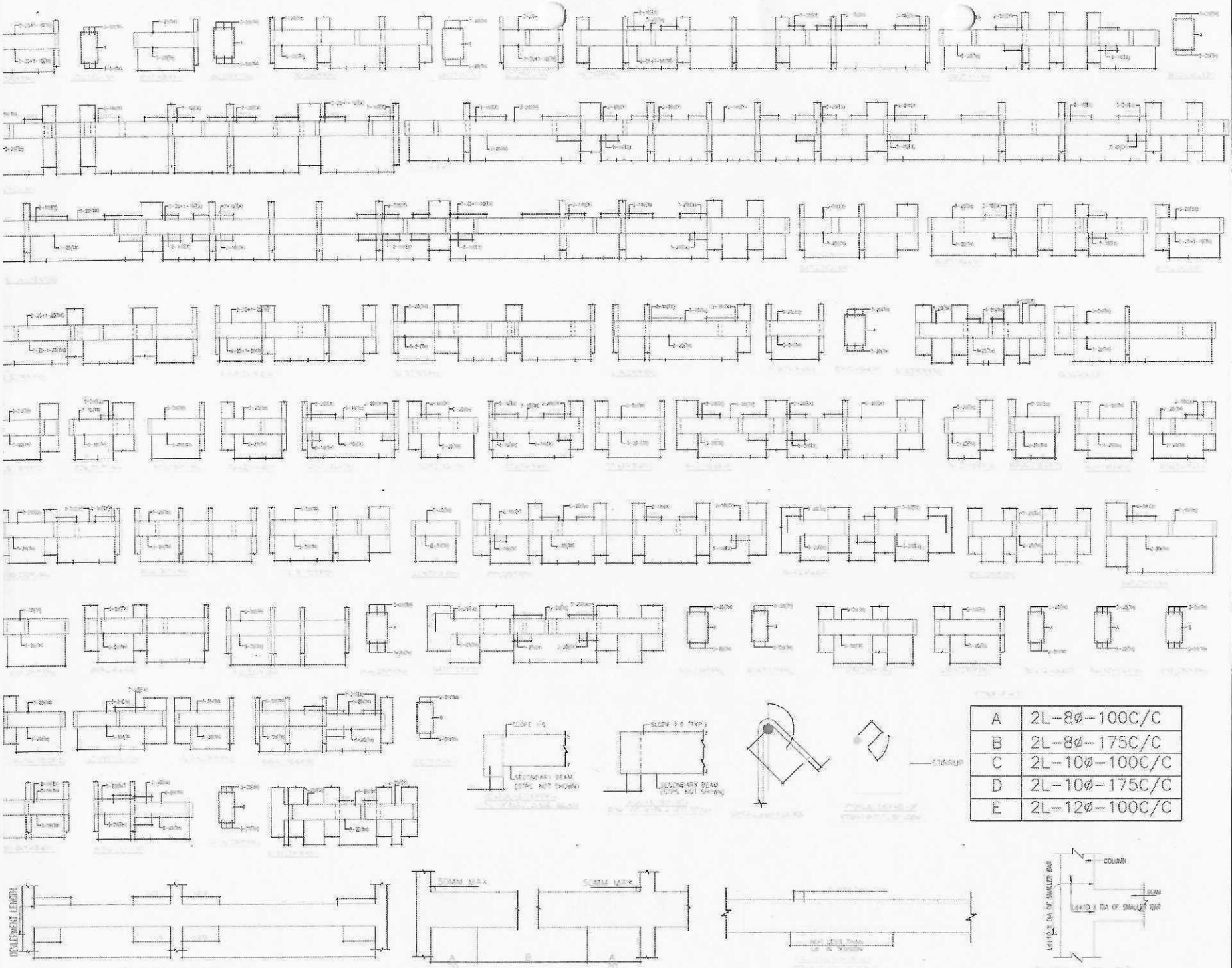
1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND).
1.9 HALF BRICK WORK, 115THK BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM DIA SHALL BE PLACED IN EVERY 4TH COURSE IN MORTAR.

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB ---------- 20MM
R.C.C. WALL ---------- 25MM
BEAMS ---------- 25MM
COLUMNS ---------- 40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-25 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YIELD STRENGTH DEFORMED BARS (Fy-415) TMT BARS AS PER IS1786.
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH RELEVANT I.S.C.
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE MAIN BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS.
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-25 CONCRETE SHALL BE 47Ø (Ø IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND LAYER.
2.9 PROVIDE 8MM@300C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACED CHAIRS OF ADEQUATE SIZE OF BARS AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE TIED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINUOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF HAND-HOLE , SLAB STEEL, LADDER, BASE PLATES, PIPES ETC. SHALL BE AS PER PLUMBING DRAWINGS.PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE CASTING.
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTERING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MINIMUM COUNTER WEIGHT OVER THE BEARING BEGIN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

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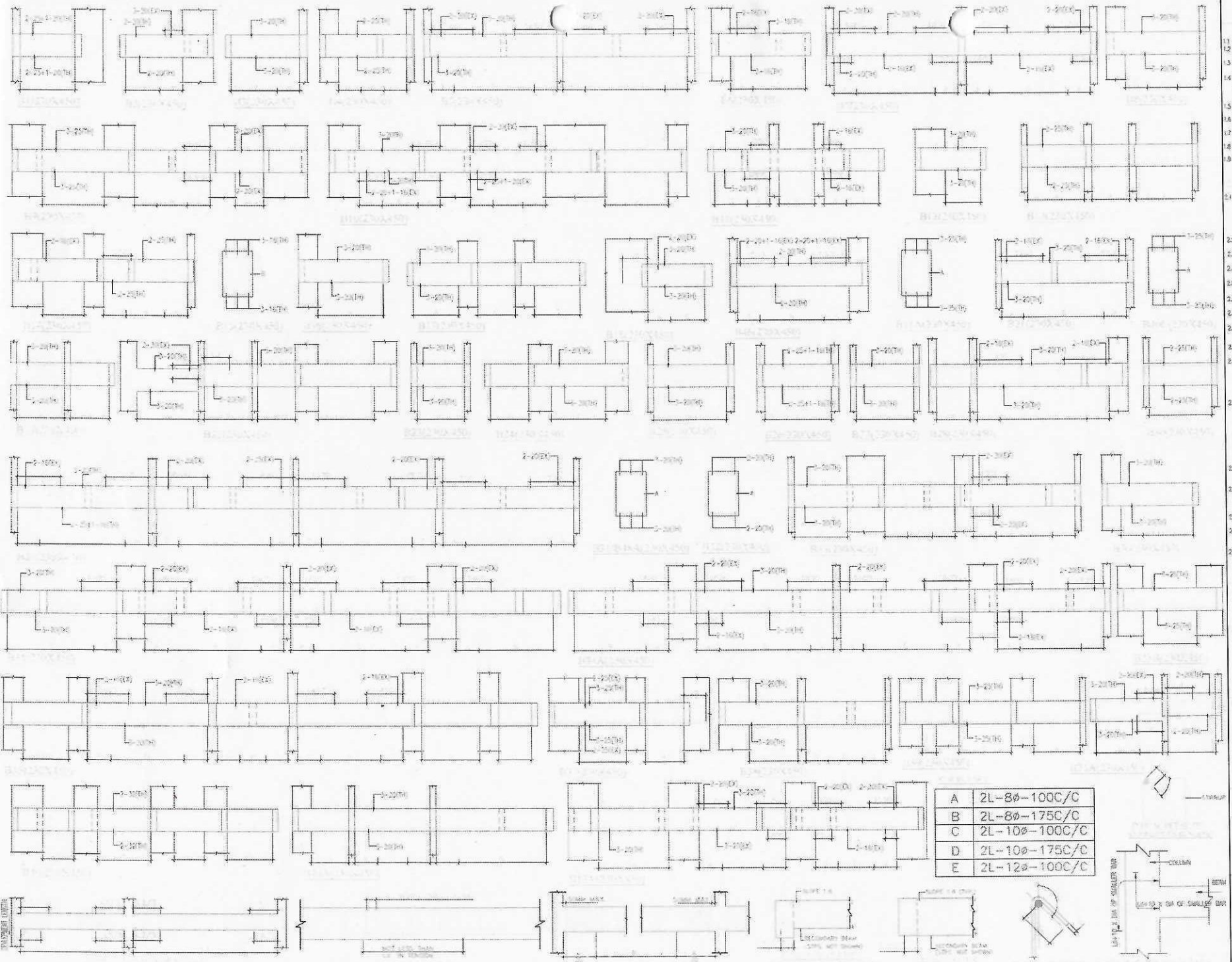
1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GIVEN DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY IN BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK IN/OR BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 8MM

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS.
SLAB----------20MM
R.C.C.WALL----------25MM
BEAM----------25MM
COLUMN----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-25 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YIELD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-25 CONCRETE SHALL BE 41D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8MMØC/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT RECOMMED AS PER ENGINEERING PRACTICES
2.10 TOP REINFORCEMENT IN SLABS, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZES OF BAR) AT LEAST
1 NO. PER 1 AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.

2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE. THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINUOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC. SHALL BE AS PER PLUMBING DRAWING/PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTERING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MINIMUM COUNTER WEIGHT OVER THE BEARING HAS BEEN ATTAINED
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING END.

A	2L–8ø–100C/C
B	2L–8ø–175C/C
C	2L–10ø–100C/C
D	2L–10ø–175C/C
E	2L–12ø–100C/C

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1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE GOOD ASSIGNED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115THK BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 8MM

2.1 KLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-25 UNLESS NOTED OTHERWISE
2.3 USE HIGH YIELD STRENGTH DEFORMED BARS (Fy-415) TMT BARS AS MANUFACTURED
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH IS 456-2000
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO OF MAIN BARS BE OVERLAPPED AS ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-25 CONCRETE SHALL BE 47Ø (Ø IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8MM@300 C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED ON PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OR DIA) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF STIRRUPS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS. FROM A TYPICAL CHAIRS COULD BE AS BELOW



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINUOUSLY UP TO THE CONSTRUCTION JOINT
2.13 THE SIZE AND POSITION OF WRH-HOLE , SLAB STEEL, EAGERS, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS.PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE REMAINED TILL MAXIMUM GREATER WEIGHT OVER THE BEARING HAVE ATTAINED
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

A	2L-8Ø-100C/C
B	2L-8Ø-175C/C
C	2L-10Ø-100C/C
D	2L-10Ø-175C/C
E	2L-12Ø-100C/C

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DRG NO | S-SO-2A

COLUMN SCHEDULE GROUND FLOOR LVL TO 2ND FLOOR LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-500)

C MIX -	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
TIES										
MAIN BARS	24-20ϕ	16-20ϕ+8-16ϕ	24-20ϕ	4-20ϕ+8-16ϕ+8-20ϕ	16-20ϕ	16-20ϕ	14-16ϕ	12-20ϕ+8-16ϕ	20-20ϕ	4-20ϕ+12-20ϕ
SIZE	230X450	230X450	230X450	230X450	230X450	230X450	230X450	230X450	230X450	230X450
TIES	OUTER TIES 4mm@150c/c INNER TIES 8mm@150c/c (3 nos)

DRG NO | S-SG-3B

COLUMN SCHEDULE 2ND FLOOR LVL. TO 4TH FLOOR LVL.
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-500)

C MIX -	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
TIES										
MAIN BARS										
SIZE										
TIES										
SHAPE										
COL/SW NO.	C1	C2	C2A	C3	C4	C5	C5A	C6	C6A	C7

COLUMN SCHEDULE 2ND FLOOR LVL. TO 4TH FLOOR LVL.
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-500)

C MIX -	M-30	M-30	M-30	M-30	M-30	M-30
TIES						
MAIN BARS	12-25ϕ+4-16ϕ	12-25ϕ	12-20ϕ+4-16ϕ	4-25ϕ+4-16ϕ	4-25ϕ+20-16ϕ	12-25ϕ+20-16ϕ
SIZE	230X1375	230X1375	230X650	230X650	230X1875	230X1875
TIES	OUTER TIES 8ϕ@150 c/c; INNER TIES 8ϕ@150 c/c (5 nos)	OUTER TIES 8ϕ@150 c/c; INNER TIES 8ϕ@150 c/c (5 nos)	OUTER TIES 8ϕ@150 c/c; INNER TIES 8ϕ@150 c/c (4 nos)	OUTER TIES 8ϕ@150 c/c; INNER TIES 8ϕ@150 c/c (4 nos)	OUTER TIES 8ϕ@150 c/c; INNER TIES 8ϕ@150 c/c (11 nos)	OUTER TIES 8ϕ@150 c/c; INNER TIES 8ϕ@150 c/c (14 nos)
SHAPE						
COL/SW NO	C7A	C8	C9	C10	SW1	SW2

COLUMN SCHEDULE 2ND FLOOR LVL. TO 4TH FLOOR LVL.
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-500)

C MIX -	M-30	M-30	M-30
TIES			
MAIN BARS	16-25ϕ	48-20ϕ+12-16ϕ	12-20ϕ+8-16ϕ
SIZE	230X1575	230X1575	230X1575
TIES	OUTER TIES 8ϕ@150 c/c; INNER TIES 8ϕ@150 c/c (10 nos)	OUTER TIES 8ϕ@150 c/c; INNER TIES 8ϕ@150 c/c (9 nos)	OUTER TIES 8ϕ@150 c/c; INNER TIES 8ϕ@150 c/c (9 nos)
SHAPE			
COL/SW NO	SW3	SW4	SW5

COLUMN SCHEDULE 2ND FLOOR LVL. TO 4TH FLOOR LVL.
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-500)

C MIX -	M-30	M-30
TIES		
MAIN BARS	6-25ϕ+16-16ϕ	28-25ϕ
SIZE	230X1250	230X1250
TIES	OUTER TIES 8ϕ@150 c/c; INNER TIES 8ϕ@150 c/c (5 nos)	OUTER TIES 8ϕ@150 c/c; INNER TIES 8ϕ@150 c/c (12 nos)
SHAPE		
COL/SW NO	C1A	SW2A

MANDATORY 135° HOOK DETAIL IN COLUMN /BEAM STIRRUPS

COLUMN TIES DETAIL

DETAIL 'A'

DETAIL 'B'

DETAIL 'C'

SPLICING OF COLUMN - SIX (6) NOS. OF ALL BARS AND REDUCTION OF SIZE

DETAIL 'X'

TYPICAL COLUMN ELEVATION

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO S/SN/E/100
2. ALL DIMENSIONS ARE IN mm.
3. REINF GRADE - Fe 500
4. THIS DWG. SHALL BE READ WITH ALL RELEVANT ARCH. DRAWINGS
5. ALL LEVELS AS PER ARCH.

NOTE: (1) CONFINEMENT DETAILS OF COLUMNS
1. ℓo IS CLEAR COLUMN HEIGHT
2. Lo IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) ℓo/6
   c) 450mm
3. FOR DEVELOPMENT LENGTH SEE REFER GENERAL NOTES REFER DRAWING NO. S/SN/E/100 AND Fe-415
4. MAXIMUM c/c SPACING OF BARS SHALL BE RESTRICTED TO ONE VERTICAL
5. (c) - TIES AS PER COLUMN SCHEDULE
   (1) - 8ϕ @100 c/c (INNER TIES)
   10ϕ @100 c/c (OUTER TIES)

BUILDING HAS BEEN DESIGNED FOR
2BASEMENT+GROUND+14TH STORIES

NO	DESCRIPTION	DATE	REV
1	I.F.C.	26.04.2016	R0

REVISION

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT GT KHANPUR NO. 1[2+3+4+5+6+7+8+9+10+11+12+13+14+15+16+17+18+19+20+21+22+23+24+25+26+27+28+29+30+31+32+33+34+35+36+37+38+39+40+41+42+43+44+45+46+47+48+49+50+51+52+53+54+55+56+57+58+59+60+61+62+63+64+65+66+67+68+69+70+71+72+73+74+75+76+77+78+79+80+81+82+83+84+85+86+87+88+89+90+91+92+93+94+95+96+97+98+99+100+101+102+103+104+105+106+107+108+109+110+111+112+113+114+115+116+117+118+119+120+121+122+123+124+125+126+127+128+129+130+131+132+133+134+135+136+137+138+139+140+141+142+143+144+145+146+147+148+149+150+151+152+153+154+155+156+157+158+159+160+161+162+163+164+165+166+167+168+169+170+171+172+173+174+175+176+177+178+179+180+181+182+183+184+185+186+187+188+189+190+191+192+193+194+195+196+197+198+199+200+201+202+203+204+205+206+207+208+209+210+211+212+213+214+215+216+217+218+219+220+221+222+223+224+225+226+227+228+229+230+231+232+233+234+235+236+237+238+239+240+241+242+243+244+245+246+247+248+249+250+251+252+253+254+255+256+257+258+259+260+261+262+263+264+265+266+267+268+269+270+271+272+273+274+275+276+277+278+279+280+281+282+283+284+285+286+287+288+289+290+291+292+293+294+295+296+297+298+299+300+301+302+303+304+305+306+307+308+309+310+311+312+313+314+315+316+317+318+319+320+321+322+323+324+325+326+327+328+329+330+331+332+333+334+335+336+337+338+339+340+341+342+343+344+345+346+347+348+349+350+351+352+353+354+355+356+357+358+359+360+361+362+363+364+365+366+367+368+369+370+371+372+373+374+375+376+377+378+379+380+381+382+383+384+385+386+387+388+389+390+391+392+393+394+395+396+397+398+399+400+401+402+403+404+405+406+407+408+409+410+411+412+413+414+415+416+417+418+419+420+421+422+423+424+425+426+427+428+429+430+431+432+433+434+435+436+437+438+439+440+441+442+443+444+445+446+447+448+449+450+451+452+453+454+455+456+457+458+459+460+461+462+463+464+465+466+467+468+469+470+471+472+473+474+475+476+477+478+479+480+481+482+483+484+485+486+487+488+489+490+491+492+493+494+495+496+497+498+499+500+501+502+503+504+505+506+507+508+509+510+511+512+513+514+515+516+517+518+519+520+521+522+523+524+525+526+527+528+529+530+531+532+533+534+535+536+537+538+539+540+541+542+543+544+545+546+547+548+549+550+551+552+553+554+555+556+557+558+559+560+561+562+563+564+565+566+567+568+569+570+571+572+573+574+575+576+577+578+579+580+581+582+583+584+585+586+587+588+589+590+591+592+593+594+595+596+597+598+599+600+601+602+603+604+605+606+607+608+609+610+611+612+613+614+615+616+617+618+619+620+621+622+623+624+625+626+627+628+629+630+631+632+633+634+635+636+637+638+639+640+641+642+643+644+645+646+647+648+649+650+651+652+653+654+655+656+657+658+659+660+661+662+663+664+665+666+667+668+669+670+671+672+673+674+675+676+677+678+679+680+681+682+683+684+685+686+687+688+689+690+691+692+693+694+695+696+697+698+699+700+701+702+703+704+705+706+707+708+709+710+711+712+713+714+715+716+717+718+719+720+721+722+723+724+725+726+727+728+729+730+731+732+733+734+735+736+737+738+739+740+741+742+743+744+745+746+747+748+749+750+751+752+753+754+755+756+757+758+759+760+761+762+763+764+765+766+767+768+769+770+771+772+773+774+775+776+777+778+779+780+781+782+783+784+785+786+787+788+789+790+791+792+793+794+795+796+797+798+799+800+801+802+803+804+805+806+807+808+809+810+811+812+813+814+815+816+817+818+819+820+821+822+823+824+825+826+827+828+829+830+831+832+833+834+835+836+837+838+839+840+841+842+843+844+845+846+847+848+849+850+851+852+853+854+855+856+857+858+859+860+861+862+863+864+865+866+867+868+869+870+871+872+873+874+875+876+877+878+879+880+881+882+883+884+885+886+887+888+889+890+891+892+893+894+895+896+897+898+899+900+901+902+903+904+905+906+907+908+909+910+911+912+913+914+915+916+917+918+919+920+921+922+923+924+925+926+927+928+929+930+931+932+933+934+935+936+937+938+939+940+941+942+943+944+945+946+947+948+949+950+951+952+953+954+955+956+957+958+959+960+961+962+963+964+965+966+967+968+969+970+971+972+973+974+975+976+977+978+979+980+981+982+983+984+985+986+987+988+989+990+991+992+993+994+995+996+997+998+999+1000+1001+1002+1003+1004+1005+1006+1007+1008+1009+1010+1011+1012+1013+1014+1015+1016+1017+1018+1019+1020+1021+1022+1023+1024+1025+1026+1027+1028+1029+1030+1031+1032+1033+1034+1035+1036+1037+1038+1039+1040+1041+1042+1043+1044+1045+1046+1047+1048+1049+1050+1051+1052+1053+1054+1055+1056+1057+1058+1059+1060+1061+1062+1063+1064+1065+1066+1067+1068+1069+1070+1071+1072+1073+1074+1075+1076+1077+1078+1079+1080+1081+1082+1083+1084+1085+1086+1087+1088+1089+1090+1091+1092+1093+1094+1095+1096+1097+1098+1099+1100+1101+1102+1103+1104+1105+1106+1107+1108+1109+1110+1111+1112+1113+1114+1115+1116+1117+1118+1119+1120+1121+1122+1123+1124+1125+1126+1127+1128+1129+1130+1131+1132+1133+1134+1135+1136+1137+1138+1139+1140+1141+1142+1143+1144+1145+1146+1147+1148+1149+1150+1151+1152+1153+1154+1155+1156+1157+1158+1159+1160+1161+1162+1163+1164+1165+1166+1167+1168+1169+1170+1171+1172+1173+1174+1175+1176+1177+1178+1179+1180+1181+1182+1183+1184+1185+1186+1187+1188+1189+1190+1191+1192+1193+1194+1195+1196+1197+1198+1199+1200+1201+1202+1203+1204+1205+1206+1207+1208+1209+1210+1211+1212+1213+1214+1215+1216+1217+1218+1219+1220+1221+1222+1223+1224+1225+1226+1227+1228+1229+1230+1231+1232+1233+1234+1235+1236+1237+1238+1239+1240+1241+1242+1243+1244+1245+1246+1247+1248+1249+1250+1251+1252+1253+1254+1255+1256+1257+1258+1259+1260+1261+1262+1263+1264+1265+1266+1267+1268+1269+1270+1271+1272+1273+1274+1275+1276+1277+1278+1279+1280+1281+1282+1283+1284+1285+1286+1287+1288+1289+1290+1291+1292+1293+1294+1295+1296+1297+1298+1299+1300+1301+1302+1303+1304+1305+1306+1307+1308+1309+1310+1311+1312+1313+1314+1315+1316+1317+1318+1319+1320+1321+1322+1323+1324+1325+1326+1327+1328+1329+1330+1331+1332+1333+1334+1335+1336+1337+1338+1339+1340+1341+1342+1343+1344+1345+1346+1347+1348+1349+1350+1351+1352+1353+1354+1355+1356+1357+1358+1359+1360+1361+1362+1363+1364+1365+1366+1367+1368+1369+1370+1371+1372+1373+1374+1375+1376+1377+1378+1379+1380+1381+1382+1383+1384+1385+1386+1387+1388+1389+1390+1391+1392+1393+1394+1395+1396+1397+1398+1399+1400+1401+1402+1403+1404+1405+1406+1407+1408+1409+1410+1411+1412+1413+1414+1415+1416+1417+1418+1419+1420+1421+1422+1423+1424+1425+1426+1427+1428+1429+1430+1431+1432+1433+1434+1435+1436+1437+1438+1439+1440+1441+1442+1443+1444+1445+1446+1447+1448+1449+1450+1451+1452+1453+1454+1455+1456+1457+1458+1459+1460+1461+1462+1463+1464+1465+1466+1467+1468+1469+1470+1471+1472+1473+1474+1475+1476+1477+1478+1479+1480+1481+1482+1483+1484+1485+1486+1487+1488+1489+1490+1491+1492+1493+1494+1495+1496+1497+1498+1499+1500+1501+1502+1503+1504+1505+1506+1507+1508+1509+1510+1511+1512+1513+1514+1515+1516+1517+1518+1519+1520+1521+1522+1523+1524+1525+1526+1527+1528+1529+1530+1531+1532+1533+1534+1535+1536+1537+1538+1539+1540+1541+1542+1543+1544+1545+1546+1547+1548+1549+1550+1551+1552+1553+1554+1555+1556+1557+1558+1559+1560+1561+1562+1563+1564+1565+1566+1567+1568+1569+1570+1571+1572+1573+1574+1575+1576+1577+1578+1579+1580+1581+1582+1583+1584+1585+1586+1587+1588+1589+1590+1591+1592+1593+1594+1595+1596+1597+1598+1599+1600+1601+1602+1603+1604+1605+1606+1607+1608+1609+1610+1611+1612+1613+1614+1615+1616+1617+1618+1619+1620+1621+1622+1623+1624+1625+1626+1627+1628+1629+1630+1631+1632+1633+1634+1635+1636+1637+1638+1639+1640+1641+1642+1643+1644+1645+1646+1647+1648+1649+1650+1651+1652+1653+1654+1655+1656+1657+1658+1659+1660+1661+1662+1663+1664+1665+1666+1667+1668+1669+1670+1671+1672+1673+1674+1675+1676+1677+1678+1679+1680+1681+1682+1683+1684+1685+1686+1687+1688+1689+1690+1691+1692+1693+1694+1695+1696+1697+1698+1699+1700+1701+1702+1703+1704+1705+1706+1707+1708+1709+1710+1711+1712+1713+1714+1715+1716+1717+1718+1719+1720+1721+1722+1723+1724+1725+1726+1727+1728+1729+1730+1731+1732+1733+1734+1735+1736+1737+1738+1739+1740+1741+1742+1743+1744+1745+1746+1747+1748+1749+1750+1751+1752+1753+1754+1755+1756+1757+1758+1759+1760+1761+1762+1763+1764+1765+1766+1767+1768+1769+1770+1771+1772+1773+1774+1775+1776+1777+1778+1779+1780+1781+1782+1783+1784+1785+1786+1787+1788+1789+1790+1791+1792+1793+1794+1795+1796+1797+1798+1799+1800+1801+1802+1803+1804+1805+1806+1807+1808+1809+1810+1811+1812+1813+1814+1815+1816+1817+1818+1819+1820+1821+1822+1823+1824+1825+1826+1827+1828+1829+1830+1831+1832+1833+1834+1835+1836+1837+1838+1839+1840+1841+1842+1843+1844+1845+1846+1847+1848+1849+1850+1851+1852+1853+1854+1855+1856+1857+1858+1859+1860+1861+1862+1863+1864+1865+1866+1867+1868+1869+1870+1871+1872+1873+1874+1875+1876+1877+1878+1879+1880+1881+1882+1883+1884+1885+1886+1887+1888+1889+1890+1891+1892+1893+1894+1895+1896+1897+1898+1899+1900+1901+1902+1903+1904+1905+1906+1907+1908+1909+1910+1911+1912+1913+1914+1915+1916+1917+1918+1919+1920+1921+1922+1923+1924+1925+1926+1927+1928+1929+1930+1931+1932+1933+1934+1935+1936+1937+1938+1939+1940+1941+1942+1943+1944+1945+1946+1947+1948+1949+1950+1951+1952+1953+1954+1955+1956+1957+1958+1959+1960+1961+1962+1963+1964+1965+1966+1967+1968+1969+1970+1971+1972+1973+1974+1975+1976+1977+1978+1979+1980+1981+1982+1983+1984+1985+1986+1987+1988+1989+1990+1991+1992+1993+1994+1995+1996+1997+1998+1999+2000+2001+2002+2003+2004+2005+2006+2007+2008+2009+2010+2011+2012+2013+2014+2015+2016+2017+2018+2019+2020+2021+2022+2023+2024+2025+2026+2027+2028+2029+2030+2031+2032+2033+2034+2035+2036+2037+2038+2039+2040+2041+2042+2043+2044+2045+2046+2047+2048+2049+2050+2051+2052+2053+2054+2055+2056+2057+2058+2059+2060+2061+2062+2063+2064+2065+2066+2067+2068+2069+2070+2071+2072+2073+2074+2075+2076+2077+2078+2079+2080+2081+2082+2083+2084+2085+2086+2087+2088+2089+2090+2091+2092+2093+2094+2095+2096+2097+2098+2099+2100+2101+2102+2103+2104+2105+2106+2107+2108+2109+2110+2111+2112+2113+2114+2115+2116+2117+2118+2119+2120+2121+2122+2123+2124+2125+2126+2127+2128+2129+2130+2131+2132+2133+2134+2135+2136+2137+2138+2139+2140+2141+2142+2143+2144+2145+2146+2147+2148+2149+2150+2151+2152+2153+2154+2155+2156+2157+2158+2159+2160+2161+2162+2163+2164+2165+2166+2167+2168+2169+2170+2171+2172+2173+2174+2175+2176+2177+2178+2179+2180+2181+2182+2183+2184+2185+2186+2187+2188+2189+2190+2191+2192+2193+2194+2195+2196+2197+2198+2199+2200+2201+2202+2203+2204+2205+2206+2207+2208+2209+2210+2211+2212+2213+2214+2215+2216+2217+2218+2219+2220+2221+2222+2223+2224+2225+2226+2227+2228+2229+2230+2231+2232+2233+2234+2235+2236+2237+2238+2239+2240+2241+2242+2243+2244+2245+2246+2247+2248+2249+2250+2251+2252+2253+2254+2255+2256+2257+2258+2259+2260+2261+2262+2263+2264+2265+2266+2267+2268+2269+2270+2271+2272+2273+2274+2275+2276+2277+2278+2279+2280+2281+2282+2283+2284+2285+2286+2287+2288+2289+2290+2291+2292+2293+2294+2295+2296+2297+2298+2299+2300+2301+2302+2303+2304+2305+2306+2307+2308+2309+2310+2311+2312+2313+2314+2315+2316+2317+2318+2319+2320+2321+2322+2323+2324+2325+2326+2327+2328+2329+2330+2331+2332+2333+2334+2335+2336+2337+2338+2339+2340+2341+2342+2343+2344+2345+2346+2347+2348+2349+2350+2351+2352+2353+2354+2355+2356+2357+2358+2359+2360+2361+2362+2363+2364+2365+2366+2367+2368+2369+2370+2371+2372+2373+2374+2375+2376+2377+2378+2379+2380+2381+2382+2383+2384+2385+2386+2387+2388+2389+2390+2391+2392+2393+2394+2395+2396+2397+2398+2399+2400+2401+2402+2403+2404+2405+2406+2407+2408+2409+2410+2411+2412+2413+2414+2415+2416+2417+2418+2419+2420+2421+2422+2423+2424+2425+2426+2427+2428+2429+2430+2431+2432+2433+2434+2435+2436+2437+2438+2439+2440+2441+2442+2443+2444+2445+2446+2447+2448+2449+2450+2451+2452+2453+2454+2455+2456+2457+2458+2459+2460+2461+2462+2463+2464+2465+2466+2467+2468+2469+2470+2471+2472+2473+2474+2475+2476+2477+2478+2479+2480+2481+2482+2483+2484+2485+2486+2487+2488+2489+2490+2491+2492+2493+2494+2495+2496+2497+2498+2499+2500+2501+2502+2503+2504+2505+2506+2507+2508+2509+2510+2511+2512+2513+2514+2515+2516+2517+2518+2519+2520+2521+2522+2523+2524+2525+2526+2527+2528+2529+2530+2531+2532+2533+2534+2535+2536+2537+2538+2539+2540+2541+2542+2543+2544+2545+2546+2547+2548+2549+2550+2551+2552+2553+2554+2555+2556+2557+2558+2559+2560+2561+2562+2563+2564+2565+2566+2567+2568+2569+2570+2571+2572+2573+2574+2575+2576+2577+2578+2579+2580+2581+2582+2583+2584+2585+2586+2587+2588+2589+2590+2591+2592+2593+2594+2595+2596+2597+2598+2599+2600+2601+2602+2603+2604+2605+2606+2607+2608+2609+2610+2611+2612+2613+2614+2615+2616+2617+2618+2619+2620+2621+2622+2623+2624+2625+2626+2627+2628+2629+2630+2631+2632+2633+2634+2635+2636+2637+2638+2639+2640+2641+2642+2643+2644+2645+2646+2647+2648+2649+2650+2651+2652+2653+2654+2655+2656+2657+2658+2659+2660+2661+2662+2663+2664+2665+2666+2667+2668+2669+2670+2671+2672+2673+2674+2675+2676+2677+2678+2679+2680+2681+2682+2683+2684+2685+2686+2687+2688+2689+2690+2691+2692+2693+2694+2695+2696+2697+2698+2699+2700+2701+2702+2703+2704+2705+2706+2707+2708+2709+2710+2711+2712+2713+2714+2715+2716+2717+2718+2719+2720+2721+2722+2723+2724+2725+2726+2727+2728+2729+2730+2731+2732+2733+2734+2735+2736+2737+2738+2739+2740+2741+2742+2743+2744+2745+2746+2747+2748+2749+2750+2751+2752+2753+2754+2755+2756+2757+2758+2759+2760+2761+2762+2763+2764+2765+2766+2767+2768+2769+2770+2771+2772+2773+2774+2775+2776+2777+2778+2779+2780+2781+2782+2783+2784+2785+2786+2787+2788+2789+2790+2791+2792+2793+2794+2795+2796+2797+2798+2799+2800+2801+2802+2803+2804+2805+2806+2807+2808+2809+2810+2811+2812+2813+2814+2815+2816+2817+2818+2819+2820+2821+2822+2823+2824+2825+2826+2827+2828+2829+2830+2831+2832+2833+2834+2835+2836+2837+2838+2839+2840+2841+2842+2843+2844+2845+2846+2847+2848+2849+2850+2851+2852+2853+2854+2855+2856+2857+2858+2859+2860+2861+2862+2863+2864+2865+2866+2867+2868+2869+2870+2871+2872+2873+2874+2875+2876+2877+2878+2879+2880+2881+2882+2883+2884+2885+2886+2887+2888+2889+2890+2891+2892+2893+2894+2895+2896+2897+2898+2899+2900+2901+2902+2903+2904+2905+2906+2907+2908+2909+2910+2911+2912+2913+2914+2915+2916+2917+2918+2919+2920+2921+2922+2923+2924+2925+2926+2927+2928+2929+2930+2931+2932+2933+2934+2935+2936+2937+2938+2939+2940+2941+2942+2943+2944+2945+2946+2947+2948+2949+2950+2951+2952+2953+2954+2955+2956+2957+2958+2959+2960+2961+2962+2963+2964+2965+2966+2967+2968+2969+2970+2971+2972+2973+2974+2975+2976+2977+2978+2979+2980+2981+2982+2983+2984+2985+2986+2987+2988+2989+2990+2991+2992+2993+2994+2995+2996+2997+2998+2999+3000+3001+3002+3003+3004+3005+3006+3007+3008+3009+3010+3011+3012+3013+3014+3015+3016+3017+3018+3019+3020+3021+3022+3023+3024+3025+3026+3027+3028+3029+3030+3031+3032+3033+3034+3035+3036+3037+3038+3039+3040+3041+3042+3043+3044+3045+3046+3047+3048+3049+3050+3051+3052+3053+3054+3055+3056+3057+3058+3059+3060+3061+3062+3063+3064+3065+3066+3067+3068+3069+3070+3071+3072+3073+3074+3075+3076+3077+3078+3079+3080+3081+3082+3083+3084+3085+3086+3087+3088+3089+3090+3091+3092+3093+3094+3095+3096+3097+3098+3099+3100+3101+3102+3103+3104+3105+3106+3107+3108+3109+3110+3111+3112+3113+3114+3115+3116+3117+3118+3119+3120+3121+3122+3123+3124+3125+3126+3127+3128+3129+3130+3131+3132+3133+3134+3135+3136+3137+3138+3139+3140+3141+3142+3143+3144+3145+3146+3147+3148+3149+3150+3151+3152+3153+3154+3155+3156+3157+3158+3159+3160+3161+3162+3163+3164+3165+3166+3167+3168+3169+3170+3171+3172+3173+3174+3175+3176+3177+3178+3179+3180+3181+3182+3183+3184+3185+3186+3187+3188+3189+3190+3191+3192+3193+3194+3195+3196+3197+3198+3199+3200+3201+3202+3203+3204+3205+3206+3207+3208+3209+3210+3211+3212+3213+3214+3215+3216+3217+3218+3219+3220+3221+3222+3223+3224+3225+3226+3227+3228+3229+3230+3231+3232+3233+3234+3235+3236+3237+3238+3239+3240+3241+3242+3243+3244+3245+3246+3247+3248+3249+3250+3251+3252+3253+3254+3255+3256+3257+3258+3259+3260+3261+3262+3263+3264+3265+3266+3267+3268+3269+3270+3271+3272+3273+3274+3275+3276+3277+3278+3279+3280+3281+3282+3283+3284+3285+3286+3287+3288+3289+3290+3291+3292+3293+3294+3295+3296+3297+3298+3299+3300+3301+3302+3303+3304+3305+3306+3307+3308+3309+3310+3311+3312+3313+3314+3315+3316+3317+3318+3319+3320+3321+3322+3323+3324+3325+3326+3327+3328+3329+3330+3331+3332+3333+3334+3335+3336+3337+3338+3339+3340+3341+3342+3343+3344+3345+3346+3347+3348+3349+3350+3351+3352+3353+3354+3355+3356+3357+3358+3359+3360+3361+3362+3363+3364+3365+3366+3367+3368+3369+3370+3371+3372+3373+3374+3375+3376+3377+3378+3379+3380+3381+3382+3383+3384+3385+3386+3387+3388+3389+3390+3391+3392+3393+3394+3395+3396+3397+3398+3399+3400+3401+3402+3403+3404+3405+3406+3407+3408+3409+3410+3411+3412+3413+3414+3415+3416+3417+3418+3419+3420+3421+3422+3423+3424+3425+3426+3427+3428+3429+3430+3431+3432+3433+3434+3435+3436+3437+3438+3439+3440+3441+3442+3443+3444+3445+3446+3447+3448+3449+3450+3451+3452+3453+3454+3455+3456+3457+3458+3459+3460+3461+3462+3463+3464+3465+3466+3467+3468+3469+3470+3471+3472+3473+3474+3475+3476+3477+3478+3479+3480+3481+3482+3483+3484+3485+3486+3487+3488+3489+3490+3491+3492+3493+3494+3495+3496+3497+3498+3499+3500+3501+3502+3503+3504+3505+3506+3507+3508+3509+3510+3511+3512+3513+3514+3515+3516+3517+3518+3519+3520+3521+3522+3523+3524+3525+3526+3527+3528+3529+3530+3531+3532+3533+3534+3535+3536+3537+3538+3539+3540+3541+3542+3543+3544+3545+3546+3547+3548+3549+3550+3551+3552+3553+3554+3555+3556+3557+3558+3559+3560+3561+3562+3563+3564+3565+3566+3567+3568+3569+3570+3571+3572+3573+3574+3575+3576+3577+3578+3579+3580+3581+3582+3583+3584+3585+3586+3587+3588+3589+3590+3591+3592+3593+3594+3595+3596+3597+3598+3599+3600+3601+3602+3603+3604+3605+3606+3607+3608+3609+3610+3611+3612+3613+3614+3615+3616+3617+3618+3619+3620+3621+3622+3623+3624+3625+3626+3627+3628+3629+3630+3631+3632+3633+3634+3635+3636+3637+3638+3639+3640+3641+3642+3643+3644+3645+3646+3647+3648+3649+3650+3651+3652+3653+3654+3655+3656+3657+3658+3659+3660+3661+3662+3663+3664+3665+3666+3667+3668+3669+3670+3671+3672+3673+3674+3675+3676+3677+3678+3679+3680+3681+3682+3683+3684+3685+3686+3687+3688+3689+3690+3691+3692+3693+3694+3695+3696+3697+3698+3699+3700+3701+3702+3703+3704+3705+3706+3707+3708+3709+3710+3711+3712+3713+3714+3715+3716+3717+3718+3719+3720+3721+3722+3723+3724+3725+3726+3727+3728+3729+3730+3731+3732+3733+3734+3735+3736+3737+3738+3739+3740+3741+3742+3743+3744+3745+3746+3747+3748+3749+3750+3751+3752+3753+3754+3755+3756+3757+3758+3759+3760+3761+3762+3763+3764+3765+3766+3767+3768+3769+3770+3771+3772+3773+3774+3775+3776+3777+3778+3779+3780+3781+3782+3783+3784+3785+3786+3787+3788+3789+3790+3791+3792+3793+3794+3795+3796+3797+3798+3799+3800+3801+3802+3803+3804+3805+3806+3807+3808+3809+3810+3811+3812+3813+3814+3815+3816+3817+3818+3819+3820+3821+3822+3823+3824+3825+3826+3827+3828+3829+3830+3831+3832+3833+3834+3835+3836+3837+3838+3839+3840+3841+3842+3843+3844+3845+3846+3847+3848+3849+3850+3851+3852+3853+3854+3855+3856+3857+3858+3859+3860+3861+3862+3863+3864+3865+3866+3867+3868+3869+3870+3871+3872+3873+3874+3875+3876+3877+3878+3879+3880+3881+3882+3883+3884+3885+3886+3887+3888+3889+3890+3891+3892+3893+3894+3895+3896+3897+3898+3899+3900+3901+3902+3903+3904+3905+3906+3907+3908+3909+3910+3911+3912+3913+3914+3915+3916+3917+3918+3919+3920+3921+3922+3923+3924+3925+3926+3927+3928+3929+3930+3931+3932+3933+3934+3935+3936+3937+3938+3939+3940+3941+3942+3943+3944+3945+3946+3947+3948+3949+3950+3951+3952+3953+3954+3955+3956+3957+3958+3959+3960+3961+3962+3963+3964+3965+3966+3967+3968+3969+3970+3971+3972+3973+3974+3975+3976+3977+3978+3979+3980+3981+3982+3983+3984+3985+3986+3987+3988+3989+3990+3991+3992+3993+3994+3995+3996+3997+3998+3999+4000+4001+4002+4003+4004+4005+4006+4007+4008+4009+4010+4011+4012+4013+4014+4015+4016+4017+4018+4019+4020+4021+4022+4023+4024+4025+4026+4027+4028+4029+4030+4031+4032+4033+4034+4035+4036+4037+4038+4039+4040+4041+4042+4043+4044+4045+4046+4047+4048+4049+4050+4051+4052+4053+4054+4055+4056+4057+4058+4059+4060+4061+4062+4063+4064+4065+4066+4067+4068+4069+4070+4071+4072+4073+4074+4075+4076+4077+4078+4079+4080+4081+4082+4083+4084+4085+4086+4087+4088+4089+4090+4091+4092+4093+4094+4095+4096+4097+4098+4099+4100+4101+4102+4103+4104+4105+4106+4107+4108+4109+4110+4111+4112+4113+4114+4115+4116+4117+4118+4119+4120+4121+4122+4123+4124+4125+4126+4127+4128+4129+4130+4131+4132+4133+4134+4135+4136+4137+4138+4139+4140+4141+4142+4143+4144+4145+4146+4147+4148+4149+4150+4151+4152+4153+4154+4155+4156+4157+4158+4159+4160+4161+4162+4163+4164+4165+4166+4167+4168+4169+4170+4171+4172+4173+4174+4175+4176+4177+4178+4179+4180+4181+4182+4183+4184+4185+4186+4187+4188+4189+4190+4191+4192+4193+4194+4195+4196+4197+4198+4199+4200+4201+4202+4203+4204+4205+4206+4207+4208+4209+4210+4211+4212+4213+4214+4215+4216+4217+4218+4219+4220+4221+4222+4223+4224+4225+4226+4227+4228+4229+4230+4231+4232+4233+4234+4235+4236+4237+4238+4239+4240+4241+4242+4243+4244+4245+4246+4247+4248+4249+4250+4251+4252+4253+4254+4255+4256+4257+4258+4259+4260+4261+4262+4263+4264+4265+4266+4267+4268+4269+4270+4271+4272+4273+4274+4275+4276+4277+4278+4279+4280+4281+4282+4283+4284+4285+4286+4287+4288+4289+4290+4291+4292+4293+4294+4295+4296+4297+4298+4299+4300+4301+4302+4303+4304+4305+4306+4307+4308+4309+4310+4311+4312+4313+4314+4315+4316+4317+4318+4319+4320+4321+4322+4323+4324+4325+4326+4327+4328+4329+4330+4331+4332+4333+4334+4335+4336+4337+4338+4339+4340+4341+4342+4343+4344+4345+4346+4347+4348+4349+4350+4351+4352+4353+4354+4355+4356+4357+4358+4359+4360+4361+4362+4363+4364+4365+4366+4367+4368+4369+4370+4371+4372+4373+4374+4375+4376+4377+4378+4379+4380+4381+4382+4383+4384+4385+4386+4387+4388+4389+4390+4391+4392+4393+4394+4395+4396+4397+4398+4399+4400+4401+4402+4403+4404+4405+4406+4407+4408+4409+4410+4411+4412+4413+4414+4415+4416+4417+4418+4419+4420+4421+4422+4423+4424+4425+4426+4427+4428+4429+4430+4431+4432+4433+4434+4435+4436+4437+4438+4439+4440+4441+4442+4443+4444+4445+4446+4447+4448+4449+4450+4451+4452+4453+4454+4455+4456+4457+4458+4459+4460+4461+4462+4463+4464+4465+4466+4467+4468+4469+4470+4471+4472+4473+4474+4475+4476+4477+4478+4479+4480+4481+4482+4483+4484+4485+4486+4487+4488+4489+4490+4491+4492+4493+4494+4495+4496+4497+4498+4499+4500+4501+4502+4503+4504+4505+4506+4507+4508+4509+4510+4511+4512+4513+4514+4515+4516+4517+4518+4519+4520+4521+4522+4523+4524+4525+4526+4527+4528+4529+4530+4531+4532+4533+4534+4535+4536+4537+4538+4539+4540+4541+4542+4543+4544+4545+4546+4547+4548+4549+4550+4551+4552+4553+4554+4555+4556+4557+4558+4559+4560+4561+4562+4563+4564+4565+4566+4567+4568+4569+4570+4571+4572+4573+4574+4575+4576+4577+4578+4579+4580+4581+4582+4583+4584+4585+4586+4587+4588+4589+4590+4591+4592+4593+4594+4595+4596+4597+4598+4599+4600+4601+4602+4603+4604+4605+4606+4607+4608+4609+4610+4611+4612+4613+4614+4615+4616+4617+4618+4619+4620+4621+4622+4623+4624+4625+4626+4627+4628+4629+4630+4631+4632+4633+4634+4635+4636+4637+4638+4639+4640+4641+4642+4643+4644+4645+4646+4647+4648+4649+4650+4651+4652+4653+4654+4655+4656+4657+4658+4659+4660+4661+4662+4663+4664+4665+4666+4667+4668+4669+4670+4671+4672+4673+4674+4675+4676+4677+4678+4679+4680+4681+4682+4683+4684+4685+4686+4687+4688+4689+4690+4691+4692+4693+4694+4695+4696+4697+4698+4699+4700+4701+4702+4703+4704+4705+4706+4707+4708+4709+4710+4711+4712+4713+4714+4715+4716+4717+4718+4719+4720+4721+4722+4723+4724+4725+4726+4727+4728+4729+4730+4731+4732+4733+4734+4735+4736+4737+4738+4739+4740+4741+4742+4743+4744+4745+4746+4747+4748+4749+4750+4751+4752+4753+4754+4755+4756+4757+4758+4759+4760+4761+4762+4763+4764+4765+4766+4767+4768+4769+4770+4771+4772+4773+4774+4775+4776+4777+4778+4779+4780+4781+4782+4783+4784+4785+4786+4787+4788+4789+4790+4791+4792+4793+4794+4795+4796+4797+4798+4799+4800+4801+4802+4803+4804+4805+4806+4807+4808+4809+4810+4811+4812+4813+4814+4815+4816+4817+4818+4819+4820+4821+4822+4823+4824+4825+4826+4827+4828+4829+4830+4831+4832+4833+4834+4835+4836+4837+4838+4839+4840+4841+4842+4843+4844+4845+4846+4847+4848+4849+4850+4851+4852+4853+4854+4855+4856+4857+4858+4859+4860+4861+4862+4863+4864+4865+4866+4867+4868+4869+4870+4871+4872+4873+4874+4875+4876+4877+4878+4879+4880+4881+4882+4883+4884

DRG. NO. S-SO-3C

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO. S/SN/E/100
2. ALL DIMENSIONS ARE IN mm.
3. RENF. GRADE Fe-500.
4. CONC. MIX -M30

NOTE ON CURTAILMENT DETAILS OF COLUMN

1. ℓo IS CLEAR COLUMN HEIGHT
2. ℓo IS GREATER OF
   a) MAX. LATERAL DIMENSION OF COLUMN
   b) ℓo/6
   c) 450mm
3. FOR DEVELOPMENT LENGTH 'Ld' REFER GENERAL NOTES REFER DRAWING NO. S/SN/E/100 AND Fe-500
4. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION
5. SC - TIES AS PER COLUMN SCHEDULE
   S1 - 8ϕ @100 c/c (MAIN TIES)
   S2 - 8ϕ @100 c/c (CROSS TIES)

BUILDING HAS BEEN DESIGN
BASEMENT+GROUND+14TH STOREY

NO	DESCRIPTION	DATE	REV.
04	G.F.C	28.04.2016	R0

REVISION

PROJECT :

PROJECT TITLE :-

PROPOSED GROUP HOUSING AT PLOT AT KHASRA NO.-1107/1, 1108/1, 1113, 1114/2, 1140/1, 1141/1, 1142, 1143/1, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153/1, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 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COLUMN SCHEDULE 2ND FLOOR LVL TO 14TH FLOOR LVL

CONC MIX SHALL BE M-30 FOR ALL COLUMNS

C.MK.-	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
TIES										
MAIN BARS	16-12ϕ(h)+6-12ϕ	16-20ϕ(h)+6-12ϕ	6-12ϕ(h)+16-12ϕ	10-16ϕ(h)+6-12ϕ	10-16ϕ(h)+6-12ϕ	18-16ϕ(h)+6-12ϕ	6-16ϕ(h)+8-12ϕ	10-20ϕ(h)+6-12ϕ	4-20ϕ(h)+12-12ϕ	8-20ϕ(h)+10-12ϕ
SIZE	300X750	300X750	300X750	300X750	300X750	300X750	300X750	300X750	300X750	300X750
TIES	OUTER TIES@100 c/c INNER TIES @150 c/c (5 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (5 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (4 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (5 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (5 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (6 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (5 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (5 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (5 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (5 nos)
SHAPE										
COLUMN NO	C1	C1A	C1B	C2	C2A	C2C	C2B	C3	C3A	SW1

COLUMN SCHEDULE 2ND FLOOR LVL TO 14TH FLOOR LVL

CONC MIX SHALL BE M-30 FOR ALL COLUMNS

C.MK.-	M-30	M-30	M-30	M-30	M-30	M-30	M-30
TIES							
MAIN BARS	4-16ϕ(h)+12-12ϕ	6-16ϕ(h)+10-12ϕ	16-16ϕ(h)+12-12ϕ	10-16ϕ(h)+8-12ϕ	16-20ϕ(h)+12-12ϕ	20-16ϕ(h)+6-12ϕ	18-16ϕ(h)+10-12ϕ
SIZE	300X1500	300X1500	300X1575	300X1500	300X1500	300X1575	300X1500
TIES	OUTER TIES@100 c/c INNER TIES @150 c/c (8 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (7 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (11 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (9 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (7 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (6 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (9 nos)
SHAPE							
COLUMN NO	SW1A	SW1B	SW1C	SW2	SW2A	SW2B	SW2C

COLUMN SCHEDULE 2ND FLOOR LVL TO 14TH FLOOR LVL

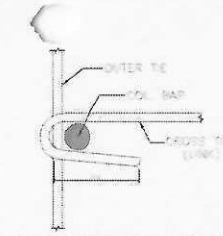
CONC MIX SHALL BE M-30 FOR ALL COLUMNS

C.MK.-	M-30	M-30	M-30	M-30	M-30	M-30
TIES						
MAIN BARS	18-16ϕ(h)+6-12ϕ	18-16ϕ(h)+10-12ϕ	12-20ϕ(h)+12-12ϕ	18-16ϕ	8-20ϕ(h)+14-16ϕ	8-16ϕ(h)+18-12ϕ
SIZE	230X1800	230X1800	230X1800	230X1415	230X1113	230X1760
TIES	OUTER TIES@100 c/c INNER TIES @150 c/c (6 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (2 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (7 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (6 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (7 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (9 nos)
SHAPE						
COLUMN NO	SW3	SW3A	SW4	SW4A	SW4B	SW4C

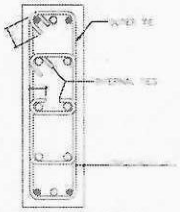
COLUMN SCHEDULE 2ND FLOOR LVL TO 5TH FLOOR LVL

CONC MIX SHALL BE M-30 FOR ALL COLUMNS

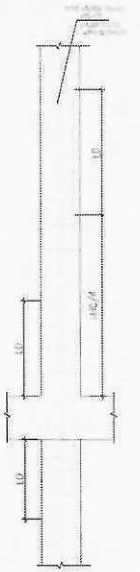
C.MK.-	M-30	M-30	M-30	M-30
TIES				
MAIN BARS	16-20ϕ(h)+8-12ϕ	18-20ϕ(h)+8-12ϕ	20-20ϕ(h)+8-12ϕ	20-20ϕ(h)+10-12ϕ
SIZE	230X1800	230X1800	230X1500	230X1800
TIES	OUTER TIES@100 c/c INNER TIES @150 c/c (7 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (7 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (8 nos)	OUTER TIES@100 c/c INNER TIES @150 c/c (10 nos)
SHAPE				
COLUMN NO	SW5	SW5A	SW5B	SW5C



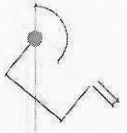
TYP. DETAIL OF CROSS TIE ALONG WITH VERTICAL BAR



COLUMN TIES DETAIL



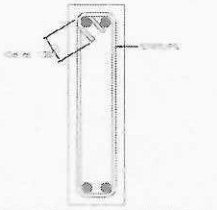
DETAIL 'X'



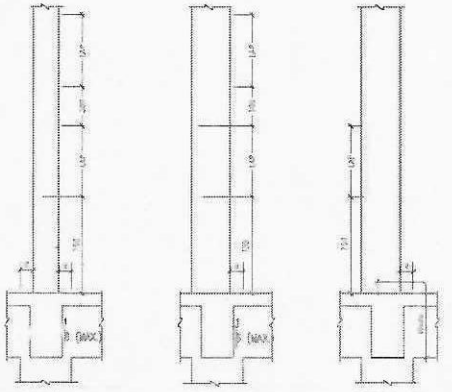
DETAIL OF HOOKS



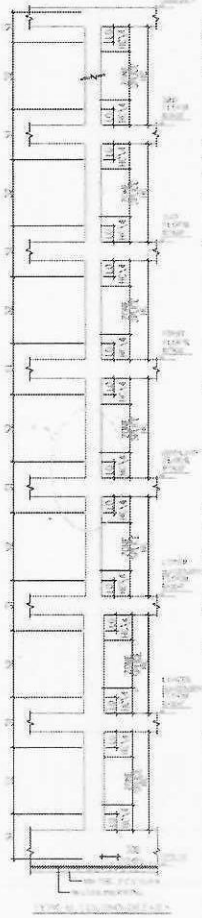
TYPICAL DETAIL OF STIRRUP TIES BENDING



MAGNATOMIC HOOK DETAIL IN COLUMN, BEAM STIRRUPS



DETAILING OF COLUMN, SHEAR WALL BARS AND PERFECTION OF SLAB (DO NOT SCALE FROM DRAWING)



TYPICAL FLOOR PLAN

DRG. NO | S-SO-3D

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO. S/SN/E/100
2. ALL DIMENSIONS ARE IN mm.
3. RENF GRADE Fe-500.
4. CONC MIX -M30

NOTE ON CLEAR DEPTHS OF COLUMNS

1. H= IS CLEAR COLUMN HEIGHT
2. Ld IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) H/24
   c) 450mm
3. FOR DEVELOPMENT LENGTH Ld REFER GENERAL NOTES, REFER DRAWING NO. S/SN/E/100 AND Fe-500
4. MINIMUM 4 NOS OF BARS SHALL BE PROVIDED AT ONE SECTION
5. 1C - TIES AS PER COLUMN SCHEDULE
   S1 - 4L @100 C/C (INNER TIES)
   S2 - @100 C/C (OUTER TIES)

BUILDING HAS BEEN DESIGN 2BASEMENT+GROUND+14TH STOREY

NO	DESCRIPTION	DATE	REV.
04	G.F.C	28.04.2016	R0

REVISION

PROJECT :-

PROJECT TITLE :-

PROPOSED GROUP HOUSING AT PLOT A1 PHASE-1, NO.1124, 1126, 1128, 1140, 1142, 1144, 1146, M-1154, 1156, 1158, 1160, 1162, 1164, 1166, 1168, 1170, 1172, 1174, 1176, 1178, 1180, 1182, 1184, 1186, 1188, 1190, HOUSING BOARD AREA AT SECTOR-16, VAISHALI, SAHIBABAD (SYNOUR PARK) MODI NAGAR, GHAZIABAD (U.P.)

TITLE :-

COLUMN SCHEDULE 2ND FLOOR LVL TO 4TH FLOOR LVL BLOCK-1&2 PART-C1

ARCHITECTS :-

DEEPAK MEHTA AND ASSOCIATES

SCALE	N.T.S.
DATE	28.04.2016
DRAWN BY	NEGI
DESIGNED BY	MANI
CHECKED BY	RAJEEMAR

CONSULTANTS :-

OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.
B-24, SECTOR-67, NOIDA-201301
Phone :-0120-6452668
Email :- info@optimumdesign.in
Website :-www.optimumdesign.in

COLUMN SCHEDULE GROUND FLOOR ROOF TO 2nd FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	4-32ϕ(b)+6-25ϕ	4-32ϕ(b)+6-20ϕ	8-32ϕ(b)+4-25ϕ	10-20ϕ	6-32ϕ(b)+4-25ϕ	10-25ϕ	4-25ϕ(b)+10-16ϕ	4-25ϕ(b)+8-16ϕ	10-20ϕ	12-25ϕ	4-25ϕ(b)+8-20ϕ
SIZE	300X750	300X750	300X750	300X750	300X715	300X715	300X1085	300X955	300X830	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (3 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (3 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (3 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (3 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (3 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (3 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)
SHAPE											
COL/SW NO.	C1	C2	C3	C4	C5	C5A	C6	C7	C8	C10	C11

SHEAR WALL GROUND FLOOR ROOF TO 2nd FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES							
MAIN BARS	4-32ϕ(b)+10-25ϕ	12-25ϕ(b)+4-20ϕ	12-25ϕ	12-25ϕ(b)+4-20ϕ	8-20ϕ(b)+14-16ϕ	8-25ϕ(b)+16-16ϕ	12-25ϕ(b)+10-20ϕ
SIZE	230X1200	230X1355	230X1000	230X1255	230X1750	230X1900	230X1700
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (7 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (7 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (7 sets)
SHAPE							
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW5A

COLUMN SCHEDULE GROUND FLOOR ROOF TO 2nd FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30
TIES	
MAIN BARS	8-25ϕ(b)+4-16ϕ
SIZE	230X1000
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)
SHAPE	
COL/SW NO.	C11A

SHEAR WALL GROUND FLOOR ROOF TO 2nd FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30
TIES		
MAIN BARS	12-25ϕ(b)+6-20ϕ	12-25ϕ(b)+8-20ϕ
SIZE	230X1490	230X1500
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (6 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (6 sets)
SHAPE		
COL/SW NO.	SW7	SW8

	C.MIX M-30	TIES
MAIN BARS	10-25ϕ(b)+8-20ϕ(c)+10-16ϕ	
SIZE	AS/PLAN	
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (9 sets)	
SHAPE		
COL/SW NO.	SW9	

BUILDING HAS BEEN DESIGN
2 BASEMENT+GROUND+14TH STOREY

NOTE ON CURTAILMENT DETAILS OF COLUMNS

1. He IS CLEAR COLUMN HEIGHT.
2. Lo IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) Hc/6
   c) 450mm
3. S2 - TIES AS PER COLUMN SCHEDULE
   S1 - 8-ϕ @ 100 C/C
4. TIES SHALL BE SPACED AT 150mm C/C OR SPACING OF S2, WHICHEVER IS LESS OVER THE LAP LENGTH OF Lo IN SPLICE ZONE. DIAMETER AND NO OF SETS SHALL BE SAME AS S2.
5. DEVELOPMENT LENGTH 'Ld' SHALL BE 38 TIMES DIA OF BAR FOR CON. MIX - M-30
6. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION.

COLUMN TIES DETAIL

MANDATORY RA. FOOR DETAIL IN COLUMN BEAM STIRRUPS

TYP. DETAIL OF CROSS TIE AT TOP TIE ALONG WITH VERTICAL BAR

DETAIL OF HOOKS

TYPICAL DETAIL OF STIRRUP/TIES BENDING

STIRRUP

DETAIL - I (WHERE R <75mm)

DETAIL - II (WHERE R >75mm)

DETAIL - III (WHERE R >75mm)

DETAIL-X

SPLICING OF COLUMN / SHEAR WALL BARS AND REDUCTION OF SIZE
(TIES NOT SHOWN FOR CLARITY)

TYPICAL COLUMN DETAILS

DRG. NO	S-SO-2B

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115THK BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS.
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8ϕ@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.
2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS.PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CONTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING HAS BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO.
03/05/12		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115/1,116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1148/M.)IN KARHERA &(1/2,13,13/1/2)IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

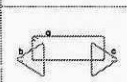
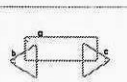
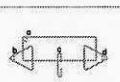
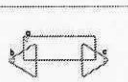
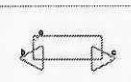
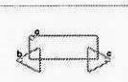
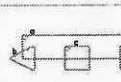
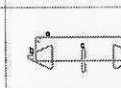
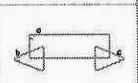
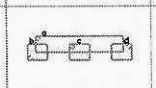
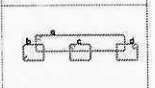
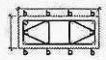
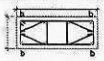
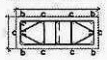
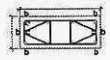
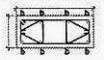
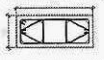
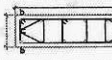
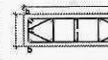
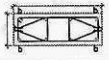
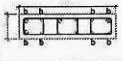
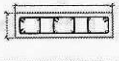
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COLUMN SCHEDULE GROUND FLOOR ROOF TO 2nd FLOOR ROOF LVL. BLOCK-C1

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

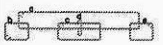
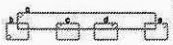
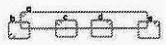
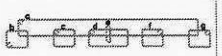
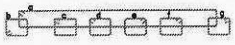
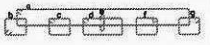
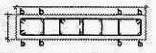
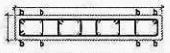
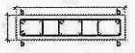
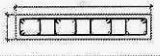
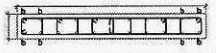
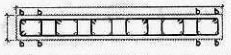
SCALE	N.T.S
DATE	03/05/12
DRAWN	CHITRA
CHECKED	RAJKUMAR

CONSULTANTS:-
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PHONE:-0120-6459888,9810207929,
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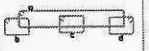
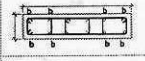
COLUMN SCHEDULE 2nd FLOOR ROOF TO 4th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	8-25ϕ(b)+2-20ϕ	4-25ϕ(b)+8-20ϕ	4-32ϕ(b)+6-25ϕ(c)+2-20ϕ	6-20ϕ(b)+4-16ϕ	8-25ϕ(b)+2-20ϕ	10-20ϕ	4-20ϕ(b)+10-16ϕ	4-20ϕ(b)+8-16ϕ	8-20ϕ(b)+4-16ϕ	8-25ϕ(b)+4-20ϕ	12-20ϕ
SIZE	300X750	300X750	300X750	300X750	300X715	300X715	300X1085	300X955	300X830	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (3 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (3 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (3 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (3 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (3 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (3 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)
SHAPE											
COL/SW NO.	C1	C2	C3	C4	C5	C5A	C6	C7	C8	C10	C11

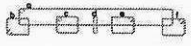
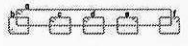
SHEAR WALL 2nd FLOOR ROOF TO 4th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES							
MAIN BARS	8-25ϕ(b)+6-20ϕ	8-25ϕ(b)+8-20ϕ	4-25ϕ(b)+8-20ϕ	16-20ϕ	8-20ϕ(b)+14-12ϕ	8-20ϕ(b)+16-12ϕ	12-20ϕ(b)+10-16ϕ
SIZE	230X1200	230X1355	230X1000	230X1255	230X1750	230X1900	230X1700
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (7 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (7 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (7 sets)
SHAPE							
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW5A

COLUMN SCHEDULE 2nd FLOOR ROOF
TO 4th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30
TIES	
MAIN BARS	8-25ϕ(b)+4-16ϕ
SIZE	230X1000
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)
SHAPE	
COL/SW NO.	C11A

SHEAR WALL 2nd FLOOR ROOF TO 4th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30
TIES		
MAIN BARS	12-20ϕ(b)+6-16ϕ	8-20ϕ(b)+12-16ϕ
SIZE	230X1490	230X1500
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (6 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (6 sets)
SHAPE		
COL/SW NO.	SW7	SW8

	C.MIX M-30	TIES
MAIN BARS	18-20ϕ(b)+10-16ϕ	
SIZE	AS/PLAN	
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (9 sets)	
SHAPE		
COL/SW NO.	SW9	

BUILDING HAS BEEN DESIGN
2BASEMENT+GROUND+14TH STOREY

NOTE ON CURTAILMENT DETAILS OF COLUMNS

1. He IS CLEAR COLUMN HEIGHT.
2. Lo IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) He/6
   c) 450mm
3. S2 – TIES AS PER COLUMN SCHEDULE
   S1 – 8ϕ@ 100 C/C
4. TIES SHALL BE SPACED AT 150mmC/C OR SPACING OF S2 WHICHEVER IS LESS OVER THE LAP LENGTH OF Ld IN SPLICE ZONE. DIAMETER AND NO OF SETS SHALL BE SAME AS S2
5. DEVELOPMENT LENGTH 'Ld' SHALL BE 38 TIMES DIA OF BAR FOR CON. M.R.–M–30
6. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION.

COLUMN TIES DETAIL

MANDATORY I.S. CODE DETAIL IN COLUMN / BEAM STIRRUPS

TYP. DETAIL OF CROSS TIES/TIES IF ALONG WITH VERTICAL BAR.

DETAIL OF HOOKS

TYPICAL DETAIL OF STIRRUP/TIES BENDING

DETAIL - I (WHERE R <750mm)
DETAIL - II (WHERE R =750mm)
DETAIL - III (WHERE R >750mm)
DETAIL-X
SPLICING OF COLUMN / SHEAR WALL BARS AND REDUCTION OF SIZE
(TIES NOT SHOWN FOR CLARITY)

TYPICAL COLUMN DETAILS

DRG. NO	S-SO-2C

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115TH. BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 8MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS PER IS-1786.
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH IS-456.
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS.
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND LAYER.
2.9 PROVIDE 8ϕ@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.

2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE CASTING.
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO.
03/05/12		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115, 1116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M,)IN KARHERA &(1/2,13,13,1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR, GHAZIABAD (U.P.)

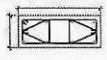
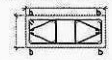
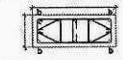
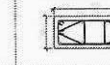
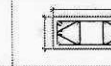
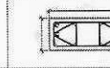
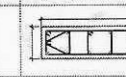
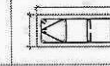
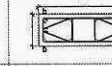
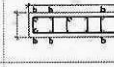
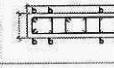
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COLUMN SCHEDULE 2nd FLOOR ROOF TO 4th FLOOR ROOF LVL. BLOCK-C1

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

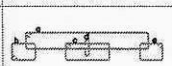
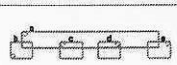
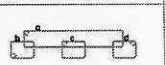
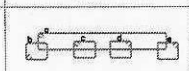
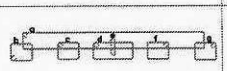
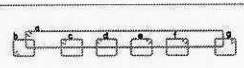
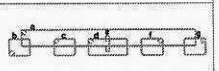
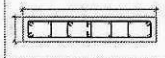
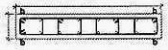
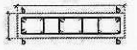
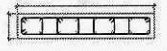
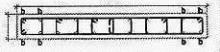
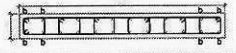
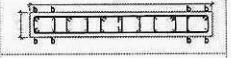
SCALE	N.T.S
DATE	03/05/12
DRAWN	CHITRA
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS
2C/335,VASUNDHARA,GHAZIABAD–201012
PHONE:–0120–6459868,9810207929,
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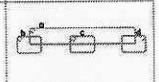
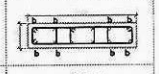
COLUMN SCHEDULE 4th FLOOR ROOF TO 6th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	10–20ϕ	4–20ϕ(b)+6–16ϕ	4–25ϕ(b)+8–20ϕ	10–16ϕ	10–20ϕ	10–16ϕ	14–16ϕ	12–16ϕ	4–20ϕ(b)+6–16ϕ	8–20ϕ(b)+4–16ϕ	8–20ϕ(b)+4–16ϕ
SIZE	300X750	300X750	300X750	300X750	300X715	300X715	300X1085	300X955	300X830	230X900	230X900
TIES (S2,ZONE)	OUTER TIES–10ϕ@150c/c INNER TIES–8ϕ@150c/c (3 sets)	OUTER TIES–10ϕ@150c/c INNER TIES–8ϕ@150c/c (3 sets)	OUTER TIES–10ϕ@150c/c INNER TIES–8ϕ@150c/c (4 sets)	OUTER TIES–10ϕ@150c/c INNER TIES–8ϕ@150c/c (3 sets)	OUTER TIES–10ϕ@150c/c INNER TIES–8ϕ@150c/c (3 sets)	OUTER TIES–10ϕ@150c/c INNER TIES–8ϕ@150c/c (3 sets)	OUTER TIES–10ϕ@150c/c INNER TIES–8ϕ@150c/c (4 sets)	OUTER TIES–10ϕ@150c/c INNER TIES–8ϕ@150c/c (4 sets)	OUTER TIES–10ϕ@150c/c INNER TIES–8ϕ@150c/c (3 sets)	OUTER TIES–10ϕ@115c/c INNER TIES–8ϕ@115c/c (4 sets)	OUTER TIES–10ϕ@115c/c INNER TIES–8ϕ@115c/c (4 sets)
SHAPE											
COL/SW NO.	C1	C2	C3	C4	C5	C5A	C6	C7	C8	C10	C11

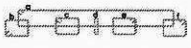
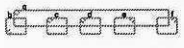
SHEAR WALL 4th FLOOR ROOF TO 6th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES							
MAIN BARS	14–20ϕ	4–20ϕ(b)+12–16ϕ	4–20ϕ(b)+8–16ϕ	16–16ϕ	8–20ϕ(b)+14–12ϕ	8–20ϕ(b)+16–12ϕ	8–20ϕ(b)+14–16ϕ
SIZE	230X1200	230X1355	230X1000	230X1255	230X1750	230X1900	230X1700
TIES (S2,ZONE)	OUTER TIES–10ϕ@115c/c INNER TIES–8ϕ@115c/c (5 sets)	OUTER TIES–10ϕ@115c/c INNER TIES–8ϕ@115c/c (5 sets)	OUTER TIES–10ϕ@115c/c INNER TIES–8ϕ@115c/c (4 sets)	OUTER TIES–10ϕ@115c/c INNER TIES–8ϕ@115c/c (5 sets)	OUTER TIES–10ϕ@115c/c INNER TIES–8ϕ@115c/c (7 sets)	OUTER TIES–10ϕ@115c/c INNER TIES–8ϕ@115c/c (7 sets)	OUTER TIES–10ϕ@115c/c INNER TIES–8ϕ@115c/c (7 sets)
SHAPE							
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW5A

COLUMN SCHEDULE 4th FLOOR ROOF TO 6th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30
TIES	
MAIN BARS	8–20ϕ(b)+4–16ϕ
SIZE	230X1000
TIES (S2,ZONE)	OUTER TIES–10ϕ@115c/c INNER TIES–8ϕ@115c/c (4 sets)
SHAPE	
COL/SW NO.	C11A

SHEAR WALL 4th FLOOR ROOF TO 6th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30
TIES		
MAIN BARS	8–20ϕ(b)+10–16ϕ	8–20ϕ(b)+12–12ϕ
SIZE	230X1490	230X1500
TIES (S2,ZONE)	OUTER TIES–10ϕ@115c/c INNER TIES–8ϕ@115c/c (6 sets)	OUTER TIES–10ϕ@115c/c INNER TIES–8ϕ@115c/c (6 sets)
SHAPE		
COL/SW NO.	SW7	SW8

	C.MIX M-30	TIES
MAIN BARS	18–20ϕ(b)+10–12ϕ	
SIZE	AS/PLAN	
TIES (S2,ZONE)	OUTER TIES–10ϕ@115c/c INNER TIES–8ϕ@115c/c (9 sets)	
SHAPE		
COL/SW NO.	SW9	

BUILDING HAS BEEN DESIGN
2BASEMENT+GROUND+14TH STOREY

NOTE ON CURTAILMENT DETAILS OF COLUMNS

1. Hc IS CLEAR COLUMN HEIGHT.
2. Lo IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) Hc/6
   c) 450mm
3. S2 – TIES AS PER COLUMN SCHEDULE
   S1 – 8ϕ@ 100 C/C
4. TIES SHALL BE SPACED AT 150mmC/C OR SPACING OF S2, WHICHEVER IS LESS OVER THE LAP LENGTH OF Ld IN SPLICE ZONE. DIAMETER AND NO. OF SETS SHALL BE SAME AS S2
5. DEVELOPMENT LENGTH Ld SHALL BE 30 TIMES DIA OF BAR FOR CON. MIX –M–30
6. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION

COLUMN TIES DETAIL

MANDATORY U/S LOOK DETAIL
(LOOKING TOWARDS LEFT)

TYP. DETAIL OF CROSS TIE BOTH THE LONGITUDINAL & VERTICAL BAR

DETAIL OF HOOKS

—STIRRUP

TYPICAL DETAIL OF STIRRUP/TIES BENDING

DETAIL - I

DETAIL - II

DETAIL - III

DETAIL-X

SPLICING OF COLUMN, SHEAR WALL BARS AND REDUCTION OF SIZE
(TIES NOT SHOWN FOR CLARITY)

TYPICAL COLUMN DETAILS

DRG. NO S-SO-2D

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115TH, BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM

2.2 GRADE OF CONCRETE SHALL BE GRADE M–30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe–415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M–30 CONCRETE SHALL BE 30D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8MM@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.

2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER–IN–CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN–HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC. SHALL BE AS PER PLUMBING DRAWINGS.PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CONTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO.
03/05/12		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115/1,116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M),IN KARHERA &(1/2,13,13,1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

TITLE:-
COLUMN SCHEDULE 4th FLOOR ROOF TO 6th FLOOR ROOF LVL. BLOCK-C1

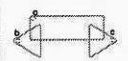
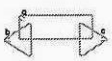
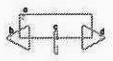
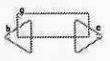
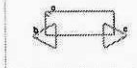
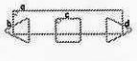
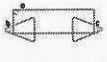
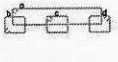
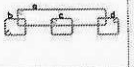
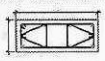
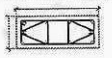
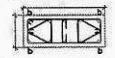
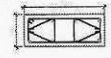
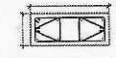
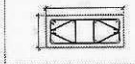
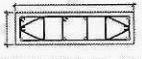
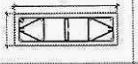
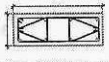
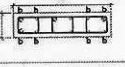
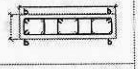
ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

SCALE	N.T.S
DATE	03/05/12
DRAWN	CHITRA
CHECKED	RAJKUMAR

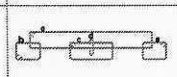
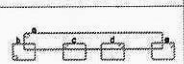
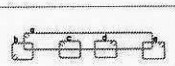
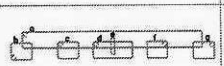
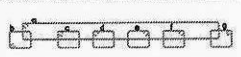
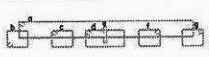
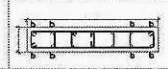
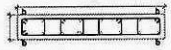
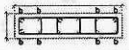
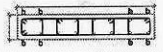
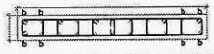
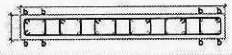
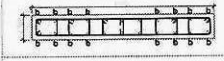
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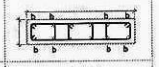
COLUMN SCHEDULE 6th FLOOR ROOF TO 8th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	10-16ø	10-16ø	4-20ø(b)+8-16ø	10-16ø	10-16ø	10-16ø	14-16ø	12-16ø	10-16ø	8-16ø(b)+4-12ø	4-20ø(b)+8-16ø
SIZE	300X750	300X750	300X750	300X750	300X715	300X715	300X1085	300X955	300X830	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE											
COL/SW NO.	C1	C2	C3	C4	C5	C5A	C6	C7	C8	C10	C11

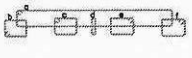
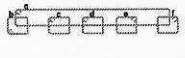
SHEAR WALL 6th FLOOR ROOF TO 8th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES							
MAIN BARS	8-20ø(b)+6-16ø	4-20ø(b)+12-16ø	8-16ø(b)+4-12ø	8-16ø(b)+8-12ø	8-16ø(b)+14-12ø	8-20ø(b)+16-12ø	16-16ø(b)+6-12ø
SIZE	230X1200	230X1355	230X1000	230X1255	230X1750	230X1900	230X1700
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)
SHAPE							
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW5A

COLUMN SCHEDULE 6th FLOOR ROOF
TO 8th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30
TIES	
MAIN BARS	8-20ø(b)+4-16ø
SIZE	230X1000
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE	
COL/SW NO.	C11A

SHEAR WALL 6th FLOOR ROOF TO 8th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30
TIES		
MAIN BARS	8-20ø(b)+10-12ø	8-20ø(b)+12-12ø
SIZE	230X1490	230X1500
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)
SHAPE		
COL/SW NO.	SW7	SW8

	C.MIX M-30	TIES
MAIN BARS	18-16ø(b)+10-12ø	
SIZE	AS/PLAN	
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (9 sets)	
SHAPE		
COL/SW NO.	SW9	

BUILDING HAS BEEN DESIGN
2 BASEMENT + GROUND + 14TH STOREY

NOTE: ON CURTAILMENT DETAILS OF COLUMNS

1. Hc IS CLEAR COLUMN HEIGHT
2. Lo IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) Hc/6
   c) 450mm
3. S2 = TIES AS PER COLUMN SCHEDULE
   S1 = 4 @ 100 C/C
4. TIES SHALL BE SPACED AT 150mmC/C OR SPACING OF S2, WHICHEVER IS LESS OVER THE LAP LENGTH OF Ld IN SPLICE ZONE. DIAMETER AND NO OF SETS SHALL BE SAME AS S2.
5. DEVELOPMENT LENGTH 'Ld' SHALL BE 38 TIMES DIA OF BAR FOR CON. MIX - M-30.
6. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION

COLUMN TIES DETAIL

MANDATORY USE HOOKS DETAIL (INCLUDE SEISMIC TIES)

TYP. DETAIL OF CROSS TIES AT TOP OF ALONG WITH VERTICAL BAR

DETAIL OF HOOKS

—STIRRUP

TYPICAL DETAIL OF
STIRRUP/TIES BENDING

DETAIL : I

DETAIL : II

DETAIL : III

SPLICING OF COLUMN / SHEAR WALL BARS AND REDUCTION OF SIZE
(TIES NOT SHOWN FOR CLARITY)

DETAIL-X

TYPICAL COLUMN DETAILS

DRG. NO S-SO-2E

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115TH, BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM

2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8ø@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE TIED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.

2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO.
06/08/12		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115,1116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M.)IN KARHERA &(1/2,13,13/1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

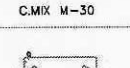
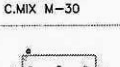
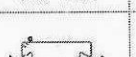
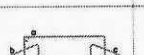
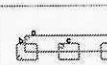
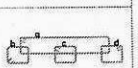
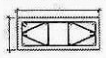
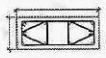
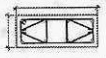
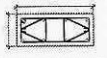
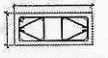
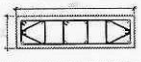
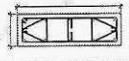
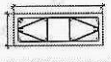
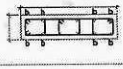
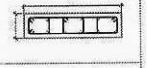
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ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

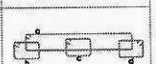
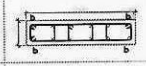
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DATE	06/08/12
DRAWN	CHITRA
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
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PHONE:-0120-6459868,9810207929,
email: optimumdesign@rediffmail.com

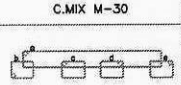
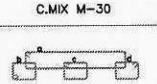
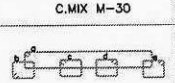
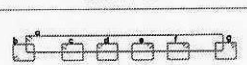
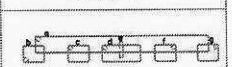
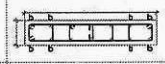
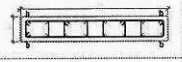
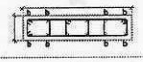
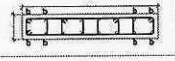
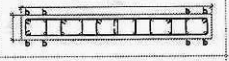
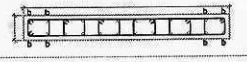
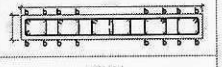
COLUMN SCHEDULE 8th FLOOR ROOF TO 10th FLOOR ROOF LVL.
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	10–16ø	10–16ø	12–16ø	10–16ø	10–16ø	10–16ø	14–16ø	12–16ø	10–16ø	8–16ø(b)+4–12ø	12–16ø
SIZE	300X750	300X750	300X750	300X750	300X715	300X715	300X1085	300X955	300X830	230X900	230X900
TIES (S2,ZONE)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (3 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (3 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (4 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (3 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (3 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (3 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (4 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (4 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (3 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (4 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (4 sets)
SHAPE											
COL/SW NO.	C1	C2	C3	C4	C5	C5A	C6	C7	C8	C10	C11

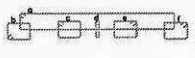
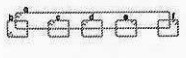
COLUMN SCHEDULE 8th FLOOR ROOF
TO 10th FLOOR ROOF LVL.
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30
TIES	
MAIN BARS	4–20ø(b)+8–16ø
SIZE	230X1000
TIES (S2,ZONE)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (4 sets)
SHAPE	
COL/SW NO.	C11A

SHEAR WALL 8th FLOOR ROOF TO 10th FLOOR ROOF LVL.
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES							
MAIN BARS	8–20ø(b)+6–16ø	4–20ø(b)+12–16ø	8–16ø(b)+4–12ø	8–16ø(b)+8–12ø	8–16ø(b)+14–12ø	8–16ø(b)+16–12ø	16–16ø(b)+6–12ø
SIZE	230X1200	230X1355	230X1000	230X1255	230X1750	230X1900	230X1700
TIES (S2,ZONE)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (5 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (5 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (4 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (5 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (7 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (7 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (7 sets)
SHAPE							
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW5A

SHEAR WALL 8th FLOOR ROOF TO 10th FLOOR ROOF LVL.
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30
TIES		
MAIN BARS	8–16ø(b)+10–12ø	8–16ø(b)+12–12ø
SIZE	230X1490	230X1500
TIES (S2,ZONE)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (6 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (6 sets)
SHAPE		
COL/SW NO.	SW7	SW8

	C.MIX M-30	TIES
MAIN BARS	18–16ø(b)+10–12ø	
SIZE	AS/PLAN	
TIES (S2,ZONE)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (9 sets)	
SHAPE		
COL/SW NO.	SW9	

DETAIL OF HOOKS

—STIRRUP

TYPICAL DETAIL OF
STIRRUP/TIES BENDING

DETAIL : I
(WHERE R <75mm)

DETAIL : II
(WHERE R >75mm)

DETAIL : III
(WHERE R >75mm)

SPLICING OF COLUMN / SHEAR WALL BARS AND REDUCTION OF SIZE
(TIES NOT SHOWN FOR CLARITY)

DETAIL-X

TYPICAL COLUMN DETAILS

BUILDING HAS BEEN DESIGN
2BASEMENT+GROUND+14TH STOREY

NOTE ON CURTAILMENT DETAILS OF COLUMNS

1. He IS CLEAR COLUMN HEIGHT
2. Lo IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) He/6
   c) 450mm
3. S2 – TIES AS PER COLUMN SCHEDULE
   S1 – 8@ 100 C/C
4. TIES SHALL BE SPACED AT 150mmC/C OR SPACING OF S2, WHICHEVER IS LESS OVER THE LAP LENGTH OF Ld IN SPLICE ZONE. DIAMETER AND NO OF SETS SHALL BE SAME AS S2
5. DEVELOPMENT LENGTH 'Ld' SHALL BE 38 TIMES DIA OF BAR FOR FOR CON. M#—M-30
6. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION

COLUMN TIES DETAIL

MANDATORY USE HOOKS DETAIL IN COLUMN BEAM STIRRUPS

TYP DETAIL OF CROSS TIES/CTIE DEALING WITH VERTICAL BAR

DRG. NO	S-SO-2F

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115th, BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB——————20MM
R.C.C.WALL——————25MM
BEAMS——————25MM
COLUMNS——————40MM

2.2 GRADE OF CONCRETE SHALL BE GRADE M–30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe–415) TMT BARS AS ...
2.4 ALL THE R.C.C. WORK SHALL BE CARRED OUT IN ACCORDANCE ...
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M–30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND ...
2.9 PROVIDE 8ø@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLABS, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.

2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER–IN–CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN–HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE ...
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO.
06/08/12		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115/1,116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M,)IN KARHERA &(1/2,13,13/1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

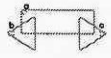
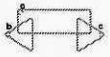
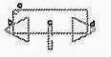
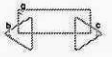
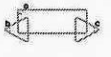
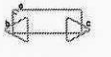
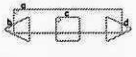
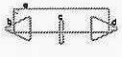
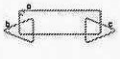
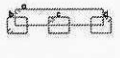
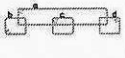
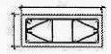
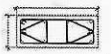
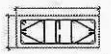
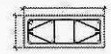
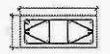
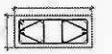
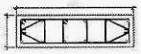
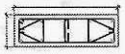
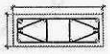
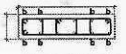
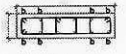
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ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

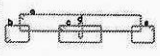
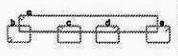
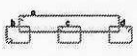
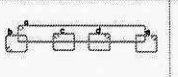
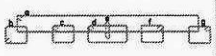
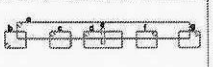
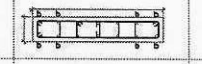
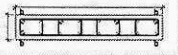
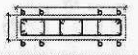
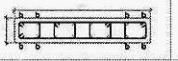
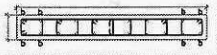
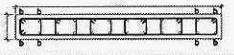
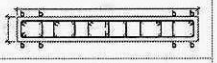
SCALE	N.T.S
DATE	06/08/12
DRAWN	CHITRA
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS
2C/335,VASUNDHARA,GHAZIABAD–201012
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email: optimumdesign@rediffmail.com

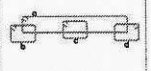
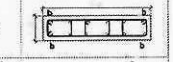
COLUMN SCHEDULE 10th FLOOR ROOF TO 12th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	10–16ø	10–16ø	12–16ø	10–16ø	10–16ø	10–16ø	14–16ø	12–16ø	10–16ø	8–16ø(b)+4–12ø	8–16ø(b)+4–12ø
SIZE	300X750	300X750	300X750	300X750	300X715	300X715	300X1085	300X955	300X830	230X900	230X900
TIES (S2,ZONE)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (3 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (3 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (4 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (3 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (3 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (3 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (4 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (4 sets)	OUTER TIES–10ø@150c/c INNER TIES–8ø@150c/c (3 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (4 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (4 sets)
SHAPE											
COL/SW NO.	C1	C2	C3	C4	C5	C5A	C6	C7	C8	C10	C11

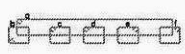
SHEAR WALL 10th FLOOR ROOF TO 12th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES							
MAIN BARS	8–20ø(b)+6–16ø	4–20ø(b)+12–16ø	8–16ø(b)+4–12ø	8–16ø(b)+8–12ø	8–16ø(b)+14–12ø	8–16ø(b)+16–12ø	8–16ø(b)+14–12ø
SIZE	230X1200	230X1355	230X1000	230X1255	230X1750	230X1900	230X1700
TIES (S2,ZONE)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (5 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (5 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (4 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (5 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (7 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (7 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (7 sets)
SHAPE							
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW5A

COLUMN SCHEDULE 10th FLOOR ROOF TO 12th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30
TIES	
MAIN BARS	4–20ø(b)+8–16ø
SIZE	230X1000
TIES (S2,ZONE)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (4 sets)
SHAPE	
COL/SW NO.	C11A

SHEAR WALL 10th FLOOR ROOF TO 12th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30
TIES		
MAIN BARS	8–16ø(b)+10–12ø	8–16ø(b)+12–12ø
SIZE	230X1490	230X1500
TIES (S2,ZONE)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (6 sets)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (6 sets)
SHAPE		
COL/SW NO.	SW7	SW8

	C.MIX M-30	TIES
MAIN BARS	18–16ø(b)+10–12ø	
SIZE	AS/PLAN	
TIES (S2,ZONE)	OUTER TIES–10ø@115c/c INNER TIES–8ø@115c/c (9 sets)	
SHAPE		
COL/SW NO.	SW9	

NOTE ON CURTAILMENT DETAILS OF COLUMNS

1. Hc IS CLEAR COLUMN HEIGHT
2. Lo IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) Hc/6
   c) 450mm
3. S2 – TIES AS PER COLUMN SCHEDULE
   S1 – 8 ϕ @ 100 C/C
4. TIES SHALL BE SPACED AT 150mmC/C OR SPACING OF S2, WHICHEVER IS LESS OVER THE LAP LENGTH OF Ld IN SPLICE ZONE. DIAMETER AND NO OF SETS SHALL BE SAME AS S2.
5. DEVELOPMENT LENGTH 'Ld' SHALL BE 38 TIMES DIA OF BAR FOR CON. MIX –M–30
6. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION.

BUILDING HAS BEEN DESIGN
(BASEMENT+GROUND+14TH STOREY)

COLUMN TIES DETAIL

MANDATORY U.C. HOOK DETAIL IN COLUMN / BEAM STIRRUPS

TYP. DETAIL OF CROSS TIE OVER THE ALONG WITH VERTICAL BAR

DETAIL OF HOOKS

TYPICAL DETAIL OF STIRRUP/TIES BENDING

DETAIL : I (WHERE R =75mm)

DETAIL : II (WHERE R =75mm)

DETAIL : III (WHERE R >75mm)

SPLICING OF COLUMN / SHEAR WALL BARS AND REDUCTION OF SIZE (TIES NOT SHOWN FOR CLARITY)

DETAIL-X

TYPICAL COLUMN DETAILS

DRG. NO	S-SO-2G

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115M, BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 8MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe–415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS.
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M–30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8ø@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.

2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER–IN–CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN–HOLE , SLAB STEEL LADDR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING HAVE BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO.
06/08/12		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115,1116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M,)IN KARHERA &(1/2,13,13,1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

TITLE:-
COLUMN SCHEDULE 10th FLOOR ROOF TO 12th FLOOR ROOF LVL. BLOCK-C1

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

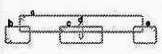
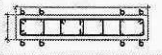
SCALE	N.T.S
DATE	06/08/12
DRAWN	CHITRA
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS
2C/335,VASUNDHARA,GHAZIABAD–201012
PHONE:–0120–6459858,9810207929,
email: optimumdesign@rediffmail.com

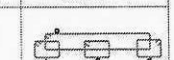
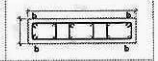
COLUMN SCHEDULE 12th FLOOR ROOF TO TERRACE LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	10-16ø	10-16ø	12-16ø	10-16ø	10-16ø	10-16ø	14-16ø	12-16ø	10-16ø	8-16ø(b)+4-12ø	8-16ø(b)+4-12ø
SIZE	300X750	300X750	300X750	300X750	300X715	300X715	300X1085	300X955	300X830	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE											
COL/SW NO.	C1	C2	C3	C4	C5	C5A	C6	C7	C8	C10	C11

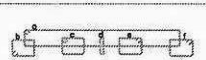
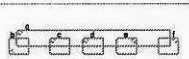
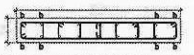
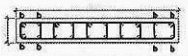
SHEAR WALL 12th FLOOR ROOF TO TERRACE LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

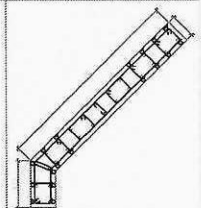
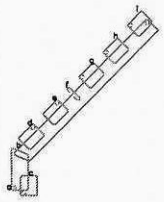
	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES							
MAIN BARS	8-20ø(b)+6-16ø	4-20ø(b)+12-16ø	8-16ø(b)+4-12ø	8-16ø(b)+8-12ø	8-16ø(b)+14-12ø	8-16ø(b)+15-12ø	8-16ø(b)+14-12ø
SIZE	230X1200	230X1355	230X1000	230X1255	230X1750	230X1900	230X1700
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)
SHAPE							
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW5A

COLUMN SCHEDULE 12th FLOOR ROOF TO TERRACE LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30
TIES	
MAIN BARS	4-20ø(b)+8-16ø
SIZE	230X1000
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE	
COL/SW NO.	C11A

SHEAR WALL 12th FLOOR ROOF TO TERRACE LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

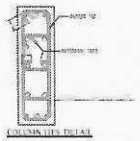
	C.MIX M-30	C.MIX M-30
TIES		
MAIN BARS	8-16ø(b)+10-12ø	8-16ø(b)+12-12ø
SIZE	230X1490	230X1500
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)
SHAPE		
COL/SW NO.	SW7	SW8

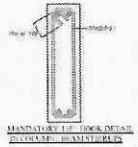
	C.MIX M-30	TIES
MAIN BARS	18-16ø(b)+10-12ø	
SIZE	AS/PLAN	
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (9 sets)	
SHAPE		
COL/SW NO.	SW9	

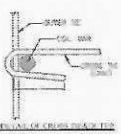
BUILDING HAS BEEN DESIGN
2BASEMENT+GROUND+14TH STOREY

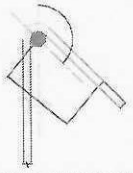
NOTE ON CURTAILMENT DETAILS OF COLUMNS

1. Hc IS CLEAR COLUMN HEIGHT
2. Lo IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) Hc/6
   c) 450mm
3. S2 - TIES AS PER COLUMN SCHEDULE
   S1 - 8ø@ 100 C/C
4. TIES SHALL BE SPACED AT 150mmC/C OR SPACING OF S2, WHICHEVER IS LESS OVER THE LAP LENGTH OF Ld IN SPLICE ZONE. DIAMETER AND NO OF SETS SHALL BE SAME AS S2
5. DEVELOPMENT LENGTH 'Ld' SHALL BE 38 TIMES DIA OF BAR FOR CON. MIX-M-30
6. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION


COLUMN TIES DETAIL


MANDATORY TIE FLOOR DETAIL IN COLUMN BEAM JUNCTION


TYP. DETAIL OF CROSS TIES OF TIE ALONG WITH VERTICAL BAR

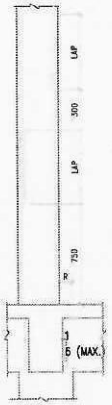

DETAIL OF HOOKS



TYPICAL DETAIL OF STIRRUP/TIES BENDING



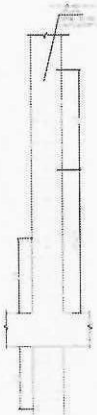
DETAIL - I



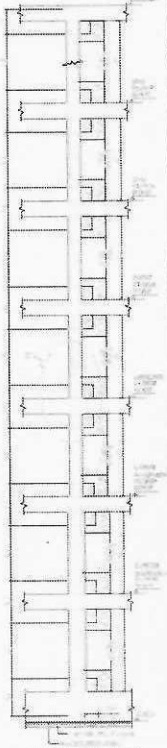
DETAIL - II



DETAIL III


DETAIL-X

SPLICING OF COLUMN / SHEAR WALL BARS AND REDUCTION OF SIZE
(TIES NOT SHOWN FOR CLARITY)


TYPICAL COLUMN DETAILS

DRG. NO | S-SO-2H

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115th, BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM

2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS PER IS1786
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH IS456
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND LAYER
2.9 PROVIDE 8ø@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE TIED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING HAS BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO
06/08/12		

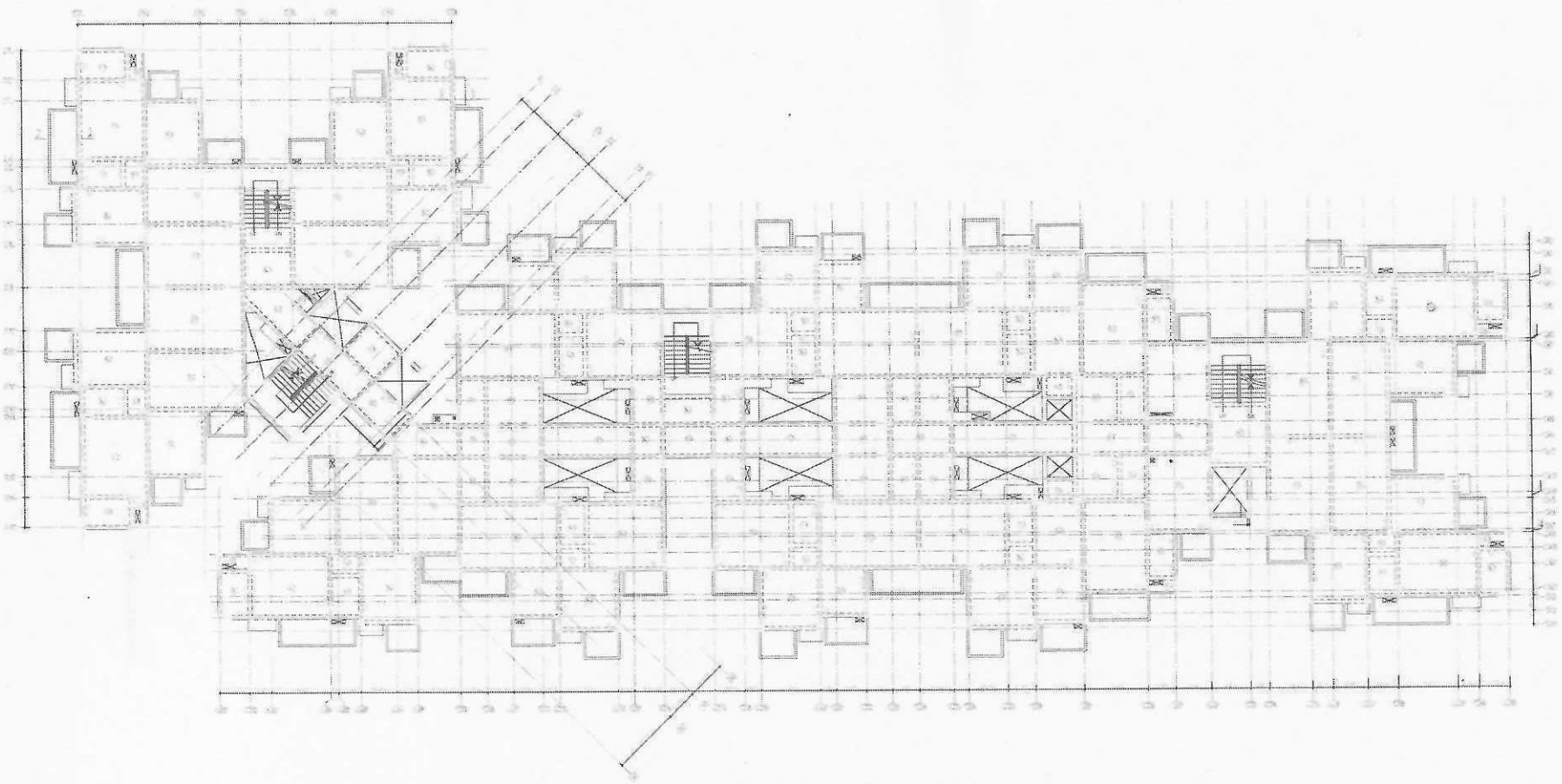
PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115/1,116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M,JIN KARHERA &(1/2,13,13,1/2)IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

TITLE:-
COLUMN SCHEDULE 12th FLOOR ROOF TO TERRACE LVL. BLOCK-C1

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

SCALE	N.T.S
DATE	06/08/12
DRAWN	CHITRA
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS
2C/335,VASUNDHARA,GHAZIABAD-201012
PHONE.-0120-6459868,9810207929,
email: optimumdesign@rediffmail.com



FRAMING PLAN TYPICAL FLOOR LVL
(BLOCK-C1)
ALL BEAM SIZE ARE (230X450) U.N.O.

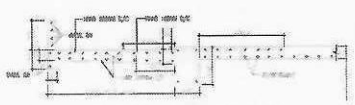
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1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL R.C.C BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115/4 BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR RUN

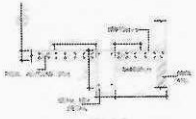
2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB ---------- 25mm
R.C.C.WALL ---------- 30mm
BEAMS ---------- 25mm
COLUMNS ---------- 40mm
2.2 GRADE OF CONCRETE SHALL BE GRADE M-25 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YIELD STRENGTH DEFORMED BARS (Fy-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH [Ld] INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-25 CONCRETE SHALL BE 41D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE EMBEDDED DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LATERL SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AS LEAST 1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.

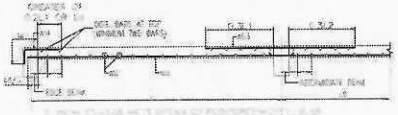
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2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTERING SUPPORTING CANTILEVERS, CANOPY OVERHANGS ETC MUST BE RETAINED TILL MAXIMUM DESIGNER WEIGHT OVER THE BEARING HAS BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

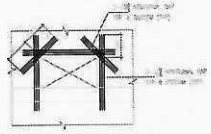
SCHEDULE OF SLAB

SLAB NO.	DEPTH	REINFORCEMENT	
		SHORTER SPAN	LONGER SPAN
S1	115	8# @ 150 C/C	8# @ 175 C/C
S2	115	8# @175 C/C	8# @ 200 C/C
S3	115	8# @200 C/C	8# @ 225 C/C

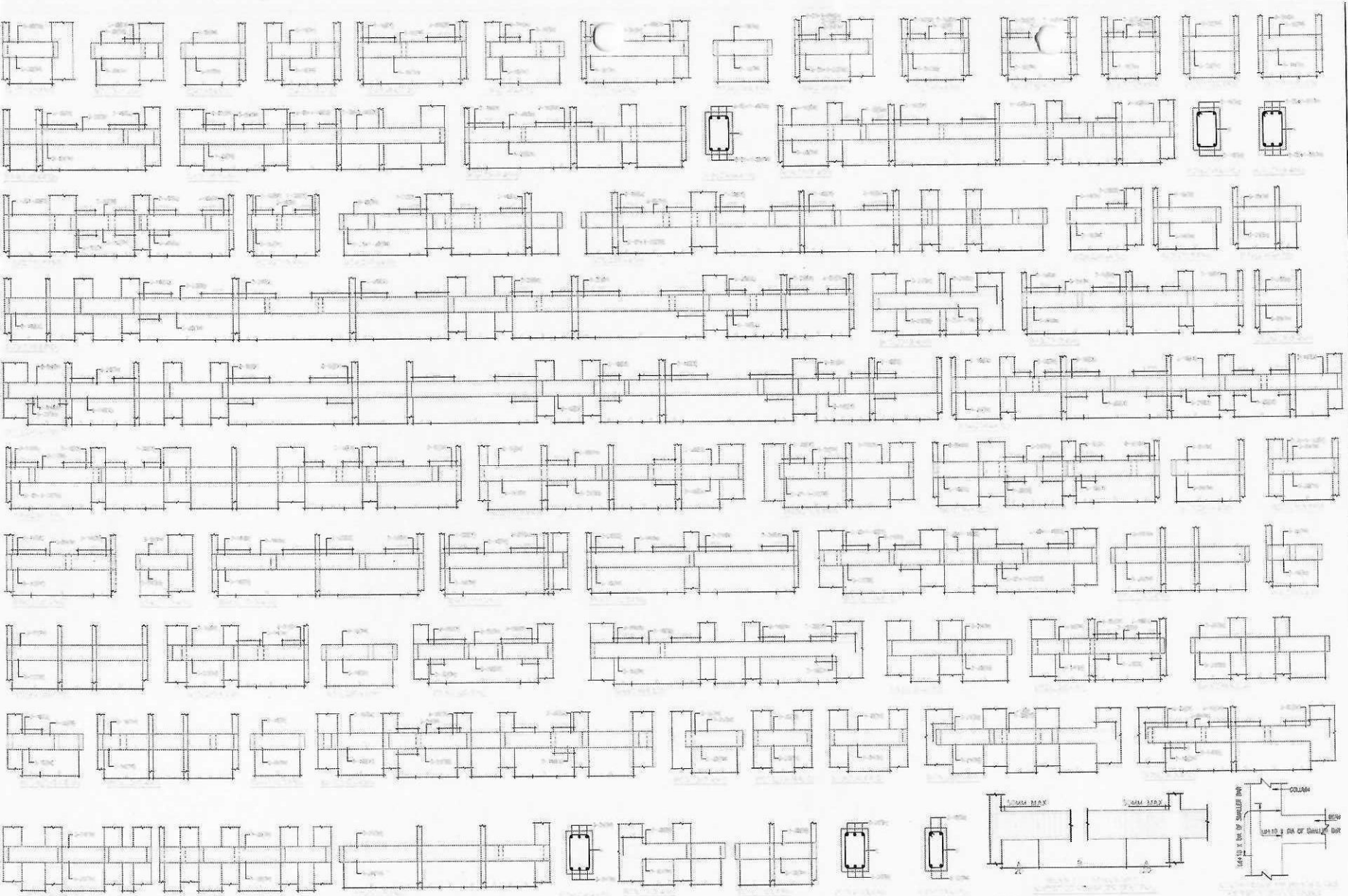








OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS



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1.8 ALL R.C.C./BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND).
1.9 HALF BRICK WORK 115MM BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTER 1:4(CEMENT, 4 COARSE SAND) AND ONE SQR RUN

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS.
SLAB---------------25MM
R.C.C.WALL---------20MM
BEAMS--------------25MM
COLUMNS------------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-25 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YIELD STRENGTH DEFORMED BARS (Fy-500) TMT BARS AS
2.4 ALL THE R.C.C WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) WHERE COLUMNS AT ENDS.
2.7 DEVELOPMENT LENGTHS FOR REINFORCEMENT STEEL BARS FOR GRADE M-25 CONCRETE SHALL BE 41D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8MMØ@300 C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER CHAIRS OF ADEQUATE SIZE OF BARS AS LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE TIED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.

2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINUOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF SWH-HOLE , SLAB STEEL, LADDER, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTERING SUPPORTING CANTILEVERS, CANOPY, CHHAJJAS ETC MUST BE RETAINED TILL MINIMUM COUNTER WEIGHT OVER THE BEAMING BEEN ATTAINED.
2.19 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE

A	2L-8ø-100C/C	C	2L-10ø-100C/C
B	2L-8ø-175C/C	D	2L-10ø-175C/C
E	2L-12ø-100C/C	F	2L-12ø-175C/C

DEVELOPMENT LENGTH

NOT LESS THAN 1/3 IN TENSION

SECONDARY BEAM (TYPE, NOT SHOWN)

SLOPE 1:6 (TYP.)

SECONDARY BEAM (TYPE, NOT SHOWN)

OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS

COLUMN SCHEDULE 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30		C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES														
MAIN BARS	12-20ø	12-16ø	4-25ø(b)+8-20ø	8-25ø(b)+4-20ø	8-25ø(b)+4-20ø	8-20ø(b)+8-12ø	4-32ø(b)+4-25ø(c)+4-20ø	8-25ø(b)+4-20ø	8-16ø(b)+8-12ø	8-20ø(b)+4-16ø	8-16ø(b)+4-12ø	8-20ø(b)+4-16ø	12-25ø	8-20ø(b)+4-16ø
SIZE	300X750	300X750	300X750	300X750	300X750	300X1065	230X980	230X965	300X1085	230X900	230X900	230X900	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE														
COL/SW NO.	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14

SHEAR WALL 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	8-16ø(b)+8-12ø	8-20ø(b)+8-16ø	8-20ø(b)+8-16ø	8-20ø(b)+10-16ø	8-25ø(b)+12-20ø	8-20ø(b)+12-12ø	8-20ø(b)+10-16ø	18-25ø	4-32ø(b)+10-25ø	4-20ø(b)+12-16ø	8-16ø(b)+8-12ø
SIZE	230X1200	230X1200	230X1200	230X1355	230X1500	230X1500	230X1355	230X1200	230X1115	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SHAPE											
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10	SW11

SHEAR WALL 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES								
MAIN BARS	8-20ø(b)+8-16ø	4-32ø(b)+8-25ø+2-16ø	8-20(b)+20-16ø(c)+12-12ø	24-16ø(b)+6-12ø	8-16ø(b)+8-12ø	8-20ø(b)+8-16ø	8-25ø(b)+8-20ø	18-20ø(b)+28-16ø
SIZE	230X1065	230X1095	230X3110	230X2360	230X1200	230X1200	230X1115	230X3270
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (11 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (9 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (12 sets)
SHAPE								
COL/SW NO.	SW12	SW13	SW14	SW15	SW16	SW17	SW18	SW19

SHEAR WALL 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES								
MAIN BARS	8-20ø(b)+16-16ø	8-20ø(b)+8-16ø	16-25ø	16-16ø	8-16ø(b)+8-12ø	12-32ø(b)+4-25ø	16-16ø	8-20ø(b)+8-16ø
SIZE	230X1870	230X1200	230X1200	230X1200	230X1200	230X1300	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SHAPE								
COL/SW NO.	SW20	SW21	SW22	SW23	SW24	SW25	SW26	SW27

COLUMN SCHEDULE 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30
TIES		
MAIN BARS	8-16ø(b)+4-12ø	12-16ø
SIZE	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE		
COL/SW NO.	C15	C16

DETAIL OF HOOKS

TYPICAL DETAIL OF STIRRUP/TIES BENDING

COLUMN TIES DETAIL

MANDATORY 135° HOOK DETAIL IN COLUMN BEAM STIRRUPS

TYP. DETAIL OF CROSS TIE & OUTER TIE ALONG WITH VERTICAL BAR

DETAIL I

DETAIL II

DETAIL III

SPLICING OF COLUMN, SHEAR WALL BARS AND REDUCTION OF SIZE

TYP. ALL FLOOR DETAILS

DRG. NO | S-SO-2B

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.8 HALF BRICK WORK 115thk. BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8MM@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS.PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS	NO
	REVISION	
28/01/14		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115,1116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M,JIN KARHERA &(1/2,13,13,1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

TITLE:-
COLUMN SCHEDULE AT 1st FLOR ROOF TO 3rd FLOOR ROOF LVL. BLOCK-D1(PART-1)

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

SCALE	N.T.S
DATE	28/01/14
DRAWN	NEGI
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS
2C/335,VASUNDHARA,GHAZIABAD-201012
PHONE:-0120-6459868,9810207929,
email: optimumdesign@rediffmail.com

COLUMN SCHEDULE 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL.
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30		C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES														
MAIN BARS	8-20ø(b)+4-16ø	8-16ø(b)+8-12ø	8-20ø(b)+8-16ø	8-20ø(b)+4-16ø	8-20ø(b)+4-16ø	8-16ø(b)+8-12ø	4-25ø(b)+8-20ø	12-20ø	8-16ø(b)+8-12ø	12-16ø	8-16ø(b)+4-12ø	4-20ø(b)+8-16ø	4-25ø(b)+8-20ø	12-16ø
SIZE	300X750	300X750	300X750	300X750	300X750	300X1085	230X980	230X985	300X1085	230X900	230X900	230X900	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE														
COL/SW NO.	C1	C2	C3	C4	C5	C6	C7	C7A	C8A	C8	C9	C10	C11	C12

SHEAR WALL 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL.
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-20ø(b)+8-16ø	15-16ø(b)+2-12ø	8-20ø(b)+12-16ø	8-16ø(b)+12-12ø	12-16ø(b)+8-12ø	8-25ø(b)+8-20ø	8-25ø(b)+8-20ø	16-16ø	8-16ø(b)+8-12ø
SIZE	230X1200	230X1200	230X1200	230X1355	230X1500	230X1500	230X1355	230X1200	230X1115	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SHAPE											
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10	SW11

SHEAR WALL 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL.
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES								
MAIN BARS	14-16ø	8-25ø(b)+8-16ø	8-20ø(b)+32-12ø	8-16ø(b)+22-12ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	14-20ø	8-16ø(b)+34-12ø
SIZE	230X1065	230X1095	230X3110	230X2360	230X1200	230X1200	230X1115	230X3270
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (11 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (9 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (12 sets)
SHAPE								
COL/SW NO.	SW12	SW13	SW14	SW15	SW16	SW17	SW18	SW19

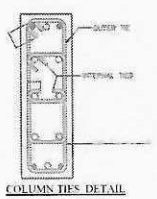
SHEAR WALL 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL.
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES								
MAIN BARS	8-16ø(b)+16-12ø	4-20ø(b)+12-16ø	4-25ø(b)+12-20ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-32ø(b)+4-25ø(c)+4-20ø	18-16ø	8-20ø(b)+8-16ø
SIZE	230X1870	230X1200	230X1200	230X1200	230X1200	230X1300	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SHAPE								
COL/SW NO.	SW26	SW27	SW28	SW29	SW30	SW31	SW32	SW33

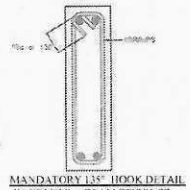
COLUMN SCHEDULE 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL.
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30
TIES		
MAIN BARS	4-16ø(b)+8-12ø	4-16ø(b)+8-12ø
SIZE	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE		
COL/SW NO.	C13	C14

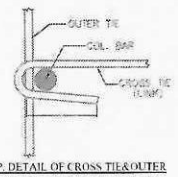
NOTE: NO LAP/SPLICE/MECHANICAL COUPLER SHALL BE PERMITTED WITHIN 600mm FROM BEAM-COLUMN JUNCTION.



COLUMN TIES DETAIL



MANDATORY 135° HOOK DETAIL IN COLUMN / BEAM STIRRUPS

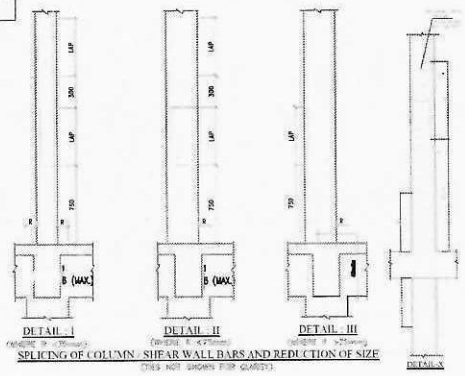


TYP. DETAIL OF CROSS TIE&OUTER TIE ALONG WITH VERTICAL BAR.


DETAIL OF HOOKS

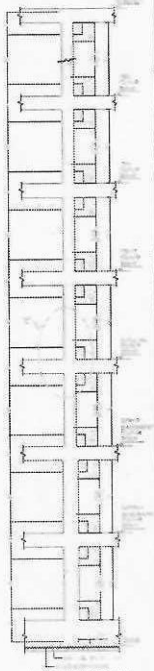


TYPICAL DETAIL OF STIRRUP/TIES BENDING



DETAIL - I | DETAIL - II | DETAIL - III | DETAIL-X

SPLICING OF COLUMN / SHEAR WALL BARS AND REDUCTION OF SIZE (THIS NOT SHOWN FOR CLARITY)


TYPICAL COLUMN DETAILS

DRG. NO | S-SO-2C

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115TH, BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8MM@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF 5MM) AT LEAST 1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO.
28/01/14		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115/1,1116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M,)IN KARHERA &(1/2,13,13/2)IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

TITLE:-
COLUMN SCHEDULE AT 3rd FLOR ROOF TO 5th FLOOR ROOF LVL. BLOCK-D1(PART-1)

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

SCALE	N.T.S
DATE	28/01/14
DRAWN	NEGI
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS
2C/335,VASUNDHARA,GHAZIABAD-201012
PHONE:-0120-6459858,9810207929,
email: optimumdesign@rediffmail.com

COLUMN SCHEDULE 5th FLOOR ROOF TO 7th FLOOR ROOF LVL
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES														
MAIN BARS	12-16ø	8-16ø(b)+6-12ø	12-16ø	8-16ø(b)+4-12ø	4-20ø(b)+8-16ø	4-16ø(b)+12-12ø	12-20ø	12-20ø	4-16ø(b)+12-16ø	4-16ø(b)+8-12ø	4-16ø(b)+8-12ø	4-20ø(b)+8-16ø	8-20ø(b)+4-16ø	8-16ø(b)+4-12ø
SIZE	300X750	300X750	300X750	300X750	300X750	300X1085	230X980	230X985	300X1085	230X900	230X900	230X900	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE														
COL/SW NO.	C1	C2	C3	C5	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16

SHEAR WALL 5th FLOOR ROOF TO 7th FLOOR ROOF LVL
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-20ø(b)+8-16ø	18-16ø(b)+2-12ø	16-16ø(b)+4-12ø	8-16ø(b)+12-12ø	12-16ø(b)+8-12ø	4-20ø(b)+12-16ø	8-20ø(b)+8-16ø	16-16ø	8-16ø(b)+8-12ø
SIZE	230X1200	230X1200	230X1355	230X1500	230X1500	230X1500	230X1355	230X1200	230X1115	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SHAPE											
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10	SW11

SHEAR WALL 5th FLOOR ROOF TO 7th FLOOR ROOF LVL
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES								
MAIN BARS	8-16ø(b)+8-12ø	12-16ø(b)+2-12ø	8-20ø(b)+32-12ø	8-16ø(b)+22-12ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	14-20ø	8-16ø(b)+34-12ø
SIZE	230X1095	230X1095	230X3110	230X2360	230X1200	230X1200	230X1115	230X3270
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (11 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (9 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (12 sets)
SHAPE								
COL/SW NO.	SW12	SW13	SW14	SW15	SW16	SW17	SW18	SW19

SHEAR WALL 5th FLOOR ROOF TO 7th FLOOR ROOF LVL
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES								
MAIN BARS	8-16ø(b)+16-12ø	4-20ø(b)+12-16ø	4-20ø(b)+12-16ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	12-25ø(b)+4-20ø	16-16ø	8-20ø(b)+8-16ø
SIZE	230X1870	230X1200	230X1200	230X1200	230X1200	230X1300	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SHAPE								
COL/SW NO.	SW20	SW21	SW22	SW23	SW24	SW25	SW26	SW27

COLUMN SCHEDULE 5th FLOOR ROOF TO 7th FLOOR ROOF LVL
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30
TIES		
MAIN BARS	4-16ø(b)+8-12ø	4-16ø(b)+8-12ø
SIZE	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE		
COL/SW NO.	C33	C34

DETAIL OF HOOKS

TYPICAL DETAIL OF STIRRUP/TIES BENDING

STIRRUP

BUILDING HAS BEEN DESIGN FOR BASEMENT+GROUND+14TH STOREY

COLUMN TIES DETAIL

MANDATORY 135° HOOK DETAIL IN COLUMN / BEAM STIRRUPS

TYP. DETAIL OF CROSS TIE&OUTER TIE ALONG WITH VERTICAL BAR

OUTER TIE
COL. BAR
CROSS TIE (LINK)

DETAIL - I

DETAIL - II

DETAIL - III

SPLICING OF COLUMN, SHEAR WALL BARS AND REDUCTION OF SIZE
(TIES NOT SHOWN FOR CLARITY)

DETAIL A

TYPICAL COLUMN DETAILS

DRG. NO	S-SO-2D

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115th, BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS PER IS:1786-1985.
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH IS:456-2000.
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND LAYER.
2.9 PROVIDE 8ø@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE CASTING.
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO
28/01/14		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115/1,116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M),IN KARHERA &(1/2,13,13,1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

TITLE:-
COLUMN SCHEDULE AT 5th FLOR ROOF TO 7th FLOOR ROOF LVL. BLOCK-D1 (PART-1)

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

SCALE	N.T.S
DATE	28/01/14
DRAWN	NEGI
CHECKED	RAJKUMAR

CONSULTANTS:-

OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS
2C/335,VASUNDHARA,GHAZIABAD-201012
PHONE:-0120-6459868,9810207929,
email: optimumdesign@rediffmail.com

COLUMN SCHEDULE 7th FLOOR ROOF TO 9th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES														
MAIN BARS	6-16ø(b)+6-12ø	6-16ø(b)+6-12ø	8-16ø(b)+4-12ø	8-16ø(b)+4-12ø	4-20ø(b)+8-16ø	4-16ø(b)+12-12ø	12-20ø	12-20ø	4-16ø(b)+12-16ø	4-16ø(b)+8-12ø	4-16ø(b)+8-12ø	4-20ø(b)+8-16ø	12-16ø	8-16ø(b)+4-12ø
SIZE	300X750	300X750	300X750	300X750	300X750	300X1085	230X980	230X885	300X1085	230X900	230X900	230X900	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE														
COL/SW NO.	C1	C2	C3	C4	C5	C6	C7	C7A	C8	C9	C10	C11	C12	C13

SHEAR WALL 7th FLOOR ROOF TO 9th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-20ø(b)+8-16ø	18-16ø(b)+2-12ø	8-16ø(b)+12-12ø	8-16ø(b)+12-12ø	12-16ø(b)+8-12ø	4-20ø(b)+12-16ø	12-16ø(b)+2-12ø	16-16ø	8-16ø(b)+8-12ø
SIZE	230X1200	230X1200	230X1200	230X1355	230X1500	230X1500	230X1355	230X1200	230X1115	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SHAPE											
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10	SW11

SHEAR WALL 7th FLOOR ROOF TO 9th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES								
MAIN BARS	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-20ø(b)+32-12ø	8-16ø(b)+22-12ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	14-20ø	8-16ø(b)+34-12ø
SIZE	230X1095	230X1095	230X3110	230X2360	230X1200	230X1200	230X1115	230X3270
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (11 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (9 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (12 sets)
SHAPE								
COL/SW NO.	SW12	SW13	SW14	SW15	SW16	SW17	SW18	SW19

SHEAR WALL 7th FLOOR ROOF TO 9th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

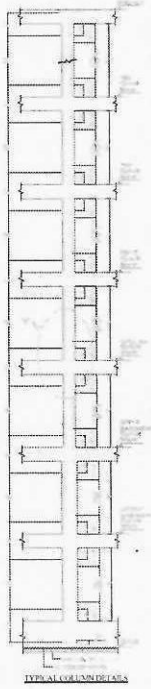
	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES								
MAIN BARS	8-16ø(b)+18-12ø	4-20ø(b)+12-16ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	16-20ø	18-16ø	8-20ø(b)+8-16ø
SIZE	230X1870	230X1200	230X1200	230X1200	230X1200	230X1300	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SHAPE								
COL/SW NO.	SW20	SW21	SW22	SW23	SW24	SW25	SW26	SW27

COLUMN SCHEDULE 7th FLOOR ROOF TO 9th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

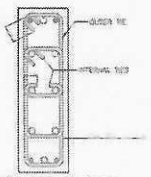
	C.MIX M-30	C.MIX M-30
TIES		
MAIN BARS	4-16ø(b)+8-12ø	4-16ø(b)+8-12ø
SIZE	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE		
COL/SW NO.	C13	C14

DETAIL OF HOOKS

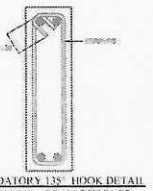
TYPICAL DETAIL OF STIRRUP/TIES BENDING



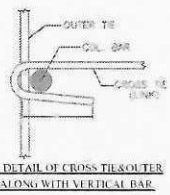
TYPICAL COLUMN DETAILS



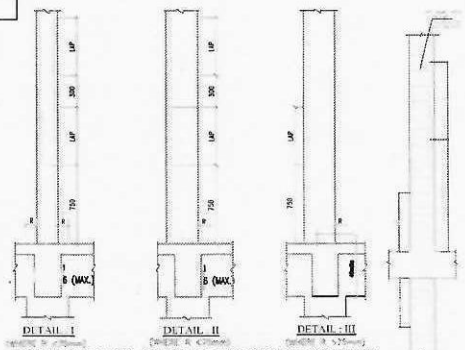
COLUMN TIES DETAIL



MANDATORY 135° HOOK DETAIL IN COLUMN - BEAM STIRRUPS



TYP. DETAIL OF CROSS TIE&OUTER TIE ALONG WITH VERTICAL BAR



DETAIL - I DETAIL - II DETAIL - III

SPLICING OF COLUMN / SHEAR WALL BARS AND REDUCTION OF SIZE

DRG. NO	S-SO-2E

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115th BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YELD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8M@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDER, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTERING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING HAS BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO.
28/01/14		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115/1,1116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M),IN KARHERA &(1/2,13,13,1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

TITLE:-
COLUMN SCHEDULE AT 7th FLOR ROOF TO 9th FLOOR ROOF LVL. BLOCK-DI (PART-1)

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

SCALE	N.T.S
DATE	28/01/14
DRAWN	NEGI
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS
2C/335,VASUNDHARA,GHAZIABAD-201012
PHONE:-0120-6459868,9810207929,
email: optimumdesign@rediffmail.com

COLUMN SCHEDULE 9th FLOOR ROOF TO 11th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES														
MAIN BARS	8-16ϕ(b)+8-12ϕ	8-16ϕ(b)+8-12ϕ	8-16ϕ(b)+4-12ϕ	8-16ϕ(b)+4-12ϕ	4-20ϕ(b)+8-16ϕ	4-16ϕ(b)+12-12ϕ	12-20ϕ	12-20ϕ	4-16ϕ(b)+12-16ϕ	4-16ϕ(b)+8-12ϕ	4-16ϕ(b)+8-12ϕ	12-16ϕ	8-16ϕ(b)+4-12ϕ	4-16ϕ(b)+8-12ϕ
SIZE	300X750	300X750	300X750	300X750	300X750	300X1085	230X980	230X985	300X1085	230X900	230X900	230X900	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)
SHAPE														
COL/SW NO.	C1	C2	C3	C4	C5	C6	C7	C7A	C8	C9	C10	C11	C12	C13

SHEAR WALL 9th FLOOR ROOF TO 11th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	8-16ϕ(b)+8-12ϕ	8-16ϕ(b)+8-12ϕ	8-20ϕ(b)+8-16ϕ	16-16ϕ(b)+2-12ϕ	8-16ϕ(b)+12-12ϕ	8-16ϕ(b)+12-12ϕ	12-16ϕ(b)+8-12ϕ	4-20ϕ(b)+12-16ϕ	12-16ϕ(b)+2-12ϕ	16-16ϕ	8-16ϕ(b)+8-12ϕ
SIZE	230X1200	230X1200	230X1200	230X1355	230X1500	230X1500	230X1355	230X1200	230X1115	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (6 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (6 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (6 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (6 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)
SHAPE											
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10	SW11

SHEAR WALL 9th FLOOR ROOF TO 11th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES								
MAIN BARS	8-16ϕ(b)+8-12ϕ	8-16ϕ(b)+8-12ϕ	8-20ϕ(b)+32-12ϕ	8-16ϕ(b)+22-12ϕ	8-16ϕ(b)+8-12ϕ	8-16ϕ(b)+8-12ϕ	14-20ϕ	8-16ϕ(b)+34-12ϕ
SIZE	230X1095	230X1095	230X3110	230X2360	230X1200	230X1200	230X1115	230X3270
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (11 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (9 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (12 sets)
SHAPE								
COL/SW NO.	SW12	SW13	SW14	SW15	SW16	SW17	SW18	SW19

SHEAR WALL 9th FLOOR ROOF TO 11th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES								
MAIN BARS	8-16ϕ(b)+16-12ϕ	4-20ϕ(b)+12-16ϕ	8-16ϕ(b)+8-12ϕ	8-16ϕ(b)+8-12ϕ	8-16ϕ(b)+8-12ϕ	16-20ϕ	16-16ϕ	8-20ϕ(b)+8-16ϕ
SIZE	230X1870	230X1200	230X1200	230X1200	230X1200	230X1300	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (7 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)
SHAPE								
COL/SW NO.	SW20	SW21	SW22	SW23	SW24	SW25	SW26	SW27

COLUMN SCHEDULE 9th FLOOR ROOF TO 11th FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30
TIES		
MAIN BARS	4-16ϕ(b)+8-12ϕ	4-16ϕ(b)+8-12ϕ
SIZE	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)
SHAPE		
COL/SW NO.	C27	C28

DETAIL OF HOOKS

TYPICAL DETAIL OF STIRRUP/TIES BENDING

STIRRUP

COLUMN TIES DETAIL

MANDATORY 135° HOOK DETAIL IN COLUMN / BEAM STIRRUPS

TYP. DETAIL OF CROSS TIE&OUTER TIE ALONG WITH VERTICAL BAR.

DETAIL I

DETAIL II

DETAIL III

SPLICING OF COLUMN, SHEAR WALL BARS AND REDUCTION OF SIZE

TYPICAL COLUMN DETAILS

DRG. NO	S-SO-2F

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND).
1.9 HALF BRICK WORK 115THL BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 8MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8MM@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF 8MM) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.

2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE.
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTERING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO
28/01/14		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2, 1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115,1116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M,)IN KARHERA &(1/2,13,13,1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

TITLE:-
COLUMN SCHEDULE AT 9th FLOR ROOF TO 11th FLOOR ROOF LVL. BLOCK-D1(PART-1)

ARCHITECTS:-
DEEPAK MEHT A AND ASSOCIATES

SCALE	N.T.S
DATE	28/01/14
DRAWN	NEGI
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS
2C/335,VASUNDHARA,GHAZIABAD-201012
PHONE:-0120-6459858,9810207929,
email: optimumdesign@rediffmail.com

COLUMN SCHEDULE 11th FLOOR ROOF TO TERRACE LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES														
MAIN BARS	8-16ϕ(b)+8-12ϕ	8-16ϕ(b)+8-12ϕ	8-16ϕ(b)+4-12ϕ	8-16ϕ(b)+4-12ϕ	4-20ϕ(b)+8-16ϕ	4-16ϕ(b)+12-12ϕ	12-20ϕ	12-20ϕ	4-16ϕ(b)+12-16ϕ	4-16ϕ(b)+8-12ϕ	4-16ϕ(b)+8-12ϕ	4-16ϕ(b)+8-12ϕ	8-16ϕ(b)+4-12ϕ	4-16ϕ(b)+8-12ϕ
SIZE	300X750	300X750	300X750	300X750	300X750	300X1085	230X980	230X985	300X1085	230X900	230X900	230X900	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@150c/c INNER TIES-8ϕ@150c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)
SHAPE														
COL/SW NO.	C1	C2	C3	C4	C5	C6	C7	C7A	C8	C9	C9A	C10	C11	C12

SHEAR WALL 11th FLOOR ROOF TO TERRACE LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	8-16ϕ(b)+8-12ϕ	8-16ϕ(b)+8-12ϕ	8-20ϕ(b)+8-16ϕ	16-16ϕ(b)+2-12ϕ	8-16ϕ(b)+12-12ϕ	8-16ϕ(b)+12-12ϕ	12-16ϕ(b)+8-12ϕ	4-20ϕ(b)+12-16ϕ	12-16ϕ(b)+2-12ϕ	16-16ϕ	8-16ϕ(b)+8-12ϕ
SIZE	230X1200	230X1200	230X1200	230X1355	230X1500	230X1500	230X1355	230X1200	230X1115	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (6 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (6 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (6 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (6 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)
SHAPE											
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8	SW9	SW10	SW11

SHEAR WALL 11th FLOOR ROOF TO TERRACE LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES								
MAIN BARS	8-16ϕ(b)+6-12ϕ	4-16ϕ(b)+10-12ϕ	8-20ϕ(b)+32-12ϕ	8-16ϕ(b)+22-12ϕ	8-16ϕ(b)+8-12ϕ	8-16ϕ(b)+8-12ϕ	14-20ϕ	8-16ϕ(b)+34-12ϕ
SIZE	230X1095	230X1095	230X3110	230X2360	230X1200	230X1200	230X1115	230X3270
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (11 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (9 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (12 sets)
SHAPE								
COL/SW NO.	SW12	SW13	SW14	SW15	SW16	SW17	SW18	SW19

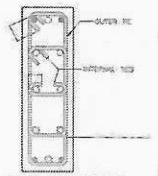
SHEAR WALL 11th FLOOR ROOF TO TERRACE LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

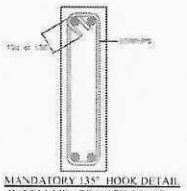
	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES								
MAIN BARS	8-16ϕ(b)+16-12ϕ	4-20ϕ(b)+12-16ϕ	8-16ϕ(b)+8-12ϕ	8-16ϕ(b)+8-12ϕ	8-16ϕ(b)+8-12ϕ	16-20ϕ	16-16ϕ	8-20ϕ(b)+8-16ϕ
SIZE	230X1870	230X1200	230X1200	230X1200	230X1200	230X1300	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (7 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (5 sets)
SHAPE								
COL/SW NO.	SW26	SW27	SW28	SW29	SW30	SW31	SW32	SW33

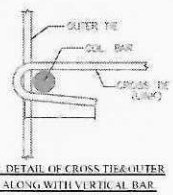
COLUMN SCHEDULE 11th FLOOR ROOF TO TERRACE LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30
TIES		
MAIN BARS	4-16ϕ(b)+8-12ϕ	4-16ϕ(b)+8-12ϕ
SIZE	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)	OUTER TIES-10ϕ@115c/c INNER TIES-8ϕ@115c/c (4 sets)
SHAPE		
COL/SW NO.	C13	C14

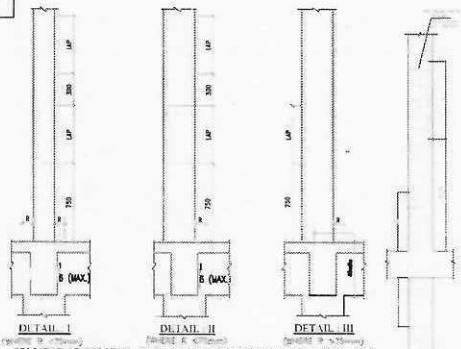
BUILDING HAS BEEN DESIGNED FOR BASEMENT+GROUND+4TH STOREY


COLUMN TIES DETAIL

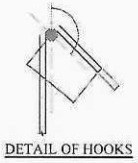

MANDATORY 135° HOOK DETAIL IN COLUMN / BEAM STIRRUPS



TYP. DETAIL OF CROSS TIE/OUTER TIE ALONG WITH VERTICAL BAR

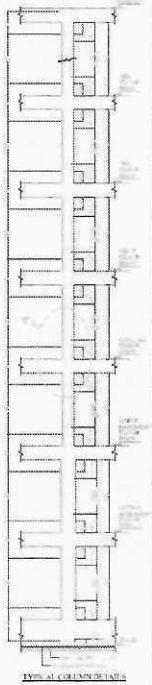


SPLICING OF COLUMN, SHEAR WALL BARS AND REDUCTION OF SIZE


DETAIL OF HOOKS



TYPICAL DETAIL OF STIRRUP/TIES BENDING


TYPICAL COLUMN DETAILS

DRG. NO	S-SO-2G

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115TH, BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8ϕ@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF 8ϕ) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE REMAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING HAS BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO
28/01/14		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115/1,116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M,)IN KARHERA &(1/2,13,13,1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR, GHAZIABAD (U.P.)

TITLE:-
COLUMN SCHEDULE AT 11th FLOR ROOF TO TERRACE LVL.
BLOCK-D1(PART-1)

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

SCALE	N.T.S
DATE	28/01/14
DRAWN	NEGI
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS
2C/335,VASUNDHARA,GHAZIABAD-201012
PHONE:-0120-6459868,9810207929,
email: optimumdesign@rediffmail.com

COLUMN SCHEDULE 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES														
MAIN BARS	10-20ø	10-16ø	10-20ø	10-25ø	14-20ø	10-20ø(b)+4-16ø	4-25ø(b)+6-20ø	8-32ø(b)+2-25ø	4-32ø(b)+6-25ø(c)+2-20ø	12-20ø	10-16ø(b)+4-12ø	8-16ø(b)+8-12ø	4-25ø(b)+5-20ø	8-16ø(b)+4-12ø
SIZE	300X900	230X900	300X750	300X750	300X750	300X750	300X715	300X715	300X715	300X830	300X955	300X1085	230X900	230X960
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE														
COL/SW NO.	C1	C1A	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13

COLUMN SCHEDULE 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES				
MAIN BARS	4-20ø(b)+6-16ø	4-20ø(b)+6-16ø	10-16ø	4-25ø(b)+6-20ø
SIZE	230X900	230X950	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE				
COL/SW NO.	C14	C12A	C15	C16

SHEAR WALL 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30		C.MIX M-30
TIES											
MAIN BARS	8-25ø(b)+6-20ø	4-25ø(b)+10-20ø	4-20ø(b)+10-16ø	8-16ø(b)+8-12ø	14-20ø	14-16ø	4-25ø(b)+10-20ø	14-20ø			
SIZE	230X1115	230X1095	230X1200	230X1200	230X1200	230X1200	230X1200	230X1200			
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)			
SHAPE											
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8			

SHEAR WALL 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

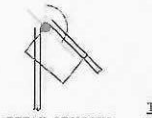
	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES											
MAIN BARS	8-20ø(b)+8-16ø	12-20ø(b)+4-16ø	12-16ø(b)+4-12ø	8-16-8(b)+4-12ø	8-20ø(b)+8-16ø	12-16ø(b)+8-12ø	8-16ø(b)+10-12ø	8-16ø(b)+10-12ø	8-20ø(b)+10-20ø	16-18ø(b)+8-12ø	
SIZE	230X1200	230X1255	230X1255	230X1000	230X1355	230X1460	230X1470	230X1500	230X1490	230X1700	
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	
SHAPE											
COL/SW NO.	SW9	SW10	SW11	SW12	SW13	SW14	SW15	SW16	SW17		

SHEAR WALL 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

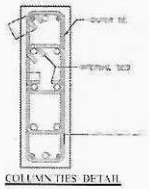
	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES						
MAIN BARS	16-16ø(b)+8-12ø	16-16ø(b)+8-12ø	12-16ø(b)+12-12ø	8-20ø(b)+22-16ø	8-20ø(b)+30-16ø	32-16ø(b)+10-12ø
SIZE	230X1750	230X1750	230X1870	230X2360	230X2960	230X3270
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (9 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (11 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (12 sets)
SHAPE						
COL/SW NO.	SW18	SW19	SW20	SW21	SW22	SW23

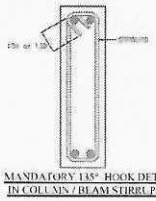
SHEAR WALL 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

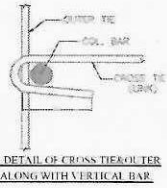
C.MIX M-30 TIES	C.MIX M-30	C.MIX M-30
10-20ø(b)+8-16ø		
AS/PLAN		
OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)		
	4-32ø(b)+12-25ø	4-25ø(b)+6-20ø
	230X1250	230X820
	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SW24	SW25	SW26

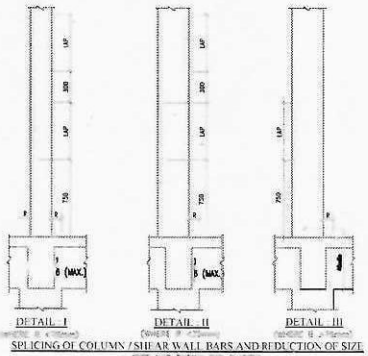

DETAIL OF HOOKS


TYPICAL DETAIL OF STIRRUP/TIES BENDING


COLUMN TIES DETAIL

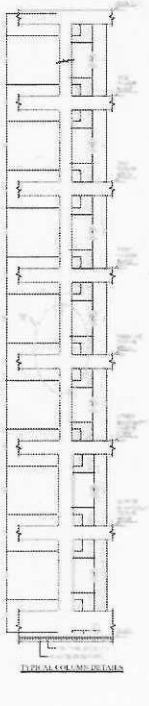

MANDATORY 135° HOOK DETAIL IN COLUMN / BEAM STIRRUPS


TYP. DETAIL OF CROSS TIE OUTER TIE ALONG WITH VERTICAL BAR


DETAIL I DETAIL II DETAIL III

SPLICING OF COLUMN / SHEAR WALL BARS AND REDUCTION OF SIZE (TIES NOT SHOWN FOR CLARITY)


DETAIL A


TYPICAL COLUMN DETAILS

DRG. NO	S-SO-2B

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE, LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115th, BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8MM@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO.
19/06/13		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO (1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115,1116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M,)IN KARHERA &(1/2,13,13,1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

TITLE:-
COLUMN SCHEDULE AT 1st FLOOR ROOF TO 3rd FLOOR ROOF LVL BLOCK-D1(PART-2)

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

SCALE	N.T.S
DATE	19/06/13
DRAWN	NEGI
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS

2C/335,VASUNDHARA,GHAZIABAD-201012
PHONE:-0120-6459868,9810207929,
email: optimumdesign@rediffmail.com

COLUMN SCHEDULE 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES														
MAIN BARS	10-16ø	10-16ø	10-16ø	10-20ø	10-16ø(b)+4-12ø	10-16ø(b)+4-12ø	4-20ø(b)+8-16ø	4-25ø(b)+8-20ø	12-20ø	8-16ø(b)+4-12ø	8-16ø(b)+8-12ø	4-16ø(b)+12-12ø	4-20ø(b)+8-16ø	4-16ø(b)+8-12ø
SIZE	300X900	230X900	300X750	300X750	300X750	300X750	300X715	300X715	300X715	300X830	300X955	300X1065	230X900	230X950
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (3 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE														
COL/SW NO.	C1	C1A	C2	C3	C4	C4A	C5	C6	C7	C8	C9	C9A	C10	C10A

COLUMN SCHEDULE 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES				
MAIN BARS	10-16ø	10-16ø	10-16ø	4-20ø(b)+8-16ø
SIZE	230X900	230X960	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE				
COL/SW NO.	C12	C12A	C11	C14

SHEAR WALL 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30		C.MIX M-30
TIES											
MAIN BARS	14-20ø	8-20ø(b)+8-16ø	14-16ø	8-16ø(b)+8-12ø	14-16ø	8-16ø(b)+8-12ø	14-20ø				
SIZE	230X1115	230X1095	230X1200	230X1200	230X1200	230X1200	230X1200	230X1200	230X1200		
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)				
SHAPE											
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW7				

SHEAR WALL 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES										
MAIN BARS	8-16ø(b)+8-12ø	12-16ø(b)+4-12ø	8-16ø(b)+8-12ø	8-16ø(b)+4-12ø	8-16ø(b)+8-12ø	12-16ø(b)+8-12ø	8-16ø(b)+10-12ø	8-16ø(b)+10-12ø	8-16ø(b)+10-12ø	8-16ø(b)+14-12ø
SIZE	230X1200	230X1255	230X1255	230X1000	230X1355	230X1460	230X1470	230X1500	230X1490	230X1700
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)
SHAPE										
COL/SW NO.	SW9	SW10	SW11	SW12	SW13A	SW13	SW14	SW15	SW16	SW17

SHEAR WALL 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

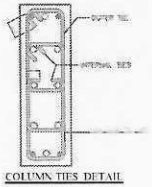
	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	
TIES						
MAIN BARS	8-16ø(b)+14-12ø	8-16ø(b)+14-12ø	8-16ø(b)+16-12ø	8-16ø(b)+22-12ø	8-16ø(b)+30-12ø	32-16ø(b)+10-12ø
SIZE	230X1750	230X1750	230X1870	230X2360	230X2960	230X3270
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (9 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (11 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (12 sets)
SHAPE						
COL/SW NO.	SW18	SW19	SW20	SW21	SW21A	SW22

SHEAR WALL 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

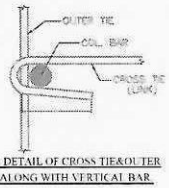
C.MIX M-30	TIES	C.MIX M-30	C.MIX M-30
10-16ø(b)+8-12ø			
AS/PLAN			
OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)			
		8-25ø(b)+8-20ø	10-20ø
		230X1250	230X820
		OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SW23		SW24	SW25

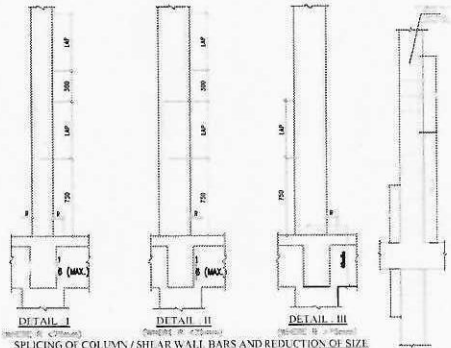

DETAIL OF HOOKS

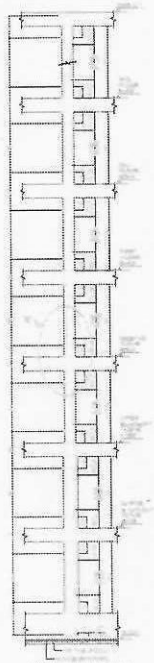

TYPICAL DETAIL OF STIRRUP/TIES BENDING


COLUMN TIES DETAIL


MANDATORY 135° HOOK DETAIL IN COLUMN / BEAM STIRRUPS


TYP. DETAIL OF CROSS TIE&OUTER TIE ALONG WITH VERTICAL BAR.


SPLICING OF COLUMN / SHEAR WALL BARS AND REDUCTION OF SIZE


TYPICAL COLUMN DETAILS

DRG. NO	S-SO-2C

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115TH, BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 8MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 32ø (ø IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8ø@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO.
19/06/13		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115,1116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M,)IN KARHERA &(1/2,13,13,1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

TITLE:-
COLUMN SCHEDULE AT 3rd FLOOR ROOF TO 5th FLOOR ROOF LVL. BLOCK-D1(PART-2)

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

SCALE	N.T.S
DATE	19/06/13
DRAWN	NEGI
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS

2C/335,VASUNDHARA,GHAZIABAD-201012
PHONE:-0120-6459868,9810207929,
email: optimumdesign@rediffmail.com

COLUMN SCHEDULE 5th FLOOR ROOF TO 7th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES														
MAIN BARS	10-16ø	10-16ø	10-16ø	10-20ø	10-16ø(b)+4-12ø	4-16ø(b)+10-12ø	10-16ø	6-20ø(b)+4-16ø	4-20ø(b)+8-16ø	8-16ø(b)+4-12ø	8-16ø(b)+6-12ø	4-16ø(b)+12-12ø	10-16ø	4-16ø(b)+8-12ø
SIZE	300X900	230X900	300X750	300X750	300X750	300X750	300X715	300X715	300X715	300X530	300X955	300X1085	230X900	230X960
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (3 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE														
COL/SW NO.	C1	C1A	C2	C3	C4	C4A	C5	C6	C7	C8	C9	C10	C11	C11A

COLUMN SCHEDULE 5th FLOOR ROOF TO 7th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES				
MAIN BARS	10-16ø	10-16ø	10-16ø	10-16ø
SIZE	230X900	230X960	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE				
COL/SW NO.	C12	C12A	C13	C14

SHEAR WALL 5th FLOOR ROOF TO 7th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30		C.MIX M-30
TIES								
MAIN BARS	8-20ø(b)+8-16ø	8-16ø(b)+8-12ø	14-16ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-16ø(b)+5-12ø	14-20ø
SIZE	230X1115	230X1095	230X1200	230X1200	230X1200	230X1200	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SHAPE								
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8

SHEAR WALL 5th FLOOR ROOF TO 7th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

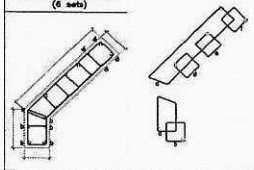
	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES										
MAIN BARS	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-16ø(b)+4-12ø	8-16ø(b)+8-12ø	12-16ø(b)+8-12ø	8-16ø(b)+10-12ø	8-16ø(b)+10-12ø	8-16ø(b)+10-12ø	8-16ø(b)+14-12ø
SIZE	230X1200	230X1255	230X1255	230X1000	230X1355	230X1460	230X1470	230X1500	230X1490	230X1700
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)
SHAPE										
COL/SW NO.	SW9	SW10	SW11	SW12	SW13	SW14	SW15	SW16	SW17	SW18

SHEAR WALL 5th FLOOR ROOF TO 7th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES						
MAIN BARS	8-16ø(b)+14-12ø	8-16ø(b)+14-12ø	8-16ø(b)+16-12ø	8-16ø(b)+22-12ø	8-16ø(b)+30-12ø	32-16ø(b)+10-12ø
SIZE	230X1750	230X1750	230X1870	230X2360	230X2960	230X3270
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (9 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (11 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (12 sets)
SHAPE						
COL/SW NO.	SW19	SW20	SW21	SW22	SW23A	SW23

SHEAR WALL 5th FLOOR ROOF TO 7th FLOOR ROOF LVL
CONC. MIX SHALL BE M-30 FOR COLUMNS (Fe-415)

C.MIX M-30	TIES	C.MIX M-30	C.MIX M-30
10-16ø(b)+8-12ø			
AS/PLAN			
OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)			
		4-25ø(b)+12-20ø	8-20ø(b)+2-16ø
		230X1250	230X820
		OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SW24		SW25	SW26

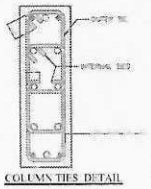




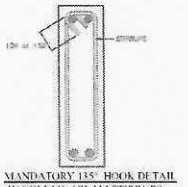
DETAIL OF HOOKS



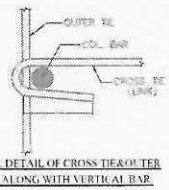
TYPICAL DETAIL OF STIRRUP/TIES BENDING



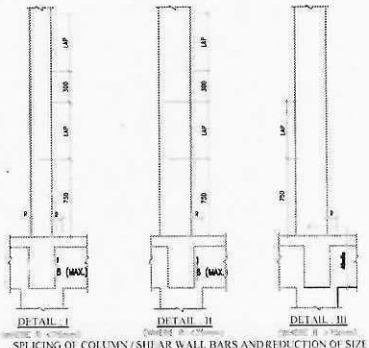
COLUMN TIES DETAIL



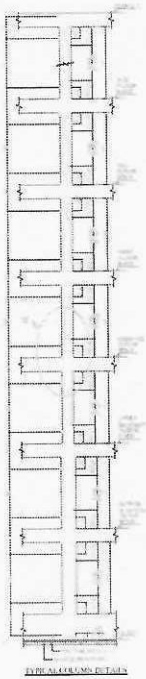
MANDATORY 135° HOOK DETAIL IN COLUMN / BEAM STIRRUPS



TYP. DETAIL OF CROSS TIE & OUTER TIE ALONG WITH VERTICAL BAR



SPLICING OF COLUMN / SHEAR WALL BARS AND REDUCTION OF SIZE



TYPICAL COLUMN DETAILS

DRG. NO	S-SO-2D

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115thL BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA. OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8ø@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINUOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING HAS BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO
19/06/13		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1144,1115,1116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M),IN KARHERA &(1/2,13,13,1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

TITLE:-
COLUMN SCHEDULE AT 5th FLOOR ROOF TO 7th FLOOR ROOF LVL BLOCK-D1(PART-2)

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

SCALE	N.T.S
DATE	19/06/13
DRAWN	NEGI
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS
2C/335,VASUNDHARA,GHAZIABAD-201012
PHONE.-0120-6459858,9810207929,
email: optimumdesign@rediffmail.com

COLUMN SCHEDULE 9th FLOOR ROOF TO 11th FLOOR ROOF LVL
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES														
MAIN BARS	10-16ø	10-16ø	10-16ø	10-20ø	10-16ø(b)+4-12ø	4-16ø(b)+10-12ø	10-16ø	6-20ø(b)+4-16ø	4-20ø(b)+8-16ø	8-16ø(b)+4-12ø	8-16ø(b)+6-12ø	4-16ø(b)+12-12ø	10-16ø	4-16ø(b)+8-12ø
SIZE	300X900	230X900	300X750	300X750	300X750	300X750	300X715	300X715	300X715	300X830	300X955	300X1065	230X900	230X960
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (3 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE														
COL/SW NO.	C1	C1A	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C12A

COLUMN SCHEDULE 9th FLOOR ROOF TO 11th FLOOR ROOF LVL
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES				
MAIN BARS	10-16ø	10-16ø	10-16ø	10-16ø
SIZE	230X900	230X960	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE				
COL/SW NO.	C13	C13A	C14	C15

SHEAR WALL 9th FLOOR ROOF TO 11th FLOOR ROOF LVL
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30		C.MIX M-30
TIES								
MAIN BARS	8-20ø(b)+8-16ø	8-16ø(b)+6-12ø	14-16ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-16ø(b)+6-12ø	14-20ø
SIZE	230X1115	230X1095	230X1200	230X1200	230X1200	230X1200	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SHAPE								
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8

SHEAR WALL 9th FLOOR ROOF TO 11th FLOOR ROOF LVL
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

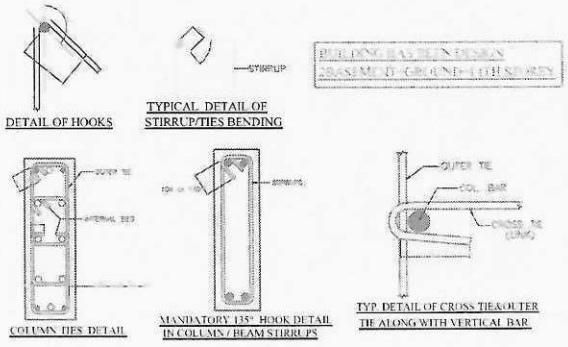
	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES										
MAIN BARS	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	12-16ø(b)+8-12ø	8-16ø(b)+10-12ø	8-16ø(b)+10-12ø	8-16ø(b)+10-12ø	8-16ø(b)+14-12ø
SIZE	230X1200	230X1255	230X1255	230X1000	230X1355	230X1460	230X1470	230X1500	230X1490	230X1700
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)
SHAPE										
COL/SW NO.	SW9	SW10	SW11	SW12	SW13A	SW13	SW14	SW15	SW16	SW17

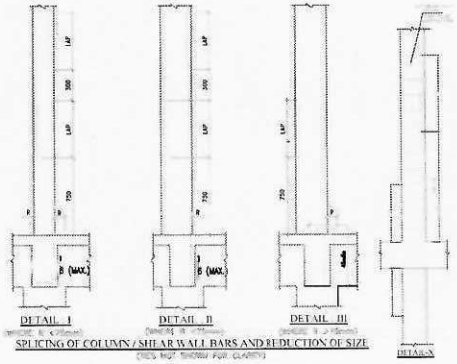
SHEAR WALL 9th FLOOR ROOF TO 11th FLOOR ROOF LVL
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

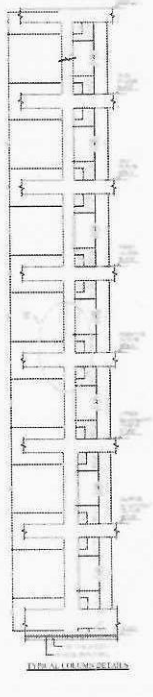
	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES						
MAIN BARS	8-16ø(b)+14-12ø	8-16ø(b)+14-12ø	8-16ø(b)+18-12ø	8-16ø(b)+22-12ø	8-16ø(b)+30-12ø	32-16ø(b)+10-12ø
SIZE	230X1750	230X1750	230X1870	230X2380	230X2960	230X3270
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (9 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (11 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (12 sets)
SHAPE						
COL/SW NO.	SW18	SW19	SW20	SW21	SW21A	SW22

SHEAR WALL 9th FLOOR ROOF TO 11th FLOOR ROOF LVL
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

C.MIX M-30	TIES	C.MIX M-30	C.MIX M-30
10-16ø(b)+8-12ø			
AS/PLAN			
OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (8 sets)			
		12-20ø(b)+4-16ø	4-20ø(b)+8-16ø
		230X1250	230X820
		OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SW23		SW24	SW25







DRG. NO	S-SO-2F

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY IN BRICK WORK SHALL BE IN CEMENT MORTAR 1:5(1 CEMENT, 5 COARSE SAND)
1.9 HALF BRICK WORK 115TH. BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS.
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 30D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8ø@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDAR, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO.
19/06/13		

PROJECT:-
PROPOSED GROUP HOUSING AT PLOT AT KHASARA NO.(1125/1,1126/1,1131,1144/2,1145/1,1146/M,1154/1,1132, 1127/M,1128/1,1129,1114,1115,1116,1117,1119,1120,1124/1, 1130,1147,1148,1149,1150,1146/M,)IN KARHERA &(1/2,13,13,1/2) IN SAHIBABAD (SAVIOUR PARK) MOHAN NAGAR GHAZIABAD (U.P.)

TITLE:-
COLUMN SCHEDULE AT 9th FLOOR ROOF TO 11th FLOOR ROOF LVL. BLOCK-D1(PART-2)

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

SCALE	N.T.S
DATE	19/06/13
DRAWN	NEGI
CHECKED	RAJKUMAR

CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS
2C/335,VASUNDHARA,GHAZIABAD-201012
PHONE:-0120-6459858,9810207929,
email: optimumdesign@rediffmail.com

COLUMN SCHEDULE 9th FLOOR ROOF TO 10th TERRACE FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES														
MAIN BARS	10-16ø	10-16ø	10-16ø	10-20ø	10-16ø(b)+4-12ø	4-16ø(b)+10-12ø	10-16ø	8-20ø(b)+4-16ø	4-20ø(b)+8-16ø	8-16ø(b)+4-12ø	8-16ø(b)+6-12ø	4-16ø(b)+12-12ø	10-16ø	4-16ø(b)+8-12ø
SIZE	300X900	230X900	300X750	300X750	300X750	300X750	300X715	300X715	300X715	300X830	300X955	300X1065	230X900	230X950
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (3 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (3 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (4 sets)	OUTER TIES-10ø@150c/c INNER TIES-8ø@150c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE														
COL/SW NO.	C1	C1A	C2	C3	C4	C4A	C5	C6	C7	C8	C9	C9A	C10	C10A

COLUMN SCHEDULE 9th FLOOR ROOF TO 10th TERRACE FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES				
MAIN BARS	10-16ø	10-16ø	10-16ø	10-16ø
SIZE	230X900	230X960	230X900	230X900
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)
SHAPE				
COL/SW NO.	C12	C12A	C13	C14

SHEAR WALL 11th FLOOR ROOF TO TERRACE LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES								
MAIN BARS	8-20ø(b)+6-16ø	8-16ø(b)+8-12ø	14-16ø	8-16ø(b)+6-12ø	8-16ø(b)+6-12ø	8-16ø(b)+6-12ø	8-16ø(b)+6-12ø	14-20ø
SIZE	230X1115	230X1095	230X1200	230X1200	230X1200	230X1200	230X1200	230X1200
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SHAPE								
COL/SW NO.	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8

SHEAR WALL 9th FLOOR ROOF TO 10th TERRACE FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES										
MAIN BARS	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-16ø(b)+8-12ø	8-16ø(b)+4-12ø	8-16ø(b)+8-12ø	12-16ø(b)+8-12ø	8-16ø(b)+10-12ø	8-16ø(b)+10-12ø	8-16ø(b)+10-12ø	8-16ø(b)+14-12ø
SIZE	230X1200	230X1255	230X1255	230X1000	230X1355	230X1460	230X1470	230X1500	230X1490	230X1700
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (4 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)
SHAPE										
COL/SW NO.	SW9	SW10	SW11	SW12	SW12A	SW13	SW14	SW15	SW15a	SW17

SHEAR WALL 9th FLOOR ROOF TO 10th TERRACE FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

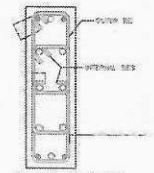
	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30	C.MIX M-30
TIES						
MAIN BARS	8-16ø(b)+14-12ø	8-16ø(b)+14-12ø	8-16ø(b)+16-12ø	8-16ø(b)+22-12ø	8-16ø(b)+30-12ø	32-16ø(b)+10-12ø
SIZE	230X1750	230X1750	230X1870	230X2380	230X2960	230X3270
TIES (S2,ZONE)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (7 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (9 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (11 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (12 sets)
SHAPE						
COL/SW NO.	SW18	SW19	SW20	SW21	SW21A	SW22

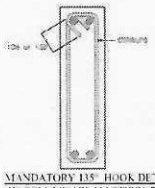
SHEAR WALL 9th FLOOR ROOF TO 10th TERRACE FLOOR ROOF LVL.
CONC. MIX. SHALL BE M-30 FOR COLUMNS (Fe-415)

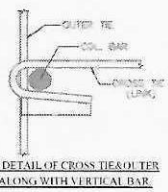
C.MIX M-30	TIES	C.MIX M-30	C.MIX M-30
10-16ø(b)+8-12ø			
AS/PLAN			
OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (6 sets)			
		8-20ø(b)+8-16ø	4-20ø(b)+6-20ø
		230X1250	230X820
		OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)	OUTER TIES-10ø@115c/c INNER TIES-8ø@115c/c (5 sets)
SW23		SW24	SW25

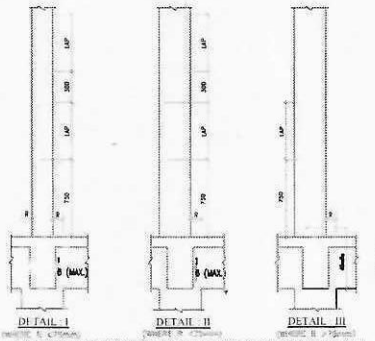




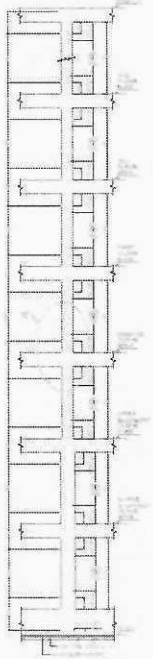












DRG. NO	S-SO-2G

1. GENERAL NOTES

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115th, BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE BAR 6MM

2. REINFORCED CEMENT CONCRETE

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB----------20MM
R.C.C.WALL----------25MM
BEAMS----------25MM
COLUMNS----------40MM

2.2 GRADE OF CONCRETE SHALL BE GRADE M-30 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YEILD STRENGTH DEFORMED BARS (Fe-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMN NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-30 CONCRETE SHALL BE 38D (D IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8ø@200C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 16MM A TYPICAL CHAIRS COULD BE AS BELOW.



2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB STEEL, LADDER, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COUNTER WEIGHT OVER THE BEARING BEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

DATE	PRINTS / REVISION	NO.
19/06/13		

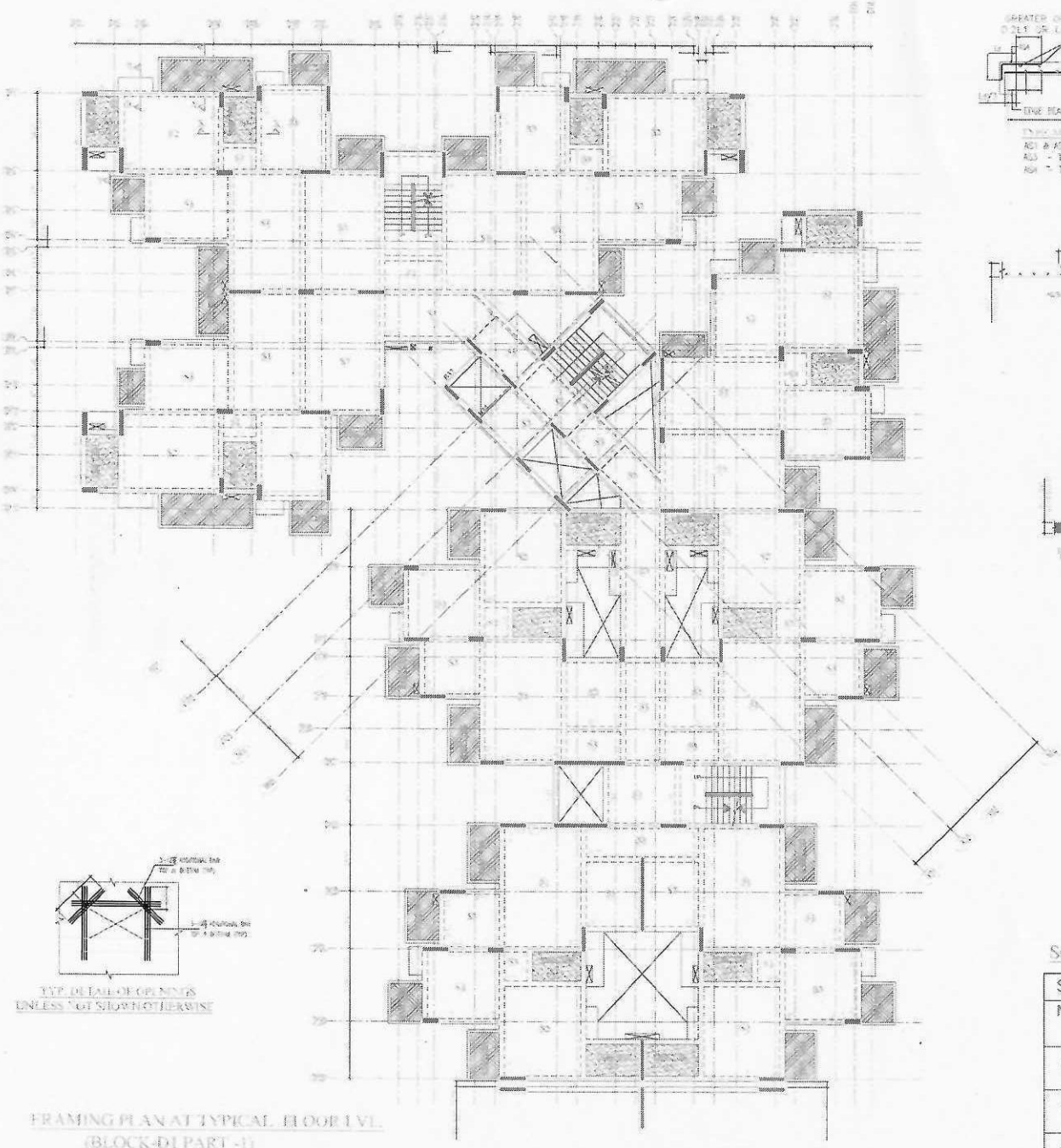
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TITLE:-
COLUMN SCHEDULE AT 11th FLOOR ROOF TO TERRACE LVL.
BLOCK-D1(PART-2)

ARCHITECTS:-
DEEPAK MEHTA AND ASSOCIATES

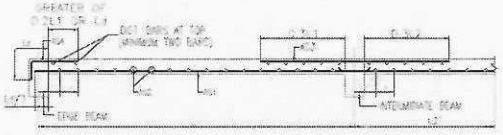
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DATE	19/06/13
DRAWN	NEGI
CHECKED	RAJKUMAR

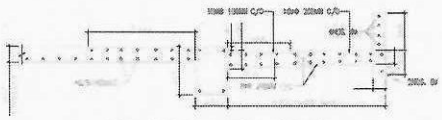
CONSULTANTS:-
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS
2C/335,VASUNDHARA,GHAZIABAD-201012
PHONE:-0120-6459868,9810207929,
email: optimumdesign@rediffmail.com

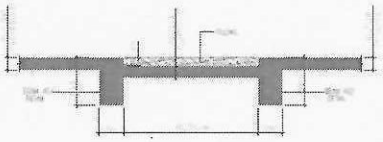


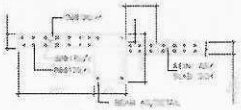
FRAMING PLAN AT TYPICAL FLOOR LVL
(BLOCK-D1 PART -1)
ALL BEAM SIZE ARE (230X450) U.N.O.

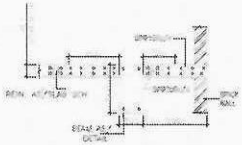
TYP. DETAILS OF OPENINGS
UNLESS NOT SHOWN OTHERWISE











SCHEDULE OF SLAB

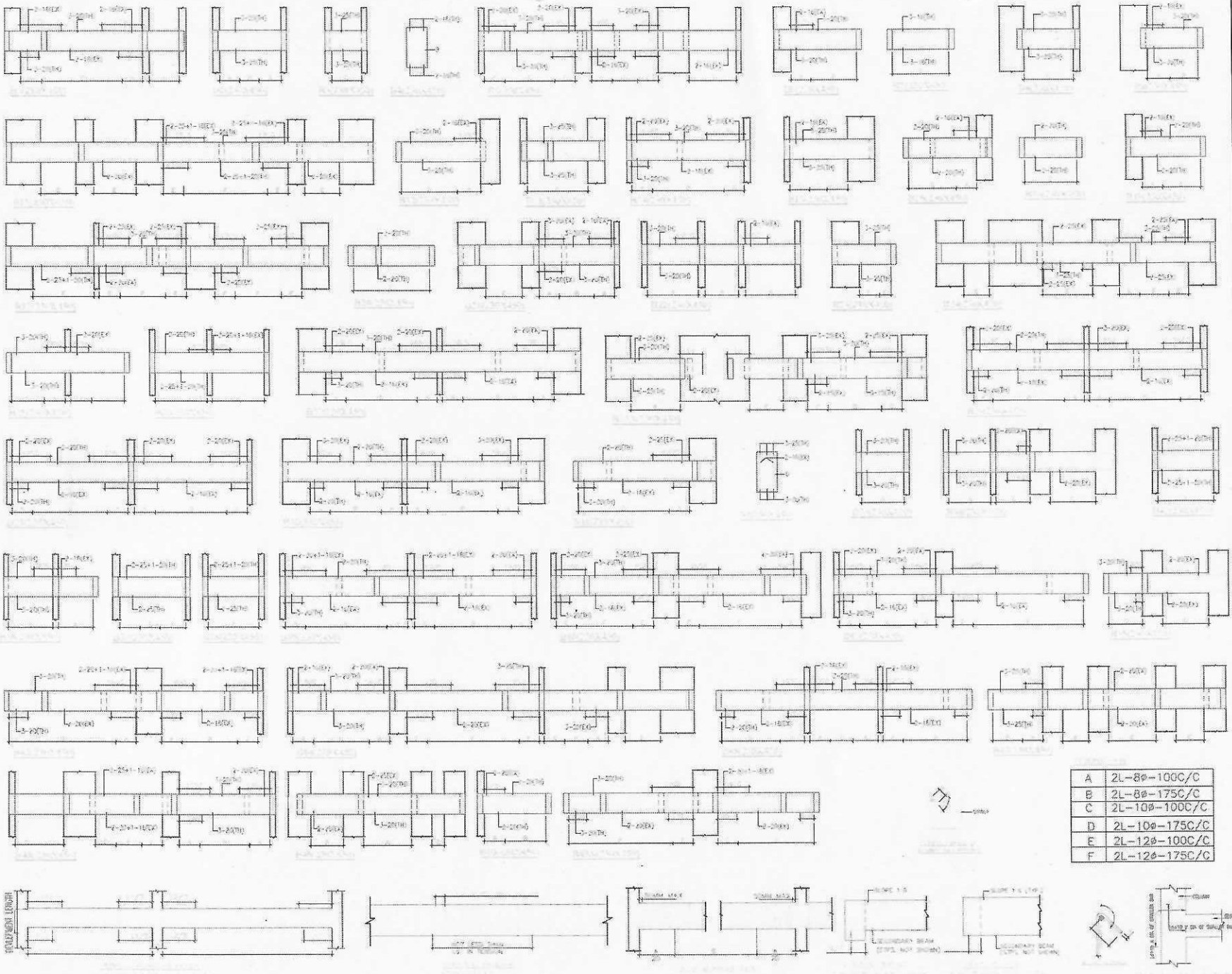
SLAB NO.	DEPTH	REINFORCEMENT	
		SHORTER SPAN	LONGER SPAN
S1	115	8# @ 125 C/C	8# @ 175 C/C
S2	115	8# @150 C/C	8# @ 200 C/C
S3	115	8# @200 C/C	8# @ 200 C/C

1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 THE GRID DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF OWNER'S RWP'S BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE. LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERVISION TAKING GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONRY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND)
1.9 HALF BRICK WORK 115THL BLOCK MASONRY 125/100 SHALL BE IN CEMENT MORTAR 1:4(1CEMENT, 4 COARSE SAND) AND ONE WAY

2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB ---------- 20MM
R.C.C WALL ---------- 25MM
BEAMS ---------- 25MM
COLUMNS ---------- 40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-25 UNLESS NOTED OTHERWISE.
2.3 USE HIGH YIELD STRENGTH DEFORMED BARS (Fe-500) THAT CONFIRMS TO
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 IN COLUMNS NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS.
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-25 CONCRETE SHALL BE 47Ø (Ø IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROPER SPACERS/C.C SPACERS/CUBES BARS IN SLAB WHEREVER NOT PROVIDED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 FOR REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO. PER M AREA OR 900MM FOR BARS WHICH ARE PROVIDED. SUCH CHAIRS SHOULD BE TIED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIMENSION OF CHAIRS FOR SLAB SHOULD BE 150MM AND FOR FOUNDATIONS 100MM A TYPICAL CHAIRS COULD BE AS BELOW

2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.THE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINUOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB CUTS, LADDAS, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS.PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED CAREFULLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE REINFORCED CONCRETE.
2.15 THE CENTRING SUPPORTING CANTILEVERS, CANOPY OVERHANGS ETC. MUST BE RETAINED TILL MINIMUM COUNTER WEIGHT OVER THE BEARING SEEN ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS



A	2L-8ø-100C/C
B	2L-8ø-175C/C
C	2L-10ø-100C/C
D	2L-10ø-175C/C
E	2L-12ø-100C/C
F	2L-12ø-175C/C

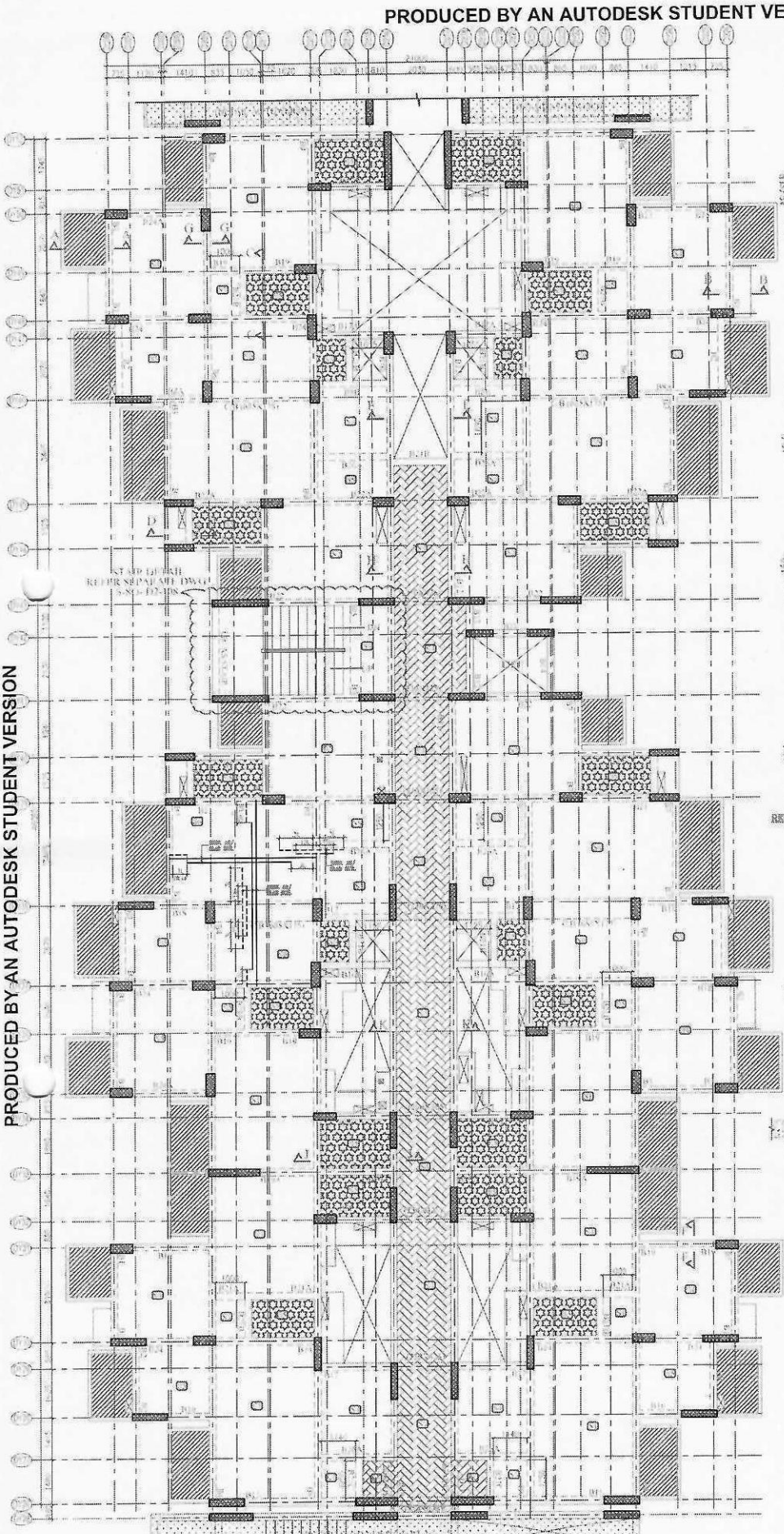
1.1 FOR DIMENSIONS REFER ARCHITECTURAL DRAWINGS.
1.2 ALL THE DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.
1.3 R/C SLAB DIMENSIONS SHALL BE CROSS CHECKED AND VERIFIED WITH ARCHITECTURAL DRAWINGS BEFORE LAYOUT.
1.4 ALL THE STRUCTURAL DRAWINGS MUST BE CO-ORDINATED WITH RELEVANT ARCHITECTURAL AND SERVICE DRAWINGS BEFORE EXECUTION AND ANY DISCREPANCY FOUND IN THE DRAWINGS SHALL BE BROUGHT TO THE NOTICE OF CONSULTANTS BEFORE EXECUTION.
1.5 DRAWINGS SHOULD NOT BE SCALED ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED.
1.6 ALL DIMENSIONS INDICATED ON THE DRAWINGS ARE IN MM UNLESS SPECIFIED OTHERWISE, LEVELS SHOWN ARE IN METERS.
1.7 PARTICULAR NOTES GIVEN ON OTHER DRAWINGS SHALL SUPERSEDE THOSE GIVEN IN THIS DRAWING.
1.8 ALL BLOCK MASONARY & BRICK WORK SHALL BE IN CEMENT MORTAR 1:6(1 CEMENT, 6 COARSE SAND).
1.9 HALF BRICK WORK 115MM, BLOCK MASONRY 125/150 SHALL BE IN CEMENT MORTAR 1:4(CEMENT, 4 COARSE SAND) AND ONE END RAW

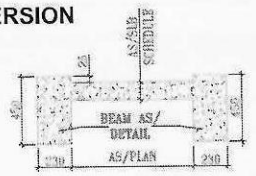
2.1 CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
SLAB ---------- 20MM
R.C.C.WALL ---------- 25MM
BEAMS ---------- 25MM
COLUMNS ---------- 40MM
2.2 GRADE OF CONCRETE SHALL BE GRADE M-20 UNLESS NOTED OTHERWISE.
2.3 HSD HIGH YIELD STRENGTH DEFORMED BARS (Fy-415) TMT BARS AS
2.4 ALL THE R.C.C. WORK SHALL BE CARRIED OUT IN ACCORDANCE
2.5 BG COLUMNS NOT MORE THAN ONE THIRD OF TOTAL NO. OF MAIN BARS BE OVERLAPPED AT ANY SECTION.
2.6 ALL THE BEAM BARS MUST HAVE ANCHORAGE LENGTH EQUAL TO DEVELOPMENT LENGTH (Ld) INSIDE COLUMNS AT ENDS.
2.7 DEVELOPMENT LENGTH FOR REINFORCEMENT STEEL BARS FOR GRADE M-20 CONCRETE SHALL BE 47ø (Ø IS DIA OF THE BAR)
2.8 REINFORCEMENT BARS IN SLABS ALONG SHORT SIDE SHALL BE PLACED IN FIRST LAYER AND ALONG LONG SIDE IN SECOND
2.9 PROVIDE 8MM@300C/C DISTRIBUTION BARS IN SLAB WHEREVER NOT INDICATED BUT REQUIRED AS PER ENGINEERING PRACTICES.
2.10 TOP REINFORCEMENT IN SLAB, FOUNDATIONS ETC. SHALL BE SUPPORTED BY PROVIDING ADEQUATE LAYER SPACER (CHAIRS OF ADEQUATE SIZE OF BAR) AT LEAST
1 NO PER M AREA IN WHICH TOP BARS HAVE BEEN PROVIDED. SUCH CHAIRS SHOULD BE FIXED TO THE MAIN REINFORCEMENT AND SHOULD NEVER BE IN DIRECT CONTACT WITH THE SHUTTERING.
2.11 MINIMUM DIAMETER OF CHAIRS FOR SLAB SHOULD BE 10MM AND FOR FOUNDATIONS 12MM A TYPICAL CHAIRS COULD BE AS BELOW

2.12 LOCATION OF CONSTRUCTION JOINTS SHALL BE APPROVED BY ENGINEER-IN-CHARGE.LINE CONCRETING OPERATION SHALL BE CARRIED OUT CONTINUOUSLY UP TO THE CONSTRUCTION JOINT.
2.13 THE SIZE AND POSITION OF MAN-HOLE , SLAB OPEN., LADDER, INLET/OUTLET PIPES ETC SHALL BE AS PER PLUMBING DRAWINGS,PIPE SLEEVES OF REQUIRED SIZE SHALL BE PLACED IN WALLS BEFORE
2.14 FORM WORK SHALL BE REMOVED GRADUALLY SO AS NOT TO CAUSE ANY VIBRATION THAT MAY DAMAGE NEWFORCED CONCRETE.
2.15 THE CANTILEVER SUPPORTING CANTILEVERS, CANOPY, OVERHANGS ETC. MUST BE RETAINED TILL MAXIMUM COMPRESSIVE STRESS IN THE CONCRETE BEING ATTAINED.
2.16 SHUTTERING OF CANTILEVER SLAB / BEAMS SHALL BE REMOVED STARTING FROM THE OVERHANGING EDGE.

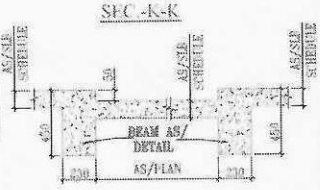
OPTIMUM DESIGN pvt.ltd.
CONSULTING ENGINEERS

PRODUCED BY AN AUTODESK STUDENT VERSION

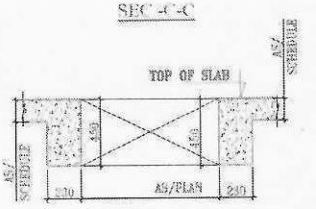




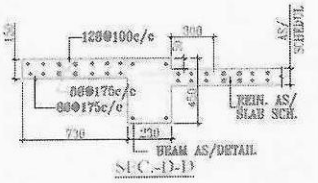
SEC.-K-K



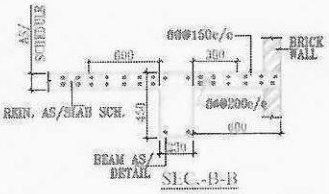
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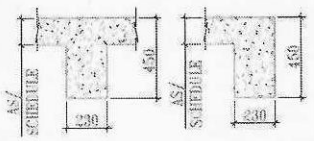
SECTION E-E



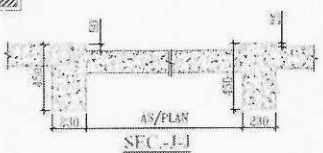
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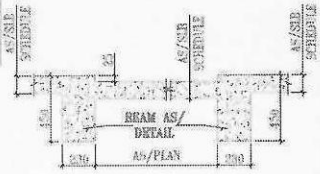
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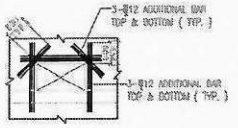
SECTION G-G SECTION F-F



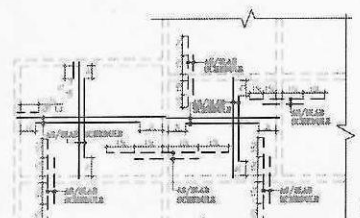
SEC.-J-J



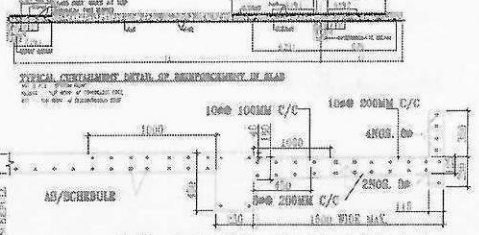
SEC.-H-H



TYP. DETAIL OF OPENINGS
UNLESS NOT SHOWN OTHERWISE



TYPICAL DETAILS OF SLAB



TYPICAL SEC. BALCONY 1500 WIDE MAX

TYPICAL CENTRE LINE DETAIL OF REINFORCEMENT IN SLAB

SCHEDULE OF SLAB
(ALL SLABS 150 MM THICK SLAB)

SLAB NO.	DEPTH	REINFORCEMENT SPAN(Ast1/Ast2)		REINFORCEMENT SUPPORT(Ast3/Ast4)	
		SHORTER SPAN	LONGER SPAN	SHORTER SPAN	LONGER SPAN
S1	115	8@ @ 150 C/C	8@ @175C/C	8@ @ 150 C/C	8@ @175C/C
S2	115	8@ @ 100 C/C	8@ @125 C/C	8@ @ 100 C/C	8@ @125 C/C
S3	115	8@ @175 C/C	8@ @225 C/C	8@ @175 C/C	8@ @225 C/C
S4	115	8@ @175 C/C	8@ @200 C/C	8@ @175 C/C	8@ @200 C/C
S5	115	8@ @200 C/C	8@ @225 C/C	8@ @200 C/C	8@ @225 C/C
S6	175	10@ @100 C/C	8@ @150 C/C	10@ @100 C/C	8@ @150 C/C

DRG NO. - S/AAYOUR/PART-2/D-100

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO. S/GN/R/100
2. ALL DIMENSIONS ARE IN mm
3. ALL BEAMS SHALL BE (230X450) O.S.
4. CON. MIX -M25
5. REINF. GRADE- Fe 500
6. THIS DWG SHALL BE READ WITH ALL RELEVANT ARCH. DRAWING.
7. ALL LEVELS AS PER ARCH
8. FOR CUT-OUT SIZE REFER ARCH. DRG.

KEY PLAN



LEGEND

- BALCONY SUNK 40 MM
- TOILET SUNK 50 MM
- CORRIDOR SUNK 25 MM

DRG NO.	REV	DATE	REMARK/ISSUED TO

PROJECT -

PROJECT TITLE -

PROPOSED GROUP HOUSING AT PLOT AT PUSHAPA [illegible] SAHIBABAD (VAISHALI PARK) MOHAN NAGAR GHAZIABAD (U.P.)

BUILDERS & PROMOTER -

TITLE -

DRAWING PLAN AT 1ST FLOOR LVL. TOWER D (PART-2)

ARCHITECTS -

DEEPAK MEHTA AND ASSOCIATES

SCALE	1:1
DATE	17/08/16
DRAWN BY	RAWAT
CHECKED BY	CHANDU
DESIGNED BY	CHANDU
APPROVED BY	V.D. SHARMA

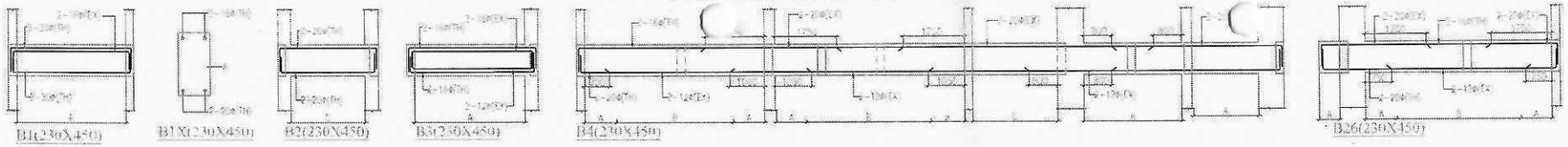
CONSULTANTS -

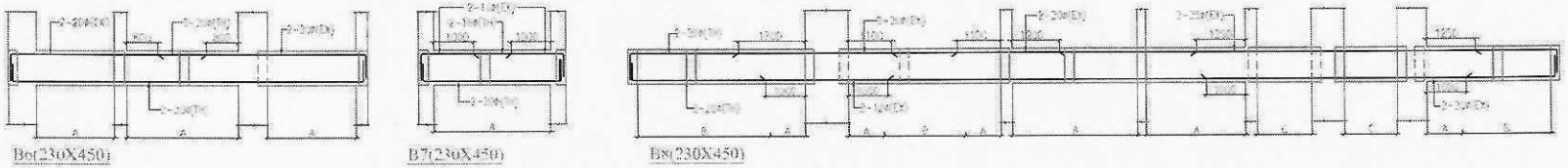
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.
B-24, SECTOR-57, NOIDA-201301
Phone-0120-4656868,4704777,4277307
0120-2848230,31,32,33,34&35
Email - info@optimumdesign.in
Website - www.optimumdesign.in

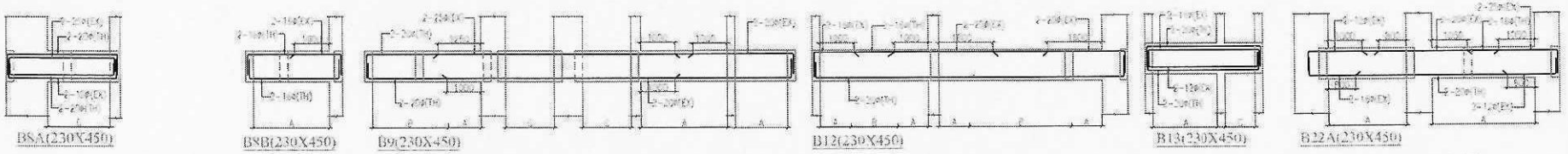
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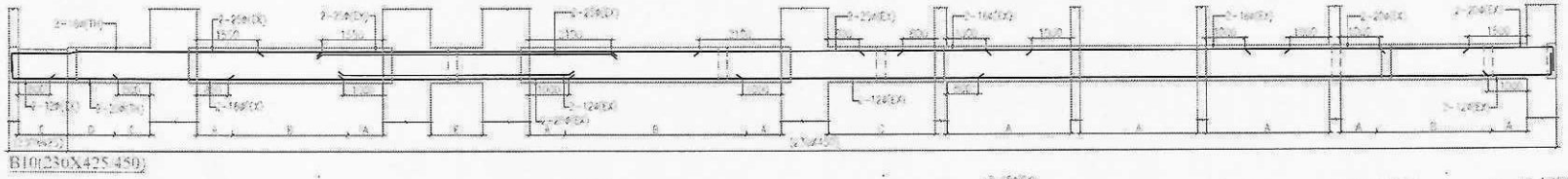
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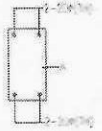
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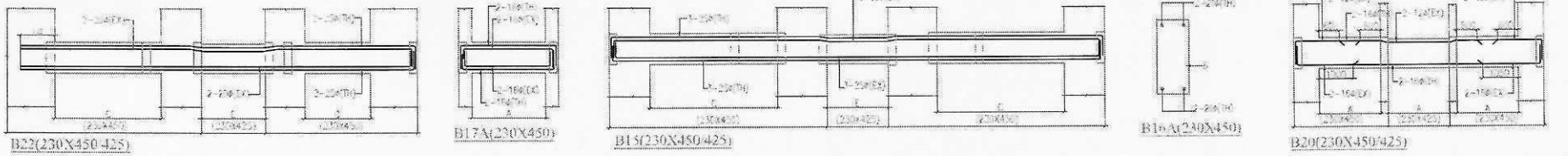


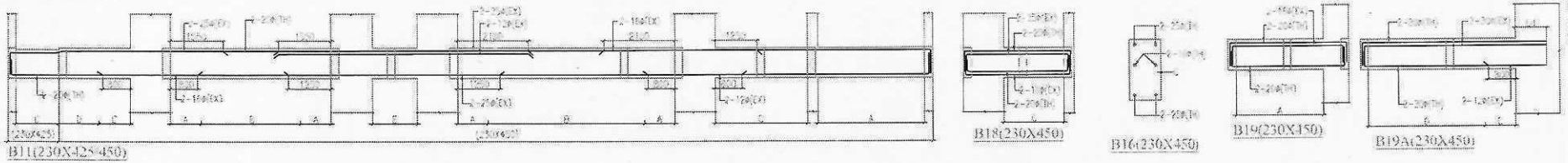


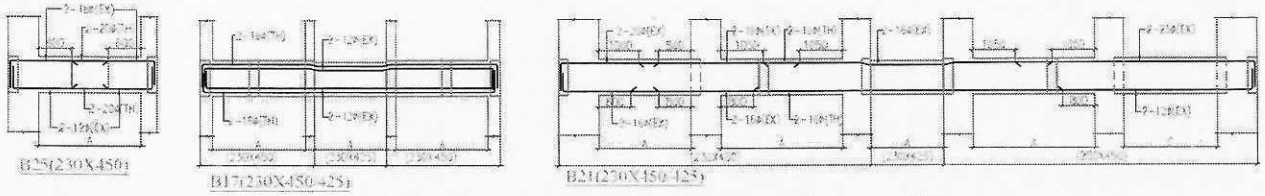


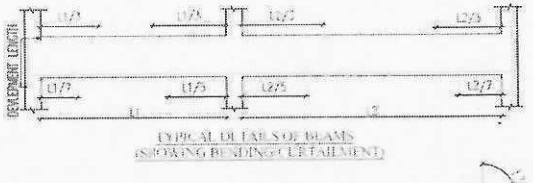




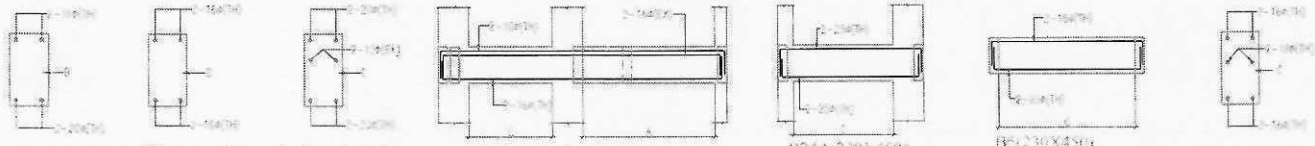


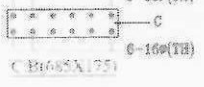




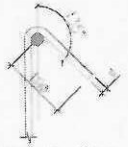


TYPICAL DETAILS OF BEAMS
(SHOWING BENDING DETAILMENT)





C B1(685X175)



DETAILS OF HOOKS

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO S/SN/E/100
2. CON. MIX - M25.
3. REINF. GRADE - Fe 500.
4. THIS DRG. SHALL BE READ WITH ALL RELEVANT ARCH. DRAWING.

KEY PLAN



STIRRUP SCHEDULE

A	2L-8ϕ-100C/C
B	2L-8ϕ-175C/C
C	2L-10ϕ-100C/C
D	2L-10ϕ-175C/C
E	2L-12ϕ-100C/C
F	2L-12ϕ-175C/C

PROJECT :-

PROJECT TITLE :-
PROPOSED GROUP HOUSING AT PLOT AT KHAJURA

BUILDERS & PROMOTER :-

TITLE :-
BEAM DETAIL AT 1ST FLOOR LEVEL
(BLOCK 02 PART 2)

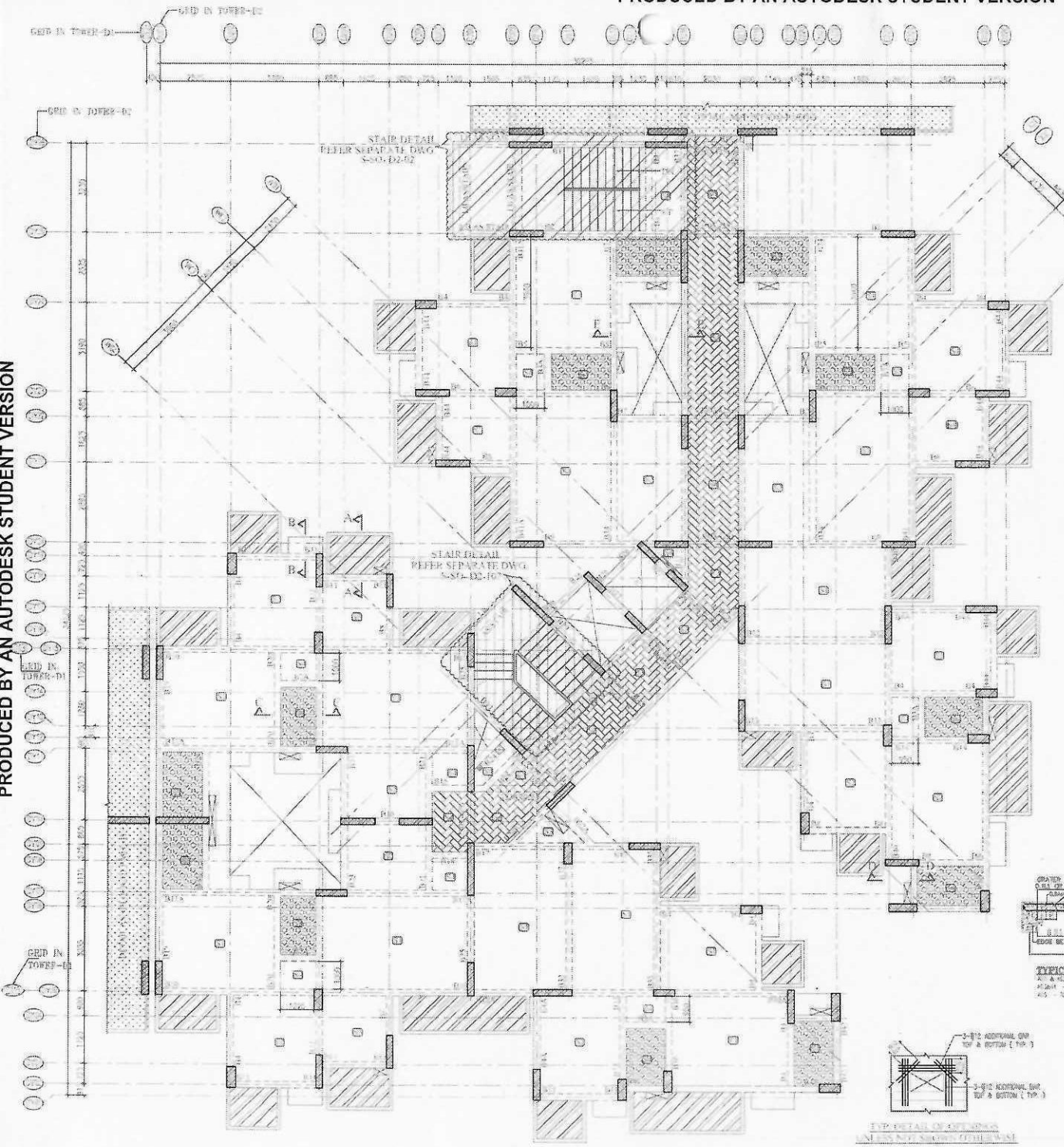
ARCHITECTS :-
DEEPAK MEHTA AND ASSOCIATES

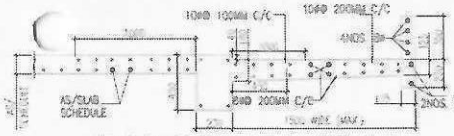
SCALE	AS
DATE	17/08/18
DRAWN BY	RAWAT
CHECKED BY	CHANDU
DESIGNED BY	CHANDU
APPROVED BY	V.D. SHARMA

CONSULTANTS :-
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.

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PRODUCED BY AN AUTODESK STUDENT VERSION
PRODUCED BY AN AUTODESK STUDENT VERSION

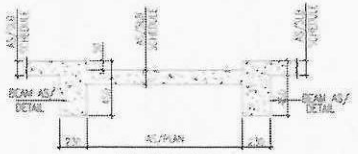
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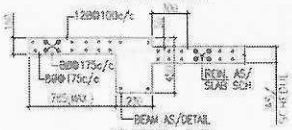


TYPICAL SEC. BALCONY 1500 WIDE MAX.

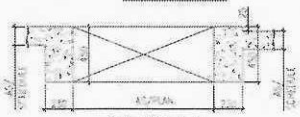
SECTION -A-A



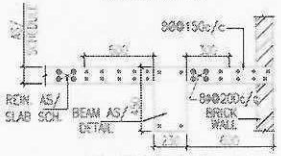
SECTION -C-C



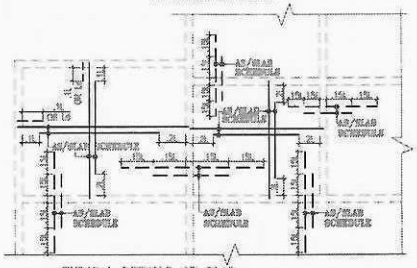
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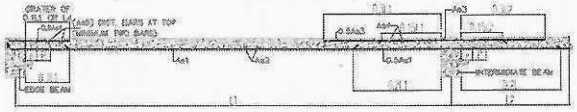
SECTION E-E



SECTION -B-B



TYPICAL DETAILS OF SLAB
(SHOWING REINFORCEMENT IN PLAN)



TYPICAL CURTAILMENT DETAIL OF REINFORCEMENT IN SLAB

TYP. DETAIL OF OPENING
UNLESS NOTED OTHERWISE

SCHEDULE OF SLAB
CONC. M25 SLAB THK AS PER PLAN

SLAB NO.	DEPTH	REINFORCEMENT SPAN(As1/As2)		REINFORCEMENT SUPPORT(As3/As4)	
		SHORTER SPAN	LONGER SPAN	SHORTER SPAN	LONGER SPAN
S1	115	8# @125 C/C	8# @150 C/C	8# @125 C/C	8# @150 C/C
S2	115	8# @200 C/C	8# @225 C/C	8# @200 C/C	8# @225 C/C
S3	115	8# @200 C/C	8# @200 C/C	8# @100 C/C	8# @200 C/C
S4	115	8# @175 C/C	8# @225 C/C	8# @175 C/C	8# @225 C/C

DWG. NO. : S-SLAB/GF-PART-D2-01

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO. S-GEN/F/100
2. ALL DIMENSIONS ARE IN mm.
3. ALL BEAMS SHALL BE (230X450) O.C.S.
4. CON. MIX - M25
5. REINF. GRADE - Fe 500
6. THIS DWG. SHALL BE READ WITH ALL RELEVANT ARCH. DRAWINGS
7. ALL LEVELS AS PER ARCH.
8. FOR CUT-OUT SIZE REFER ARCH. DWG.

KEY PLAN



LEGEND :

BALCONY SUNK 40 MM

TOILET SUNK 40 MM

CORRIDOR SUNK 25 MM

ISSUED FOR : S.S.R.D. GF PART-D2

PROJECT TITLE :
PROPOSED GROUP HOUSING AT PLOT AT KHASRA NO. 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1/1/1508/1162/1/1/1509/1162/1/1/1510/1162/1/1/1511/1162/1/1/

COLUMN SCHEDULE GROUND FLOOR TO 2ND FLOOR LVL

C.MRK.	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
TIES										
MAIN BARS	6-20ϕ(b)+4-16ϕ(c)+6-12ϕ	6-20ϕ(b)+10-16ϕ	8-20ϕ(b)+6-16ϕ(c)+4-12ϕ	16-20ϕ	4-25ϕ(b)+12-16ϕ	6-25ϕ(b)+4-20ϕ(c)+6-16ϕ	6-25ϕ(b)+8-20ϕ(c)+4-16ϕ	4-25ϕ(b)+12-20ϕ	4-25ϕ(b)+8-20ϕ(c)+4-16ϕ	20-20ϕ
SIZE	300X750	300X750	230X900	300X750	230X900	300X750	230X900	300X750	230X900	300X900
TIES	OUTER TIES10@150c/c INNER TIES 8@150c/c (5 nos)	OUTER TIES10@150c/c INNER TIES 8@150c/c (5 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (5 nos)	OUTER TIES10@150c/c INNER TIES 8@150c/c (5 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (5 nos)	OUTER TIES10@150c/c INNER TIES 8@150c/c (5 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (5 nos)	OUTER TIES10@150c/c INNER TIES 8@150c/c (5 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (5 nos)	OUTER TIES10@150c/c INNER TIES 8@150c/c (5 nos)
SHAPE										
COL SW NO	C1	C2	C2A	C3	C3A	C4	C4A	C5	C5A	C6

COLUMN SCHEDULE GROUND FLOOR TO 2ND FLOOR LVL

C.MRK.	M-30	M-30	M-30	M-30	M-30	M-30	M-30	M-30
TIES								
	6-16ϕ(b)+10-12ϕ	20-12ϕ	10-16ϕ(b)+12-12ϕ	24-16ϕ(b)+8-12ϕ	16-16ϕ(b)+8-12ϕ	4-20ϕ(b)+30-16ϕ	12-20ϕ(b)+8-16ϕ(c)+8-12ϕ	28-16ϕ(b)+8-12ϕ
SIZE	300X750	300X1915	230X1200	230X1870	230X1130	230X1200	230X1470	230X1560
TIES	OUTER TIES10@150c/c INNER TIES 8@150c/c (5 nos)	OUTER TIES10@150c/c INNER TIES 8@150c/c (6 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (7 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (9 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (7 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (7 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (9 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (9 nos)
SHAPE								
COL SW NO	SW1	SW1A	SW1B	SW1C	SW2	SW2A	SW2B	SW2C

COLUMN SCHEDULE GROUND FLOOR TO 2ND FLOOR LVL

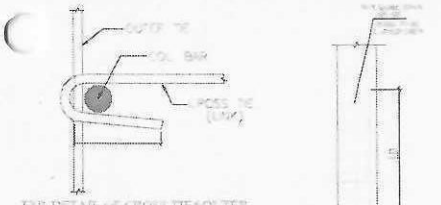
C.MRK.	M-30	M-30	M-30	M-30	M-30
TIES					
	9-20ϕ(b)+12-16ϕ	24-16ϕ	28-20ϕ	8-20ϕ(b)+16-16ϕ+16-12ϕ	28-16ϕ
SIZE	230X1115	230X1200	230X1470	230X2105	300X1200
TIES	OUTER TIES10@115c/c INNER TIES 8@115c/c (6 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (7 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (8 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (11 nos)	OUTER TIES10@150c/c INNER TIES 8@150c/c (5 nos)
SHAPE					
COL SW NO	SW3	SW3A	SW3B	SW3C	SW4

COLUMN SCHEDULE GROUND FLOOR TO 2ND FLOOR LVL

C.MRK.	M-30	M-30	M-30	M-30	M-30
TIES					
MAIN BARS	8-20ϕ(b)+16-16ϕ	20-20ϕ	4-25ϕ(b)+12-20ϕ(c)+8-16ϕ	20-16ϕ(b)+4-12ϕ	12-16ϕ(b)+12-12ϕ
SIZE	230X1200	230X1115	230X1200	230X1200	230X1200
TIES	OUTER TIES10@115c/c INNER TIES 8@115c/c (7 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (6 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (7 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (7 nos)	OUTER TIES10@115c/c INNER TIES 8@115c/c (7 nos)
SHAPE					
COL SW NO	SW5	SW5	SW5A	SW5	SW5A

NOTE ON CURTAILMENT DETAILS OF COLUMNS

1. Hc = CLEAR COLUMN HEIGHT
2. Lo IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) Hc/6
   c) 450mm
3. FOR DEVELOPMENT LENGTH 'Ld' REFER GENERAL NOTES AFTER DRAWING NO. S/SAN/S/100 AND 'Ld=50ϕ'
4. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION
5. SW – TIES AS PER COLUMN SCHEDULE
   S1 – 10 ϕ TIES @ 115 c/c (INNER TIES), 10 ϕ TIES @ 115 c/c (OUTER TIES)



TIE DETAIL OF CROSS HEADED TIE ALONG WITH VERTICAL BAR

TYPICAL DETAIL OF STIRRUP TIES BENDING

DETAIL OF HOOKS

DRG. NO. S/SAN/SER. PARK/3-DL/2A

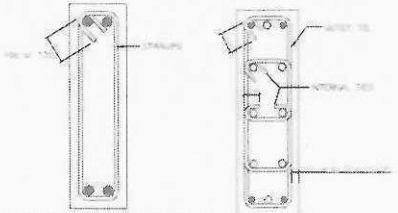
GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO. GEN/ST/100
2. ALL DIMENSIONS ARE IN mm
3. CON. MIX - M 35
4. REINF. GRADE - Fe 500
5. THIS DWG. SHALL BE READ WITH ALL RELEVANT ARCH. DRAWING
6. ALL LEVELS AS PER ARCH.

KEY PLAN

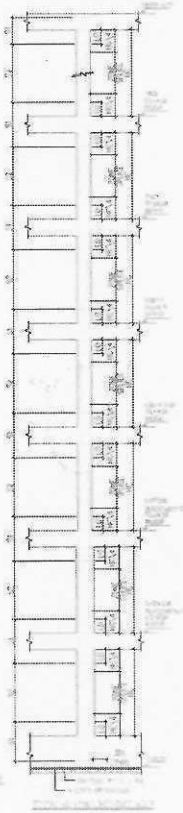


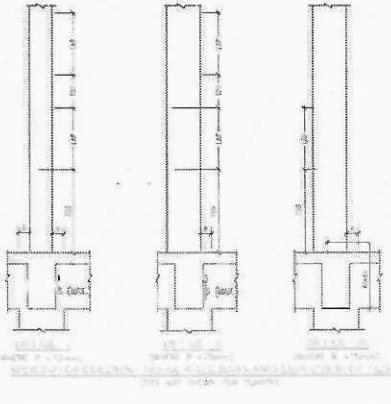




MANDATORY 135° HOOK DETAIL IN COLUMN / BEAM STIRRUPS

COLUMN TIES DETAIL





BUILDING HAS BEEN DESIGN AS PER SEISMIC ZONE-IV (IS 1893-2002)

04.02.2017			
CONT. NO.	DATE	REVISION/ISSUE TO	

PROJECT :-

PROJECT TITLE :-

PROPOSED GIRLS HOSTEL BUILDING AT PLOT AT BHAWAN

BUILDERS & PROMOTER :-

TITLE :-

COLUMN SCHEDULE (GROUND FLOOR TO 2ND FLOOR AT SILVER JUBILEE PARK)

ARCHITECTS :-

DEEPAK MEHTA AND ASSOCIATES

SCALE	AS
DATE	04.02.2017
DRAWN BY	RAWAT
DESIGNED BY	NIKHIL
APPROVED BY	V.D. SHARMA

CONSULTANTS :-

OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.

COLUMN SCHEDULE 1ST FLOOR TO 4TH FLOOR LVL
CONC. M30 SHEAR WALL FOR COLUMN (Fck=30)

C.MRK.	M-29	M-28	M-26	M-25	M-24	M-23	M-22	M-21	M-18	M-16
TIES										
MAIN BARS	16-12ϕ	16-12ϕ	6-20ϕ(b)+14-16ϕ(c)+4-12ϕ	16-16ϕ	8-16ϕ(b)+8-12ϕ	8-20ϕ(b)+10-16ϕ	4-20ϕ(b)+8-20ϕ(c)+4-16ϕ	16-20ϕ	4-20ϕ+12-16ϕ	4-20ϕ+16-16ϕ
SIZE	300X750	300X750	230X900	300X750	230X1200	300X750	230X900	300X750	230X900	300X900
TIES	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (5 nos)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (5 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 nos)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (5 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 nos)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (5 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 nos)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (5 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (5 nos)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (5 nos)
SHAPE										
COLUM NO	C1	C2	C2A	C3	C3A	C4	C4A	C5	C5A	C6

COLUMN SCHEDULE 2ND FLOOR TO 4TH FLOOR LVL
CONC. M30 SHEAR WALL FOR COLUMN (Fck=30)

C.MRK.	M-30	M-29	M-28	M-27	M-26	M-25	M-24	M-23
TIES								
	16-12ϕ	20-12ϕ	22-12ϕ	12-16ϕ(b)+20-12ϕ	22-12ϕ	4-16ϕ(b)+20-12ϕ	28-12ϕ	28-12ϕ
SIZE	300X750	300X1015	230X1200	230X1670	230X1130	230X1200	230X1470	230X1500
TIES	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (5 nos)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (6 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (7 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (6 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (7 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (7 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (8 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (6 nos)
SHAPE								
COLUM NO	SW1	SW1A	SW1B	SW1C	SW2	SW2A	SW2B	SW2C

COLUMN SCHEDULE 2ND FLOOR TO 4TH FLOOR LVL
CONC. M30 SHEAR WALL FOR COLUMN (Fck=30)

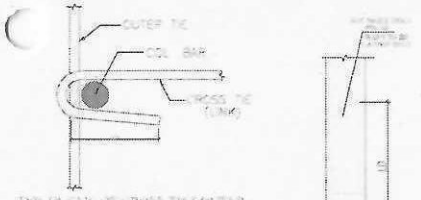
C.MRK.	M-29	M-28	M-27	M-26	M-24
TIES					
	20-16ϕ	24-12ϕ	20-16ϕ(b)+6-12ϕ	40-12ϕ	28-12ϕ
SIZE	230X1115	230X1200	230X1470	230X2165	300X1200
TIES	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@114c/c (5 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (7 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (8 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@110c/c (11 nos)	OUTER TIES10ϕ@150c/c INNER TIES 8ϕ@150c/c (5 nos)
SHAPE					
COLUM NO	SW3	SW3A	SW3B	SW3C	SW4

COLUMN SCHEDULE 2ND FLOOR TO 4TH FLOOR LVL
CONC. M30 SHEAR WALL FOR COLUMN (Fck=30)

C.MRK.	M-30	M-29	M-28	M-26	M-25
TIES					
MAIN BARS	4-20ϕ(b)+8-16ϕ(c)+12-12ϕ	20-20ϕ	4-20ϕ(b)+2D-16ϕ	24-12ϕ	24-12ϕ
SIZE	230X1200	230X1115	230X1200	230X1200	230X1200
TIES	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (7 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (6 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (7 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (7 nos)	OUTER TIES10ϕ@115c/c INNER TIES 8ϕ@115c/c (7 nos)
SHAPE					
COLUM NO	SW4A	SW4	SW4A	SW4	SW4A

NOTE ON CURTAILMENT DETAILS OF COLUMNS

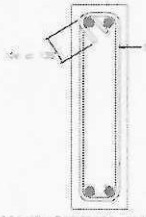
1. Ho IS CLEAR COLUMN HEIGHT
2. Lo IS GREATER OF
   a) MAX LATERAL DIMENSION OF COLUMN
   b) Ho/6
   c) 450mm
3. FOR DEVELOPMENT LENGTH 'Ld' REFER GENERAL NOTES REFER DRAWING NO. S/STR/E/101 AND S/--/500
4. MAXIMUM OF 50% OF BARS SHALL BE SPLICED AT ONE SECTION
5. 'Lo' - TIES AS PER 'COLUMN SCHEDULE'
6. 'Lo' - 100 @ 100 C/C (INNER TIES)
   150 @ 300 C/C (OUTER TIES)

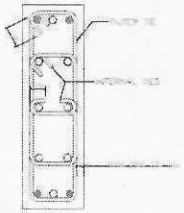


TYP. DETAIL OF CROSS TIE OUTER TIE ALONG WITH VERTICAL BAR

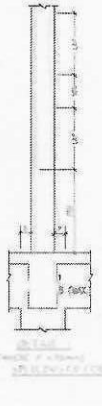
TYPICAL DETAIL OF STIRRUP TIES BENDING

DETAIL OF HOOKS

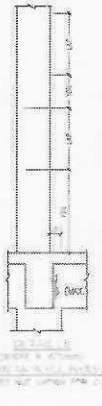

MANDATORY HOOK DETAIL IN COLUMN BEAM STIRRUPS



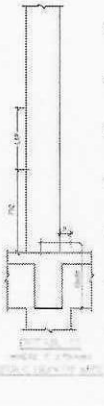
COLUMN TIES DETAIL

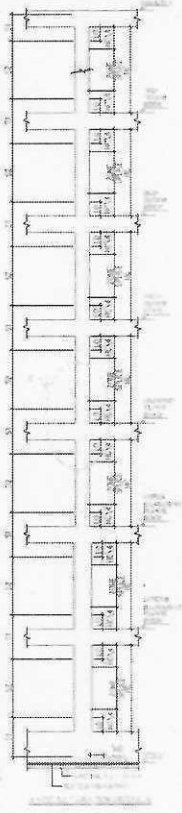


DETAILS



DETAILS


DETAILS


DETAILS

DRG NO : S-SAVIOUR PARK-T-DL-P

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG NO. S/STR/E/100
2. ALL DIMENSIONS ARE IN mm
3. CON MIX - M30
4. REINF. GRADE - Fe 500
5. THIS DRG. SHALL BE READ WITH ALL RELEVANT ARCH. DRAWING
6. ALL LEVELS AS PER ARCH.

KEY PLAN





BUILDING HAS BEEN DESIGN FOR EARTHQUAKE ZONE-III (I=1.0)

NO	REVISION	DATE	APPROVED/ISSUED TO
04	R0	04.02.2017	S.P.S.

COPY REV DATE

PROJECT :- Saviour Park

PROJECT TITLE :-
HOUSING DEVELOPMENT AT PLOT AT CHISANA
[illegible]

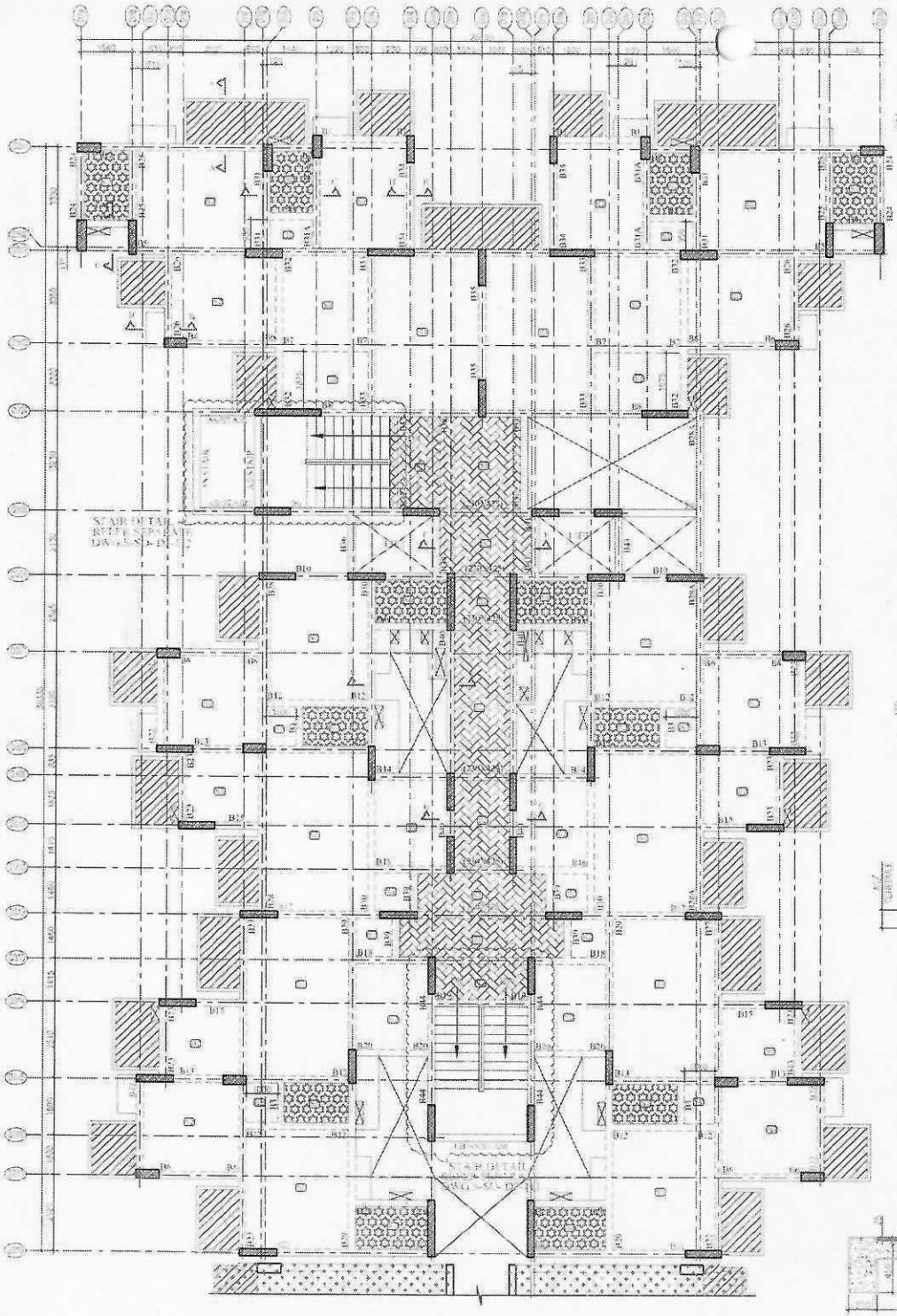
BUILDERS & PROMOTER :-

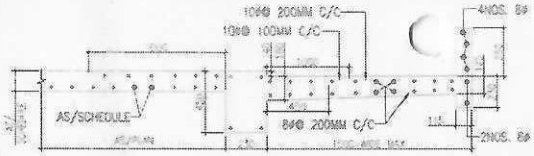
TITLE :-
COLUMN SCHEDULE 2ND FLOOR TO 4TH FLOOR & TYP. DETAILS

ARCHITECTS :-
DEEPAK MEHTA AND ASSOCIATES

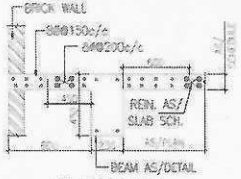
SCALE	AS
DATE	04.02.2017
DRAWN BY	RAWAT
DESIGNED BY	NIKHIL
APPROVED BY	V.D. SHARMA

CONSULTANTS :-
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.
[illegible]

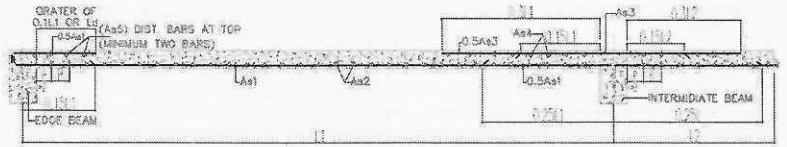




TYPICAL SEC. BALCONY 1500 WIDE MAX
SECTION-A-A



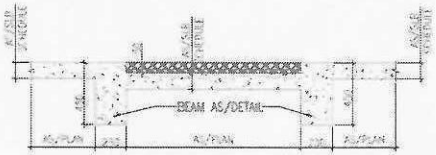
SECTION-B-B



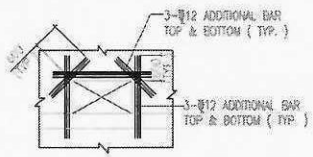
TYPICAL CURTAILMENT DETAIL OF REINFORCEMENT IN SLAB

As1 & As2 = BOTTOM REINF.
As3 & As4 = TOP REINF. AT CONTINUOUS EDGE
As5 = TOP REINF. AT DISCONTINUOUS EDGE

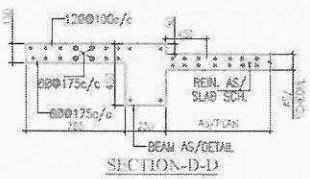
SLAB NO	DEPTH	REINFORCEMENT (Mmin(x1/Mx2))		REINFORCEMENT SUPPORT(Mx3/Mx4)	
		SHORTER SPAN	LONGER SPAN	SHORTER SPAN	LONGER SPAN
S1	115	8# @ 175 C/C	8# @200C/C	8# @ 175 C/C	8# @200C/C
S2	115	8# @ 200 C/C	8# @200 C/C	8# @ 200 C/C	8# @200 C/C



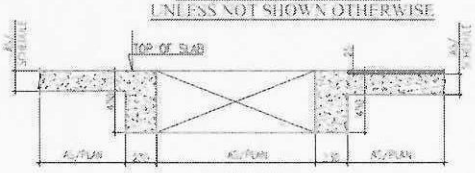
SECTION-C-C



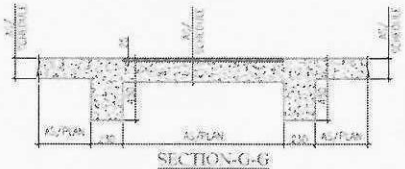
TYP. DETAIL OF OPENINGS
UNLESS NOT SHOWN OTHERWISE



SECTION-D-D



SECTION-E-E

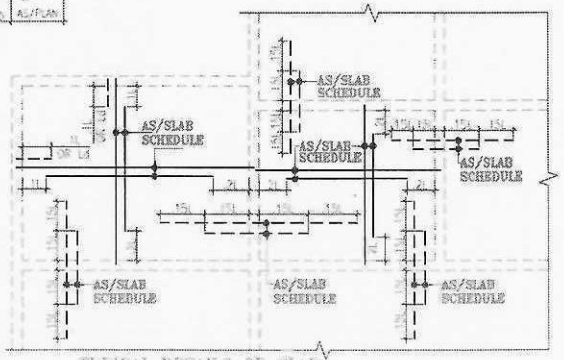


SECTION-G-G

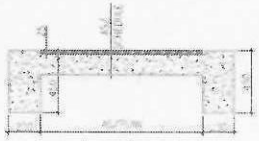
FOR APPROVAL ONLY



SECTION-H-H



TYPICAL DETAILS OF SLAB
(SHOWING REINFORCEMENT IN PLAN)



SECTION-F-F

DRG. NO. S/SAN/GH/PART-T/0105

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO. S/SAN/E/100
2. ALL DIMENSIONS ARE IN mm.
3. ALL SLAB THK 115 MM U.O.S.
4. ALL BEAMS SHALL BE (230x450) U.O.S.
5. CON. MIX - M25
6. REINF. GRADE - Fe 500
7. THIS DWG. SHALL BE READ WITH ALL RELEVANT ARCH. DRAWING
8. ALL LEVELS AS PER ARCH.
9. FOR CUT-OUT SIZE REFER ARCH. DWG.

KEY PLAN



LEGEND

BALCONY SLAB @ 150 MM
TOILET SUNK SLAB
CORRIDOR SUNK 25 MM

NO.	DATE	REVISION/ISSUED TO

PROJECT :-

PROJECT TITLE :-

BUILDERS & PROMOTER :-

TITLE :-

BEAM PLAN AT GROUND FLOOR
ROOF LVL TOWER D5

ARCHITECTS :-

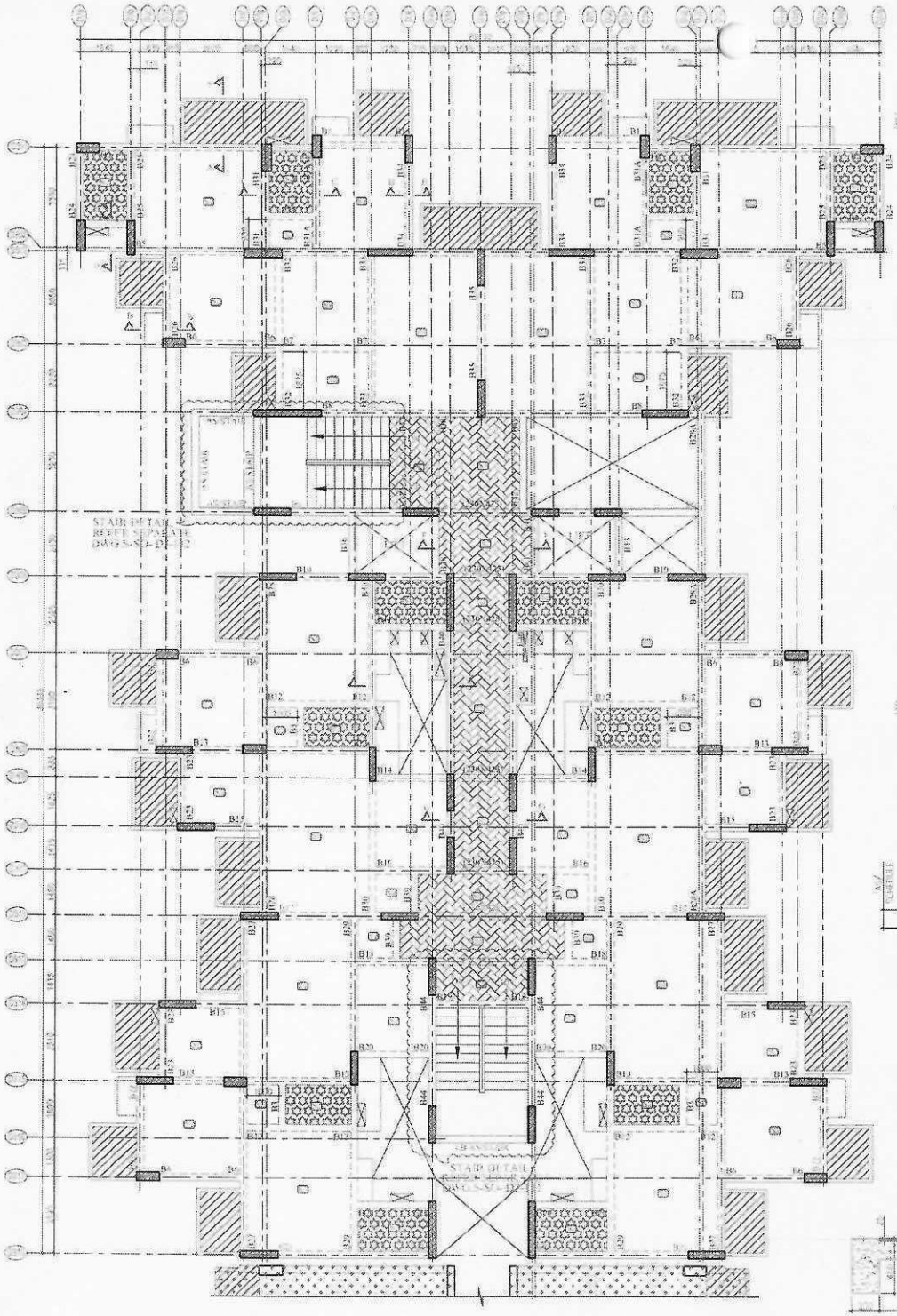
DEEPAK MEHTA AND ASSOCIATES

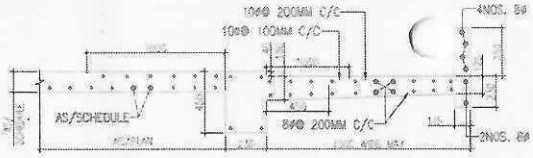
SCALE	A2
DATE	10.03.2017
DRAWN BY	RAHAT
DESIGNED BY	NIKHIL
APPROVED BY	V.D. SHARMA

CONSULTANTS :-

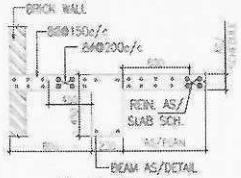
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.

S-24, SECTOR-65, NOIDA-201 301
Phone : 0120-4641944, 4641945
Email : info@optimumdesign.in
Website : www.optimumdesign.in

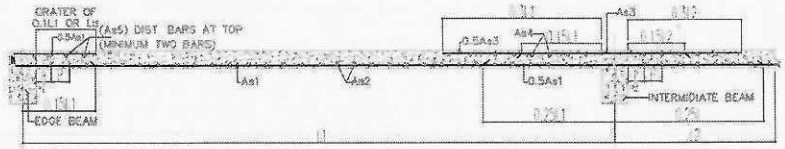




TYPICAL SEC BALCONY 1560 WIDE MAX
SECTION-A-A



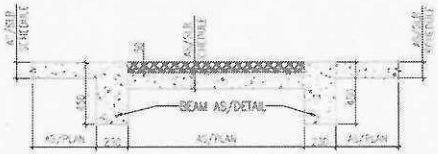
SECTION-B-B



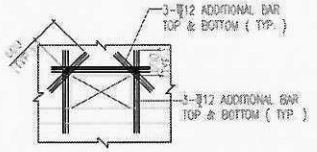
TYPICAL CURTAILMENT DETAIL OF REINFORCEMENT IN SLAB

As1 & As2 = BOTTOM REINF
AS3&4 = TOP REINF AT CONTINUOUS EDGE
As5 = TOP REINF AT DISCONTINUOUS EDGE

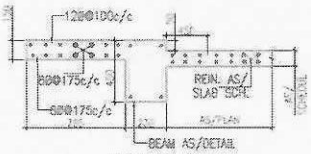
SLAB NO	DEPTH	REINFORCEMENT SPAN/M (Ast)		REINFORCEMENT SUPPORT/M (Ast)	
		SHORTER SPAN	LONGER SPAN	SHORTER SPAN	LONGER SPAN
S1	115	8@ @ 175 C/C	8@ @200C/C	8@ @ 175 C/C	8@ @200C/C
S2	115	8@ @ 200 C/C	8@ @200 C/C	8@ @ 200 C/C	8@ @200 C/C



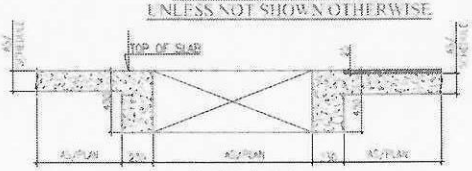
SECTION-C-C



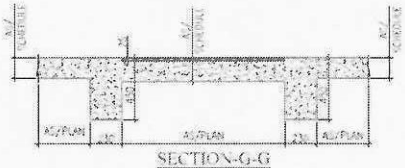
TYP. DETAIL OF OPENINGS
UNLESS NOT SHOWN OTHERWISE



SECTION-D-D

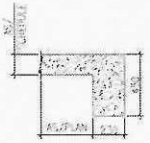


SECTION-E-E

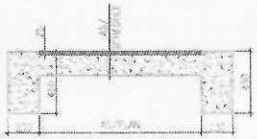


SECTION-G-G

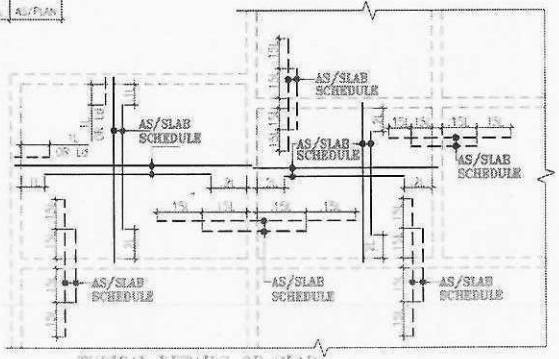
FOR APPROVAL ONLY



SECTION-H-H



SECTION-F-F



TYPICAL DETAILS OF SLAB
(SHOWING REINFORCEMENT IN PLAN)

DRG NO - S-SAVOIRE PARK-T-DS-05

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO. S-GEN/2/30
2. ALL DIMENSIONS ARE IN mm
3. ALL SLAB THK 175 MM U.O.S.
4. ALL BEAMS SHALL BE (230X450) U.O.S.
5. CON MIX - M25
6. REBAR GRADE - Fe 500
7. THIS DRG. SHALL BE READ WITH ALL RELEVANT ARCH. DRAWINGS
8. ALL LEVELS AS PER ARCH.
9. FOR CUT-OUT SIZE REFER ARCH. DWG.

KEY PLAN



LEGEND:

BALCONY SLAB +0.150

TOILET SLAB -0.100

CORRIDOR SLAB +0.000

NO.	REVISION	DATE	DRN	CHK

PROJECT :-

PROJECT TITLE :-

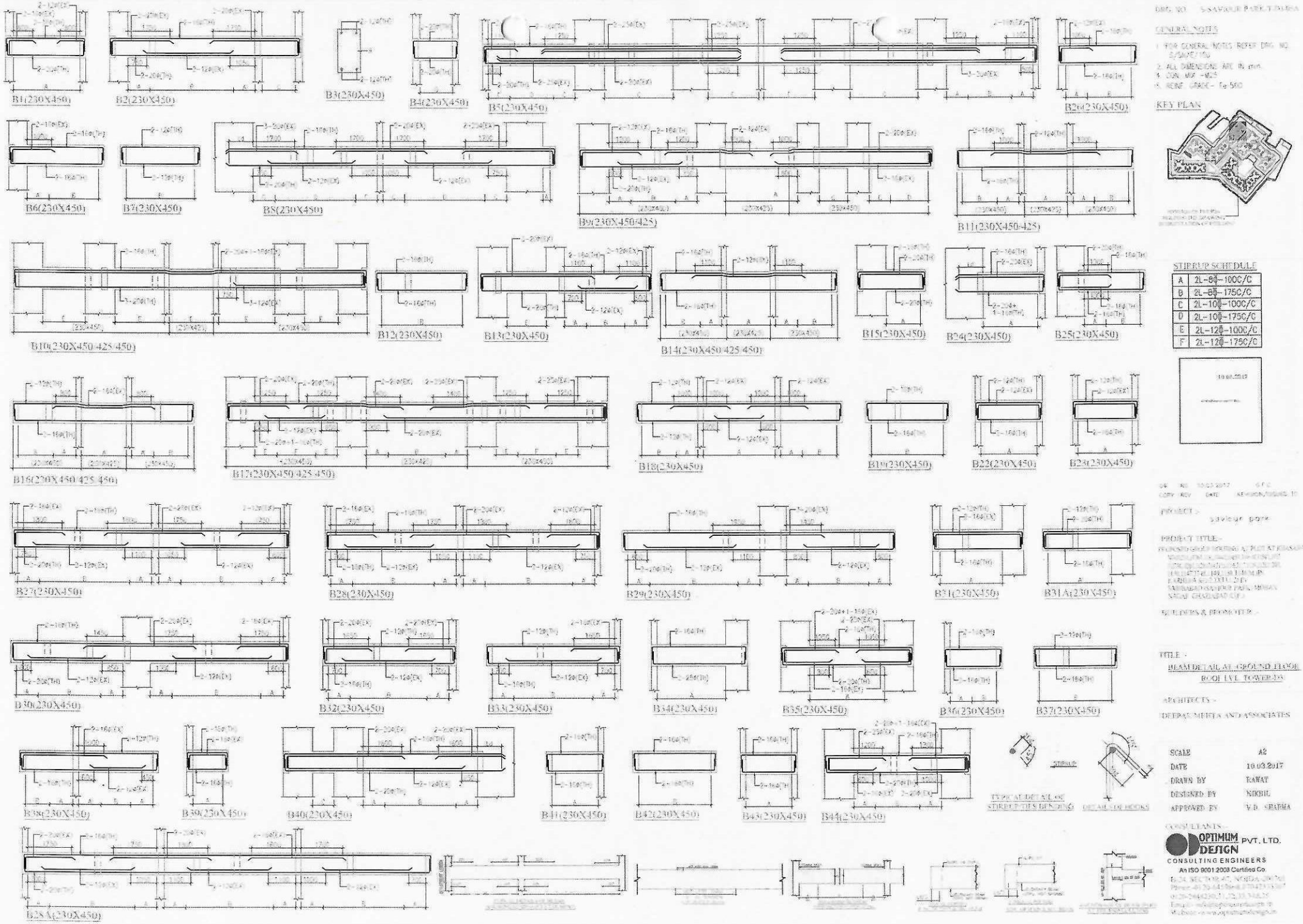
BUILDERS & PROMOTER :-

TITLE :-
FRAMING PLAN AT GROUND FLOOR
ROOF LVL TOWER-D5

ARCHITECTS :-
DEEPAL NIGAM AND ASSOCIATES

SCALE	A2
DATE	10.03.2017
DRAWN BY	KAWAL
DESIGNED BY	NIKHIL
APPROVED BY	V.D. SHARMA

CONSULTANTS :-
OPTIMUM DESIGN PVT. LTD.
CONSULTING ENGINEERS
An ISO 9001:2008 Certified Co.



DRG. NO. : S-SAVIOUR PARK-T-DUBSA

GENERAL NOTES

1. FOR GENERAL NOTES REFER DRG. NO. S-SAVIOUR-T(0)
2. ALL DIMENSIONS ARE IN mm.
3. CON. MIX - M25
4. REINF. GRADE - Fe 500

KEY PLAN

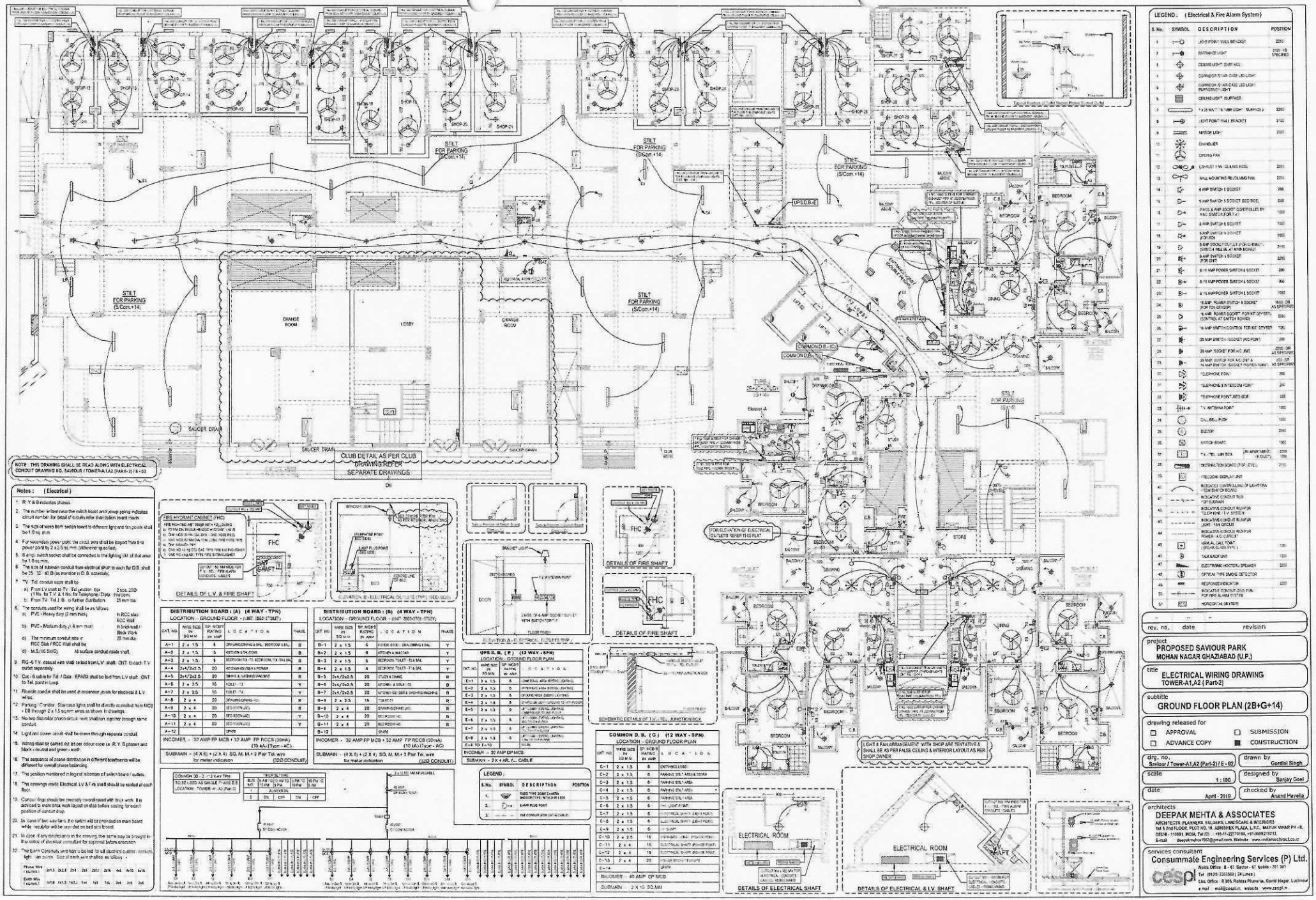
STIRRUP SCHEDULE

A	2L-8ϕ-100C/C
B	2L-8ϕ-175C/C
C	2L-10ϕ-100C/C
D	2L-10ϕ-175C/C
E	2L-12ϕ-100C/C
F	2L-12ϕ-175C/C

DR. NO.	DATE	CHK.
COPY REV.	DATE	REVISION/ISSUED TO

PROJECT :-
SAVIOUR PARK

PROJECT TITLE :-
PROPOSED RESIDENTIAL PLOT AT DUBSAR'S
KHASRA NO. 1/1/1/



NOTE : THIS DRAWING SHALL BE READ ALONG WITH ELECTRICAL CONDUIT DRAWING NO. SAVIOUR / TOWER-A1,A2 (PART-2) / E - 03

Notes : (Electrical)

1. R, Y & B indicates phases.
2. The number written near the switch board and power points indicates circuit number. for detail of circuits refer distribution board charts
3. The size of wires from switch board to different light and fan points shall be 1.0 sq. mm.
4. For secondary power point, the circuit wire shall be looped from first power point by 2 x 2.5 sq. mm. (Wherever specified).
5. 6 amp. switch socket shall be connected in the lighting dkt. of that area by 1.0 sq.mm.
6. The size of submain conduit from electrical shaft to each flat D.B. shall be 25 - 32 - 40 Ø (as mention in D. B. schematic).
7. 'TV, Tel. conduit sizes shall be
   a) From LV shaft to TV, Tel junction box (1 No. for T.V. & 1 No. for Telephone / Data) — 2 nos. 25Ø (minimum)
   b) From TV, Tel J. B. to further distributors — 25 mm dia
8. The conduits used for wiring shall be as follows
   a) PVC - Heavy duty (2 mm thick) — In RCC slab / RCC Wall
   b) PVC - Medium duty (1.6 mm thick) — In brick wall / Block Work
   c) The minimum conduit size in RCC Slab / RCC Wall shall be — 25 mm dia.
   d) M.S.(16 SWG) — All surface conduit inside shaft.
9. RG-6 T.V. coaxial wire shall be laid from L.V. shaft : ONT to each T.V. outlet separately.
10. Cat - 6 cable for Tel / Data : EPABX shall be laid from L.V shaft : ONT to Tel. point in Loop.
11. Flexible conduit shall be used at expansion joints for electrical & L.V. wires.
12. Parking / Corridor : Staircase lights shall be directly controlled from MCB - DB through 2 x 1.5 sq.mm. wires as shown in drawings.
13. No two dissimilar phase circuit wire shall run together through same conduit.
14. Light and power circuit shall be drawn through separate conduit.
15. Wiring shall be carried out as per colour code i.e. R, Y, B phases and black - neutral and green - earth.
16. The sequence of phase distribution in different apartments will be different for overall phase balancing.
17. The position mentioned in legend is bottom of switch board / outlets.
18. The openings made Electrical, LV & Fire shaft should be sealed at each floor.
19. Conduit drop should be precisely coordinated with false work. It is advised to make shaft layout on slab before casting for exact position of conduit drop.
20. In case of two way fans, the switch will be provided on main board while regulator will be provided on bed side board.
21. In case if any discrepancy in the drawings, the same may be brought to the notice of electrical consultant for approval before execution.
22. The Earth Continuity wire has to be laid for all electrical outlets / sockets, light / fan points. Size of earth wire shall be as follows :

Phase Wire (sq.mm.)	2x1.5	2x2.5	2x4	2x6	2x10	2x16	4x6	4x10	4x16
Earth Wire (sq.mm.)	1x1.5	1x1.5	1x2.5	1x4	1x6	1x6	2x4	2x6	2x6

DISTRIBUTION BOARD : (A) (4 WAY - TPN)
LOCATION : GROUND FLOOR - UNIT (BED-1ST UNIT)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION	PHASE
A-1	2 x 1.5	6	DRAWING/DINING & BAL., BEDROOM-1 BAL.	B
A-2	2 x 1.5	6	KITCHEN & T-1, FOYER	B
A-3	2 x 1.5	6	BEDROOM-1(2-TG), BEDROOM-1(T-1) & BAL.	B
A-4	2x4/2x2.5	20	KITCHEN-01(SPL) & POWER	R
A-5	2x4/2x2.5	20	DINING & WASHING MACHINE	R
A-6	2 x 2.5	16	TOILET - T-2	Y
A-7	2 x 2.5	16	TOILET - T-1	Y
A-8	2 x 4	20	DRAWING/DINING (AC)	R
A-9	2 x 4	20	BED ROOM (AC)	R
A-10	2 x 4	20	BED ROOM (AC)	Y
A-11	2 x 4	20	BED ROOM (AC)	Y
A-12			SPARE	

INCOMER - 32 AMP FP MCB + 32 AMP FP RCCB (30mA) (10 kA) (Type - AC)
SUBMAIN - (4 X 6) + (2 X 4) SQ. M. M.+3 Pair Tel. wire for meter indication (32Ø CONDUIT)

DISTRIBUTION BOARD : (B) (4 WAY - TPN)
LOCATION : GROUND FLOOR - UNIT (BEDROOM-STUDY)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION	PHASE
B-1	2 x 1.5	6	FOYER STUDY, DRAWING & BAL.	Y
B-2	2 x 1.5	6	KITCHEN & BALCONY	Y
B-3	2 x 1.5	6	BEDROOM, TOILET - T-1 & BAL.	Y
B-4	2 x 1.5	6	BEDROOM, TOILET - T-1 & BAL.	Y
B-5	2x4/2x2.5	20	STUDY & DINING	R
B-6	2x4/2x2.5	20	KITCHEN & TOILET - T-2	B
B-7	2x4/2x2.5	20	KITCHEN-02 (SPL) & WASHING MACHINE	B
B-8	2 x 2.5	16	TOILET-T-1	R
B-9	2 x 4	20	DRAWING/DINING (AC)	R
B-10	2 x 4	20	BED ROOM (AC)	B
B-11	2 x 4	20	BED ROOM (AC)	R
B-12			SPARE	

INCOMER - 32 AMP FP MCB + 32 AMP FP RCCB (30mA) (10 kA) (Type - AC)
SUBMAIN - (4 X 6) + (2 X 4) SQ. M. M.+ 3 Pair Tel. wire for meter indication (32Ø CONDUIT)

UPS S. B. (E) (12 WAY - SPN)
LOCATION : GROUND FLOOR PLAN

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION
E-1	2 x 1.5	6	LOBBY, CORRIDOR & BAL. (EMERGENCY LIGHTING)
E-2	2 x 1.5	6	STAIRCASE AREA (EMERGENCY LIGHTING)
E-3	2 x 1.5	6	GARAGE AREA (EMERGENCY LIGHTING)
E-4	2 x 1.5	6	STAIRCASE LIGHT - GROUND TO FIFTH FLOOR
E-5	2 x 1.5	6	LIFT LOBBY (CEILING LIGHTING) & LANDSCAPE LIGHTING
E-6	2 x 1.5	6	LIFT LOBBY (CEILING LIGHTING) & LANDSCAPE LIGHTING
E-7	2 x 1.5	6	LIFT LOBBY (CEILING LIGHTING) & LANDSCAPE LIGHTING
E-8	2 x 1.5	6	LIFT LOBBY (CEILING LIGHTING) & LANDSCAPE LIGHTING
E-9 TO E-12			SPARE

INCOMER - 20 AMP DP MCB
SUBMAIN - 2 X (4Ø, A... CABLE

COMMON D. B. (C) (12 WAY - SPN)
LOCATION : GROUND FLOOR PLAN

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION
C-1	2 x 1.5	6	ENTRANCE LOBBY
C-2	2 x 1.5	6	PARKING STN.-1 AREA & STORE
C-3	2 x 1.5	6	PARKING STN.-2 AREA
C-4	2 x 1.5	6	PARKING STN.-3 AREA
C-5	2 x 1.5	6	PARKING STN.-4 AREA
C-6	2 x 1.5	6	TW... LIGHT POINT
C-7	2 x 1.5	6	ELECTRICAL SHAFT-1 AREA POINTS
C-8	2 x 1.5	6	ELECTRICAL SHAFT-2 AREA POINTS
C-9	2 x 1.5	6	LIFT SHAFT
C-10	2 x 2.5	16	HYDRANT LINE POWER POINT
C-11	2 x 4	16	ELECTRICAL SHAFT POWER POINT
C-12	2 x 4	16	ELECTRICAL SHAFT POWER POINT
C-13	2 x 4	20	POWER SPARE / SPARE
C-14			SPARE

INCOMER - 40 AMP DP MCB
SUBMAIN - 2 X 10 SQ.MM

LEGEND :

S. No.	SYMBOL	DESCRIPTION	POSITION
1.		FIXED TYPE DOME CAMERA (INDOOR TYPE) WITH IR LEDS	
2.		6 AMP PLUG POINT	
3.		FM CONDUIT (4Ø CAT-6 CABLE)	

LIGHT & FAN ARRANGEMENT WITH SHOP ARE TENTATIVE & SHALL BE AS PER FALSE CEILING & INTERIOR LAYOUT AS PER SHOP OWNER

LEGEND : (Electrical & Fire Alarm System)

S. No.	SYMBOL	DESCRIPTION	POSITION
1		JOINT POINT / WALL BRACKET	2250
2		ENTRANCE LIGHT	2100 / AS SPECIFIED
3		CEILING LIGHT (SURFACE)	
4		CORRIDOR / STAIR CASE LED LIGHT	
5		CORRIDOR / STAIR CASE LED LIGHT / EMERGENCY LIGHT	
6		CEILING LIGHT (SURFACE)	
7		1 X 20 WATT T-5 TUBE LIGHT - SURFACE)	2250
8		LIGHT POINT / WALL BRACKET	2100
9		MIRROR LIGHT	2100
10		CHANDELIER	
11		CEILING FAN	
12		EXHAUST FAN - CEILING ROSE	2250
13		WALL MOUNTING / BUILDING FAN	2250
14		6 AMP SWITCH & SOCKET	2100
15		6 AMP SWITCH & SOCKET (BED SIDE)	500
16		2 NOS. 6 AMP SOCKET CONTROLLED BY 1 NO. SWITCH FOR T.V.	1000
17		6 AMP SWITCH & SOCKET	1000
18		6 AMP SWITCH & SOCKET (FOR IRON)	1000
19		6 AMP SOCKET OUTLET (FOR GEYSER) (SWITCH WILL BE AT MAIN BOARD)	2100
20		6 AMP SWITCH & SOCKET (FOR GYM)	2250
21		6 / 16 AMP POWER SWITCH & SOCKET	2100
22		6 / 16 AMP POWER SWITCH & SOCKET	900
23		6 / 16 AMP POWER SWITCH & SOCKET	1000
24		16 AMP. POWER SWITCH & SOCKET (FOR TOW GEYSER)	1000 OR AS SPECIFIED
25		16 AMP. POWER SOCKET FOR KIT. GEYSER (CONTROL AT SWITCH BOARD)	2250
26		16 AMP SWITCH CONTROL FOR KIT. GEYSER	1250
27		25 AMP SWITCH / SOCKET (A/C POINT)	2100
28		25 AMP SOCKET FOR A/C UNIT	2250 OR AS SPECIFIED
29		25 AMP SWITCH FOR A/C UNIT & 16 AMP SWITCH / SOCKET PLUG POINT	2250 OR AS SPECIFIED
30		TELEPHONE POINT	2100
31		TELEPHONE & INTERCOM POINT	2100
32		TELEPHONE POINT (BED SIDE)	1000
33		T.V. ANTENNA POINT	1000
34		CALL BELL PUSH	1000
35		BUZZER	2250
36		SWITCH BOARD	1250
37		T.V. / TEL. JUNCTION BOX (IN APARTMENT / IN COURT)	2250 / 1250
38		DISTRIBUTION BOARD (TOP LEVEL)	2100
39		INTERCOM - DISPLAY UNIT	
40		INDICATIVE CONTROLLING OF LIGHT / FAN SWITCH BOARD	
41		INDICATIVE CONDUIT RUN FOR SUBMAIN	
42		INDICATIVE CONDUIT RUN FOR TELEPHONE / T.V. SYSTEM	
43		INDICATIVE CONDUIT RUN FOR LIGHT / FAN CIRCUS	
44		INDICATIVE CONDUIT RUN FOR POWER / A/C CIRCUIT	
45		MANUAL CALL POINT (BREAK GLASS TYPE)	1250
46		TALK BACK UNIT	1250
47		ELECTRONIC HOOTER / SPEAKER	2250
48		OPTICAL TYPE SMOKE DETECTOR	
49		RESPONSE INDICATOR	2250
50		INDICATIVE CONDUIT (25Ø) RUN FOR FIRE ALARM SYSTEM	
51		HORIZONTAL GEYSER	

rev. no.	date	revision
..	..	..

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
ELECTRICAL WIRING DRAWING
TOWER-A1,A2 (Part-2)

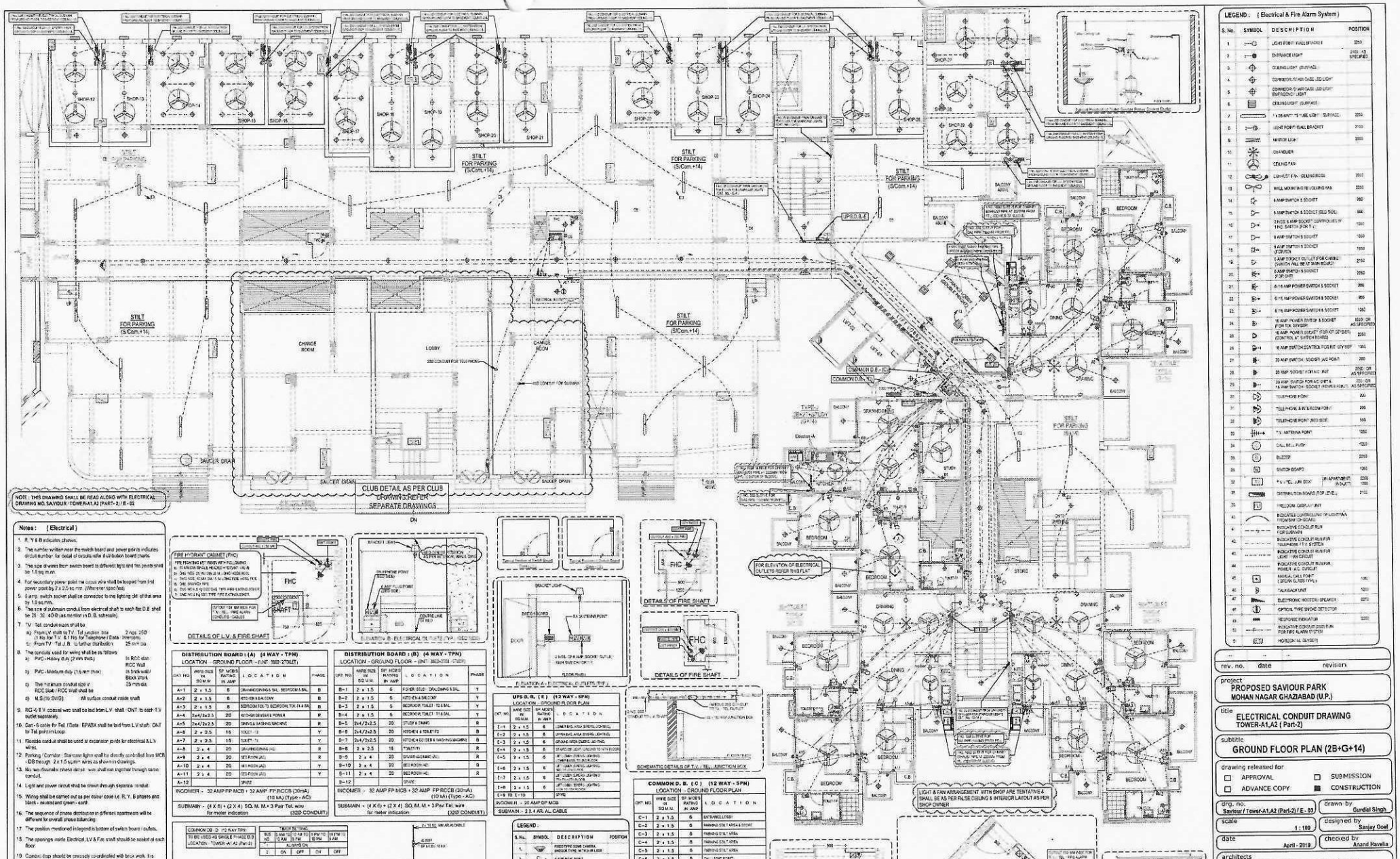
subtitle
GROUND FLOOR PLAN (2B+G+14)

drawing released for
☐ APPROVAL ☐ SUBMISSION
☐ ADVANCE COPY ■ CONSTRUCTION

drg. no.	drawn by
Saviour / Tower-A1,A2 (Part-2) / E - 02	Gurdial Singh
scale	designed by
1 : 100	Sanjay Goel
date	checked by
April - 2019	Anand Havelia

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DEEPAK MEHTA & ASSOCIATES
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Notes : (Electrical)

1. R, Y & B indicates phases.
2. The number written near the switch board and power points indicates circuit number for detail of circuits refer distribution board charts.
3. The size of wires from switch board to different light and fan points shall be 1.5 sq.mm.
4. For secondary power point the circuit wire shall be looped from first power point by 2 x 2.5 sq.mm. (Wherever specified).
5. 5 amp. switch socket shall be connected to one lighting circuit of that area by 1.5 sq.mm.
6. The size of submain conduit from electrical shaft to each flat D.B. shall be 25 , 32 , 40 Ø (as mention in D.B. schedule).
7. 'TV Tel. conduit sizes shall be :
   a) From LV shaft to TV Tel junction box : 2 nos. 25Ø
   b) From TV Tel J.B. to further distribution : 25 mm dia
8. The conduits used for wiring shall be as follows :
   a) PVC - Heavy duty (2 mm thick) — In RCC slab / RCC Wall
   b) PVC - Medium duty (1.6 mm thick) — In brick wall / Block Work
   c) The minimum conduit size in RCC Slab / RCC Wall shall be — 25 mm dia
   d) M.S.(16 SWG) — All surface conduit inside shaft
9. RG-6 T.V. coaxial wire shall be laid from L.V. shaft / ONT to each T.V. outlet separately.
10. Cat - 6 cable for Tel. / Data - EPABX shall be laid from L.V shaft / ONT to Tel. point in Logia.
11. Flexible conduit shall be used at expansion joints for electrical & L.V. wires.
12. Parking / Corridor / Staircase lights shall be directly controlled from MCB / DB through 2 x 1.5 sq.mm. wires as shown in drawings.
13. No two dissimilar power circuit wire shall run together through same conduit.
14. Light and power circuit shall be drawn through separate conduit.
15. Wiring shall be carried out as per colour code i.e. R, Y, B phases and black - neutral and green - earth.
16. The sequence of phase distribution in different apartments will be different for overall phase balancing.
17. The position mentioned in legend is bottom of switch board / outlets.
18. The openings inside Electrical, LV & Fire shaft should be sealed at each floor.
19. Conduit drop should be previously coordinated with brick work. It is advised to mark brick work layout on slab before casting for exact position of conduit drop.
20. In case of two way fans, the switches will be provided on main board, while regulator will be provided on bed side board.
21. In case of any discrepancy in the drawing, the same may be brought to the notice of electrical consultant for approval before execution.
22. The Earth Continuity wire has to be laid for all electrical outlets - sockets light - fan points. Size of earth wire shall be as follows :-

Phase Wire (sq.mm)	2x1.5	2x2.5	2x4	2x6	2x10	2x16	4x6	4x10	4x16
Earth Wire (sq.mm)	1x1.5	1x1.5	1x2.5	1x4	1x6	1x6	1x6	2x6	2x6	2x6

FIRE HOSEMAT CABINET (FHC) — FIRE FIGHTING KIT ARRANGEMENT IN FHC: a) 15 MINDEN BRASS HEADED HYDRANT VALVE b) 2No. NOS. 20 M LONG (4.5 kg.) LINED HOSE REEL c) 2 NOS. NOS. 45 MM DIA 1.5 M LONG FIRE NOZZLE d) 2No. BRANCH PIPE e) ONE NO. 4.5 kg CO2 GAS TYPE FIRE EXTINGUISHER f) ONE NO. 9 kg ABC TYPE FIRE EXTINGUISHER — DETAIL OF LV. & FIRE SHAFT

DETAIL OF ELECTRICAL OUTLETS (TYP. SELECTION)

DETAIL A - ELECTRICAL OUTLETS (TYP.)

SCHEMATIC DETAILS OF T.V. / TEL. JUNCTION BOX

DISTRIBUTION BOARD : (A) (4 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT- 3BED-2TOILET)

DIST. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION	PHASE
A-1	2 x 1.5	6	DRAWING/DINING & BAL. BEDROOM-A BAL.	B
A-2	2 x 1.5	6	KITCHEN & BALCONY	B
A-3	2 x 1.5	6	BEDROOM-TOILET, BEDROOM, TOILET-A & BAL.	B
A-4	2x4/2x2.5	20	KITCHEN (EXHAUST & POWER)	R
A-5	2x4/2x2.5	20	DRYING & WASHING MACHINE	R
A-6	2 x 2.5	16	TOILET - TV	Y
A-7	2 x 2.5	16	TOILET - TV	Y
A-8	2 x 4	20	DRAWING/DINING (AC)	R
A-9	2 x 4	20	BED ROOM (AC)	R
A-10	2 x 4	20	BED ROOM (AC)	Y
A-11	2 x 4	20	BED ROOM (AC)	Y
A-12			SPARE	

INCOMER :- 32 AMP FP MCB + 32 AMP FP RCCB (30mA) (10 kA) (Type - AC)
SUBMAIN :- (4 X 6) + (2 X 4) SQ. M. M.+ 3 Par Tel. wire for meter indication (32Ø CONDUIT)

DISTRIBUTION BOARD : (B) (4 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT- 3BED-TOILET - STUDY)

DIST. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION	PHASE
B-1	2 x 1.5	6	KISHEN &LIVING & BAL.	Y
B-2	2 x 1.5	6	KITCHEN & BALCONY	Y
B-3	2 x 1.5	6	BEDROOM, TOILET-TO & BAL.	Y
B-4	2 x 1.5	6	BEDROOM, TOILET, TT & BAL.	Y
B-5	2x4/2x2.5	20	STUDY & TWINS	R
B-6	2x4/2x2.5	20	KITCHEN & TOILET-TO	B
B-7	2x4/2x2.5	20	KITCHEN (EXHAUST & WASHING MACHINE)	B
B-8	2 x 2.5	16	TOILET-TT	R
B-9	2 x 4	20	DRAWING/DINING (AC)	R
B-10	2 x 4	20	BEDROOM (AC)	B
B-11	2 x 4	20	BEDROOM (AC)	R
B-12			SPARE	

INCOMER :- 32 AMP FP MCB + 32 AMP FP RCCB (30mA) (10 kA) (Type - AC)
SUBMAIN :- (4 X 6) + (2 X 4) SQ. M. M.+ 3 Par Tel. wire for meter indication (32Ø CONDUIT)

UPS D. B. (E) (12 WAY - SPN)
LOCATION - GROUND FLOOR PLAN

DIST. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION
E-1	2 x 1.5	6	LOBBY &BAL.-AREA (EXHAUST)
E-2	2 x 1.5	6	LOBBY &BAL.-AREA (LIGHTING)
E-3	2 x 1.5	6	GROUND FLOOR (LIGHTING)
E-4	2 x 1.5	6	STAIRCASE LIGHT (GROUND TO 4TH FLOOR)
E-5	2 x 1.5	6	LIFT - LOBBY (EXHAUST) - LIFT - LOBBY (LIGHTING) - LIFT - MACHINE ROOM
E-6	2 x 1.5	6	LIFT - LOBBY (EXHAUST) - LIFT - LOBBY (LIGHTING) - LIFT - MACHINE ROOM
E-7	2 x 1.5	6	LIFT - LOBBY (EXHAUST) - LIFT - LOBBY (LIGHTING) - LIFT - MACHINE ROOM
E-8	2 x 1.5	6	LIFT - LOBBY (EXHAUST) - LIFT - LOBBY (LIGHTING) - LIFT - MACHINE ROOM
E-9 TO E-10			SPARE

INCOMER :- 20 AMP DP MCB

COMMON D. B. (C) (12 WAY - SPN)
LOCATION - GROUND FLOOR PLAN

DIST. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION
C-1	2 x 1.5	6	BATHROOM (LOBBY)
C-2	2 x 1.5	6	PARKING STILT AREA & STORE
C-3	2 x 1.5	6	PARKING STILT AREA
C-4	2 x 1.5	6	PARKING STILT AREA
C-5	2 x 1.5	6	PARKING STILT AREA
C-6	2 x 1.5	6	TAIL LIGHT POINT
C-7	2 x 1.5	6	[illegible]
C-8	2 x 1.5	6	ELECTRICAL SHAFT (LIGHT POINT)
C-9	2 x 1.5	6	[illegible]
C-10	2 x 2.5	16	BOREWELL - DEEP WINDOW POINT
C-11	3 x 4	16	ELECTRICAL SHAFT (POWER POINT)
C-12	3 x 4	16	ELECTRICAL SHAFT (POWER POINT)
C-13	3 x 4	20	POWER POINT FOR LIFT SHAFT
C-14			

INCOMER :- 40 AMP DP MCB
SUBMAIN :- 2 X 10 SQ.MM

COMMON DB - D (12 WAY TPN) — TO BE USED AS SINGLE PHASE D.B. — LOCATION - TOWER -A1,A2 (PART-2)

B/S NO.	8 AM TO 12 AM	12 NN TO 5 PM	5 PM TO 10 PM	10 PM TO 8 AM
1.	ON	OFF	ON	OFF

ALWAYS ON

40 AMP DP MCB - 100 mA

TIMER DETAILING

LEGEND :

S.No.	SYMBOL	DESCRIPTION	POSITION
1.		FIXED TYPE DOME CAMERA INDOOR TYPE, WITH IR LEDS	
2.		6 AMP PLUG POINT	
3.		25Ø CONDUIT FOR CAT 6 CABLE	

LEGEND : (Electrical & Fire Alarm System)

S. No.	SYMBOL	DESCRIPTION	POSITION
1.		LIGHT POINT WALL BRACKET	2250
2.		ENTRANCE LIGHT	2100 / AS SPECIFIED
3.		CEILING LIGHT (SURFACE)	
4.		CORRIDOR / STAIR CASE LED LIGHT	
5.		CORRIDOR / STAIR CASE LED LIGHT / EMERGENCY LIGHT	
6.		CEILING LIGHT (SURFACE)	
7.		1 x 28 WATT T5 TUBE LIGHT - SURFACE	2000
8.		LIGHT POINT WALL BRACKET	2100
9.		MIRROR LIGHT	2000
10.		CHANDLIER	
11.		CEILING FAN	
12.		EXHAUST FAN - CEILING ROSE	2000
13.		WALL MOUNTING RE-VOLVING FAN	2250
14.		5 AMP SWITCH & SOCKET	900
15.		5 AMP SWITCH & SOCKET (SEE SIDE)	550
16.		3 PIN 5 AMP SOCKET CONTROLLED BY 1 NO. SWITCH (FOR T.V.)	1000
17.		5 AMP SWITCH & SOCKET	1000
18.		5 AMP SWITCH & SOCKET (CEILING)	1000
19.		5 AMP SOCKET OUTLET FOR CHIMNEY (SWITCH WILL BE AT MAIN BOARD)	2150
20.		5 AMP SWITCH & SOCKET (FOR GEYSER)	2000
21.		6 / 16 AMP POWER SWITCH & SOCKET	900
22.		6 / 16 AMP POWER SWITCH & SOCKET	900
23.		6 / 16 AMP POWER SWITCH & SOCKET	1200
24.		16 AMP. POWER SWITCH & SOCKET (FOR TDK CHIMNEY)	1500 / OR AS SPECIFIED
25.		16 AMP. POWER SOCKET (FOR KIT CHIMNEY) (CONTROL AT SWITCH BOARD)	2200
26.		16 AMP SWITCH CONTROL FOR KIT. CHIMNEY	1200
27.		20 AMP SWITCH, SOCKET, AC POINT	2000
28.		20 AMP SOCKET FOR AC UNIT	2100 / OR AS SPECIFIED
29.		20 AMP SWITCH FOR AC UNIT & 16 AMP SWITCH, SOCKET (POWER POINT)	2100 / OR AS SPECIFIED
30.		TELEPHONE POINT	2000
31.		TELEPHONE & INTERCOM POINT	2000
32.		TELEPHONE POINT (BED SIDE)	1500
33.		T.V. ANTENNA POINT	1200
34.		CALL BELL PUSH	1200
35.		BUZZER	2200
36.		SWITCH BOARD	1200
37.		T.V. / TEL. JUN. BOX — IN APARTMENT / IN DUCT	2000 / 1500
38.		DISTRIBUTION BOARD (TOP LEVEL)	2100
39.		FREEDOM DISPLAY UNIT	
40.		INDICATIVE CONDUIT RUN FOR LIGHT / FAN CIRCUIT FROM SWITCH BOARD	
41.		INDICATIVE CONDUIT RUN FOR SUBMAIN	
42.		INDICATIVE CONDUIT RUN FOR TELEPHONE / T.V. SYSTEM	
43.		INDICATIVE CONDUIT RUN FOR LIGHT / FAN CIRCUIT	
44.		INDICATIVE CONDUIT RUN FOR PHONE / INTERCOM CIRCUIT	
45.		MANUAL CALL POINT (BREAK GLASS PATTERN)	1200
46.		TALK BACK UNIT	1200
47.		ELECTRONIC HOOTER / SPEAKER	2200
48.		OPTICAL TYPE SMOKE DETECTOR	
49.		RESPONSE INDICATOR	2200
50.		INDICATIVE CONDUIT (25Ø) RUN FOR FIRE ALARM SYSTEM	
51.		HORIZON (AI DEVICE)	

rev. no.	date	revision
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project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
ELECTRICAL CONDUIT DRAWING TOWER-A1,A2 (Part-2)

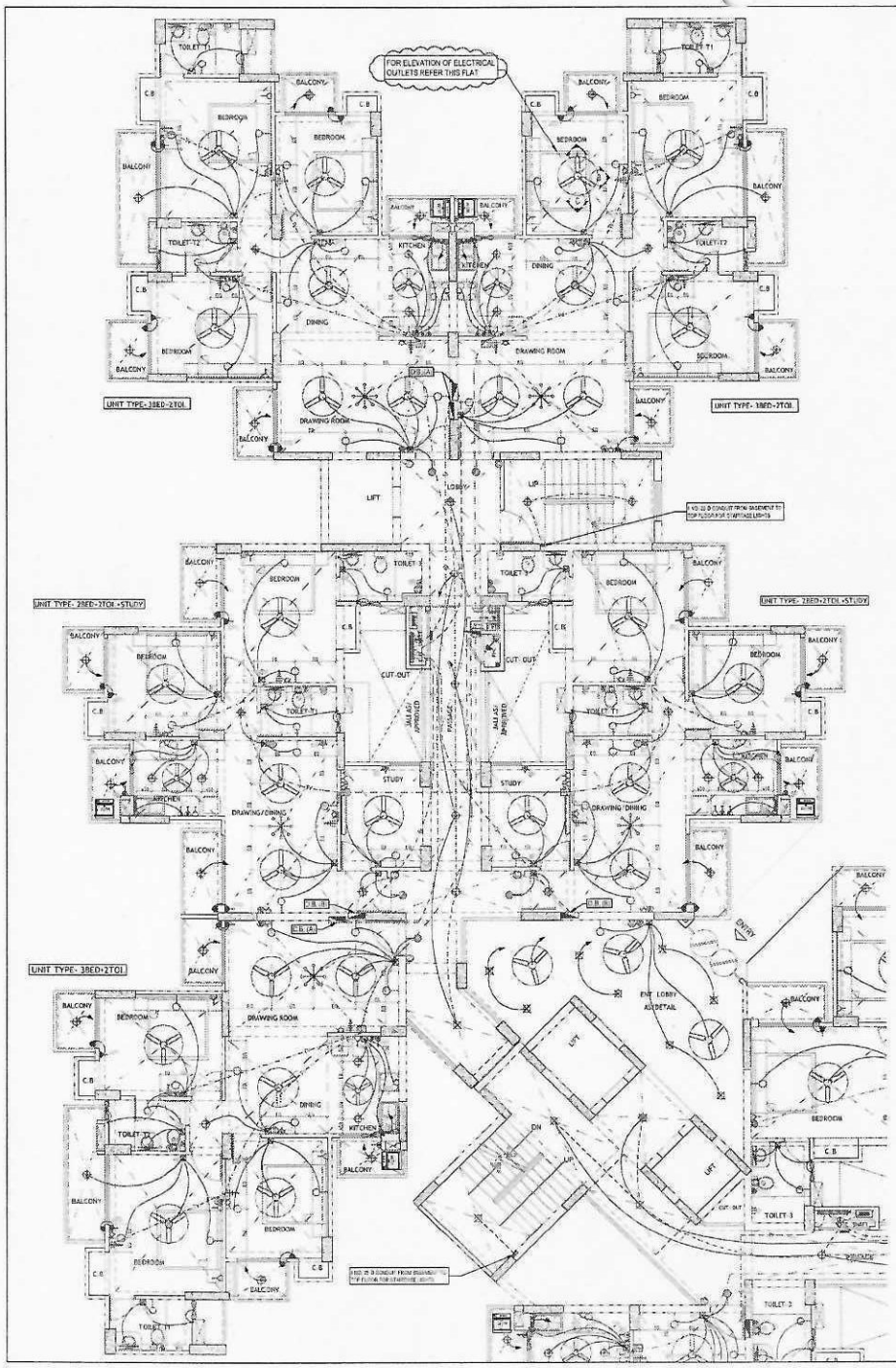
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GROUND FLOOR PLAN (2B+G+14)

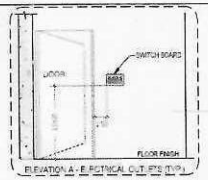
drawing released for
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☐ ADVANCE COPY ■ CONSTRUCTION

drg. no.	drawn by
Saviour / Tower-A1,A2 (Part-2) / E - 03	Gurdial Singh
scale	designed by
1 : 100	Sanjay Goel
date	checked by
April - 2019	Anand Havelia

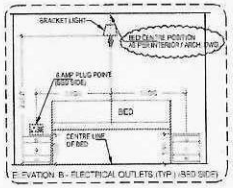
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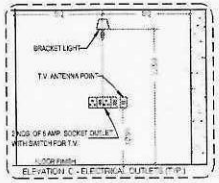




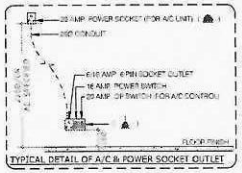
ELEVATION A - ELECTRICAL OUTLETS (TYP.)



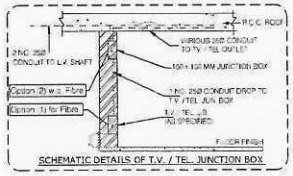
ELEVATION B - ELECTRICAL OUTLETS (TYP.) (BED SIDE)



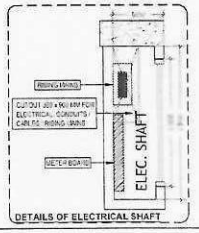
ELEVATION C - ELECTRICAL OUTLETS (TYP.)



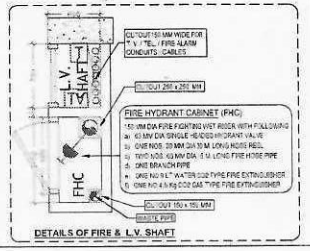
TYPICAL DETAIL OF A/C & POWER SOCKET OUTLET



SCHEMATIC DETAILS OF T.V. / TEL. JUNCTION BOX



DETAILS OF ELECTRICAL SHAFT



DETAILS OF FIRE & L.V. SHAFT

Notes : (Electrical)

1. R, Y & B indicates phases.
2. The number written near the switch board and power points indicates circuit number. for detail of circuits refer distribution board charts.
3. The size of wires from switch board to different light and fan points shall be 1.0 sq. m.m.
4. For secondary power point the circuit wire shall be looped from first power point by 2 x 2.5 sq.mm. (Wherever specified)
5. 6 amp. plug shall be connected to the lighting ckt. of that area.
6. The size of submain conduit from electrical shaft to each flat D.B. shall be 25 / 32 / 40 Ø (as mention in D. B. schedule).
7. TV / Tel. conduit sizes shall be 25 mm dia.
8. The conduits used for wiring shall be as follows
   a) Heavy duty (2 mm thick) — In r.c.c. slab
   b) medium duty (1.5 mm thick) — In brick wall
9. Flexible conduit shall be used at expansion joints for electrical & L.V. wires.
10. Parking / Corridor / Staircase lights shall be directly controlled from MCB - DB through 2 x 1.5 sq.mm wires as shown in drawings.
11. No two dissimilar phase circuit / wire shall run together through same conduit.
12. Light and power circuit shall be drawn through separate conduit.
13. Wiring shall be carried out as per colour code i.e. R, Y, B phases and black - neutral and green - earth.
14. The sequence of phase distribution in different apartments will be different for overall phase balancing.
15. The position mentioned in legend is bottom of switch board / outlets.
17. In case of any discrepancy in the drawing, the same may be brought to the notice of electrical consultant for approval before execution.
18. Size of earth wire shall be as follows :-

Phase Wire (sq.mm.)	3x1.5	2x2.5	2x4	2x6	2x10	2x16	4x6	4x10	4x16
Earth Wire (sq.mm.)	1x1.0	1x1.5	1x2.5	1x4	1x6	1x6	1x1	2x4	2x6

LEGEND : (Electrical & Fire Alarm System)

S. No.	SYMBOL	DESCRIPTION	POSITION
1.		LIGHT POINT, WALL BRACKET	2250
2.		ENTRANCE LIGHT	2400
3.		CEILING LIGHT (SURFACE)	
4.		1 x 28 WATT T5 TUBE LIGHT (SURFACE)	2700
5.		MIRROR LIGHT	2050
6.		CHANDLIER	
7.		CEILING FAN	
8.		EXHAUST FAN - CEILING RIDGE	2200
9.		6 AMP PLUG POINT	200
10.		6 AMP PLUG POINT (BED SIDE)	550
11.		2 NOS. OF 6 AMP. SOCKET OUTLET WITH SWITCH FOR T.V.	1050
12.		6 AMP PLUG POINT	1050
13.		6 AMP SOCKET OUTLET (FOR CHIMNEY) (SWITCH WILL BE AT MAIN BOARD)	2150
14.		6 / 16 AMP POWER POINT	200
15.		6 / 16 AMP POWER POINT	300
16.		6 / 16 AMP POWER POINT	1050
17.		16 AMP. POWER POINT (FOR TOILET GEYSER)	1800 / OR AS SPECIFIED
18.		16 AMP. POWER SOCKET (FOR KITCHEN TOP) (CONTROL AT SWITCH BOARD)	2200
19.		16 AMP SWITCH CONTROL FOR KIT. GEYSER	1050
20.		20 AMP. AC POINT	200
21.		20 AMP. SOCKET FOR A/C UNIT	2350 / OR AS SPECIFIED
22.		20 AMP. SWITCH FOR A/C UNIT & 16 AMP SWITCH / SOCKET (POWER POINT)	200 / OR AS SPECIFIED
23.		TELEPHONE POINT	200
24.		TELEPHONE & INTERCOM POINT	200
25.		TELEPHONE POINT (BED SIDE)	550
26.		T.V. ANTENNA POINT	1050
27.		CALL BELL PUSH	1050
28.		BUZZER	2100
29.		SWITCH BOARD	1050
30.		SWITCH BOARD IN DUCT	1200
31.		TELEPHONE TAG BLOCK IN APARTMENT / IN DUCT	200 / 1200
32.		DISTRIBUTION BOARD	1200
33.		INDICATES CONTROLLING OF LIGHT/FAN FROM SWITCH BOARD	
34.		INDICATIVE CONDUIT RUN FOR SUBMAIN	
35.		INDICATIVE CONDUIT RUN FOR TELEPHONE / T.V. SYSTEM	
36.		INDICATIVE CONDUIT (25Ø) RUN FOR FIRE ALARM SYSTEM	
37.		MANUAL CALL POINT (BREAK GLASS TYPE)	1050
38.		ELECTRONIC HOOTER / BEAKER	2250
39.		OPTICAL TYPE SMOKE DETECTOR	
40.		RESPONSE INDICATOR	2250

DISTRIBUTION BOARD : (A) (6 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT- 3BED+2TOI)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP	L O C A T I O N	PHASE
A-1	2 x 1.5	6	DRAWING ROOM & BALCONY	R
A-2	2 x 1.5	6	KITCHEN & BALCONY	R
A-3	2 x 1.5	6	DINING, BEDROOM & BAL	R
A-4	2 x 1.5	6	BEDROOM, TOILET - T2 & BAL	R
A-5	2 x 1.5	6	BEDROOM, TOILET - T1 & BAL	R
A-6	2 x 4	16	KITCHEN	Y
A-7	2x4/2x2.5	16	DINING & WASHING MACHINE	Y
A-8	2 x 4	16	TOILET - T2	B
A-9	2 x 4	16	TOILET - T1	B
A-10	2 x 4	20	DRAWING ROOM (AC)	Y
A-11	2 x 4	20	BED ROOM (AC)	B
A-12	2 x 4	20	BED ROOM (AC)	Y
A-13	2 x 4	20	BED ROOM (AC)	B
A-14 TO A-16			SPARE	
INCOMER - 40 AMP. FP MCB				
SUBMAIN - 4 X 10 SQ. M. M. (32Ø CONDUIT)				

DISTRIBUTION BOARD : (B) (6 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT- 2BED+2TOI. +STUDY)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP	L O C A T I O N	PHASE
B-1	2 x 1.5	6	STUDY, DRAWING/DINING & BAL	Y
B-2	2 x 1.5	6	KITCHEN & BALCONY	Y
B-3	2 x 1.5	6	BEDROOM, TOILET - T1 & BAL	Y
B-4	2 x 1.5	6	BEDROOM, TOILET - T3 & BAL	Y
B-5	2 x 4	16	STUDY	B
B-6	2 x 4	16	DINING & TOILET - T1	R
B-7	2 x 4	16	KITCHEN	B
B-8	2 x 4	16	WASHING MACHINE	B
B-9	2 x 4	16	TOILET - T3	R
B-10	2 x 4	20	DRAWING/DINING (AC)	R
B-11	2 x 4	20	BED ROOM (AC)	B
B-12	2 x 4	20	BED ROOM (AC)	R
B-13 TO B-18			SPARE	
INCOMER - 40 AMP. FP MCB				
SUBMAIN - 4 X 10 SQ. M. M. (32Ø CONDUIT)				

rev. no.	date	revision

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
ELECTRICAL DRAWING (BLOCK - B1)

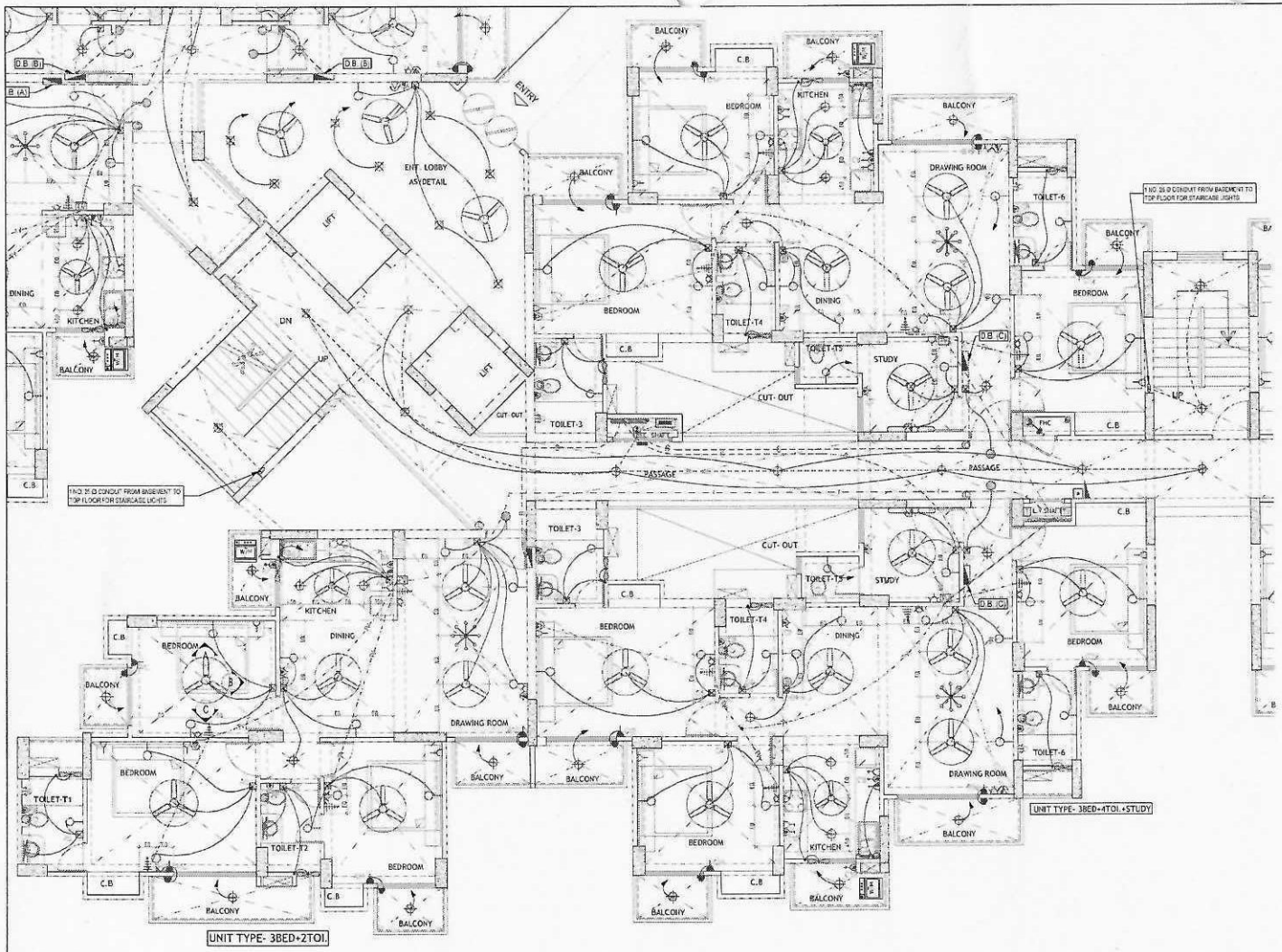
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GROUND FLOOR PLAN (2B+G+14)

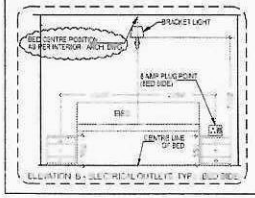
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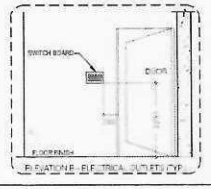
drg. no. SAVIOUR / BL - B1 / E - 03
scale 1:75 date January 2012
drawn by Gurdial ckd by Sanjay Goel
approved by Anand Kavelia

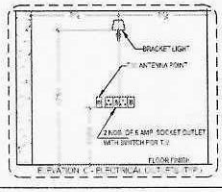
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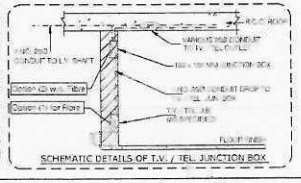
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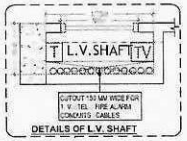


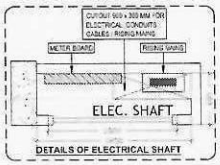


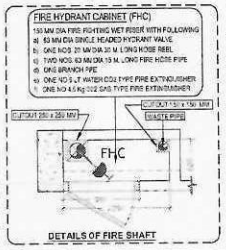


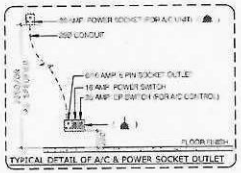












Notes : (Electrical)

1. R, Y & B indicates phases.
2. The number written near the switch board and power points indicates circuit number. for detail of circuits refer distribution board charts.
3. The size of wires from switch board to different light and fan points shall be 1.0 sq. m.m.
4. For secondary power point the circuit wire shall be looped from first power point by 2 x 2.5 sq.mm. (Wherever specified)
5. 6 amp. plug shall be connected to the lighting ckt. of that area.
6. The size of submain conduit from electrical shaft to each flat D.B. shall be 25 / 32 / 40 Ø (as mention in D. B. schedule)
7. TV / Tel. conduit sizes shall be 25 mm dia.
8. The conduits used for wiring shall be as follows
   a) Heavy duty (2 mm thick) — In r.c.c. slab
   b) medium duty (1.5 mm thick) — In brick wall
9. Flexible conduit shall be used at expansion joints for electrical & L.V. wires.
10. Parking / Corridor / Staircase lights shall be directly controlled from MCB - DB through 2 x 1.5 sq.mm wires as shown in drawings.
11. No two dissimilar phase circuit / wire shall run together through same conduit.
12. Light and power circuit shall be drawn through separate conduit.
13. Wiring shall be carried out as per colour code i.e. R, Y, B phases and black - neutral and green - earth.
14. The sequence of phase distribution in different apartments will be different for overall phase balancing.
15. The position mentioned in legend is bottom of switch board / outlets.
17. In case of any discrepancy in the drawing, the same may be brought to the notice of electrical consultant for approval before execution.
19. Size of earth wire shall be as follows :-

Phase Wire (sq.mm.)	2x1.5	2x2.5	2x4	2x6	2x10	2x16	4x5	4x10	4x16
Earth Wire (sq.mm.)	1x1.0	1x1.5	1x2.5	1x4	1x6	1x8	2x4	2x6	2x6

LEGEND : (Electrical & Fire Alarm System)

S. No.	SYMBOL	DESCRIPTION	POSITION
1.		LIGHT POINT (WALL BRACKET	2250
2.		ENTRANCE LIGHT	2450
3.		CEILING LIGHT (SURFACE)	
4.		1 x 28 WATT T5 TUBE LIGHT (SURFACE)	2100
5.		MIRROR LIGHT	2050
6.		CHANDELIER	
7.		CEILING FAN	
8.		EXHAUST FAN / CEILING FROSS	2200
9.		6 AMP PLUG POINT	300
10.		6 AMP PLUG POINT (BED SIDE)	550
11.		2 NOS. OF 6 AMP. SOCKET OUTLET WITH SWITCH FOR T.V.	1050
12.		6 AMP PLUG POINT	1050
13.		6 AMP SOCKET OUTLET (FOR CHIMNEY) (SWITCH IN K. BE AT MAIN BOARD)	2150
14.		6/16 AMP POWER POINT	300
15.		6/16 AMP POWER POINT	900
16.		6/16 AMP POWER POINT	1550
17.		16 AMP. POWER POINT (FOR TOIL GEYSER)	2600 OR AS SPECIFIED
18.		16 AMP. POWER SOCKET (FOR KIT.GEYSER) (CONTROL 'A' SWITCH BOARD)	2550
19.		16 AMP SWITCH CONTROL FOR KIT GEYSER	1050
20.		20 AMP. AC POINT	300
21.		20 AMP. SOCKET FOR AC UNIT	2250 OR AS SPECIFIED
22.		20 AMP. SWITCH FOR AC UNIT & 16 AMP SWITCH / SOCKET (POWER POINT)	2600 OR AS SPECIFIED
23.		TELEPHONE POINT	300
24.		TELEPHONE & INTERCOM POINT	300
25.		TELEPHONE POINT (BED SIDE)	600
26.		T.V. ANTENNA POINT	1050
27.		CALL BELL PUSH	1050
28.		BUZZER	2400
29.		SWITCH BOARD	1000
30.		SWITCH BOARD IN DUCT	1200
31.	TV	TELEPHONE TAG BLOCK IN APARTMENT / IN DUCT	200 / 1200
32.		DISTRIBUTION BOARD	1000
33.		INDICATES CONTROLLING OF LIGHT/FAN FROM SWITCH BOARD	
34.		INDICATIVE CONDUIT RUN FOR SUBMAIN	
35.		INDICATIVE CONDUIT RUN FOR TELEPHONE T.V. SYSTEM	
36.		INDICATIVE CONDUIT LEGH RUN FOR FIRE ALARM SYSTEM	
37.		MANUAL CALL POINT (BREAK GLASS TYPE)	1050
38.		ELECTRONIC HOOTER / SPEAKER	2250
39.		OPTICAL TYPE SMOKE DETECTOR	
40.		RESPONSE INDICATOR	2250

DISTRIBUTION BOARD : (A) (6 WAY - TPN)
LOCATION :- GROUND FLOOR - (UNIT- 3BED+2TOI.)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	L O C A T I O N	PHASE
A-1	2 x 1.5	6	DRAWING ROOM & BALCONY	R
A-2	2 x 1.5	6	KITCHEN & BALCONY	R
A-3	2 x 1.5	6	DINING, BEDROOM & BAL	R
A-4	2 x 1.5	6	BEDROOM, TOILET, T2 & BAL	R
A-5	2 x 1.5	6	BEDROOM, TOILET, T1 & BAL	R
A-6	2 x 4	16	KITCHEN	Y
A-7	2x4/2x2.5	16	DINING & WASHING MACHINE	Y
A-8	2 x 4	16	TOILET- T2	B
A-9	2 x 4	16	TOILET- T1	B
A-10	2 x 4	20	DRAWING ROOM (AC)	Y
A-11	2 x 4	20	BED ROOM (AC)	B
A-12	2 x 4	20	BED ROOM (AC)	Y
A-13	2 x 4	20	BED ROOM (AC)	B
A-14 TO A-18			SPARE	
INCOMER :- 40 AMP. FP MCB				
SUBMAIN :- 4 X 10 SQ. M. M.			(32Ø CONDUIT)	

DISTRIBUTION BOARD : (C) (6 WAY - TPN)
LOCATION :- GROUND FLOOR - (UNIT- 3BED+TOI.+STUDY)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	L O C A T I O N	PHASE
C-1	2 x 1.5	6	STUDY, DRAWING ROOM & BA...	B
C-2	2 x 1.5	6	BEDROOM, TOILET, T5 & BAL.	B
C-3	2 x 1.5	6	KITCHEN & BALCONY	B
C-4	2 x 1.5	6	DINING, BEDROOM, TOI...T4 & BAL.	B
C-5	2 x 1.5	6	BEDROOM, TOILET - T3 & BAL.	B
C-6	2 x 4	16	TOILET- T6	R
C-7	2 x 4	16	STUDY	R
C-8	2 x 4	16	DINING & TOILET-T4	R
C-9	2 x 4	16	KITCHEN	Y
C-10	2 x 4	16	KITCHEN & WASHING MACHINE	Y
C-11	2 x 4	16	TOILET- T3	Y
C-12	2 x 4	20	BED ROOM (AC)	R
C-13	2 x 4	20	DRAWING/DINING (AC)	Y
C-14	2 x 4	20	BED ROOM (AC)	R
C-15	2 x 4	20	BED ROOM (AC)	Y
C-16 TO C-18			SPARE	
INCOMER :- 40 AMP. FP MCB				
SUBMAIN :- 4 X 10 SQ. M. M.			(32Ø CONDUIT)	

rev. no.	date	revision

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
ELECTRICAL DRAWING (BLOCK - B1)

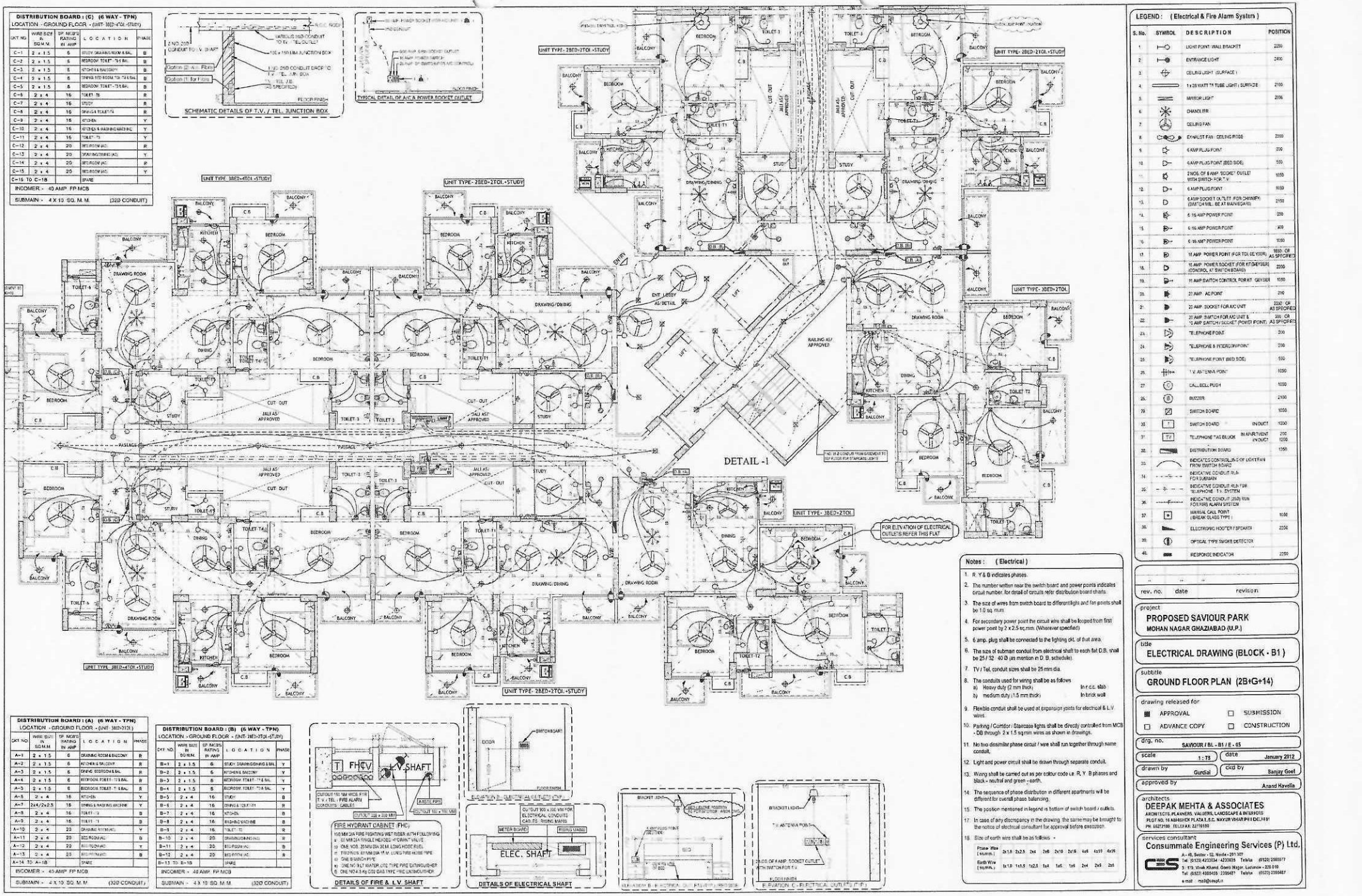
subtitle
GROUND FLOOR PLAN (2B+G+14)

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drg. no. SAVIOUR / BL - B1 / E - 04
scale 1 : 50 date January 2012
drawn by Gurdial ckd by Sanjay Goel
approved by Anand Havelia

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DISTRIBUTION BOARD : (C) (6 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT- 3BED+4TOI.+STUDY)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP	L O C A T I O N	PHASE
C-1	2 x 1.5	6	STUDY, DRAWING ROOM & BAL.	B
C-2	2 x 1.5	6	BEDROOM, TOILET - T4 & BAL.	B
C-3	2 x 1.5	6	KITCHEN & BALCONY	B
C-4	2 x 1.5	6	DINING, STD. ROOM, T3, T4 & BAL.	B
C-5	2 x 1.5	6	BEDROOM, TOILET - T3 & BAL.	B
C-6	2 x 4	16	TOILET - T5	R
C-7	2 x 4	16	STUDY	R
C-8	2 x 4	16	DINING & TOILET-T4	R
C-9	2 x 4	16	KITCHEN	Y
C-10	2 x 4	16	KITCHEN & WASHING MACHINE	Y
C-11	2 x 4	16	TOILET - T5	Y
C-12	2 x 4	20	BED ROOM (AC)	R
C-13	2 x 4	20	DRAWING/DINING (AC)	Y
C-14	2 x 4	20	BED ROOM (AC)	B
C-15	2 x 4	20	BED ROOM (AC)	Y
C-16 TO C-18			SPARE	

INCOMER - 40 AMP. FP MCB
SUBMAIN - 4 X 10 SQ. M. M. (32Ø CONDUIT)

DISTRIBUTION BOARD : (A) (6 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT- 3BED+2TOI.+STUDY)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP	L O C A T I O N	PHASE
A-1	2 x 1.5	6	DRAWING ROOM & BALCONY	R
A-2	2 x 1.5	6	KITCHEN & BALCONY	R
A-3	2 x 1.5	6	DINING, BEDROOM & BAL.	R
A-4	2 x 1.5	6	BEDROOM, TOILET - T3 & BAL.	R
A-5	2 x 1.5	6	BEDROOM, TOILET - T1 & BAL.	R
A-6	2 x 4	16	KITCHEN	Y
A-7	2x4/2x2.5	16	DINING & WASHING MACHINE	Y
A-8	2 x 4	16	TOILET - T2	B
A-9	2 x 4	16	TOILET - T1	B
A-10	2 x 4	20	DRAWING ROOM (AC)	Y
A-11	2 x 4	20	BED ROOM (AC)	B
A-12	2 x 4	20	BED ROOM (AC)	Y
A-13	2 x 4	20	BED ROOM (AC)	B
A-14 TO A-18			SPARE	

INCOMER - 40 AMP. FP MCB
SUBMAIN - 4 X 10 SQ. M. M. (32Ø CONDUIT)

DISTRIBUTION BOARD : (B) (6 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT- 2BED+2TOI.+STUDY)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP	L O C A T I O N	PHASE
B-1	2 x 1.5	6	STUDY, DRAWING/DINING & BAL.	Y
B-2	2 x 1.5	6	KITCHEN & BALCONY	Y
B-3	2 x 1.5	6	BEDROOM, TOILET - T1 & BAL.	Y
B-4	2 x 1.5	6	BEDROOM, TOILET - T2 & BAL.	Y
B-5	2 x 4	16	STUDY	B
B-6	2 x 4	16	DINING & TOILET-T1	R
B-7	2 x 4	16	KITCHEN	B
B-8	2 x 4	16	WASHING MACHINE	R
B-9	2 x 4	16	TOILET - T2	R
B-10	2 x 4	20	DRAWING/DINING	R
B-11	2 x 4	20	BED ROOM (AC)	B
B-12	2 x 4	20	BED ROOM (AC)	R
B-13 TO B-18			SPARE	

INCOMER - 40 AMP. FP MCB
SUBMAIN - 4 X 10 SQ. M. M. (32Ø CONDUIT)

LEGEND : (Electrical & Fire Alarm System)

S. No.	SYMBOL	DESCRIPTION	POSITION
1		LIGHT POINT / WALL BRACKET	2250
2		ENTRANCE LIGHT	2450
3		CEILING LIGHT (SURFACE)	
4		1 x 28 WATT TX TUBE LIGHT (SURFACE)	2100
5		MIRROR LIGHT	2050
6		CHANDELIER	
7		CEILING FAN	
8		EXHAUST FAN / CEILING RODE	2300
9		6 AMP PLUG POINT	300
10		6 AMP PLUG POINT (BED SIDE)	500
11		2 NOS. OF 6 AMP. SOCKET OUTLET WITH SWITCH - FOR T.V.	1050
12		6 AMP PLUG POINT	1050
13		6 AMP SOCKET OUTLET, FOR CHIMNEY (SWITCH WIL BE AT MAIN BOARD)	2150
14		6 / 16 AMP POWER POINT	300
15		6 / 16 AMP POWER POINT	900
16		6 / 16 AMP POWER POINT	1050
17		16 AMP. POWER POINT (FOR TOILET GEYSER)	1800 OR AS SPECIFIED
18		16 AMP. POWER SOCKET (FOR KIT.GEYSER) (CONTROL AT SWITCH BOARD)	2200
19		16 AMP SWITCH CONTROL FOR KIT. GEYSER	1050
20		20 AMP. AC POINT	2100
21		20 AMP. SOCKET FOR A/C UNIT	2200 OR AS SPECIFIED
22		20 AMP. SWITCH FOR A/C UNIT & 16 AMP. SWITCH / SOCKET (POWER POINT)	2200 OR AS SPECIFIED
23		TELEPHONE POINT	300
24		TELEPHONE & INTERCOM POINT	2300
25		TELEPHONE POINT (BED SIDE)	500
26		T.V. ANTENNA POINT	1050
27	C	CALL BELL PUSH	1050
28	B	BUZZER	2100
29		SWITCH BOARD	1050
30		SWITCH BOARD IN DUCT	1200
31	TV	TELEPHONE TAG BLOCK IN APARTMENT / IN DUCT	200 / 1200
32		DISTRIBUTION BOARD	1350
33		INDICATES CONTROLLING OF LIGHT/FAN FROM SWITCH BOARD	
34		INDICATIVE CONDUIT RUN FOR SUBMAIN	
35		INDICATIVE CONDUIT RUN FOR TELEPHONE / T.V. SYSTEM	
36		INDICATIVE CONDUIT (2Ø) RUN FOR FIRE ALARM SYSTEM	
37		MANUAL CALL POINT (BREAK GLASS TYPE)	1050
38		ELECTRONIC HOOTER / SPEAKER	2250
39		OPTICAL TYPE SMOKE DETECTOR	
40		RESPONSE INDICATOR	2250

Notes : (Electrical)

1. R, Y & B indicates phases.
2. The number written near the switch board and power points indicates circuit number, for detail of circuits refer distribution board charts.
3. The size of wires from switch board to different light and fan points shall be 1.0 sq. mm.
4. For secondary power point the circuit wire shall be looped from first power point by 2 x 2.5 sq.mm. (Wherever specified)
5. 6 amp. plug shall be connected to the lighting ckt. of that area.
6. The size of submain conduit from electrical shaft to each flat D.B. shall be 25 / 32 - 40 Ø (as mention in D. B. schedule).
7. TV / Tel. conduit sizes shall be 25 mm dia.
8. The conduits used for wiring shall be as follows
   a) Heavy duty (2 mm thick) — In r.c.c. slab
   b) medium duty (1.5 mm thick) — In brick wall
9. Flexible conduit shall be used at expansion joints for electrical & L.V. wires.
10. Parking / Corridor / Staircase lights shall be directly controlled from MCB - DB through 2 x 1.5 sq.mm wires as shown in drawings.
11. No two dissimilar phase circuit / wire shall run together through same conduit.
12. Light and power circuit shall be drawn through separate conduit.
13. Wiring shall be carried out as per colour code i.e. R, Y, B phases and black - neutral and green - earth.
14. The sequence of phase distribution in different apartments will be different for overall phase balancing.
15. The position mentioned in legend is bottom of switch board / outlets.
17. In case of any discrepancy in the drawing, the same may be brought to the notice of electrical consultant for approval before execution.
18. Size of earth wire shall be as follows :-

Phase Wire (sq.mm)	2x1.5	2x2.5	2x4	2x6	2x10	2x16	4x6	4x10	4x16
Earth Wire (sq.mm)	1x1.5	1x1.5	1x2.5	1x4	1x6	1x6	2x4	2x5	2x6

rev. no.	date	revision

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
ELECTRICAL DRAWING (BLOCK - B1)

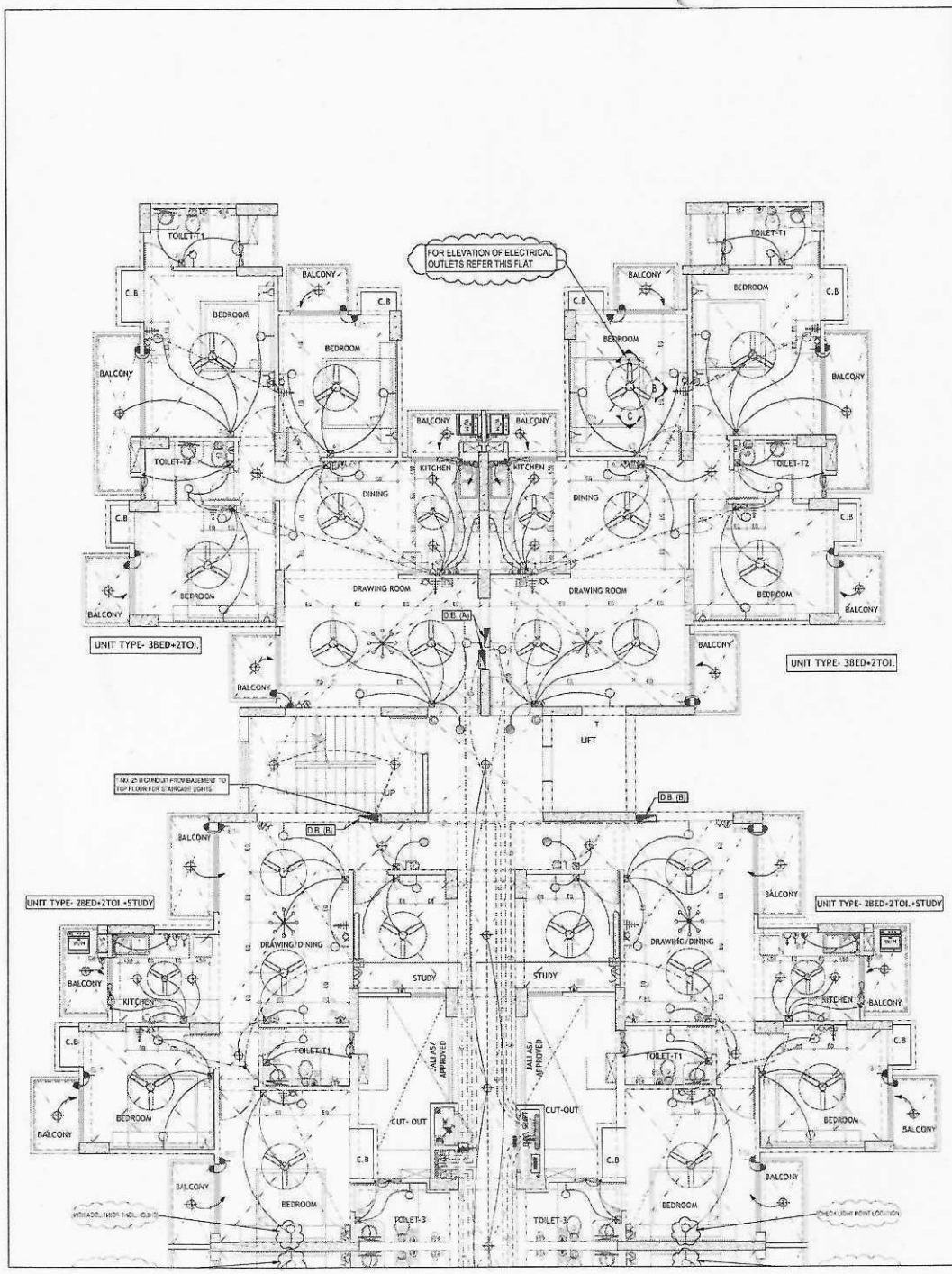
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GROUND FLOOR PLAN (2B+G+14)

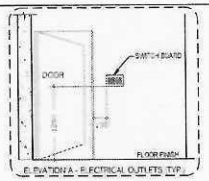
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drg. no. SAVIOUR / BL - B1 / E - 05
scale 1:75 | date January 2012
drawn by Gurdial | ckd by Sanjay Goel
approved by Anand Havelia

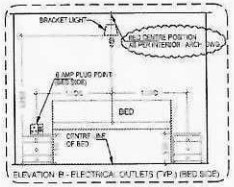
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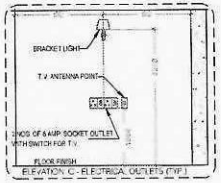




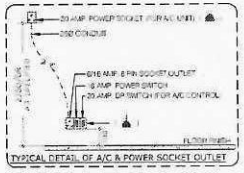
ELEVATION A - ELECTRICAL OUTLETS (TYP.)



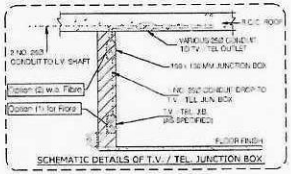
ELEVATION B - ELECTRICAL OUTLETS (TYP.) (BED SIDE)



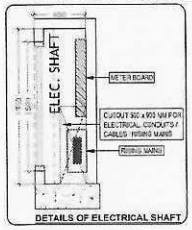
ELEVATION C - ELECTRICAL OUTLETS (TYP.)



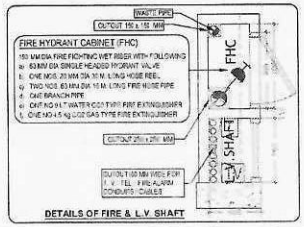
TYPICAL DETAIL OF A/C & POWER SOCKET OUTLET



SCHEMATIC DETAILS OF T.V. / TEL. JUNCTION BOX.



DETAILS OF ELECTRICAL SHAFT



DETAILS OF FIRE & L.V. SHAFT

Notes : (Electrical)

1. R, Y & B indicates phases.
2. The number written near the switch board and power points indicates circuit number. for detail of circuits refer distribution board charts.
3. The size of wires from switch board to different light and fan points shall be 1.0 sq. m.m.
4. For secondary power point the circuit wire shall be looped from first power point by 2 x 2.5 sq.mm. (Wherever specified).
5. 6 amp. plug shall be connected to the lighting ckt. of that area.
6. The size of submain conduit from electrical shaft to each flat D.B. shall be 25 / 32 / 40 Ø (as mention in D.B. schedule)
7. TV / Tel. conduit sizes shall be 25 mm dia.
8. The conduits used for wiring shall be as follows
   a) Heavy duty (2 mm thick) *In r.c.c. slab
   b) medium duty (1.5 mm thick) In brick wall
9. Flexible conduit shall be used at expansion joints for electrical & L.V. wires.
10. Parking / Corridor / Staircase lights shall be directly controlled from MCB - DB through 2 x 1.5 sq.mm wires as shown in drawings.
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17. In case of any discrepancy in the drawing, the same may be brought to the notice of electrical consultant for approval before execution.
18. Size of earth wire shall be as follows :-

Phase Wire (sq.mm)	2x1.5	2x2.5	2x4	2x6	2x10	2x16	4x6	4x10	4x16
Each Wire (sq.mm.)	1x1.0	1x1.5	1x2.5	1x4	1x6	1x6	2x4	2x6	2x6

DISTRIBUTION BOARD : (A) (6 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT- 3BED+2TOI.)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION	PHASE
A-1	2 x 1.5	6	DRAWING ROOM & BALCONY	R
A-2	2 x 1.5	6	KITCHEN & BALCONY	R
A-3	2 x 1.5	6	DINING, BEDROOM & BAL.	R
A-4	2 x 1.5	6	BEDROOM, TOILET - T2 & BAL.	R
A-5	2 x 1.5	6	BEDROOM, TOILET - T1 & BAL.	R
A-6	2 x 4	16	KITCHEN	Y
A-7	2x4/2x2.5	16	DINING & WASHING MACHINE	Y
A-8	2 x 4	16	TOILET - T2	B
A-9	2 x 4	16	TOILET - T1	B
A-10	2 x 4	20	DRAWING ROOM (AC)	Y
A-11	2 x 4	20	BED ROOM (AC)	B
A-12	2 x 4	20	BED ROOM (AC)	Y
A-13	2 x 4	20	BED ROOM (AC)	B
A-14 TO A-18			SPARE	

INCOMER - 40 AMP. FP MCB
SUBMAIN - 4 X 10 SQ. M. M. (32Ø CONDUIT)

DISTRIBUTION BOARD : (B) (6 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT- 2BED+2TOI.+STUDY)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION	PHASE
B-1	2 x 1.5	6	STUDY DRAWING/DINING & BAL.	Y
B-2	2 x 1.5	6	KITCHEN & BALCONY	Y
B-3	2 x 1.5	6	BEDROOM, TOILET - T1 & BAL.	Y
B-4	2 x 1.5	6	BEDROOM, TOILET - T3 & BAL.	Y
B-5	2 x 4	16	STUDY	B
B-6	2 x 4	16	DINING & TOILET - T1	R
B-7	2 x 4	16	KITCHEN	B
B-8	2 x 4	16	WASHING MACHINE	B
B-9	2 x 4	16	TOILET - T3	R
B-10	2 x 4	20	DRAWING/DINING (AC)	R
B-11	2 x 4	20	BED ROOM (AC)	B
B-12	2 x 4	20	BED ROOM (AC)	R
B-13 TO B-18			SPARE	

INCOMER - 40 AMP. FP MCB
SUBMAIN - 4 X 10 SQ. M. M. (32Ø CONDUIT)

LEGEND : (Electrical & Fire Alarm System)

S. No.	SYMBOL	DESCRIPTION	POSITION
1.		LIGHT POINT, WALL BRACKET	2300
2.		ENTRANCE LIGHT	2400
3.		CEILING LIGHT (SURFACE)	
4.		1 x 28 WATT T5 TUBE LIGHT (SURFACE)	2100
5.		MIRROR LIGHT	2000
6.		CHANDLIER	
7.		CEILING FAN	
8.		EXHAUST FAN - CEILING FIXED	2200
9.		6 AMP PLUG POINT	200
10.		6 AMP PLUG POINT (BED SIDE)	550
11.		2 NOS. OF 6 AMP. SOCKET OUTLET WITH SWITCH FOR T.V.	1050
12.		6 AMP PLUG POINT	1050
13.		6 AMP SOCKET OUTLET (FOR CHIMNEY) (SWITCH WIL. BE AT MAIN BOARD)	2100
14.		6/16 AMP POWER POINT	200
15.		6/16 AMP POWER POINT	900
16.		6/16 AMP POWER POINT	1050
17.		16 AMP. POWER POINT (FOR TOIL GEYSER)	1600 / OR AS SPECIFIED
18.		16 AMP. POWER SOCKET (FOR KIT.GEYSER) (CONTROL AT SWITCH BOARD)	2200
19.		16 AMP SWITCH CONTROL FOR KIT. GEYSER	1050
20.		20 AMP. AC POINT	200
21.		20 AMP. SOCKET FOR A/C UNIT	2250 / OR AS SPECIFIED
22.		20 AMP. SWITCH FOR A/C UNIT & 16 AMP. SWITCH SOCKET (POWER POINT)	500 / OR AS SPECIFIED
23.		TELEPHONE POINT	200
24.		TELEPHONE & INTERCOM POINT	200
25.		TELEPHONE POINT (BED SIDE)	550
26.		T.V. ANTENNA POINT	1050
27.		CALL BELL PUSH	1050
28.		BUZZER	2100
29.		SWITCH BOARD	1050
30.		SWITCH BOARD IN DUCT	1050
31.		TELEPHONE TAG BLOCK IN APARTMENT / IN DUCT	200 / 1200
32.		DISTRIBUTION BOARD	1350
33.		INDICATES CONTROLLING OF LIGHT/FAN FROM SWITCH BOARD	
34.		INDICATIVE CONDUIT RUN FOR ELEVAMN	
35.		INDICATIVE CONDUIT RUN FOR TELEPHONE / T.V. SYSTEM	
36.		INDICATIVE CONDUIT (25Ø) RUN FOR FIRE ALARM SYSTEM	
37.		MANUAL CALL POINT (BREAK GLASS TYPE)	1050
38.		ELECTRONIC HOOTER / SPEAKER	2200
39.		OPTICAL TYPE SMOKE DETECTOR	
40.		RESPONSE INDICATOR	2250

rev. no. | date | revision

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
ELECTRICAL DRAWING (BLOCK - B1)

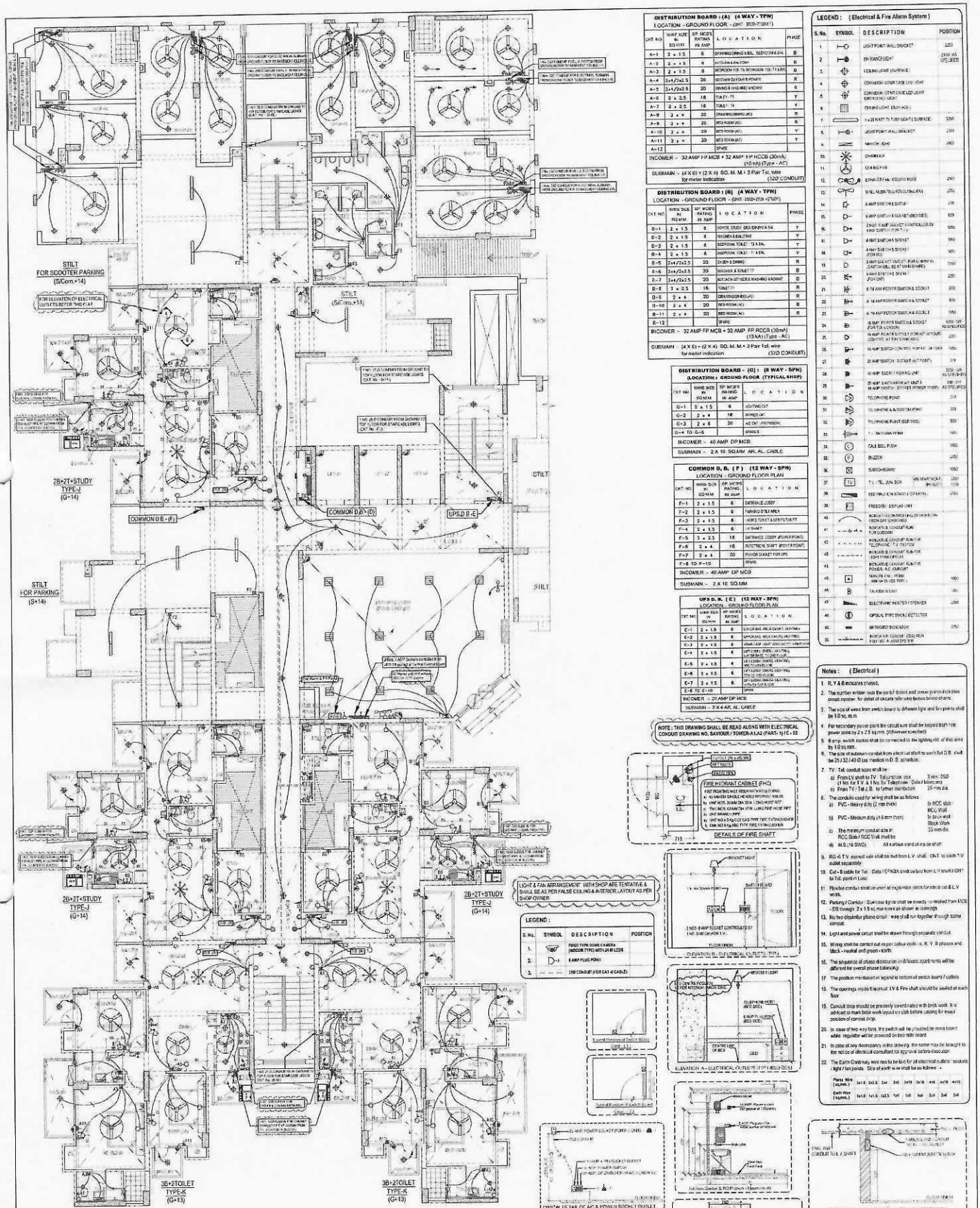
subtitle
GROUND FLOOR PLAN (2B+G+14)

drawing released for
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☐ ADVANCE COPY ☐ CONSTRUCTION

drg. no. SAVIOUR / BL - 01 / E - 06
scale 1 : 60 | date January 2012
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DISTRIBUTION BOARD : (A) (4 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT 2BED+2TOILET)

OUT NO	WIRE SIZE IN SQ MM	SP. MCB'S RATING IN AMP	LOCATION	PHASE
A-1	2 x 1.5	6	DRAWING+DINING+BAL. BEDROOM-4 BAL	B
A-2	2 x 1.5	6	KITCHEN+UTILITY	B
A-3	2 x 1.5	6	BEDROOM NO. 1+ BEDROOM NO. 1 BAL	B
A-4	2+4/2x2.5	20	KITCHEN GEYSER+POWER	R
A-5	2+4/2x2.5	20	DINING & WASHING MACHINE	R
A-6	2 x 2.5	16	TOILET-1	Y
A-7	2 x 2.5	16	TOILET-2	Y
A-8	2 x 4	20	DRAWING+DINING (AC)	R
A-9	2 x 4	20	BED ROOM (AC)	R
A-10	2 x 4	20	BED ROOM (AC)	Y
A-11	2 x 4	20	BED ROOM (AC)	Y
A-12			SPARE	

INCOMER - 32 AMP FP MCB + 32 AMP FP RCCB (30mA) (10 kA) (Type - AC)
SUBMAIN - (4 X 6) + (2 X 4) SQ. M. M. + 3 Par Tel. wire for meter indication (32Ø CONDUIT)

DISTRIBUTION BOARD : (B) (4 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT 2BED+2TOILET)

OUT NO	WIRE SIZE IN SQ MM	SP. MCB'S RATING IN AMP	LOCATION	PHASE
B-1	2 x 1.5	6	STUDY, DRESSING & BAL.	Y
B-2	2 x 1.5	6	KITCHEN & BALCONY	Y
B-3	2 x 1.5	6	BEDROOM, TOILET-1 & BAL.	Y
B-4	2 x 1.5	6	BEDROOM, TOILET-2 & BAL.	Y
B-5	2+4/2x2.5	20	DINING & DINING	R
B-6	2+4/2x2.5	20	KITCHEN & TOILET-3	B
B-7	2+4/2x2.5	20	KITCHEN GEYSER & WASHING MACHINE	B
B-8	2 x 2.5	16	TOILET-3	R
B-9	2 x 4	20	DRAWING+DINING (AC)	R
B-10	2 x 4	20	BED ROOM (AC)	B
B-11	2 x 4	20	BED ROOM (AC)	R
B-12			SPARE	

INCOMER - 32 AMP FP MCB + 32 AMP FP RCCB (30mA) (10 kA) (Type - AC)
SUBMAIN - (4 X 6) + (2 X 4) SQ. M. M. + 3 Par Tel. wire for meter indication (32Ø CONDUIT)

DISTRIBUTION BOARD - (G) : (8 WAY - SPN)
(LOCATION : GROUND FLOOR (TYPICAL SHOP))

OUT NO	WIRE SIZE IN SQ MM	SP. MCB'S RATING IN AMP	LOCATION
G-1	2 x 1.5	6	LIGHTING CKT.
G-2	2 x 4	16	POWER CKT.
G-3	2 x 6	20	AC CKT. (if provision)
G-4 TO G-5			SPARES

INCOMER - 40 AMP DP MCB
SUBMAIN - 2 X 10 SQ.MM AR. AL. CABLE

COMMON D. B. (F) (12 WAY - SPN)
LOCATION - GROUND FLOOR PLAN

OUT NO	WIRE SIZE IN SQ MM	SP. MCB'S RATING IN AMP	LOCATION
F-1	2 x 1.5	6	ENTRANCE LOBBY
F-2	2 x 1.5	6	PARKING STILT AREA
F-3	2 x 1.5	6	HOME THEATER+STAIRS+TOILET
F-4	2 x 1.5	6	LIFT SHAFT
F-5	3 x 2.5	16	ENTRANCE LOBBY (POWER POINT)
F-6	2 x 4	16	ELECTRICAL SHAFT (POWER POINT)
F-7	2 x 4	20	POWER SOCKET FOR UPS
F-8 TO F-10			SPARE

INCOMER - 40 AMP DP MCB
SUBMAIN - 2 X 10 SQ.MM

UPS D. B. (E) (12 WAY - SPN)
LOCATION - GROUND FLOOR PLAN

OUT NO	WIRE SIZE IN SQ MM	SP. MCB'S RATING IN AMP	LOCATION
E-1	2 x 1.5	6	LOBBY AIR CONDITIONER (SPARE)
E-2	2 x 1.5	6	SPARE BAL. WASHING (SPARE)
E-3	2 x 1.5	6	STAIRCASE LIGHT (SPARE)
E-4	2 x 1.5	6	LIFT LOBBY (EVEN) + LIFT CAR (EVEN) + LIFT LOBBY (ODD) + LIFT CAR (ODD) + LIFT LOBBY (EVEN) + LIFT CAR (EVEN) + LIFT LOBBY (ODD) + LIFT CAR (ODD)
E-5	2 x 1.5	6	LIFT LOBBY (EVEN) + LIFT CAR (EVEN) + LIFT LOBBY (ODD) + LIFT CAR (ODD)
E-6	3 x 1.5	6	LIFT LOBBY (EVEN) + LIFT CAR (EVEN) + LIFT LOBBY (ODD) + LIFT CAR (ODD)
E-7	2 x 1.5	6	SPARE
E-8 TO E-10			SPARE

INCOMER - 20 AMP DP MCB
SUBMAIN - 3 X 4 SQ. AL. CABLE

LEGEND : (Electrical & Fire Alarm System)

S.No.	SYMBOL	DESCRIPTION	POSITION
1.		LIGHT POINT WALL BRACKET	2250
2.		5W FANCY LIGHT	2100 MIN. ABOVE FFL
3.		CEILING LIGHT (SURFACE)	
4.		CORRIDOR / STAIRCASE LED LIGHT EMERGENCY LIGHT	
5.		CORRIDOR / STAIRCASE LED LIGHT EMERGENCY LIGHT	
6.		CEILING LIGHT (SURFACE)	
7.		1 x 20 WATT TL TUBE LIGHT (SURFACE)	2250
8.		LIGHT POINT WALL BRACKET	2250
9.		MIRROR LIGHT	2400
10.		CHANDELIER	
11.		CEILING FAN	
12.		5 SPARKLE FAN (CEILING ROSE)	2900
13.		WALL MOUNTING ROTATING FAN	2250
14.		6 AMP SWITCH & SOCKET	2100
15.		6 AMP SWITCH & SOCKET (BED SIDE)	600
16.		2 NOS 6 AMP SOCKET CONTROLLED BY 1 NO. SWITCH (FOR T.V.)	1050
17.		6 AMP SWITCH & SOCKET	1050
18.		6 AMP SWITCH & SOCKET (FOR FAN)	1800
19.		3 AMP SOCKET OUTLET (FOR CLOCK) (SWITCH WILL BE AT 1500 MM)	2100
20.		6 AMP SWITCH & SOCKET (FOR CKT)	2250
21.		6 /16 AMP POWER SWITCH & SOCKET	2250
22.		6 / 16 AMP POWER SWITCH & SOCKET	1050
23.		6 / 16 AMP POWER SWITCH & SOCKET	1050
24.		16 AMP POWER SWITCH & SOCKET (FOR T.V. & DVD/DVP)	1050 FOR AS SPECIFIED
25.		16 AMP POINT & OUTLET FOR AIR CONDITIONER (SWITCH AT 1500 MM ABOVE)	2250
26.		16 AMP SWITCH CONTROL FOR HOT WATER	1050
27.		20 AMP SWITCH SOCKET (HOT POINT)	2250
28.		20 AMP SOCKET FOR AC UNIT	2250 OR AS SPECIFIED
29.		20 AMP SWITCH FOR AC UNIT & 16 AMP SWITCH SOCKET (FOR GEYSER POINT)	2250 OR AS SPECIFIED
30.		TELEPHONE POINT	300
31.		TELEPHONE & INTERCOM POINT	300
32.		TELEPHONE POINT (BED SIDE)	600
33.		T.V. ANTENNA POINT	1050
34.		CALL BELL PUSH	1050
35.		BUZZER	2250
36.		SWITCHBOARD	1050
37.		T.V. / TEL. JUNCTION BOX	1050 (IN DUCT)
38.		FIRE HYDRANT CABINET (FHC)	1050
39.		FIREDOOR / DISPLAY UNIT	
40.		INDICATOR CONNECTED LOOP HOOTER ON FIRE ALARM PANEL	
41.		INDICATIVE CONDUIT RUN FOR SPRINKLER	
42.		INDICATIVE CONDUIT RUN FOR TELEPHONE / T.V. POINTS	
43.		INDICATIVE CONDUIT RUN FOR LIGHT / FAN CIRCUIT	
44.		INDICATIVE CONDUIT RUN FOR POWER / AC CIRCUIT	
45.		MINIATURE CIRCUIT BREAKER (MCB) FOR DB OUTGOING TYPE	1050
46.		TAN KNOB SWITCH	1050
47.		ELECTRONIC HOOTER / SPEAKER	2250
48.		OPTICAL TYPE SMOKE DETECTOR	
49.		BI-DIRECTIONAL INDICATOR	2250
50.		INDICATIVE CONDUIT (2Ø) RUN FOR HEAT & SMOKE DETECTOR	

Notes : (Electrical)

1. R, Y & B indicates phases.
2. The number written near the switch board and power points indicates circuit number. for detail of circuits refer ckt. Details below distribution board.
3. The size of wires from switch board to different light and fan points shall be 1.0 sq. mm.
4. For secondary power point the circuit wire shall be looped from first power point by 2 x 2.5 sq.mm. (Wherever specified)
5. 6 amp. switch sockets shall be connected to the lighting ckt. of that area by 1.0 sq.mm.
6. The size of submain conduit from electrical shaft to each flat D.B. shall be 25 / 32 / 40 Ø (as mention in D.B. schedule).
7. TV / Tel. conduit sizes shall be :
   a) From LV shaft to TV / Tel junction box — 2 nos. 25Ø (1 No. for T.V. & No. for Telephone - Data / Intercom)
   b) From TV / Tel J. B. to farther distribution — 25 mm dia.
8. The conduits used for wiring shall be as follows :
   a) PVC - Heavy duty (2 mm thick) — In RCC slab / RCC Wall
   b) PVC - Medium duty (1.6 mm thick) — In brick wall / Block Work
   c) The minimum conduit size in RCC Slab / RCC Wall shall be — 20 mm dia.
   d) M.S. (16 SWG) — All surface conduit inside shaft
9. RG-6 T.V. coaxial wire shall be laid from L.V. shaft ON-T to each T.V. outlet separately.
10. Cat - 6 cable for Tel. Data / EPABX shall be laid from L.V. shaft / ON-T to Tel. point in Loop.
11. Flexible conduit shall be used at expansion joints for electrical & L.V. wires.
12. Parking / Corridor / Staircase lights shall be directly controlled from MCB / DB through 2 x 1.5 sq. mm wires as shown in drawings.
13. No two dissimilar phase circuit wire shall run together through same conduit.
14. Light and power circuit shall be drawn through separate conduit.
15. Wiring shall be carried out as per colour code i.e. R, Y, B phases and black - neutral and green - earth.
16. The sequence of phase distribution in different flats / units / apartments will be different for overall phase balancing.
17. The position mentioned in legend is bottom of switch board / outlets.
18. The openings inside Electrical, LV & Fire shaft should be sealed at each floor.
19. Conduit stop should be precisely coordinated with brick work. It is advised to mark brick work layout on slab before casting for exact position of conduit stop.
20. In case of two way fans, the switch will be provided at more room side / regulator will be provided on bed side / room.
21. In case of any discrepancy in the drawing, the same may be brought to the notice of electrical consultant for approval before execution.
22. The Earth Continuity wire has to be laid for all electrical outlets / sockets / light / fan points. Size of earth wire shall be as follows :

Phase Wire (sq.mm.)	2x1.5	2x2.5	2x4	2x6	2x10	2x16	4x6	4x10	4x16
Earth Wire (sq.mm.)	1x1.5	1x2.5	1x4	1x6	1x8	1x10	2x4	2x6	2x8

drg. no.	drawn by
SAVIOUR / TOWER-A1,A2 (PART- 1) / E - 02	Anuj
scale	designed by
1 : 95	Sanjay Goel
date	checked by
April - 2019	Anand Havelia

drawing released for
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- ■ CONSTRUCTION

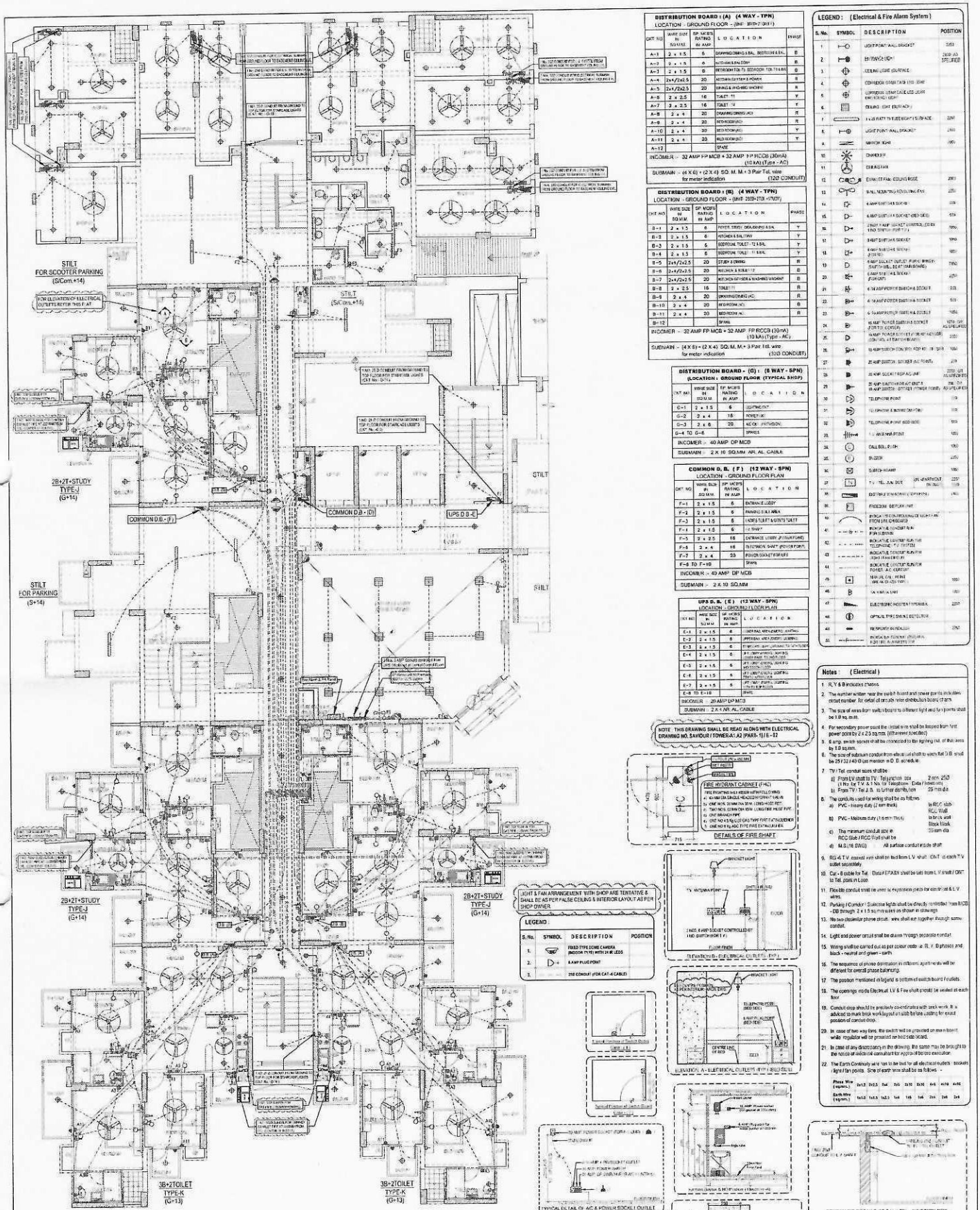
project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
ELECTRICAL WIRING DRAWING
TOWER -A1,A2 (Part-1)

subtitle
GROUND FLOOR PLAN (2B+G+14)

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DISTRIBUTION BOARD : (A) (4 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT- 2B01+2T01)

DKT. NO.	WIRE SIZE IN SQ.MM.	SP. MCB'S RATING IN AMP.	LOCATION	PHASE
A-1	2 x 1.5	6	DRAWING/DINING & BAL., BEDROOM & BAL.	B
A-2	3 x 1.5	6	KITCHEN & BALCONY	R
A-3	2 x 1.5	6	BEDROOM (S-T) & BEDROOM (S2-T) & BAL.	B
A-4	2x4/2x2.5	20	KITCHEN (SYSTEM & POWER)	R
A-5	2x4/2x2.5	20	DINING & WASHING MACHINE	R
A-6	2 x 2.5	16	TOILET - (1)	Y
A-7	3 x 2.5	16	TOILET - (2)	Y
A-8	2 x 4	20	DRAWING/DINING (AC)	R
A-9	2 x 4	20	BED ROOM (AC)	R
A-10	2 x 4	20	BED ROOM (AC)	Y
A-11	2 x 4	20	BED ROOM (AC)	Y
A-12			SPARE	

INCOMER :- 32 AMP FP MCB + 32 AMP FP RCCB (30mA) (10 kA) (Type - AC)
SUBMAIN :- (4 X 6) + (2 X 4) SQ. M. M + 3 Pair Tel. wire for meter indication (32Ø CONDUIT)

DISTRIBUTION BOARD : (B) (4 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT- 2B02+2T02 +STUDY)

DKT. NO.	WIRE SIZE IN SQ.MM.	SP. MCB'S RATING IN AMP.	LOCATION	PHASE
B-1	2 x 1.5	6	FOYER, STUDY, DEALER/ING & BAL.	Y
B-2	2 x 1.5	6	KITCHEN & BALCONY	Y
B-3	2 x 1.5	6	BEDROOM, TOILET - (2) & BAL.	Y
B-4	2 x 1.5	6	BEDROOM, TOILET - (1) & BAL.	Y
B-5	2x4/2x2.5	20	STUDY & DINING	R
B-6	2x4/2x2.5	20	KITCHEN & TOILET - (2)	B
B-7	2x4/2x2.5	20	KITCHEN (SYSTEM & WASHING MACHINE	B
B-8	2 x 2.5	16	TOILET - (1)	R
B-9	2 x 4	20	DRAWING/DINING (AC)	R
B-10	2 x 4	20	BED ROOM (AC)	B
B-11	2 x 4	20	BED ROOM (AC)	R
B-12			SPARE	

INCOMER :- 32 AMP FP MCB + 32 AMP FP RCCB (30mA) (10 kA) (Type - AC)
SUBMAIN :- (4 X 6) + (2 X 4) SQ.M. M. + 3 Pair Tel. wire for meter indication (32Ø CONDUIT)

DISTRIBUTION BOARD - (G) : (8 WAY - SPN)
(LOCATION : GROUND FLOOR (TYPICAL SHOP)

DKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION
G-1	2 x 1.5	6	LIGHTING OUT
G-2	2 x 4	16	POWER (AC)
G-3	2 x 6	20	AC OUT - (OUTDOOR)
G-4 TO G-6			SPARES

INCOMER :- 40 AMP DP MCB
SUBMAIN :- 2 X 10 SQ.MM. AR. AL. CABLE

COMMON D. B. (F) (12 WAY - SPN)
LOCATION - GROUND FLOOR PLAN

DKT. NO.	WIRE SIZE IN SQ.MM.	SP. MCB'S RATING IN AMP.	LOCATION
F-1	2 x 1.5	6	ENTRANCE LOBBY
F-2	2 x 1.5	6	PARKING (FULL AREA
F-3	2 x 1.5	6	LADIES TOILET & GENTS TOILET
F-4	2 x 1.5	6	LIFT (LIFT)
F-5	3 x 2.5	16	ENTRANCE LOBBY (POWER POINT)
F-6	2 x 4	16	ELECTRICAL SHAFT (POWER POINT)
F-7	2 x 4	20	POWER SOCKET FOR LIFT
F-8 TO F-10			SPARE

INCOMER :- 40 AMP DP MCB
SUBMAIN :- 2 X 10 SQ.MM

UPS D. B. (E) (12 WAY - SPN)
LOCATION - GROUND FLOOR PLAN

DKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION
E-1	2 x 1.5	6	LOBBY AND AREA (EMERG. LIGHTING)
E-2	2 x 1.5	6	LOBBY AND AREA (EMERG. LIGHTING)
E-3	2 x 1.5	6	STAIRCASE, LANDING TO 1ST FLOOR
E-4	3 x 1.5	6	LIFT (EMERGENCY), LIGHTING, LIFT MACHINE ROOM
E-5	2 x 1.5	6	LIFT (EMERGENCY), LIGHTING, LIFT MACHINE ROOM
E-6	2 x 1.5	6	LIFT (EMERGENCY), LIGHTING, LIFT MACHINE ROOM
E-7	3 x 1.5	6	LIFT (EMERGENCY), LIGHTING, LIFT MACHINE ROOM
E-8 TO E-10			SPARE

INCOMER :- 20 AMP DP MCB
SUBMAIN :- 2 X 4 SQ. AR. AL. CABLE

NOTE: THIS DRAWING SHALL BE READ ALONG WITH ELECTRICAL DRAWING NO. SAVIOUR / TOWER-A1, A2 (PART- 1) / E - 02

LIGHT & FAN ARRANGEMENT WITH SHOP ARE TENTATIVE & SHALL BE AS PER FALSE CEILING & INTERIOR LAYOUT AS PER SHOP OWNER

LEGEND :

S.No.	SYMBOL	DESCRIPTION	POSITION
1.		FIXED TYPE DOME CAMERA (INDOOR TYPE) WITH 24 IR LEDS	
2.		6 AMP PLUG POINT	
3.		25Ø CONDUIT (FOR CAT-6 CABLE)	

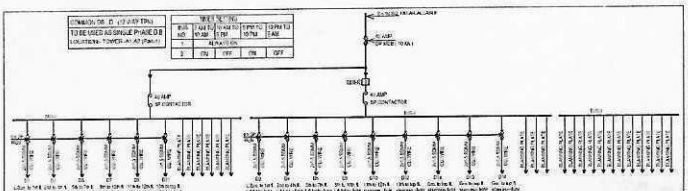
LEGEND : (Electrical & Fire Alarm System)

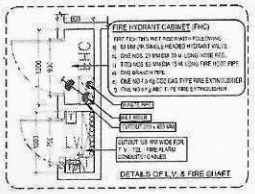
S. No.	SYMBOL	DESCRIPTION	POSITION
1.		LIGHT POINT - WALL BRACKET	2250
2.		EXIT SIGN	2000 AS SPECIFIED
3.		CEILING LIGHT (SURFACE)	
4.		CORRIDOR STAIR CASE LED LIGHT	
5.		CORRIDOR STAIR CASE LED LIGHT EMERGENCY LIGHT	
6.		CEILING LIGHT (SURFACE)	
7.		1 x 36 WATT TUBE LIGHT (SURFACE	2250
8.		LIGHT POINT - WALL BRACKET	2400
9.		MIRROR LIGHT	1800
10.		CHANDELIER	
11.		EXHAUST FAN	
12.		EXHAUST FAN CEILING ROSE	2000
13.		WALL MOUNTING FOOD LING FAN	2250
14.		6 AMP SWITCH & SOCKET	1200
15.		6 AMP SWITCH & SOCKET (WEB TYPE)	1200
16.		2 PIN 6 AMP SOCKET CONTROL CEILING FAN SWITCH (FOR T.V.)	1200
17.		6 AMP SWITCH & SOCKET	1200
18.		6 AMP SWITCH & SOCKET (FOR T.V.)	1200
19.		6 AMP SOCKET OUTLET (FOR T.V. SWITCH WILL BE AT OTHER END)	2250
20.		6 AMP SWITCH & SOCKET (FOR GEYSER)	2250
21.		6/16 AMP POWER SWITCH & SOCKET	2250
22.		6/16 AMP POWER SWITCH & SOCKET	1200
23.		6/16 AMP POWER SWITCH & SOCKET (FOR T.V. GEYSER)	1200
24.		16 AMP POWER SWITCH & SOCKET (FOR AIR CONDITIONER)	1200 (OR AS SPECIFIED)
25.		16 AMP POWER SOCKET (FOR AIR CONDITIONER) (SWITCH WILL BE AT OUTSIDE)	2250
26.		16 AMP SWITCH CONTROL FOR EXHAUST FAN	1200
27.		25 AMP SWITCH - SOCKET (AC POINT)	2250
28.		25 AMP SOCKET FOR AC UNIT	2250 (OR AS SPECIFIED)
29.		25 AMP SWITCH FOR AC UNIT & 16 AMP SWITCH - SOCKET (OTHER POINT)	2250 (OR AS SPECIFIED)
30.		TELEPHONE POINT	1200
31.		TELEPHONE & INTERCOM POINT	1200
32.		TELEPHONE POINT (BED SIDE)	1200
33.		T.V. ANTENNA POINT	1200
34.		CALL BELL PUSH	1200
35.		BUZZER	2250
36.		SWITCH BOARD	1200
37.		T.V. / TEL. JUN. BOX (BY ARCHITECT ON SITE)	2250
38.		EXTERNAL LIGHTING (SPOTLIGHT)	
39.		FREEDOM DEPLOY UNIT	
40.		SCHEMATIC DIAGRAM OF LIGHTING FROM ONE CHANDLER	
41.		INDICATIVE SIGNBOARD PLAN FOR BUSBAR	
42.		INDICATIVE LAYOUT PLAN FOR TELEPHONE / T.V. SYSTEM	
43.		INDICATIVE CONDUIT PLAN FOR LIGHT / FAN CIRCUIT	
44.		INDICATIVE LAYOUT PLAN FOR POWER / A.C. CIRCUIT	
45.		MANUAL CALL POINT (BREAK GLASS TYPE)	1200
46.		T.V. ANTENNA UNIT	1200
47.		ELECTRONIC HOOTER / SPEAKER	2250
48.		OPTICAL TYPE SMOKE DETECTOR	
49.		RESPONSE INDICATOR	2250
50.		INDICATIVE CONDUIT PLAN FOR LIGHT & ANNUNCIATION	

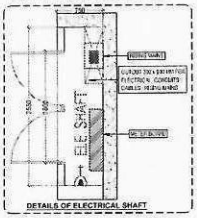
Notes : (Electrical)

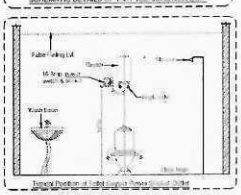
1. R, Y, & B indicates phases.
2. The number written near the switch board and power points indicates circuit number. for detail of circuits refer distribution board charts.
3. The size of wires from switch board to different light and fan points shall be 1.0 sq. m.m.
4. For secondary power and the circuit wire shall be looped from first power point by 2 x 2.5 sq.mm. (Wherever specified)
5. 6 amp. switch sockets shall be interconnected to the lighting ckt. of that area by 1.0 sq.mm.
6. The size of submain conduit from electrical shaft to each flat D.B. shall be 25 / 32 / 40 Ø (as mention in D. D. schedule).
7. TV / Tel conduit sizes shall be
   a) From LV shaft to TV - Tel junction box — 2 pcs. 25Ø (1 No. for T.V. & 1 No. for Telephone / Data / Intercom)
   b) From TV / Tel J. B. to further distribution — 25 mm dia
8. The conduits used for wiring shall be as follows
   a) PVC - heavy duty (2 mm thick) — In RCC slab / RCC Wall
   b) PVC - Medium duty (1.6 mm Thick) — In brick wall / Block Work
   c) The minimum conduit size in RCC Slab / RCC Wall shall be — 25 mm dia
   d) M.S. (16 SWG) — All surface conduit inside shaft
9. RG-6 T.V. coaxial wire shall be laid from L.V. shaft / DNT to each T.V. outlet separately.
10. Cat - 6 cable for Tel. Data / EPABX shall be laid from L.V. shaft / DNT to Tel. point in Loop.
11. Flexible conduit shall be used at expansion joints for electrical & L.V. wires.
12. Parking / Corridor / Staircase lights shall be directly controlled from RCB - DB through 2 x 1.5 sq. m.m. wires as shown in drawings.
13. No two dissimilar phase circuit - wire shall run together through same conduit.
14. Light and power circuit shall be drawn through separate conduit.
15. Wiring shall be carried out as per colour code - R, Y, B phases and black - neutral and green - earth.
16. The sequence of phase distribution in different apartments will be different for overall phase balancing.
17. The position mentioned in legend is bottom of switch board / outlets.
18. The openings inside Electrical, LV & Fire shaft should be sealed at each floor.
19. Conduit drop should be positively co-ordinates with brick work. It is advised to mark brick work layout on slab before casting for exact position of conduit drop.
20. In case of two way lamp, the switch wire be provided on main board, which should be provided on bed side boards.
21. In case of any discrepancy in the drawing, the same may be brought to the notice of electrical consultant for approval before execution.
22. The Earth Continuity wire has to be laid for all electrical outlets - sockets / light / fan points. Size of earth wire shall be as follows :-

Phase Wire (sq.mm.)	2x1.5	2x2.5	2x4	2x6	2x10	2x16	4x6	4x10	4x16
Earth Wire (sq.mm.)	1x1.5	1x1.5	1x2.5	1x4	1x6	1x6	2x4	2x6	2x6

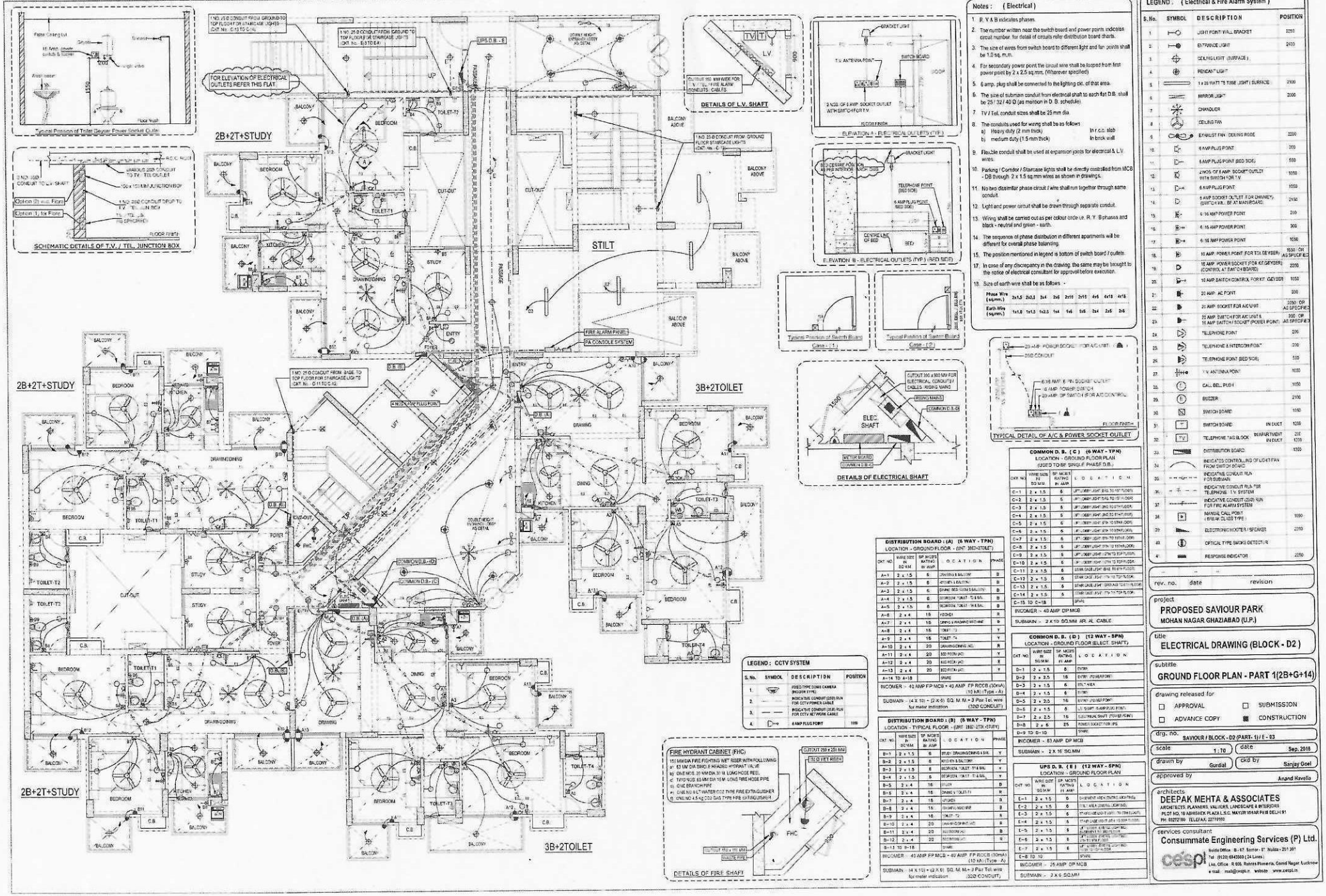








project: PROPOSED SAVIOUR PARK, MOHAN NAGAR GHAZIABAD (U.P.)	title: ELECTRICAL CONDUIT DRAWING TOWER-A1,A2 (Part-1)	drawing released for: ☐ APPROVAL ☐ ADVANCE COPY ☐ SUBMISSION ■ CONSTRUCTION	drg. no.: SAVIOUR / TOWER-A1,A2 (PART- 1) / E - 03	drawn by: Gurdial Singh	architects: DEEPAK MEHTA & ASSOCIATES, ARCHITECTS, PLANNERS, VALUERS, LANDSCAPE & INTERIORS, 1st & 2nd FLOOR, PLOT NO. 19, ABHISHEK PLAZA, I.P.C., MAYUR VIHAR PH - II, DELHI - 110091, INDIA, TEL. +91-11-22778180, +91-9999219712
	subtitle: GROUND FLOOR PLAN (2B+G+14)		scale: 1 : 85	designed by: Sanjay Goel	
			date: April - 2010	checked by: Anand Havelia	services consultant: Consummate Engineering Services (P) Ltd., Noida Office : B - 87, Sector - 67, Noida - 201 301, Tel : (0120) 6013500 (32 Lines), Lko. Office : B 806, Ratnas Plazaela, Gomti Nagar, Lucknow, e-mail : mail@cesplin, website : www.cesp.in



Notes : (Electrical)

1. R, Y & B indicates phases.
2. The number written near the switch board and power points indicates circuit number, for detail of circuits refer distribution board charts.
3. The size of wires from switch board to different light and fan points shall be 1.0 sq. m.m.
4. For secondary power point the circuit wire shall be looped from first power point by 2 x 2.5 sq.mm. (Wherever specified)
5. 6 amp. plug shall be connected to the lighting ckt. of that area.
6. The size of submain conduit from electrical shaft to each flat D.B. shall be 25 / 32 / 40 Ø (as mention in D. B. schedule)
7. TV / Tel. conduit sizes shall be 25 mm dia.
8. The conduits used for wiring shall be as follows
   a) Heavy duty (2 mm thick) In r.c.c. slab
   b) medium duty (1.5 mm thick) In brick wall
9. Flexible conduit shall be used at expansion joints for electrical & L.V. wires.
10. Parking / Corridor / Staircase lights shall be directly controlled from MCB - DB through 2 x 1.5 sq.mm wires as shown in drawings.
11. No two dissimilar phase circuit / wire shall run together through same conduit.
12. Light and power circuit shall be drawn through separate conduit.
13. Wiring shall be carried out as per colour code i.e. R, Y, B phases and black - neutral and green - earth.
14. The sequence of phase distribution in different apartments will be different for overall phase balancing.
15. The position mentioned in legend is bottom of switch board / outlets.
17. In case of any discrepancy in the drawing, the same may be brought to the notice of electrical consultant for approval before execution.
18. Size of earth wire shall be as follows :-

Phase Wire (sq.mm.)	2x1.5	2x2.5	3x4	2x6	2x10	2x16	4x6	4x10	4x16
Earth Wire (sq.mm.)	1x1.0	1x1.5	1x2.5	1x4	1x6	1x10	2x4	2x6	2x6

LEGEND : (Electrical & Fire Alarm System)

S.No.	SYMBOL	DESCRIPTION	POSITION
1.		LIGHT POINT/ WALL BRACKET	2250
2.		ENTRANCE LIGHT	2400
3.		CEILING LIGHT (SURFACE)	
4.		PENDANT LIGHT	
5.		1 x 20 WATT T5 TUBE LIGHT (SURFACE)	2300
6.		MIRROR LIGHT	2000
7.		CHANDLIER	
8.		CEILING FAN	
9.		EXHAUST FAN / CEILING RIDGE	2200
10.		6 AMP PLUG POINT	300
11.		6 AMP PLUG POINT (BED SIDE)	500
12.		2 NOS. OF 6 AMP. SOCKET OUTLET WITH SWITCH FOR T.V.	1050
13.		6 AMP PLUG POINT	1050
14.		6 AMP SOCKET OUTLET (FOR CHIMNEY) (SWITCH KNL. BE AT MAIN BOARD)	2150
15.		6 / 16 AMP POWER POINT	300
16.		6 / 16 AMP POWER POINT	900
17.		6 / 16 AMP POWER POINT	1050
18.		16 AMP. POWER POINT (FOR TOA GEYSER)	1650 OR AS SPECIFIED
19.		16 AMP. POWER SOCKET (FOR KT GEYSER) (CONTROL AT SWITCH BOARD)	2200
20.		16 AMP SWITCH CONTROL FOR KT. GEYSER	1050
21.		20 AMP. AC POINT	2200
22.		20 AMP. SOCKET FOR AC UNIT	2250 OR AS SPECIFIED
23.		20 AMP. SWITCH FOR AC UNIT & 16 AMP SWITCH / SOCKET (POWER POINT)	2300 OR AS SPECIFIED
24.		TELEPHONE POINT	2250
25.		TELEPHONE & INTERCOM POINT	2250
26.		TELEPHONE POINT (BED SIDE)	1500
27.		T.V. ANTENNA POINT	1650
28.		CALL BELL PUSH	1050
29.		BUZZER	2100
30.		SWITCH BOARD	1050
31.		SWITCH BOARD IN DUCT	1200
32.		TELEPHONE TAG BLOCK IN DEPARTMENT IN DUCT	200 1200
33.		DISTRIBUTION BOARD	1300
34.		INDICATES CONTROLLING OF LIGHT / FAN FROM SWITCH BOARD	
35.		INDICATIVE CONDUIT RUN FOR SUBMAIN	
36.		INDICATIVE CONDUIT RUN FOR TELEPHONE / T.V. SYSTEM	
37.		INDICATIVE CONDUIT (2Ø) RUN FOR FIRE ALARM SYSTEM	
38.		MANUAL CALL POINT (BREAK GLASS TYPE)	1050
39.		ELECTRONIC HOOTER / SPEAKER	2250
40.		OPTICAL TYPE SMOKE DETECTOR	
41.		RESPONSE INDICATOR	2250

LEGEND : CCTV SYSTEM

S.No.	SYMBOL	DESCRIPTION	POSITION
1.		FIXED TYPE DOME CAMERA (INDOOR TYPE)	
2.		INDICATIVE CONDUIT (25Ø) RUN FOR CCTV POWER CABLE	
3.		INDICATIVE CONDUIT (32Ø) RUN FOR CCTV NETWORK CABLE	
4.		6 AMP PLUG POINT	1050

FIRE HYDRANT CABINET (FHC)

a) 63 MM DIA FIRE FIGHTING WET RISER WITH FOLLOWING
b) ONE NOS. 20 MM DIA 30 M. LONG HOSE REEL
c) TWO NOS. 63 MM DIA 15 M. LONG FIRE HOSE PIPE
d) ONE BRANCH PIPE
e) ONE NO. ELT. WATER CO2 TYPE FIRE EXTINGUISHER
f) ONE NO. 4.5 Kg CO2 GAS TYPE FIRE EXTINGUISHER

DISTRIBUTION BOARD : (A) (6 WAY - TPN)
LOCATION - GROUND FLOOR - (UNIT- 3BD+3TOILET)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION	PHASE
A-1	2 x 1.5	6	DRAWING & BALCONY	B
A-2	2 x 1.5	6	KITCHEN & BALCONY	B
A-3	2 x 1.5	6	DRAWING BED ROOM & BALCONY	B
A-4	2 x 1.5	6	BEDROOM, TOILET - T3 & BAL.	B
A-5	2 x 1.5	6	BEDROOM, TOILET - T4 & BAL.	B
A-6	2 x 4	16	KITCHEN	R
A-7	2 x 4	16	DINING & WASHING MACHINE	R
A-8	2 x 4	16	TOILET - T3	Y
A-9	2 x 4	16	TOILET - T4	Y
A-10	2 x 4	20	DRAWING/DINING A/C	R
A-11	2 x 4	20	BED ROOM A/C	Y
A-12	2 x 4	20	BED ROOM A/C	R
A-13	2 x 4	20	BED ROOM A/C	Y
A-14 TO A-18			SPARE	

INCOMER - 40 AMP FP MCB + 40 AMP FP RCCB (30mA) (10 kA) (Type - A)
SUBMAIN - (4 X 10) + (2 X 6) SQ. M. M. + 3 Par Tol. wire for meter indication (32Ø CONDUIT)

DISTRIBUTION BOARD : (B) (6 WAY - TPN)
LOCATION - TYPICAL FLOOR - (UNIT- 3BD+2TOILET/STUDY)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION	PHASE
B-1	2 x 1.5	6	STUDY/DRAWING/DINING & BAL.	Y
B-2	2 x 1.5	6	KITCHEN & BALCONY	Y
B-3	2 x 1.5	6	BEDROOM, TOILET - T1 & BAL.	Y
B-4	2 x 1.5	6	BEDROOM, TOILET - T2 & BAL.	Y
B-5	2 x 4	16	STUDY	B
B-6	2 x 4	16	DINING & TOILET-T1	R
B-7	2 x 4	16	KITCHEN	B
B-8	2 x 4	16	WASHING MACHINE	B
B-9	2 x 4	16	TOILET - T2	R
B-10	2 x 4	20	DRAWING/DINING A/C	R
B-11	2 x 4	20	BEDROOM A/C	B
B-12	2 x 4	20	BEDROOM A/C	R
B-13 TO B-18			SPARE	

INCOMER - 40 AMP FP MCB + 40 AMP FP RCCB (30mA) (10 kA) (Type - A)
SUBMAIN - (4 X 10) + (2 X 6) SQ. M. M. + 3 Par Tol. wire for meter indication (32Ø CONDUIT)

COMMON D. B. (C) (6 WAY - TPN)
LOCATION - GROUND FLOOR PLAN
(USED TO BE SINGLE PHASE D.B.)

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION
C-1	2 x 1.5	6	LIFT / DEEP LIGHT / BAL TO 1ST FLOOR
C-2	2 x 1.5	6	LIFT / DEEP LIGHT / BAL TO 1ST FLOOR
C-3	2 x 1.5	6	LIFT / DEEP LIGHT / BAL TO 2ND FLOOR
C-4	2 x 1.5	6	LIFT / DEEP LIGHT / BAL TO 2ND FLOOR
C-5	2 x 1.5	6	LIFT / DEEP LIGHT / BAL TO 3RD FLOOR
C-6	2 x 1.5	6	LIFT / DEEP LIGHT / BAL TO 3RD FLOOR
C-7	2 x 1.5	6	LIFT / DEEP LIGHT / BAL TO 1ST FLOOR
C-8	2 x 1.5	6	LIFT / DEEP LIGHT / BAL TO 1ST FLOOR
C-9	2 x 1.5	6	LIFT / DEEP LIGHT / BAL TO 2ND FLOOR
C-10	2 x 1.5	6	LIFT / DEEP LIGHT / BAL TO 2ND FLOOR
C-11	2 x 1.5	6	STAIR CASE LIGHT / BAL TO 3RD FLOOR
C-12	2 x 1.5	6	STAIR CASE LIGHT / BAL TO 3RD FLOOR
C-13	2 x 1.5	6	STAIR CASE LIGHT / GROUND TO 1ST FLOOR
C-14	2 x 1.5	6	STAIR CASE LIGHT / BAL TO 1ST FLOOR
C-15 TO C-18			SPARE

INCOMER - 40 AMP DP MCB
SUBMAIN - 2 X 10 SQ.MM AR AL CABLE

COMMON D. B. (D) (12 WAY - SPN)
LOCATION - GROUND FLOOR (ELECT. SHAFT)

CKT. NO.	WIRE SIZE IN SQ.MM.	SP. MCB'S RATING IN AMP.	LOCATION
D-1	2 x 1.5	6	ENTRY
D-2	2 x 2.5	16	ENTRY POWER POINT
D-3	2 x 1.5	6	LIFT AREA
D-4	2 x 1.5	6	ENTRY
D-5	2 x 2.5	16	ENTRY POWER POINT
D-6	2 x 1.5	6	LIFT SHAFT & MACHINE POINT
D-7	2 x 2.5	16	ELECTRICAL SHAFT (POWER POINT)
D-8	2 x 6	25	POWER SOCKET FOR UPS
D-9 TO D-10			SPARE

INCOMER - 63 AMP DP MCB
SUBMAIN - 2 X 16 SQ.MM

UPS D. B. (E) (12 WAY - SPN)
LOCATION - GROUND FLOOR PLAN

CKT. NO.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	LOCATION
E-1	2 x 1.5	6	BASEMENT AREA (EMERGENCY LIGHTING)
E-2	2 x 1.5	6	TEL. AREA (GENERAL LIGHTING)
E-3	2 x 1.5	6	STAIRCASE LIGHT (GRO. TO 1ST FLOOR)
E-4	2 x 1.5	6	STAIR CASE LIGHT (1ST TO 2ND FLOOR)
E-5	2 x 1.5	6	LIFT / DEEP LIGHT / BAL TO 1ST FLOOR
E-6	2 x 1.5	6	LIFT / DEEP LIGHT / BAL TO 2ND FLOOR
E-7	2 x 1.5	6	LIFT / DEEP LIGHT / BAL TO 3RD FLOOR
E-8 TO 10			SPARE

INCOMER - 25 AMP DP MCB
SUBMAIN - 2 X 6 SQ.MM

rev. no.	date	revision

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
ELECTRICAL DRAWING (BLOCK - D2)

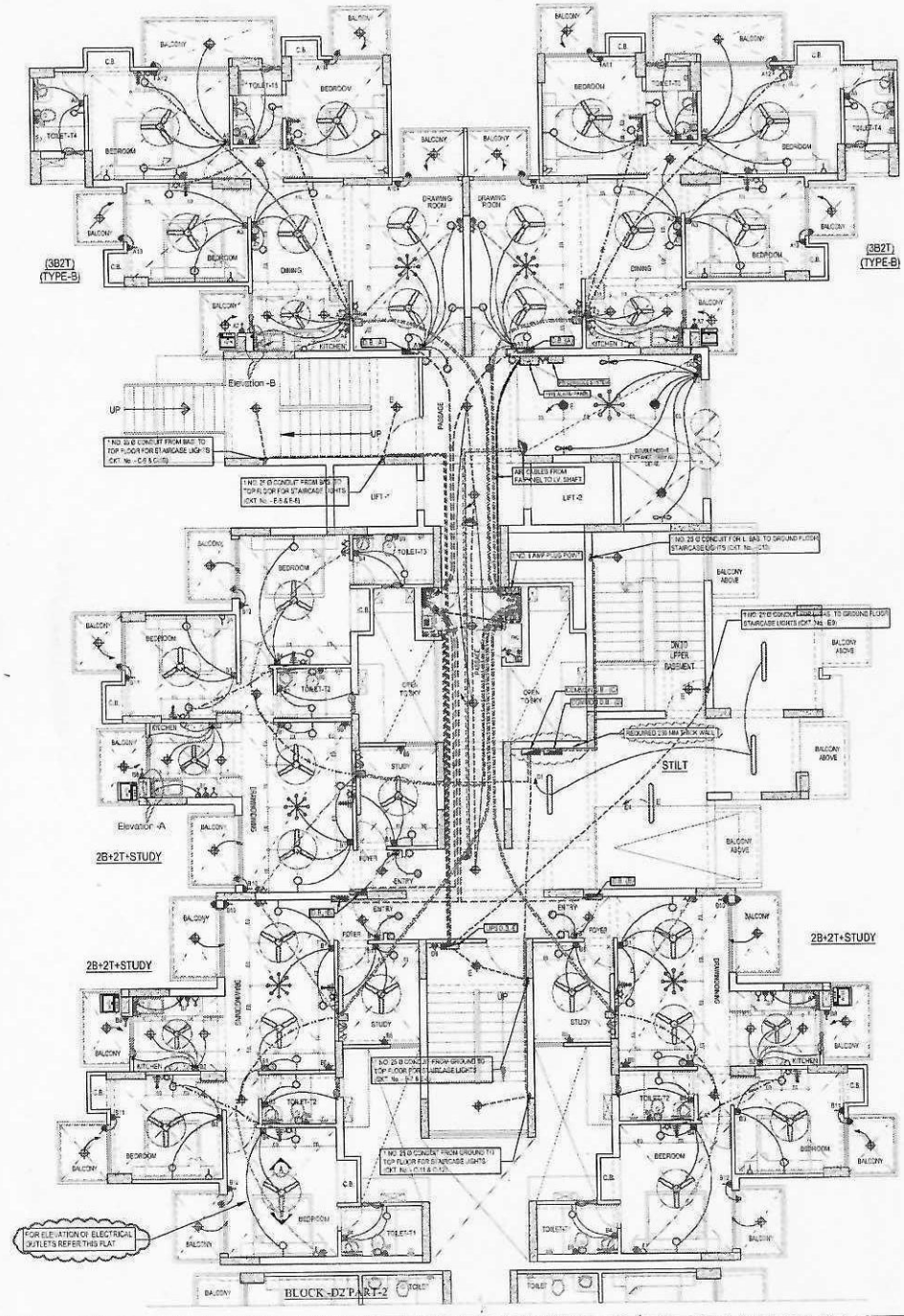
subtitle
GROUND FLOOR PLAN - PART 1(2B+G+14)

drawing released for
☐ APPROVAL ☐ SUBMISSION
☐ ADVANCE COPY ■ CONSTRUCTION

drg. no. SAVIOUR / BLOCK - D2 (PART- 1) / E - 03
scale 1:70 date Sep. 2018
drawn by Gurdial ckd by Sanjay Goel
approved by Anand Havelia

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COMMON D. B. (B) (12 WAY - SPN) LOCATION : GROUND FLOOR PLAN			
CKT. No.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	L O C A T I O N
B-1	2 x 1.5	6	DRAWING ROOM + BALCONY
B-2	2 x 1.5	6	KITCHEN & BALCONY
B-3	2 x 2.5	16	DINING, BED ROOM & BALCONY
B-4	3 x 1.5	6	BEDROOM, TOILET - T1 WALL
B-5	2 x 2.5	16	BEDROOM, TOILET - T4 WALL
B-6	2 x 4	20	KITCHEN
B-7 TO B-10			SPARE
INCOMER - 40 AMP. DP MCB			
SUBMAIN - 2 X 10 SQ.MM			

UPS D. B. (E) (12 WAY - SPN) LOCATION : GROUND FLOOR PLAN			
CKT. No.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	L O C A T I O N
E-1	2 x 1.5	6	LIGHT AND FANS (STAIRS) - GROUND
E-2	2 x 1.5	6	SPARE (LIGHT AND FANS) - 1ST TO 7TH FLOOR
E-3	2 x 1.5	6	LIGHT AND FANS (STAIRS) - 8TH TO 14TH FLOOR
E-4	2 x 1.5	6	SPARE (LIGHT AND FANS) - 15TH FLOOR
E-5	2 x 1.5	6	STAIRCASE LIGHT (STAIRS) - GROUND
E-6	2 x 1.5	6	STAIRCASE LIGHT (STAIRS) - 1ST TO 7TH FLOOR
E-7	2 x 1.5	6	STAIRCASE LIGHT (STAIRS) - 8TH TO 14TH FLOOR
E-8	2 x 1.5	6	STAIRCASE LIGHT (STAIRS) - 15TH FLOOR
E-9	2 x 1.5	6	LIFT - 1 (LIFT, LIFT MACHINE ROOM & PIT LIGHT)
E-10	2 x 1.5	6	LIFT - 2 (LIFT, LIFT MACHINE ROOM & PIT LIGHT)
E-11	2 x 1.5	6	SPARE
E-12	2 x 1.5	6	SPARE
E-13 TO E-14			SPARE
INCOMER - 20 AMP. DP MCB			
SUBMAIN - 2 X 4 SQ.MM			

DISTRIBUTION BOARD (A) (6 WAY - TPN) LOCATION : GROUND FLOOR - (UNIT 302-3TH -(STUAT)				
CKT. No.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	L O C A T I O N	PHASE
A-1	2 x 1.5	6	DRAWING ROOM + BALCONY	B
A-2	2 x 1.5	6	KITCHEN & BALCONY	B
A-3	2 x 1.5	6	DINING, BED ROOM & BALCONY	B
A-4	2 x 1.5	6	BEDROOM, TOILET - T4 WALL	B
A-5	2 x 1.5	6	BEDROOM, TOILET - T4 WALL	B
A-6	2 x 4	16	KITCHEN	B
A-7	2 x 4	16	FRIDGE & AIR CONDITIONER	R
A-8	2 x 4	16	TOILET - T1	Y
A-9	2 x 4	16	TOILET - T4	Y
A-10	2 x 4	20	GEYSER (SPARE) (AC)	R
A-11	2 x 4	20	AC ROOM (AC)	Y
A-12	2 x 4	20	AC ROOM (AC)	R
A-13	2 x 4	20	AC ROOM (AC)	Y
A-14 TO A-16			SPARE	
INCOMER - 40 AMP FP MCB + 40 AMP FP RCCB (30mA) (10 KA) (Type - A)				
SUBMAIN - (4 X 10) + (2 X 6) SQ. M. M. + 3 Pair Tel. wire for meter indication (32Ø CONDUIT)				

DISTRIBUTION BOARD (B) (6 WAY - TPN) LOCATION : GROUND FLOOR - (UNIT 302-3TH -(SOUT)				
CKT. No.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	L O C A T I O N	PHASE
B-1	2 x 1.5	6	DRAWING ROOM & BAL	Y
B-2	2 x 1.5	6	KITCHEN & BALCONY	Y
B-3	2 x 1.5	6	BEDROOM, TOILET - T3 WALL	Y
B-4	2 x 1.5	6	BEDROOM, TOILET - T3 WALL	Y
B-5	2 x 4	16	SPARE	B
B-6	2 x 4	16	AIR CONDITIONER	B
B-7	2 x 4	16	KITCHEN	B
B-8	2 x 4	16	WASHING MACHINE	B
B-9	2 x 4	16	TOILET - T2	R
B-10	2 x 4	20	GEYSER(SPARE) (AC)	R
B-11	2 x 4	20	AC ROOM (AC)	B
B-12	2 x 4	20	AC ROOM (AC)	F
B-13 TO B-16			SPARE	
INCOMER - 40 AMP FP MCB + 40 AMP FP RCCB (30mA) (10 KA) (Type - A)				
SUBMAIN - (4 X 10) + (2 X 6) SQ. M. M. + 3 Pair Tel. wire for meter indication (32Ø CONDUIT)				

COMMON D. B. (C) (16 WAY - SPN) LOCATION : GROUND FLOOR PLAN			
CKT. No.	WIRE SIZE IN SQ.M.M.	SP. MCB'S RATING IN AMP.	L O C A T I O N
C-1	2 x 1.5	6	LIFT - 2 (LIFT, LIFT MACHINE ROOM & PIT LIGHT)
C-2	2 x 1.5	6	LIFT - 2 (LIFT, LIFT MACHINE ROOM & PIT LIGHT)
C-3	2 x 1.5	6	LIFT - 2 (LIFT, LIFT MACHINE ROOM & PIT LIGHT)
C-4	2 x 1.5	6	LIFT - 2 (LIFT, LIFT MACHINE ROOM & PIT LIGHT)
C-5	2 x 1.5	6	LIFT - 2 (LIFT, LIFT MACHINE ROOM & PIT LIGHT)
C-6	2 x 1.5	6	LIFT - 2 (LIFT, LIFT MACHINE ROOM & PIT LIGHT)
C-7	2 x 1.5	6	LIFT - 2 (LIFT, LIFT MACHINE ROOM & PIT LIGHT)
C-8	2 x 1.5	6	LIFT - 2 (LIFT, LIFT MACHINE ROOM & PIT LIGHT)
C-9	2 x 1.5	6	STAIRCASE LIGHT (STAIRS) - GROUND
C-10	2 x 1.5	6	STAIRCASE LIGHT (STAIRS) - 1ST TO 7TH FLOOR
C-11	2 x 1.5	6	STAIRCASE LIGHT (STAIRS) - 8TH TO 14TH FLOOR
C-12	2 x 1.5	6	STAIRCASE LIGHT (STAIRS) - 15TH FLOOR
C-13	2 x 1.5	6	STAIRCASE LIGHT (STAIRS) - BAS TO GRD FLOOR
C-14			SPARE
INCOMER - 40 AMP. DP MCB			
SUBMAIN - 2 X 10 SQ.MM AR AL. CABLE			

Notes : (Electrical)

1. R, Y & B indicates phases.
2. The number written near the switch board and power points indicates circuit number. for detail of circuits refer distribution board charts.
3. The size of wires from switch board to different light and fan points shall be 1.0 sq. m.m.
4. For secondary power point the circuit wire shall be looped from first power point by 2 x 2.5 sq.mm. (Wherever specified)
5. 6 amp. switch socket shall be connected to the lighting ckt, of that area by 1.0 sq.mm.
6. The size of submain conduit from electrical shaft to each flat D.B. shall be 25 ' 32 (40 Ø (as mention in D. B. schedule).
7. TV / Tel. conduit sizes shall be :
   a) From LV shaft to TV / Tel junction box 2 nos. 25Ø (1 No. for T.V. & 1 No. for Telephone / Data / Intercom)
   b) From TV / Tel J. B. to further distribution 25 mm dia.
8. The conduits used for wiring shall be as follows
   a) PVC - Heavy duty (2 mm thick) In RCC slab / RCC Wall
   b) PVC - Medium duty (1.6 mm thick) In brick wall / Block Work
   c) The minimum conduit size in RCC Slab / RCC Wall shall be 25 mm dia.
   d) M.S.(16 SWG) All surface conduit inside shaft
9. RG -6 T.V. coaxial wire shall be laid from L.V. shaft / CNT to each T.V outlet separately.
10. Cat - 5 cable for Tel. / Data / EPABX shall be laid from L.V shaft / CNT to Tel. point in Loop.
11. Flexible conduit shall be used at expansion joints for electrical & L.V. wires.
12. Parking / Corridor / Staircase lights of all be directly controlled from MCB - DB through 2 x 1.5 sq.mm wires as shown in drawings.
13. No two dissimilar phase circuit / wire shall run together through same conduit.
14. Light and power circuit shall be drawn through separate conduit.
15. Wiring shall be carried out as per colour code i.e. R, Y, B phases and black - neutral and green - earth.
16. The sequence of phase distribution in different apartments will be different for overall phase balancing.
17. The position mentioned in legend is bottom of switch board / outlets.
18. Conduit drop should be precisely co-ordinated with brick work. It is advised to mark brick work layout on slab before casting for exact position of conduit drop.
19. In case of any discrepancy in the drawing, the same may be brought to the notice of electrical consultant for approval before execution.
21. The Earth Continuity wire has to be laid for all electrical outlets / sockets / light / fan points. Size of earth wire shall be as follows :-

Phase Wire (sq.mm.)	2x1.5	2x2.5	2x4	2x6	2x10	2x16	4x6	4x10	4x16
Earth Wire (sq.mm.)	1x1.5	1x1.5	1x2.5	1x4	1x6	1x6	2x4	2x6	2x6

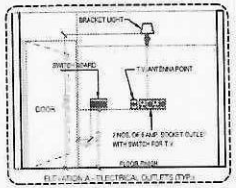
rev. no.	date	revision

LEGEND : (Electrical & Fire Alarm System)

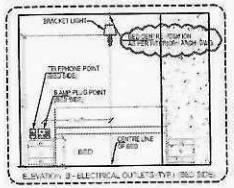
S. No.	SYMBOL	DESCRIPTION	POSITION
1.		LIGHT POINT/ WALL BRACKET	2250
2.		ENTRANCE LIGHT	2400
3.		CEILING LIGHT (SURFACE	
4.		PENDANT LIGHT	
5.		CORRIDOR / STAIR CASE LED LIGHT	
6.		CORRIDOR STAIR CASE LED LIGHT EMERGENCY LIGHT	
7.		1 X 36 WATT T5 TUBE LIGHT (SURFACE	2100
8.		MIRROR LIGHT	2000
9.		CHANDLIER	
10.		CEILING FAN	
11.		EXHAUST FAN / CEILING RIDGE	2250
12.		6 AMP PLUG POINT	200
13.		6 AMP PLUG POINT (BED SIDE)	600
14.		2 NOS. OF 6 AMP. SOCKET OUTLET WITH SWITCH FOR T.V	1050
15.		6 AMP PLUG POINT	1050
16.		6 AMP SWITCH & SOCKET	1400
17.		6 AMP SOCKET OUTLET (FOR CHIMNEY SWITCH WILL BE AT MAIN BOARD)	2150
18.		6/16 AMP POWER POINT	200
19.		6/16 AMP POWER POINT	600
20.		6/16 AMP POWER POINT	1050
21.		6 AMP POWER POINT (FOR TOILET GEYSER)	1800 / OR AS SPECIFIED
22.		16 AMP. POWER SOCKET (FOR KITCHEN CONTROL AT SWITCH BOARD)	2200
23.		16 AMP SWITCH CONTROL FOR KIT. GEYSER	1050
24.		20 AMP. AC POINT	200
25.		20 AMP. SOCKET FOR AC UNIT	2250 / OR AS SPECIFIED
26.		20 AMP. SWITCH FOR AC UNIT & 16 AMP SWITCH SOCKET (POWER POINT)	2250 / OR AS SPECIFIED
27.		TELEPHONE POINT	200
28.		TELEPHONE & INTERCOM POINT	200
29.		TELEPHONE POINT (BED SIDE)	600
30.		T.V. ANTENNA POINT	1050
31.		CALL BELL PUSH	1050
32.		BUZZER	2300
33.		SWITCH BOARD	1050
34.		TELEPHONE TAG BLOCK IN DUCT	1000
35.		T.V. / TEL. JUN. BOX IN APARTMENT / IN DUCT	200 / 1000
36.		DISTRIBUTION BOARD	1200
37.		INDICATES CONTROLLING OF LIGHT / FAN FROM SWITCH BOARD	
38.		INDICATIVE CONDUIT RUN FOR SUBMAIN	
39.		INDICATIVE CONDUIT RUN FOR TELEPHONE / T.V. SYSTEM	
40.		INDICATIVE CONDUIT 25Ø RUN FOR FIRE ALARM SYSTEM	
41.		MANUAL CALL POINT (BREAK GLASS TYPE)	1050
42.		ELECTRONIC HOOTER / SPEAKER	2250
43.		OPTICAL TYPE SMOKE DETECTOR	
44.		RESPONSE INDICATOR	2200

LEGEND : CCTV SYSTEM

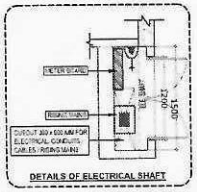
S.No.	SYMBOL	DESCRIPTION	POSITION
1.		FIXED TYPE DOME CAMERA (INDOOR TYPE)	
2.		INDICATIVE CONDUIT (25Ø) RUN FOR CCTV POWER CABLE	
3.		INDICATIVE CONDUIT (25Ø) RUN FOR CCTV NETWORK CABLE	
4.		6 AMP PLUG POINT	1050



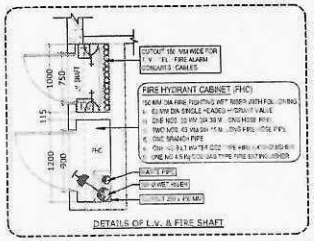
ELEVATION A - ELECTRICAL OUTLETS (TYP.)



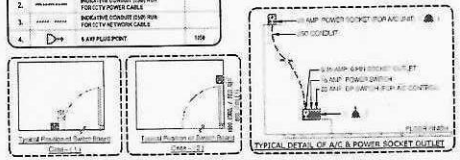
ELEVATION B - ELECTRICAL OUTLETS (TYP.) (BED SIDE)



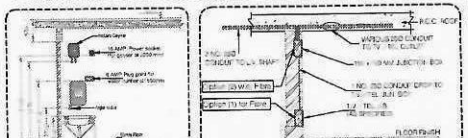
DETAILS OF ELECTRICAL SHAFT



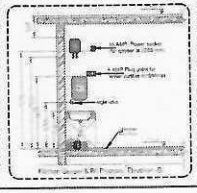
DETAILS OF L.V. & FIRE SHAFT

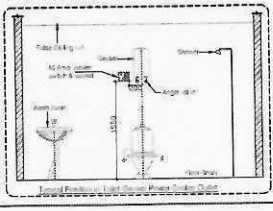


TYPICAL DETAIL OF A/C & POWER SOCKET OUTLET



SCHEMATIC DETAILS OF T.V. / TEL. JUNCTION BOX





project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
ELECTRICAL DRAWING (BLOCK - D3)

subtitle
GROUND FLOOR PLAN (2B+G+14)

drawing released for
☐ APPROVAL ☐ SUBMISSION
☐ ADVANCE COPY ■ CONSTRUCTION

drg. no.	drawn by
SAVIOUR / BLOCK - D3 / E - 02	Sandeep
scale	designed by
1 : 75	Sanjay Goel
date	checked by
May - 2017	Anand Havelia

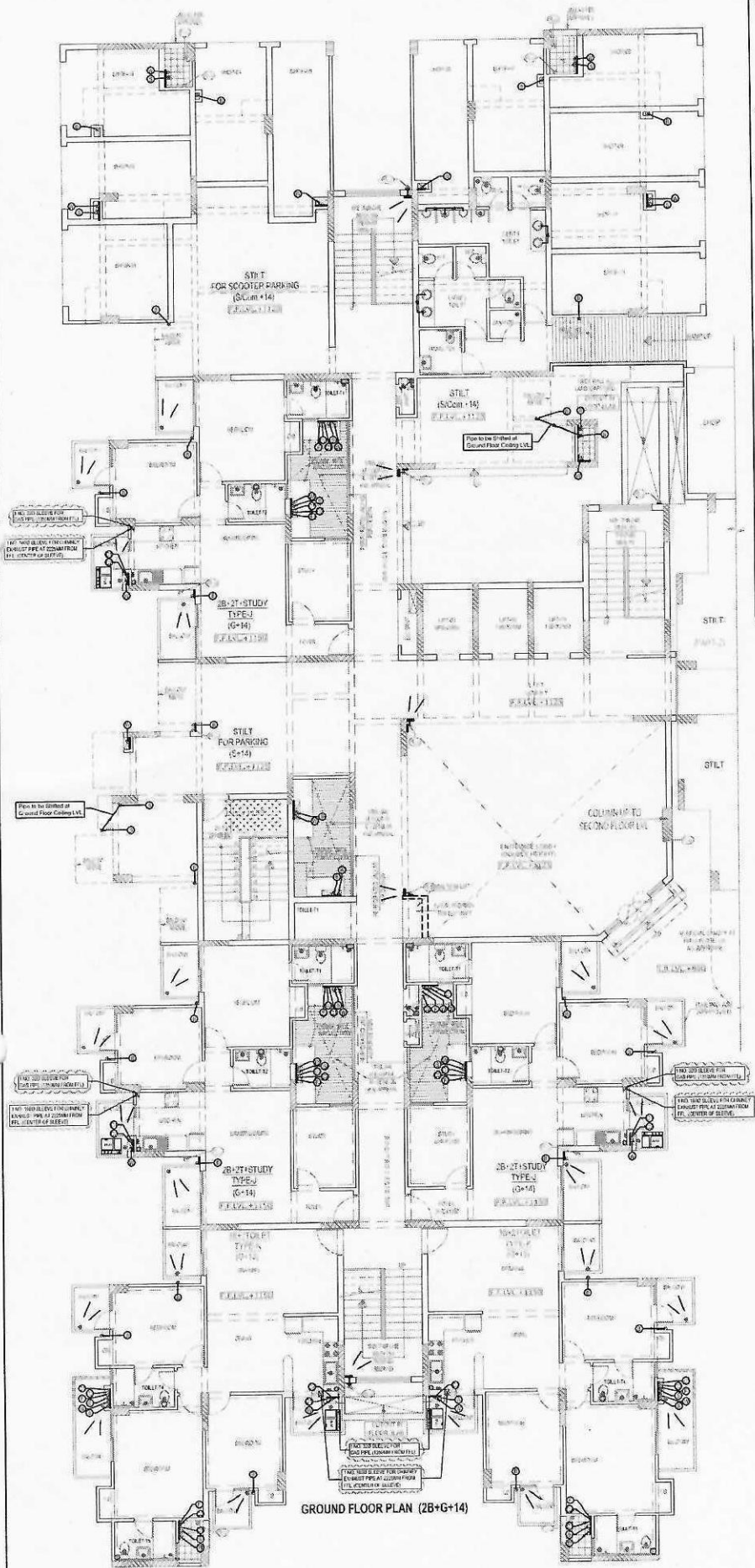
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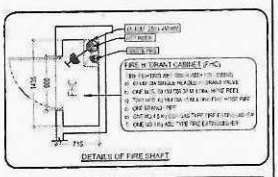


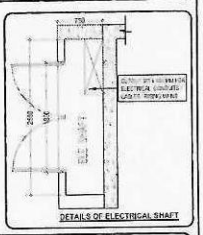
NOTES : (Plumbing)

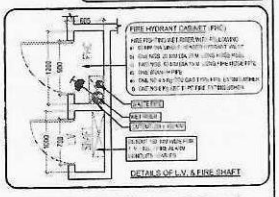
1. COLD WATER SUPPLY PIPE MATERIAL
   a) For main toilet block(s) - CPVC (SDR-11) with solvent cement joints
   b) For inside toilet (typical) - UPVC SCH 40 Pipes with SCH 80 fittings by solvent cement joint
   c) For duct / terrace - UPVC SCH 80 Pipes with SCH 80 fittings by solvent cement joint
   d) For basement & car wash - G. I. (CLASS 'B') by IS 1239
   e) For rain water - G. I. (CLASS 'B') by IS 1239
2. HOT WATER SUPPLY PIPE MATERIAL
   a) For main toilet - CPVC (SDR-11) with solvent cement joints
   b) For duct / terrace - CPVC (SDR-11) with solvent cement joints
3. The water supply pipe diameter mention on the drawing is nominal Size (N).
4. SOIL / WASTE / VENT / RAIN WATER PIPE MATERIAL
   a) upto 65 mm dia pipe (toilet floor) - UPVC - 6 KG/SQ.CM. as per IS : 4985 (suitable for solvent cement joint)
   b) 75/90 & 110/160 mm dia pipe (vertical pipe in shaft) - UPVC (TYPE B) (MAR grade) as per IS : 13592 & IS : 783 (suitable for rubber ring joint)
   c) 75 - 110 mm dia pipe (under toilet floor) - UPVC (TYPE B) (MAR grade) as per IS 13592 & IS 783 (suitable for solvent cement joint)
5. All basins (low sanitary fixtures (below which the vertical Soil / Waste pipe is turning horizontally) can only be connected into vertical / horizontal Soil / Waste Pipe only after min. 2.5 UL elbow(s).
6. All the floor traps which are directly connected in pipe and manhole shall possibly be of P Trap (long type) with min. 50 mm seal.
7. The sunken floor of toilets and wet areas shall be provided with Water proofing Treatment, slope and i.e. 1:40 min. G.I. sand.
8. The slope of the green (toilet and/or toilet) door shall be in between 1 in 40 to 1 in 40
9. The slope of toilet floors towards the floor trap shall be 1 in 40 maximum.
10. The slope of terrace from ridge line towards rain water pipes shall be 1 in 100 to 1 in 150
11. All hot water pipes on terrace / duct shall be insulated by rubber. The thickness of insulation will be
    a) For 15 & 20 mm dia. pipe - 6 mm thick
    b) For 25, 32 & 40 mm dia. pipe - 13 mm thick
    c) For 50 mm & above dia. pipe - 19 mm thick
    For terrace installation the nitrile rubber insulation will be protected by galvanized mechanical protection
12. 160 mm dia. PVC pipe shall be provided for each open staircase / ramp/lobby / open corridors.
13. All soil & waste pipes laid under toilet / kitchen floor shall be covered structure with 75 mm CC (1 : 5 : 10)
14. Soil / waste / rain water pipes in basement / stilt shall be suspended from ceiling through G. I. hangers.
15. All Plumbing Pipes inside shafts have to be supported at not more than 1.5 M. C/C. All pipes should be clamped on the G.I. Slotted Angle (65 x 65 x 6 MM) by U.S. 'M' Strap Clamp. The individual pipe may be supported by G.I. rubber lined split clamp.
16. All vent's shall be floor mounted type and the medial should be so selected that the S-trap outlet centre should be 200 - 300 mm from back wall. (unless specifically, over Bath
17. The mounting height of different sanitary ware shall be as under
    a) Wall / mixture (for basins) - 1000 m.m.
    b) Shower - 2050 m.m. / or as specified
    c) Kitchen sink / mixture - Table top 1000 m.m.
    d) Angle valve
       i) For toilet geyser - 1500 m.m. / or as per site
       ii) For kitchen geyser - 2100 m.m. / or as per site
       iii) For washing machine - 600 m.m.
       iv) For water purifier - 1000 m.m.
       v) For health spray (for W.C.) - 300 m.m.
       vi) For cistern (for W.C.) - 300 m.m.
       vii) For wash basin - 500 m.m.
    e) For wash basin trap of min. - 200 - 250 m.m.

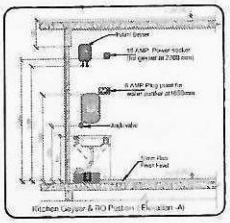
LEGEND : (Plumbing)

S. No.	SYMBOL	DESCRIPTION
1.		100Ø UPVC SOIL AND VENT PIPE
2.		110Ø UPVC WASTE AND VENT PIPE
3.		110Ø UPVC RAIN WATER PIPE
4.		75Ø UPVC BALCONY DRAIN PIPE
5.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR ALL FLOOR EXCEPT TOP TWO FLOOR
6.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR TOP TWO FLOOR ONLY
7.		HOT WATER SUPPLY PIPE (FROM SOLAR SYSTEM)
8.		RECYCLED WATER SUPPLY DROP FROM FLAT, TO WC
9.		GEYSER
10.		WASHING MACHINE
11.		WATER PURIFIER
12.		HEALTH SPRAY WITH ANGLE VALVE
13.		MIXTURE & SHOWER
14.		COLD WATER SUPPLY PIPE (CWP)
15.		HOT WATER SUPPLY PIPE (HWS)
16.		SOLAR HOT WATER SUPPLY PIPE (CWS)
17.		RECYCLED WATER SUPPLY PIPE (RWP)
18.		ISOLATING VALVE
19.		DRAIN PIPE
20.	WCT	WC TRAP (4" deep 40mm seal)
21.	PT	P TRAP (110 X 110 MM long type 50mm seal)
22.	ST	S TRAP (110 X 110 MM (50 mm seal)
23.		EUROPEAN W.C.
24.		WALL BACK WASH BASIN
25.		SINK WITH DRAIN BOARD
26.		SINK DOUBLE BOWL WITHOUT DRAIN BOARD
27.		





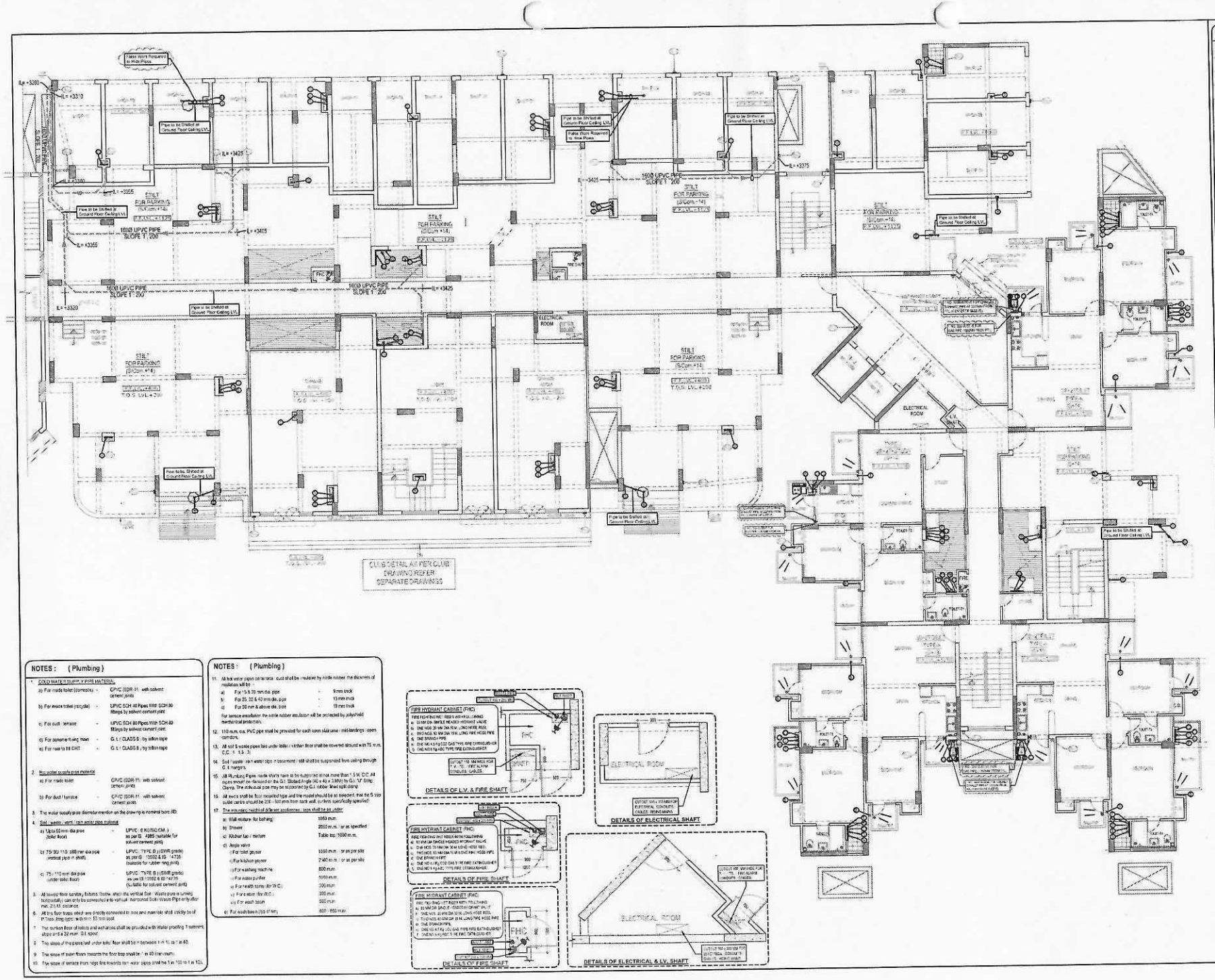




project: PROPOSED SAVIOUR PARK, MOHAN NAGAR GHAZIABAD (U.P.)	title: PLUMBING DRAWING-TOWER -A1,A2 (Part-1)	drawing released for: ☐ APPROVAL ☐ ADVANCE COPY ☐ SUBMISSION ■ CONSTRUCTION	drg. no.: SAVIOUR / TOWER-A1,A2 (PART-1) / P - 04	drawn by: Anuj	architects: DEEPAK MEHTA & ASSOCIATES, ARCHITECTS, PLANNERS, VALUERS, LANDSCAPE & INTERIORS, 1st & 2nd FLOOR, PLOT NO. 18, ABHISHEK PLAZA, I.P.C., MAYUR VIHAR PH - II, DELHI - 110091, INDIA, TEL. : +91-11-22770186, +91-9999218713.
subtitle: GROUND FLOOR PLAN (2B+G+14)			scale: 1 : 85	designed by: Sanjay Goel	services consultant: Consummate Engineering Services (P) Ltd., Noida Office : B - 67, Sector - 57, Noida - 201 301, Tel : (0120) 2301500 (30 Lines), Lko. Office : R 906, Raintree Plumeria, Gomti Nagar, Lucknow, e-mail : mail@cesp.in website : www.cesp.in
			date: April 2019	checked by: Anand Havelia	

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LEGEND : (Plumbing)

S. No.	SYMBOL	DESCRIPTION
1		160Ø UPVC SOIL AND VENT PIPE
2		110Ø UPVC WASTE AND VENT PIPE
3		160Ø UPVC RAIN WATER PIPE
4		160Ø UPVC RAIN WATER PIPE
5		75Ø UPVC BALCONY DRAIN PIPE
6		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET KITCHEN FOR ALL FLOOR EXCEPT TOP TWO FLOOR
7		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET KITCHEN FOR TOP TWO FLOOR ONLY
8		HOT WATER SUPPLY PIPE (FROM SOLAR SYSTEM)
9		RECYCLED WATER SUPPLY DROP FROM O.H.T. TO W.C.
10		GEYSER
11		WASHING MACHINE
12		WATER PURIFIER
13	H.S.	HEALTH SPRAY WITH ANGLE VALVE
14		MIXTURE & SHOWER
15		COLD WATER SUPPLY PIPE (CWS)
16		HOT WATER SUPPLY PIPE (HWS)
17		SOLAR HOT WATER SUPPLY PIPE (SHS)
18		RECYCLED WATER SUPPLY PIPE (RWS)
19		ISOLATING VALVE
20	D/P	DRAIN POINT
21	M.F.T.	MULTI FLOOR TRAP - 6" dcorp (50 mm seal)
22	P/T	P TRAP (110 X 110MM) - long type (50 mm seal)
23	S/T	S TRAP (110 X 110 MM) (50 mm seal)
24		EUROPEAN W.C.
25		FLAT BACK WASH BASIN
26		SINK WITH DRAIN BOARD
27		SINK (DOUBLE BOWL WITHOUT DRAIN BOARD

NOTES : (Plumbing)

1. COLD WATER SUPPLY PIPE MATERIAL
   a) For inside toilet (Concealed) - CPVC (SDR-11) with solvent cement joints
   b) For inside toilet (Visible) - UPVC SCH 40 Pipes With SCH 80 fittings by solvent cement joint
   c) For duct / terrace - UPVC SCH 80 Pipes With SCH 80 fittings by solvent cement joint
   d) For basement ring main - G. I. CLASS B , by tallon tape
   e) For riser to OH.T. - G. I. CLASS B , by tallon tape
2. Rain water supply pipe material
   a) For inside toilet - CPVC (SDR-11) with solvent cement joints
   b) For duct / terrace - CPVC (SDR-11 with solvent cement joints
3. The water supply pipe diameter mention on the drawing is nominal bore (ID)
4. Soil / waste / vent / rain water pipes material
   a) 160ø 6S mm dia pipe (toilet floor) - UPVC (IS 4985/ISO/CM.) as per IS 4985 (suitable for solvent cement joint)
   b) 75/ 90/ 110/ 160 mm dia pipe vertical pipe (in shaft) - UPVC TYPE B (SWR grade) as per IS 13592 & IS 14735 (suitable for rubber ring joint)
   c) 75 / 110 mm dia pipe (under toilet floor) - UPVC TYPE B (SWR grade) as per IS 13592 & IS 14735 (suitable for solvent cement joint)
5. All lavatory floor sanitary fixtures / traps which are directly connected to soil and manhole shall strictly be of P Trap, long type, with min. 50 mm seal.
6. The number floor of toilets and wet areas shall be provided with Water proofing Treatment, slope and a 20 mm / 0.1 slope.
7. The slope of the pipes laid under toilet floor shall be in between 1 in 10 to 1 in 40.
8. The slope of toilet floors towards the floor trap shall be 1 in 40 (min-mum).
9. The slope of terrace from ridge line towards rain water pipes shall be 1 in 100 to 1 in 150.

NOTES : (Plumbing)

11. All hot water pipes on terrace duct shall be insulated by nitrile rubber, the thickness of insulation will be :
    a) For 15 & 20 mm dia. pipe - 9 mm thick
    b) For 25, 32 & 40 mm dia. pipe - 13 mm thick
    c) For 50 mm & above dia. pipe - 19 mm thick
    For terrace insulation the nitrile rubber insulation will be protected by polyshield mechanical protection.
12. 110 mm. dia. PVC pipe shall be provided for each room / staircase / mid landings / open corridors.
13. All soil & waste pipes laid under toilet / kitchen floor shall be covered around with 75 m.m. C.C. (1 : 1.5 : 3)
14. Soil / waste / rain water pipe in basement / stilt shall be suspended from ceiling through G. I. hangers.
15. All Plumbing Pipes / waste shafts have to be supported at not more than 1.5 M. C/C. All pipes should be fixed on the G.I. Slotted Angle (40 x 40 x 3 MM) by G.I. "U" Bolts / Clamps. The individual pipe may be supported by G.I. rubber lined split clamp.
16. All risers shall be floor mounted type and the model should be so selected, that the 5 year outlet centre should be 225 - 300 mm from back wall, (unless specifically specified)
17. The minimum height of different appliances / taps shall be as under :
    a) Wall mixture / for bathing - 1050 m.m.
    b) Shower - 2000 m.m. or as specified
    c) Kitchen tap / mixture - Table top / 1050 m.m.
    d) Angle valve
       i) For toilet geyser - 1050 m.m. or as per site
       ii) For kitchen geyser - 2140 m.m. or as per site
       iii) For washing machine - 800 m.m.
       iv) For water purifier - 1050 m.m.
       v) For health spray (for W.C.) - 300 mm
       vi) For water (for W.C.) - 300 mm
       vii) For wash basin - 900 mm
    e) For wash basin (Top of rim) - 800 - 850 m.m.

rev. no.	date	revision

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
PLUMBING DRAWING TOWER-A1,A2 (Part-2)

subtitle
GROUND FLOOR PLAN (2B+G+14)

drawing released for
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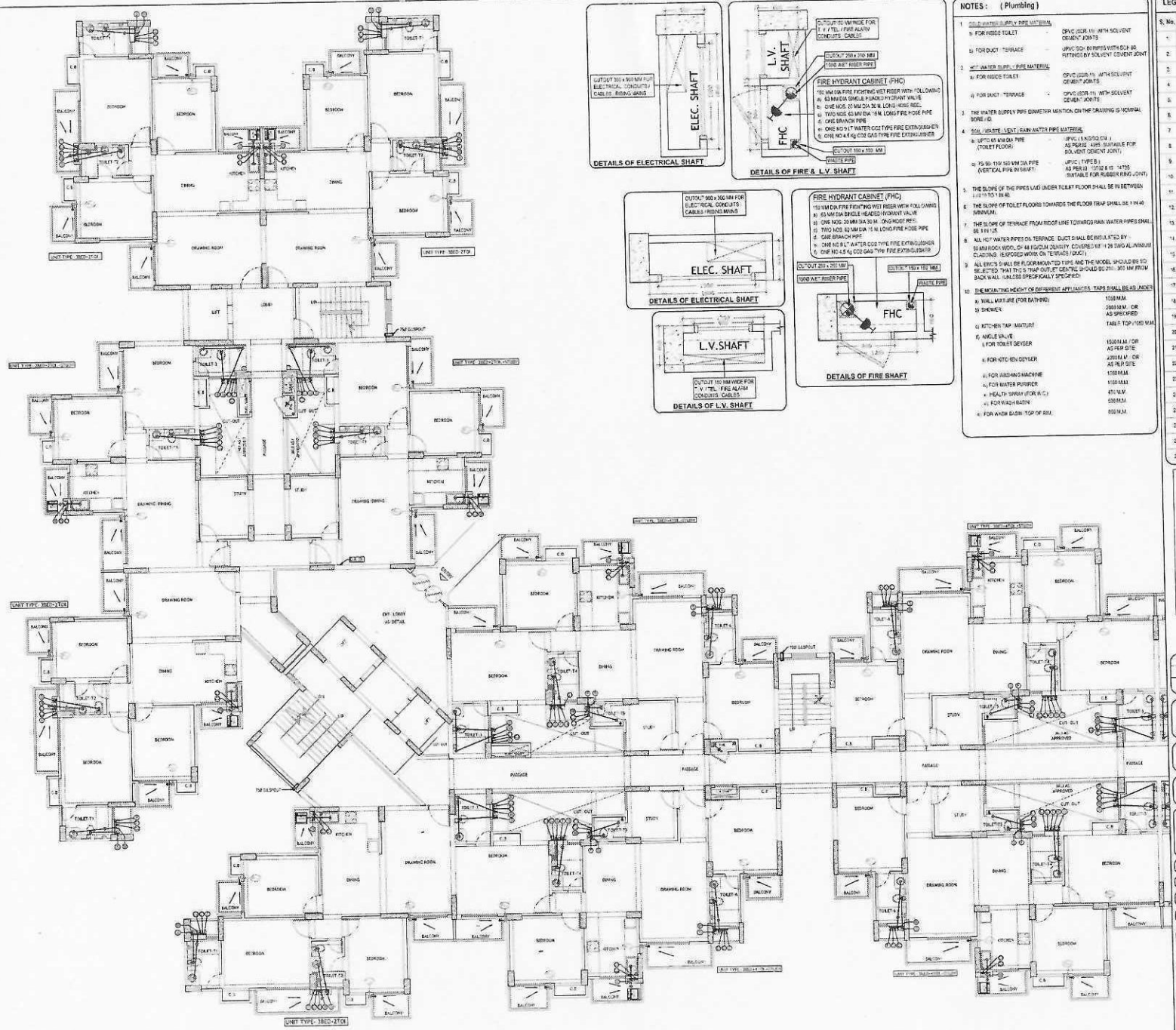
drg. no. SAVIOUR / TOWER-A1,A2 (PART- 2) / P - 04	drawn by Anuj
scale 1 : 100	designed by Sanjay Goel
date April - 2019	checked by Anand Havelia

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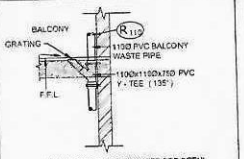
NOTES : (Plumbing)

1. COLD WATER SUPPLY PIPE MATERIAL
   a) FOR INSIDE TOILET - CPVC (SCR.11) WITH SOLVENT CEMENT JOINTS
   b) FOR DUCT / TERRACE - UPVC SCH 80 PIPES WITH SCH 80 FITTINGS BY SOLVENT CEMENT JOINT
2. HOT WATER SUPPLY PIPE MATERIAL
   a) FOR INSIDE TOILET - CPVC (SDR.11) WITH SOLVENT CEMENT JOINTS
   b) FOR DUCT / TERRACE - CPVC (SDR.11) WITH SOLVENT CEMENT JOINTS
3. THE WATER SUPPLY PIPE DIAMETER MENTION ON THE DRAWING IS NOMINAL BORE / ID.
4. SOIL / WASTE / VENT / RAIN WATER PIPE MATERIAL
   a) UPTO 65 MM DIA PIPE (TOILET FLOOR) - UPVC (5 KG/SQ.CM) AS PER IS : 4985 SUITABLE FOR SOLVENT CEMENT JOINT.
   b) 75/ 90/ 110/ 160 MM DIA PIPE (VERTICAL PIPE IN SHAFT) - UPVC (TYPE B) AS PER I.S : 13592 & I.S : 14735 (SUITABLE FOR RUBBER RING JOINT)
5. THE SLOPE OF THE PIPES LAID UNDER TOILET FLOOR SHALL BE IN BETWEEN 1 IN 75 TO 1 IN 40.
6. THE SLOPE OF TOILET FLOORS TOWARDS THE FLOOR TRAP SHALL BE 1 IN 40 (MINIMUM).
7. THE SLOPE OF TERRACE FROM RIDGE LINE TOWARDS RAIN WATER PIPES SHALL BE 1 IN 1.25.
8. ALL HOT WATER PIPES ON TERRACE / DUCT SHALL BE INSULATED BY :- 50 MM ROCK WOOL OF 48 KG/CUM DENSITY, COVERED WITH 29 SWG ALUMINIUM CLADDING. (EXPOSED WORK ON TERRACE / DUCT)
9. ALL EWC'S SHALL BE FLOOR MOUNTED TYPE AND THE MODEL SHOULD BE SO SELECTED THAT ITS S TRAP OUTLET CENTRE SHOULD BE 270 - 300 MM FROM BACK WALL. (UNLESS SPECIFICALLY SPECIFIED)
10. THE MOUNTING HEIGHT OF DIFFERENT APPLIANCES / TAPS SHALL BE AS UNDER :

a) WALL MIXTURE (FOR BATHING)	1100 M.M.
b) SHOWER	2000 M.M. / OR AS SPECIFIED
c) KITCHEN TAP / MIXTURE	TABLE TOP / 1050 M.M.
d) ANGLE VALVE (FOR TOILET GEYSER	1500 M.M. / OR AS PER SITE
e) FOR KITCHEN GEYSER	2200 M.M. / OR AS PER SITE
g) FOR WASHING MACHINE	1100 M.M.
h) FOR WATER PURIFIER	1100 M.M.
i) HEALTH SPRAY (FOR W.C.)	470 M.M.
j) FOR WASH BASIN	600 M.M.
k) FOR WASH BASIN (TOP OF RIM)	800 M.M.

LEGEND : (Plumbing)

S. No.	SYMBOL	DESCRIPTION
1.	SVP	160Ø PVC SOIL AND VENT PIPE
2.	WVP	110Ø PVC WASTE AND VENT PIPE
3.	RWP	110Ø PVC RAIN WATER / BALCONY DRAIN PIPE
4.	GWP	75Ø PVC S.W.C. / CORRIDOR WASTE PIPE
5.	CWP	DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR ALL FLOOR EXCEPT TOP TWO FLOOR
6.	CWP	DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR TOP TWO FLOOR ONLY
7.	HWP	HOT WATER SUPPLY PIPE (FROM SOLAR SYSTEM)
8.	RWP	RECYCLED WATER SUPPLY DROP FROM O.H.T. TO W.C.
9.	G	GEYSER
10.	WM	WASHING MACHINE
11.	WP	WATER PURIFIER
12.	H.S.	HEALTH SPRAY WITH ANGLE VALVE
13.	T	TAP
14.	M/S	MIXTURE & SHOWER
15.	CWP	COLD WATER SUPPLY PIPE (CWS)
16.	HWP	HOT WATER SUPPLY PIPE (HWS)
17.	SWP	SOLAR HOT WATER SUPPLY PIPE (SWS)
18.	RWP	RECYCLED WATER SUPPLY PIPE (RWS)
19.	IV	ISOLATING VALVE
20.	DP	DRAIN POINT
21.	PFT	PLAIN FLOOR TRAP
22.	MFT	MULTI FLOOR TRAP
23.	PT	P TRAP
24.	EWC	EUROPEAN W.C.
25.	OWC	ORISSA PAN W.C.
26.	FBWB	FLAT BACK WASH BASIN
27.	CWB	COUNTER WASH BASIN
28.	SINK	SINK WITH DOUBLE BOWL



TYPICAL BALCONY RAIN WATER PIPE DETAIL ON A TYPICAL FLOOR

rev. no.	date	revision

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
PLUMBING DRAWING (BLOCK - B1)

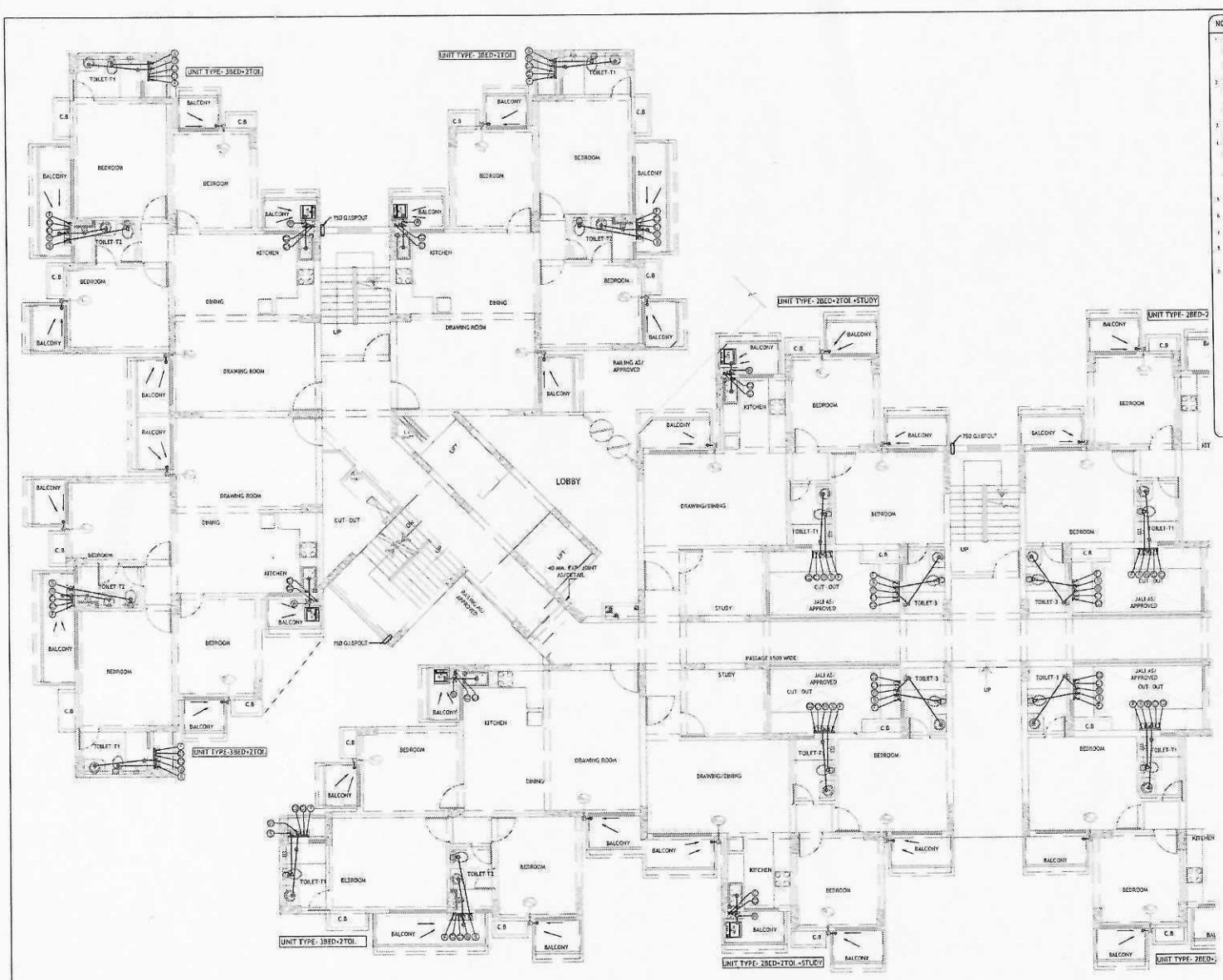
subtitle
GROUND FLOOR PLAN

drawing released for
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drg. no. SAVIOUR / BL - B1 / P - 01
scale 1 : 95 date January 2012
drawn by Baldev ckd by Sanjay Goel
approved by Anand Havelia

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NOTES : (Plumbing)

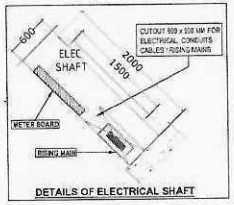
1. PIPES AND FITTINGS FOR SOIL, WASTE AND VENT PIPES
   a) FOR RISER TOILET — UPVC, SDR-11, WITH SOLVENT CEMENT JOINTS
   b) FOR DUCT / TERRACE — UPVC, SDR-26 OR PVC WITH SDR 33 APPROVED BY SOLVENT CEMENT JOINT
2. HOT WATER SUPPLY PIPE MATERIAL
   a) FOR RISER TOILET — CPVC, SDR-11, WITH SOLVENT CEMENT JOINTS
   b) FOR DUCT / TERRACE — CPVC, SDR-11, WITH SOLVENT CEMENT JOINTS
3. THE WATER SUPPLY PIPE DIAMETER MENTION ON THE DRAWING IS NOMINAL BORE ID.
4. SOIL, WASTE, VENT, RAIN WATER PIPE MATERIAL
   a) UP SIDE MAY USE PIPE (TOILET FLOOR) — UPVC 6 KG/SQ.CM (AS PER IS : 4985 SUITABLE FOR SOLVENT CEMENT JOINT
   b) TO MAY USE MS PIPE (VERTICAL PIPE IN DUCT) — UPVC (TYPE B) AS PER IS : 13592 S.N. 1 (SUITABLE FOR RUBBER RING JOINT)
5. THE SLOPE OF THE PIPES LAID UNDER TOILET FLOOR SHALL BE IN BETWEEN 1 IN 50 TO 1 IN 40.
6. THE SLOPE OF TOILET FLOORS TOWARDS THE FLOOR TRAP SHALL BE 1 IN 40 (MINIMUM).
7. THE SLOPE OF TERRACE FROM RIDGE LINE TOWARDS RAIN WATER PIPES SHALL BE 1 IN 125.
8. ALL HOT WATER PIPES ON TERRACE DUCT SHALL BE INSULATED BY 19 MM RICH WOOL OF 48 KG/CUM DENSITY COVERED WITH 24 GAUGE ALUMINIUM CLADDING. EXPOSED WORK ON TERRACE ROOF.
9. ALL EWCS SHALL BE FLOOR MOUNTED TYPE AND THE MODEL SHOULD BE SO SELECTED THAT THE S TRAP OUTLET CENTRE SHOULD BE 25 - 30 MM FROM BACK WALL (UNLESS SPECIFICALLY SPECIFIED)

THE MOUNTING HEIGHTS OF DIFFERENT APPLIANCES / TAPS SHALL BE AS UNDER

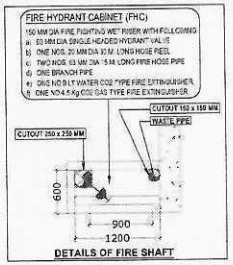
a) WALL MIXTURE (FOR BATHS)	1200 M.M.
b) SHOWER	2000 M.M. OR AS SPECIFIED
c) KITCHEN TAP / MIXTURE	1000 M.M. TOP
d) ANGLE VALVE (FOR TOILET CISTERN)	1200 M.M. OR AS PER SITE
e) FOR KITCHEN GEYSER	2200 M.M. OR AS PER SITE
f) FOR WASHING MACHINE	1000 M.M.
g) FOR WATER PURIFIER	1000 M.M.
h) HEALTH SPRAY (FOR W.C.)	450 M.M.
i) FOR WASH BASIN	550 M.M.
k) FOR WASH BASIN (TOP OF RIM)	800 M.M.

LEGEND : (Plumbing)

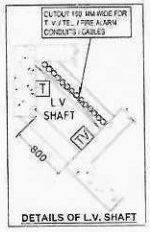
S. No.	SYMBOL	DESCRIPTION
1.	SV	110Ø PVC SOIL AND VENT PIPE
2.	WV	110Ø PVC WASTE AND VENT PIPE
3.	RW	110Ø PVC RAIN WATER / BALCONY DRAIN PIPE
4.	S	75Ø PVC F.R.P.C.V CORRIDOR WASTE PIPE
5.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR ALL FLOOR EXCEPT TOP TWO FLOOR.
6.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR TOP TWO FLOOR ONLY.
7.	HW	HOT WATER SUPPLY PIPE (FROM BOILER SYSTEM)
8.	RW	RECYCLED WATER SUPPLY DROP FROM S.T.P. TO W.C.
9.	G	GEYSER
10.	WM	WASHING MACHINE
11.	WP	WATER PURIFIER
12.	HS	HEALTH SPRAY WITH ANGLE VALVE
13.	T	TAP
14.	MS	MIXTURE & SHOWER
15.	CW	COLD WATER SUPPLY PIPE (CWS)
16.	HW	HOT WATER SUPPLY PIPE (HWS)
17.	SW	SOLAR HOT WATER SUPPLY PIPE (SWS)
18.	RW	RECYCLED WATER SUPPLY PIPE (RWS)
19.	IV	ISOLATING VALVE
20.	DP	DRAIN POINT
21.	FDT	PLAIN FLOOR TRAP
22.	MFT	MULTI FLOOR TRAP
23.	PT	P TRAP
24.	EWC	EUROPEAN W.C.
25.	IWC	INDIAN W.C.
26.		FLAT BACK WASH BASIN
27.		COUNTER WASH BASIN
28.		SINK WITH DOUBLE BOWL



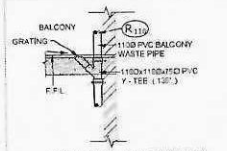
DETAILS OF ELECTRICAL SHAFT



DETAILS OF FIRE SHAFT



DETAILS OF L.V. SHAFT



TYPICAL BALCONY RAIN WATER PIPE DETAIL ON A TYPICAL FLOOR

rev. no.	date	revision

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
PLUMBING DRAWING (BLOCK - C1)

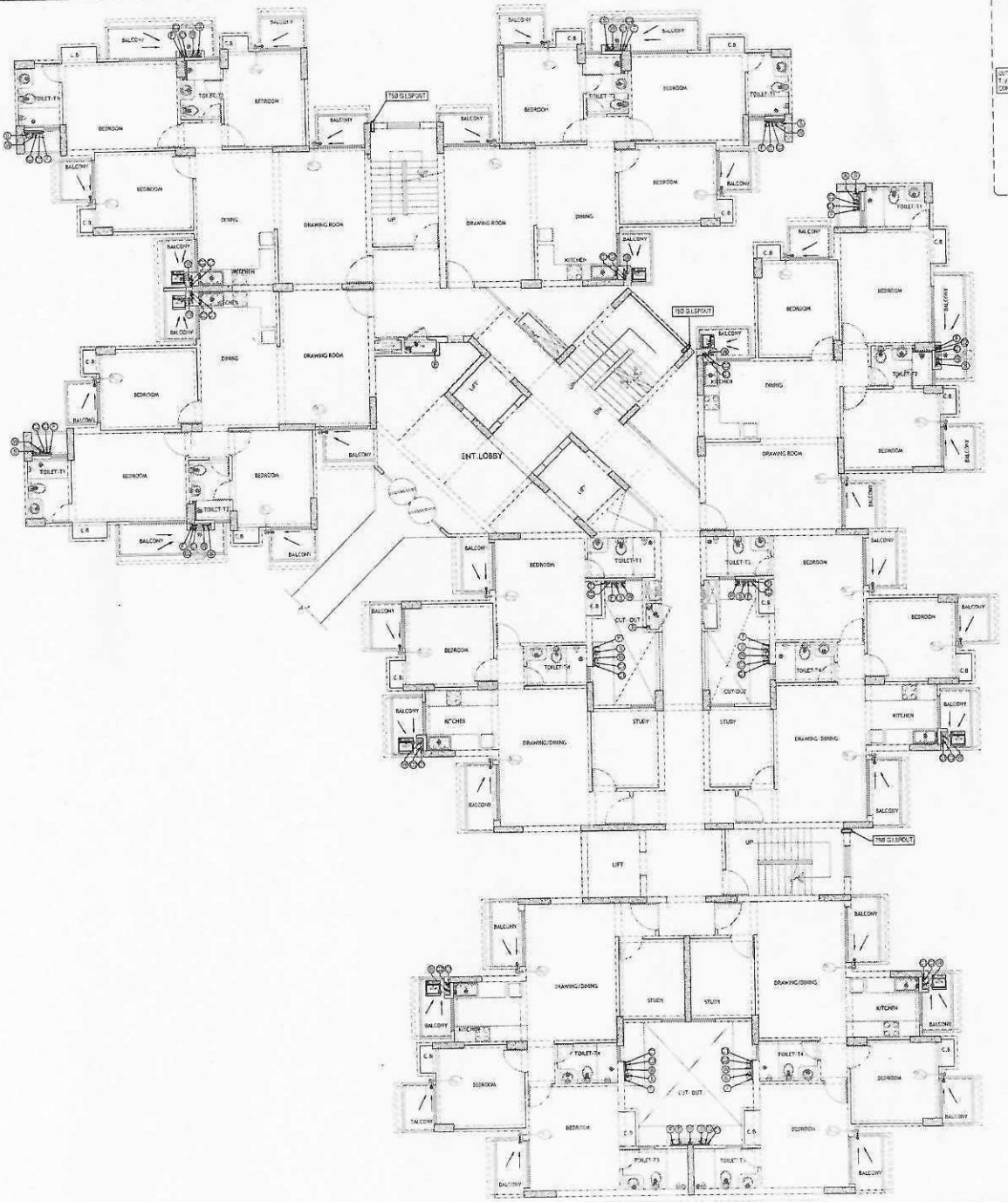
subtitle
GROUND FLOOR PLAN - PART 1(2B+G+14)

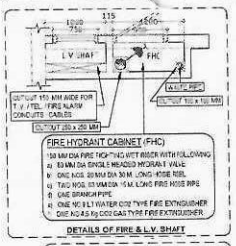
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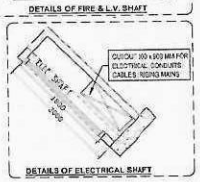
drg. no.	SAVIOUR / BL - C1 / P - 01
scale	1 : 75
date	May 2012
drawn by	SANJAY
ckd by	Sanjay Goel
approved by	Anand Havelia

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ARCHITECTS, PLANNERS, VALUERS, LANDSCAPE & INTERIORS
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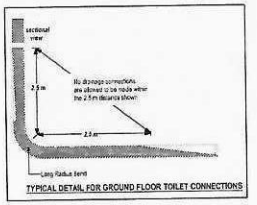




NOTES : (Plumbing)

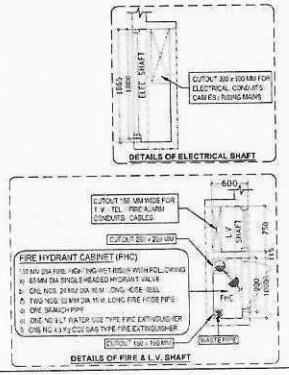
1. SOIL WATER SUPPLY PIPE WITHIN
   a) FOR INSIDE TOILET — CPVC (SDR-11) WITH SOLVENT CEMENT JOINTS
   b) FOR DUCT / TERRACE — UPVC SCH 80 PIPES WITH SCH 80 FITTINGS BY SOLVENT CEMENT JOINT
2. HOT WATER SUPPLY PIPE MATERIAL
   a) FOR INSIDE TOILET — CPVC (SDR-11) WITH SOLVENT CEMENT JOINTS
   b) FOR DUCT / TERRACE — CPVC (SDR-11) WITH SOLVENT CEMENT JOINTS
3. THE WATER SUPPLY PIPE DIAMETER MENTION ON THE DRAWING IS NOMINAL BORE / ID.
4. SOIL / WASTE / VENT / RAIN WATER PIPE MATERIAL
   a) UPTO 65 MM DIA PIPE (TOILET FLOOR) — UPVC (6 KG/SQ CM) AS PER IS : 4985, SUITABLE FOR SOLVENT CEMENT JOINT.
   b) 75, 90, 110, 160 MM DIA PIPE (VERTICAL PIPE IN SHAFT) — UPVC (TYPE B) AS PER IS : 13592 & IS : 14735 SUITABLE FOR RUBBER RING JOINT.
5. THE SLOPE OF THE PIPES LAID UNDER TOILET FLOOR SHALL BE IN BETWEEN 1 IN 75 TO 1 IN 40.
6. THE SLOPE OF TOILET FLOORS TOWARDS THE FLOOR TRAP SHALL BE 1 IN 40 MINIMUM.
7. THE SLOPE OF TERRACE FROM RIDGE LINE TOWARDS RAIN WATER PIPES SHALL BE 1 IN 125.
8. ALL HOT WATER PIPES ON TERRACE / DUCT SHALL BE INSULATED BY 50 MM ROCK WOOL OF 48 KG/CUM DENSITY, COVERED WITH 26 SWG ALUMINIUM CLADDING. (EXPOSED WORK ON TERRACE / DUCT)
9. ALL EWCS SHALL BE FLOOR MOUNTED TYPE AND THE MODEL SHOULD BE SO SELECTED THAT ON S TRAP OUTLET CENTRE SHOULD BE 200 - 300 MM FROM BACK WALL UNLESS SPECIFICALLY SPECIFIED.
10. THE MOUNTING HEIGHT OF DIFFERENT APPLIANCES / TAPS SHALL BE AS UNDER

a. WALL MIXTURE (FOR BATHING)	1000 MM.
b) SHOWER	2000 MM. OR AS SPECIFIED
c) KITCHEN TAP / MIXTURE	TABLE TOP / 1050 M.M.
d) ANGLE VALVE	
i) FOR TOILET GEYSER	1500 MM. FOR AS PER SITE
ii) FOR KITCHEN GEYSER	2200 MM. OR AS PER SITE
iii) FOR WASHING MACHINE	1150 MM.
iv) FOR WATER PURIFIER	1700 MM.
v) HEALTH SPRAY (FOR W.C.)	450 M.M.
vi) FOR WASH BASIN	500 MM.
e) FOR WASH BASIN TOP OF RIM	850 MM.



TYPICAL DETAIL FOR GROUND FLOOR TOILET CONNECTIONS

Note :
1. It Shall be ensured that the Ground / Lower floor Sanitary fixtures should be connected into Basement header at not less than minimum 2.5 meter distance from vertical connection.
2. It Shall be ensured that the Ground / lower floor Sanitary fixtures should not be connected into vertical pipes.



LEGEND : (Plumbing)

S. No.	SYMBOL	DESCRIPTION
1.		100 Ø PVC SOIL AND VENT PIPE
2.		110 Ø PVC WASTE AND VENT PIPE
3.		110 Ø PVC RAIN WATER / BALCONY DRAIN PIPE
4.		75 Ø PVC RAIN WATER / BALCONY DRAIN PIPE
5.		75 Ø UCF H.C. / CORRISION WASTE PIPE
6.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET KITCHEN FOR ALL FLOOR EXCEPT TOP TWO FLOOR
7.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET KITCHEN FOR TOP TWO FLOOR ONLY
8.		HOT WATER SUPPLY PIPE (FROM SOLAR SYSTEM)
9.		RECYCLED WATER SUPPLY DROP FROM O.H.T. TO W.C.
10.		GEYSER
11.		WASHING MACHINE
12.		WATER PURIFIER
13.	H.S.	HEALTH SPRAY WITH ANGLE VALVE
14.		TAP
15.		MIXTURE & SHOWER
16.		COLD WATER SUPPLY PIPE (CWS)
17.		HOT WATER SUPPLY PIPE (HWS)
18.		SOLAR HOT WATER SUPPLY PIPE (SWS)
19.		RECYCLED WATER SUPPLY PIPE (RWS)
20.		ISOLATING VALVE
21.	DP	DRAIN POINT
22.	FPT	PLAIN FLOOR TRAP
23.	MFT	MULTI FLOOR TRAP
24.	PT	P TRAP
25.		EUROPEAN W. C.
26.		ORISSA PAN W. C.
27.		FLAT BACK WASH BASIN
28.		COUNTER WASH BASIN
29.		SINK WITH DOUBLE BOWL

rev. no.	date	revision
R - 1	26/11/2015	SEPARATE RAIN WATER PIPE ADDED IN MASTER BED ROOM BALCONY.

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
PLUMBING DRAWING (BLOCK - D1)

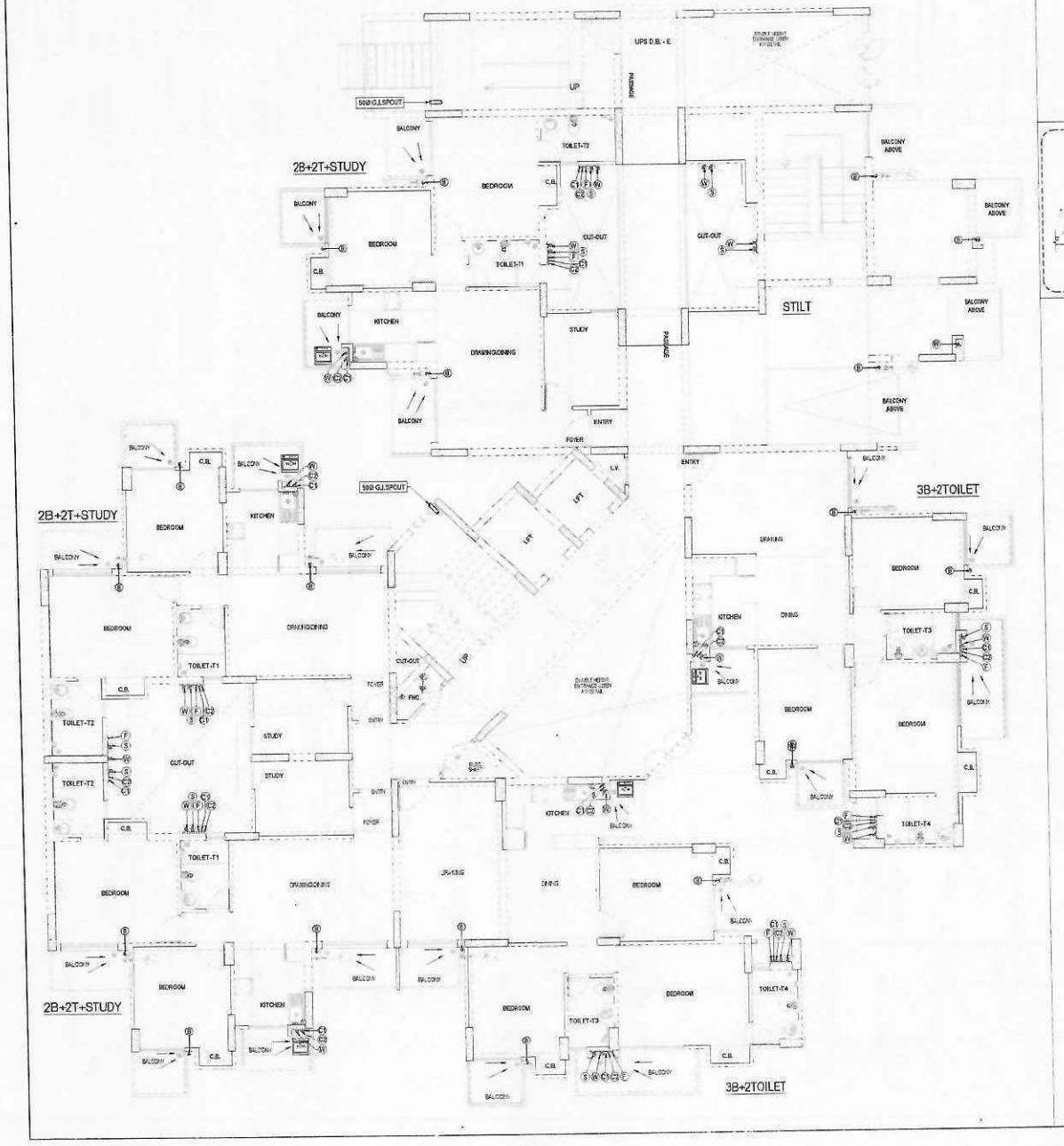
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GROUND FLOOR - PART 1(2B+G+14)

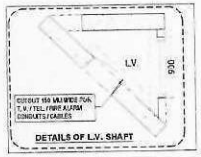
drawing released for
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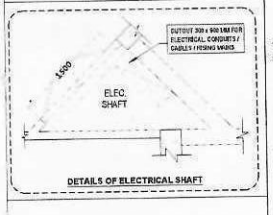
drg. no. SAVIOUR / BL - D1 / P - 02
scale 1 : 85 date November 2012
drawn by Baldev ckd by Sanjay Goel
approved by Anand Havelia

architects
DEEPAK MEHTA & ASSOCIATES
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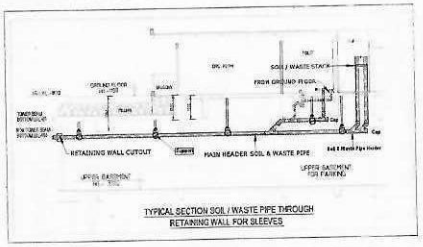


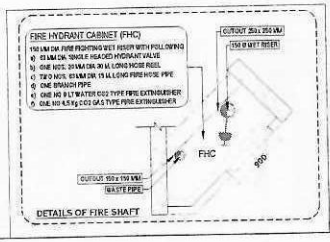
NOTES : (Plumbing)

1. COLD WATER SUPPLY PIPE MATERIAL
   a) For inside toilet (concrete) - UPVC (SCH-11) with solvent cement joints
   b) For inside toilet (recycle) - UPVC SCH 40 Pipes With SCH 80 fittings by solvent cement joint
   c) For duct / terrace - UPVC SCH 80 Pipes With SCH 80 fittings by solvent cement joint
   d) For basement drug main - G.I. (CLASS B) by teflon tape
   e) For risers to OH OHT - G.I. (CLASS B) by teflon tape
   f) From OHT to terrace M. - G.I. (CLASS B) by teflon tape
2. Hot water supply pipe material
   a) For inside toilet - CPVC (SCH-11) with solvent cement joints
   b) For duct / terrace - CPVC (SCH-11) with solvent cement joints
3. The water supply pipe diameter mention on the drawing in nominal bore ØD.
4. Soil / waste / vent / rain water pipe material
   a) Upto 65 mm dia pipe (toilet floor) - UPVC (6 KG/SQ.CM) as per IS : 4985 (suitable for solvent cement joint)
   b) 75/ 90/ 110/ 160 mm dia pipe (vertical pipe in shaft) - UPVC (TYPE B) (SWR grade) as per IS : 13592 & IS : 14735 (suitable for rubber ring joint)
   c) 75 / 110 mm dia pipe (under toilet floor) - UPVC (TYPE B) (SWR grade) as per IS :13592 & IS 14735 (suitable for solvent cement joint)
5. All kaved floor sanitary fixtures (water which the vertical Soil / Waste pipe in turning horizontally) can only be connected into vertical / horizontal Soil / Waste Pipe only after min. 2.5 M. distance.
6. All the floor traps which are directly connected in pipe and manhole shall strictly be of P Trap (long type) with min. 50 mm seal.
7. The slope of the pipes laid under toilet floor shall be in between 1 in 10 to 1 in 40.
8. The slope of toilet floors towards the floor trap shall be 1 in 60 (minimum).
9. The slope of terrace from ridge line towards rainwater pipes shall be 1 in 100 to 1 in 125.
10. All hot water pipes on terrace / duct shall be insulated by nitrile rubber, the thickness of insulation will be :-
    a) For 15 & 20 mm dia. pipe - 9 mm thick
    b) For 25, 32 & 40 mm dia. pipe - 13 mm thick
    c) For 50 mm & above dia. pipe - 19 mm thick
    For terrace installation the nitrile rubber insulation will be protected by polythene mechanical protection.
11. 50 m.m. dia. G.I. spout / PVC pipe shall be provided for each open staircase / mumtyloors.
12. Soil / waste / rain water pipe in basement / slab shall be suspended from ceiling through G.I. hangers.
13. All Plumbing Pipes inside shafts have to be supported at not more than 1.5 M. C/C. All pipes should be clamped on the G.I. Slotted Angle (40 x 40 x 3 MM) by G.I. "U" Strap Clamp. The individual pipe may be supported by G.I. rubber lined bolt clamps.
14. All men's shall be floor mounted type and the model should be so selected, that the S trap outlet centre should be 200 - 300 mm from back wall. (unless specifically specified)
15. The mounting height of different appliances / taps shall be as under

a) Wall mixture (for bathing)	1050 m.m.
b) Shower	2050 m.m. / or as specified
c) Kitchen top mixture	Table top / 1050 m.m.
d) Angle valve	
i) For toilet pan/wc	1550 m.m. / or as per site
ii) For kitchen pan/wc	2000 m.m. / or as per site
iii) For washing machine	600 m.m.
iv) For water purifier	1050 m.m.
v) For health spray (for W.C.)	300 m.m.
vi) For urinals (for U.C.)	300 m.m.
vii) For wash basin	500 m.m.
e) For wash basin (top of rim)	800 - 850 m.m.

Note :-
1. It Shall be ensured that the Ground / Lower floor Sanitary fixtures should be connected into Basement header at not less than minimum 2.5 meter distance from vertical connection.
2. It Shall be ensured that the Ground / lower floor Sanitary fixtures should not be connected into vertical pipes.





LEGEND : (Plumbing)

S. No.	SYMBOL	DESCRIPTION
1.		100Ø UPVC SOIL AND VENT PIPE
2.		110Ø UPVC WASTE AND VENT PIPE
3.		110Ø UPVC RAIN WATER / BALCONY DRAIN PIPE
4.		75Ø UPVC PVC / CORRIDOR / BALCONY DRAIN PIPE
5.		DOMESTIC WATER SUPPLY DROP FROM A TANK TO TOILET / KITCHEN FOR ALL FLOOR EXCEPT TOP TWO FLOOR
6.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR TOP TWO FLOOR ONLY
7.		HOT WATER SUPPLY PIPE (FROM SOLAR SYSTEM)
8.		RECYCLED WATER SUPPLY DROP FROM O.H.T. TO W.C.
9.		GEYSER
10.		WASHING MACHINE
11.		WATER PURIFIER
12.		HEALTH SPRAY WITH ANGLE VALVE
13.		MIXTURE & SHOWER
14.		COLD WATER SUPPLY PIPE (CWS)
15.		HOT WATER SUPPLY PIPE (HWS)
16.		SOLAR HOT WATER SUPPLY PIPE (SWS)
17.		RECYCLED WATER SUPPLY PIPE (RWS)
18.		ISOLATING VALVE
19.		DRAIN POINT
20.		MULTI FLOOR TRAP - 4" deep (54 mm seal)
21.		S TRAP (110 X 110 MM) (50 mm seal)
22.		P TRAP (110 X 110 MM) - long type (50 mm seal)
23.		EUROPEAN W. C.
24.		COUNTER WASHBASIN
25.		SINK WITH DRAINBOARD

rev. no.	date	revision
01	16/10/2016	BALCONY & TERRACE RAIN WATER PIPES SEPARATE .

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
PLUMBING DRAWING (BLOCK - D2)

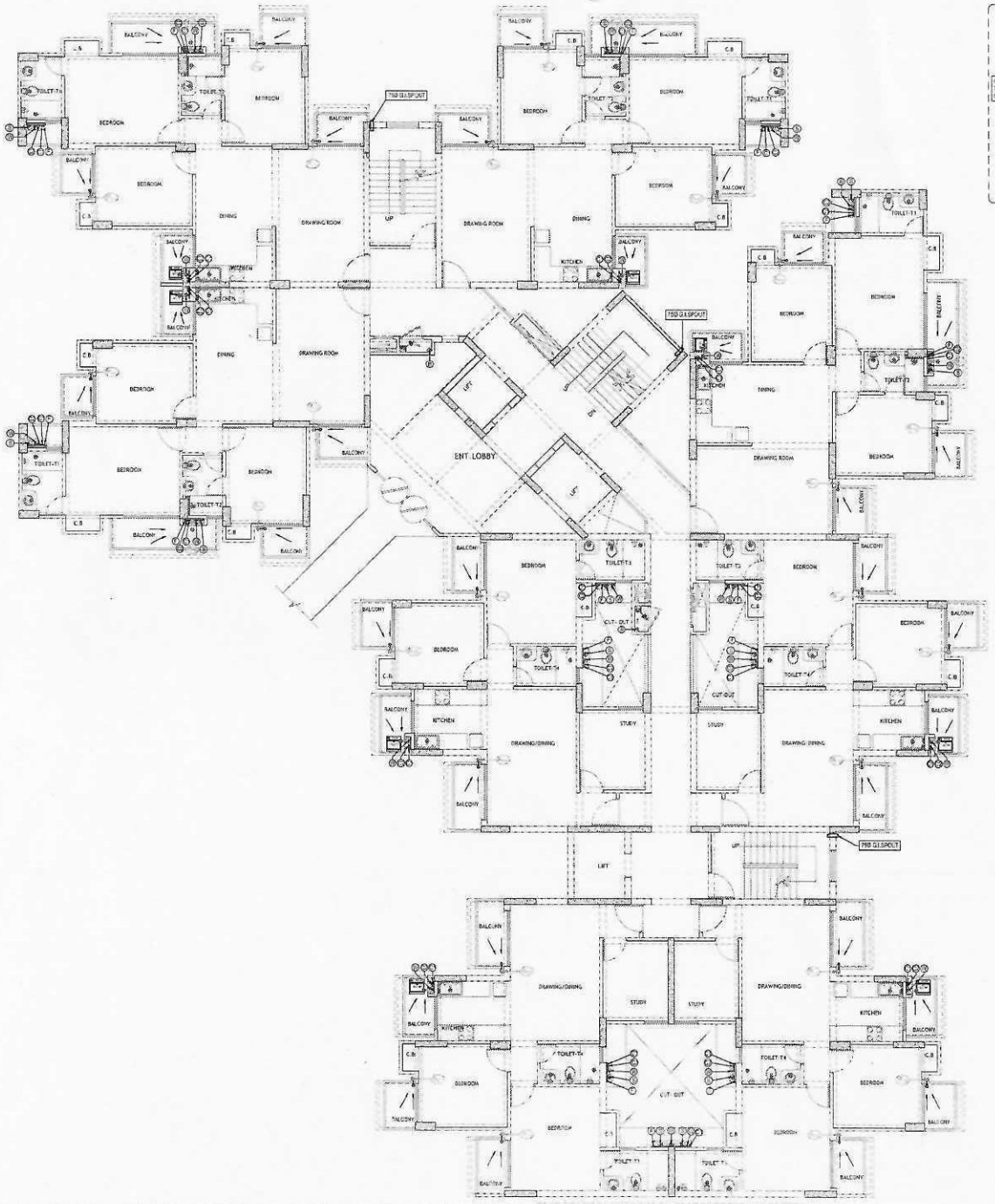
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GROUND FLOOR PLAN - PART 1(2B+G+14)

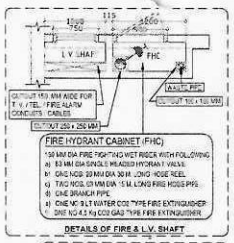
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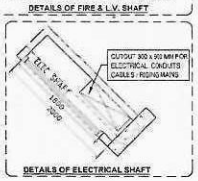
drg. no.	SAVIOUR / BLOCK - D2 (PART- 1) P- 02
scale	1 : 75
date	October - 016
drawn by	SOM
ckd by	Sanjay Goel
approved by	Anand Marwaha

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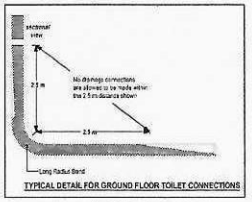




NOTES : (Plumbing)

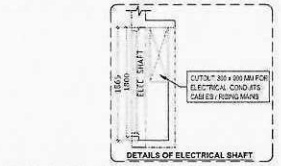
1. SOLID WATER SUPPLY PIPE MATERIAL
   a) FOR INSIDE TOILET — CPVC (SCH-11) WITH SOLVENT CEMENT JOINTS
   b) FOR DUCT / TERRACE — UPVC SCH-80 PIPES WITH SCH-80 FITTINGS BY SOLVENT CEMENT JOINT
2. HOT WATER SUPPLY PIPE MATERIAL
   a) FOR INSIDE TOILET — CPVC (SCH-11) WITH SOLVENT CEMENT JOINTS
   b) FOR DUCT / TERRACE — CPVC (SCH-11) WITH SOLVENT CEMENT JOINTS
3. THE WATER SUPPLY PIPE DIAMETER MENTION ON THE DRAWING IS NOMINAL BORE / ID
4. SOIL / WASTE / VENT / RAIN WATER PIPE MATERIAL
   a) UPTO 160 MM DIA PIPE (TOILET FLOOR) — UPVC (5 KG/SQ CM) AS PER IS : 4985 (SUITABLE FOR SOLVENT CEMENT JOINT)
   b) 75/90/110/160 MM DIA PIPE (VERTICAL PIPE IN SHAFT) — UPVC (TYPE B) AS PER IS : 13076 & IS : 14735 (SUITABLE FOR RUBBER RING JOINT)
5. THE SLOPE OF THE PIPES LAID UNDER TOILET FLOOR SHALL BE IN BETWEEN 1 IN 10 TO 1 IN 40
6. THE SLOPE OF TOILET FLOORS TOWARDS THE FLOOR TRAP SHALL BE 1 IN 40 (MINIMUM)
7. THE SLOPE OF TERRACE FROM RIDGE LINE TOWARDS RAIN WATER PIPES SHALL BE 1 IN 125
8. ALL HOT WATER PIPES ON TERRACE / DUCT SHALL BE INSULATED BY - 50 MM ROCK WOOL OF 64 KG/CUM DENSITY, COVERED WITH 26 SWG ALUMINUM CLADDING. (EXPOSED WORK ON TERRACE / DUCT)
9. ALL EWCS SHALL BE FLOOR MOUNTED TYPE AND THE MODEL SHOULD BE SO SELECTED THAT THE S TRAP OUTLET CENTRE SHOULD BE 250 - 300 MM FROM BACK WALL. (UNLESS SPECIFICALLY SPECIFIED)
10. THE MOUNTING HEIGHT OF DIFFERENT APPLIANCES / TAPS SHALL BE AS UNDER

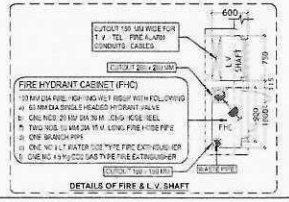
a. WALL MIXTURE (FOR BATHING)	1000 MM.
b) SHOWER	2000 M.M. OR AS SPECIFIED
c) KITCHEN TAP / MIXTURE	TABLE TOP (1050 M.M.
d) ANGLE VALVE	
i) FOR TOILET GEYSER	1500 MM (FOR AS PER SITE
ii) FOR KITCHEN GEYSER	2000 M.M. OR AS PER SITE
iii) FOR WASHING MACHINE	1150 MM.
iv) FOR WATER PURIFIER	1100 MM.
v) HEALTH SPRAY (FOR W.C.)	410 M.M.
vi) FOR WASH BASIN	570 M.M.
e. FOR WASH BASIN TOP OF RIM	850 MM.



TYPICAL DETAIL FOR GROUND FLOOR TOILET CONNECTIONS

Note :
1. It Shall be ensured that the Ground / Lower floor Sanitary fixtures should be connected into Basement header at not less than minimum 2.5 meter distance from vertical connection.
2. It Shall be ensured that the Ground / lower floor Sanitary fixtures should not be connected into vertical pipes.





LEGEND : (Plumbing)

S. No.	SYMBOL	DESCRIPTION
1.	SV	100Ø PVC SOIL AND VENT PIPE
2.	SV	110Ø PVC WASTE AND VENT PIPE
3.		110Ø PVC RAIN WATER / BALCONY DRAIN PIPE
4.		75Ø PVC RAIN WATER / BALCONY DRAIN PIPE
5.	W	75Ø PVC P.H.C. / CORRIDOR WASTE PIPE
6.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR ALL FLOOR EXCEPT TOP TWO FLOOR
7.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR TOP TWO FLOOR ONLY
8.		HOT WATER SUPPLY PIPE (FROM SOLAR SYSTEM)
9.		RECYCLED WATER SUPPLY DROP FROM O.H.T. TO W.C.
10.		GEYSER
11.		WASHING MACHINE
12.		WATER PURIFIER
13.	H.S.	HEALTH SPRAY WITH ANGLE VALVE
14.		TAP
15.		MIXTURE & SHOWER
16.	CWS	COLD WATER SUPPLY PIPE (CWS)
17.	HWS	HOT WATER SUPPLY PIPE (HWS)
18.	SHWS	SOLAR HOT WATER SUPPLY PIPE (SHS)
19.	RWS	RECYCLED WATER SUPPLY PIPE (RWS)
20.		ISOLATING VALVE
21.	DP	DRAIN POINT
22.	PFT	PLAIN FLOOR TRAP
23.	MFT	MULTI FLOOR TRAP
24.	P	P TRAP
25.		EUROPEAN W. C.
26.		ORISSA PAN W. C.
27.		FLAT BACK WASH BASIN
28.		COUNTER WASH BASIN
29.		SINK WITH DOUBLE BOWL

rev. no.	date	revision
R - 1	26/11/2016	SEPARATE RAIN WATER PIPE ADDED IN MASTER BED ROOM BALCONY.

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
PLUMBING DRAWING (BLOCK - D1)

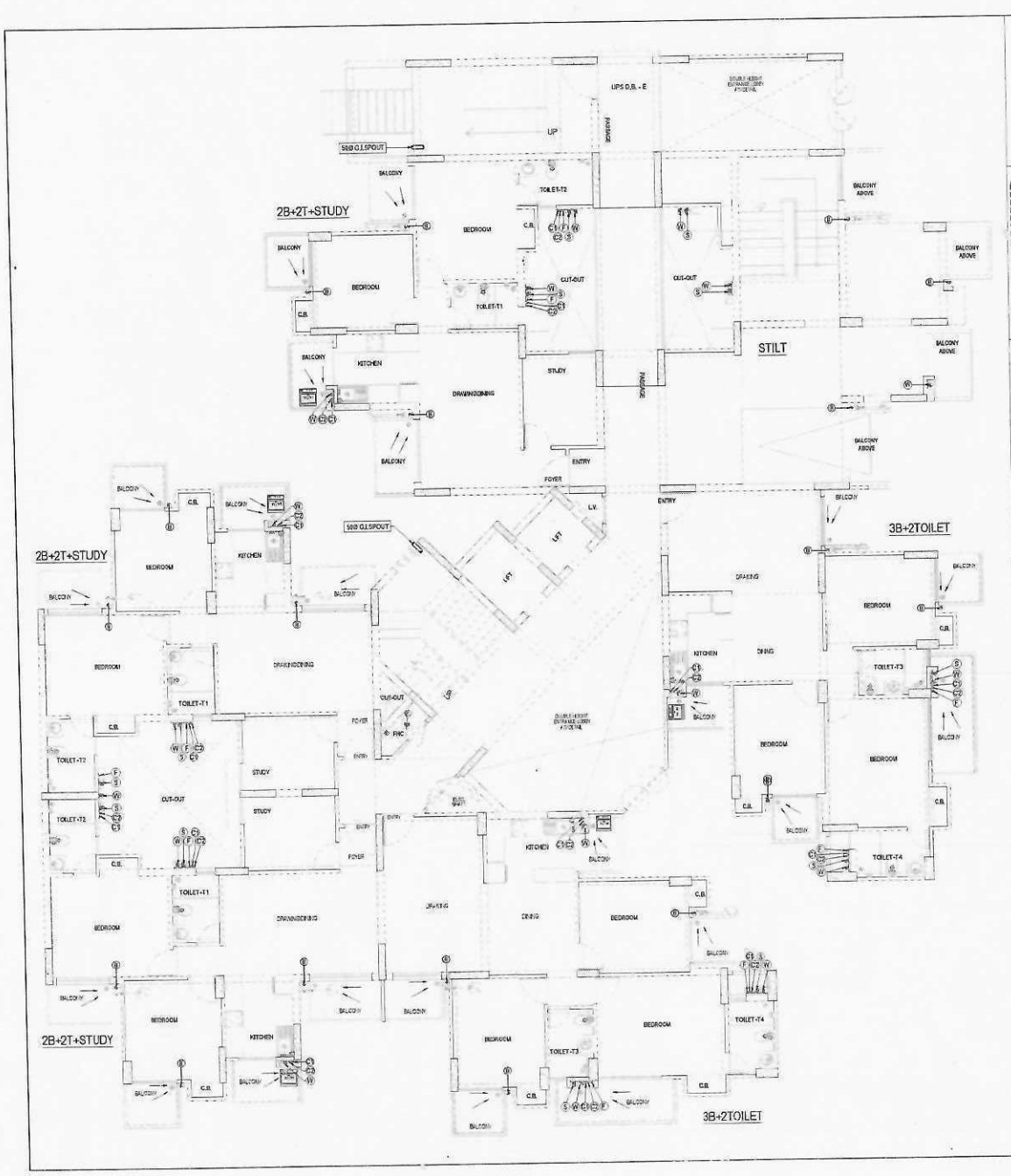
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GROUND FLOOR - PART 1(2B+G+14)

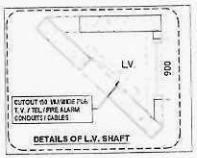
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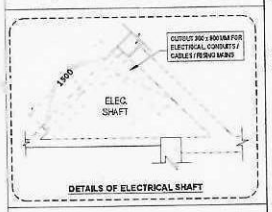
drg. no.	SAVIOUR / BL - D1 / P - 02
scale	1 : 85
date	November 2013
drawn by	Baldev
ckd. by	Sanjay Goel
approved by	Anand Havelia

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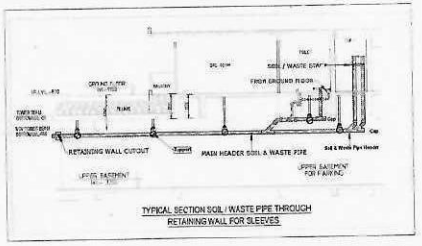




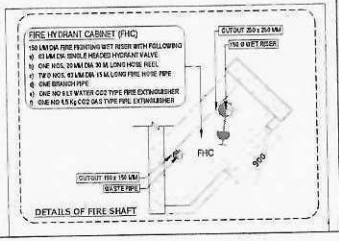
NOTES : (Plumbing)

1. COLD WATER SUPPLY PIPE MATERIAL
   a) For inside toilet (concealed) - UPVC (SCH-11) with solvent cement joints
   b) For inside toilet (exposed) - UPVC SCH 40 Pipes With SCH 80 fittings by solvent cement joint
   c) For duct / terrace - UPVC SCH 80 Pipes With SCH 80 fittings by solvent cement joint
   d) For basement/ring main - G. I. (CLASS B) by bitten tape
   e) For over to till OHT - G. I (CLASS B) by bitten tape
   f) From OHT to terrace & bl. - G. I (CLASS B) by bitten tape
2. Hot water supply pipe material
   a) For inside toilet - CPVC (SCH-11) with solvent cement joints
   b) For duct / terrace - CPVC (SCH-11) with solvent cement joints
3. The water supply pipe diameter mention on the drawing is nominal bore ND.
4. Soil / waste / vent / rain water pipe material
   a) Upto 65 mm dia pipe (toilet floor) - UPVC (6 KG/SQ.CM.) as per IS : 4985 (suitable for solvent cement joint)
   b) 75/ 90/ 110/ 160 mm dia pipe (vertical pipe in shaft) - UPVC (TYPE B) (SWR grade) as per IS : 13592 & IS : 14735 (suitable for rubber ring joint)
   c) 75 / 110 mm dia pipe (under toilet floor) - UPVC (TYPE B) (SWR grade) as per IS:13592 & IS:14735 (suitable for solvent cement joint)
5. All lowest floor sanitary fixtures (below which the vertical Soil / waste pipe is turning horizontally) can only be connected into vertical / horizontal Soil / Waste Pipe only after min. 2.5 M. distance.
6. All the floor traps which are directly connected to pipe and manhole shall strictly be of P Trap (bottle type) with min. 50 mm seal.
7. The slope of the pipes laid under toilet floor shall be in between 1 in 12 to 1 in 40.
8. The slope of toilet floors towards the floor trap shall be 1 in 40 (minimum).
9. The slope of terrace from ridge line base of rain water pipes shall be 1 in 100 to 1 in 125.
10. All hot water pipes on terrace / duct shall be insulated by nitrile rubber, the thickness of insulation will be :-
    a) For 15 & 20 mm dia. pipe - 9 mm thick
    b) For 25, 32 & 40 mm dia. pipe - 13 mm thick
    c) For 50 mm & above dia. pipe - 19 mm thick
    For terrace installation the nitrile rubber insulation will be protected by polysheet mechanical protection.
11. 50 mm. dia. G.I. spout / PVC pipe shall be provided for each open staircase / verandahs.
12. Soil / waste / rain water pipes in basement / stilt shall be supported from ceiling through G.I. hangers.
13. All Plumbing Pipes inside shafts have to be supported at not more than 1.5 Mt. C/C. All pipes should be clamped on the G.I. Slotted Angle (40 x 40 x 3 MM) by G.I. "U" Strap Clamps. The individual pipe runs be supported by G.I. rubber lined split clamps.
14. All seats shall be floor mounted type and the model should be so selected, that the S trap outlet centre should be 250 - 300 mm from back wall, (unless specifically specified)
15. The mounting height of different appliances / fixture shall be as under
    a) Wall mixture (for bathing) - 1050 m.m.
    b) Shower - 2050 m.m. / or as specified
    c) Kitchen top / mixture - Table top (1050 m.m.
    d) Angle valve
    i) For toilet geyser - 1550 m.m. / or as per site
    ii) For kitchen geyser - 2000 m.m. / or as per site
    iii) For washing machine - 600 m.m.
    iv) For water purifier - 1050 m.m.
    v) For health spray (for W.C.) - 300 m.m.
    vi) For cistern (for W.C.) - 750 m.m.
    vii) For wash basin - 530 m.m.
    e) For wash basin (top of rim) - 800 - 850 m.m.

Note :-
1. It Shall be ensured that the Ground / Lower floor Sanitary fixtures should be connected into Basement header at not less than minimum 2.5 meter distance from vertical connection.
2. It Shall be ensured that the Ground / lower floor Sanitary fixtures should not be connected into vertical pipes.



TYPICAL SECTION SOIL / WASTE PIPE THROUGH RETAINING WALL FOR SLEEVES



LEGEND : (Plumbing)

S. No.	SYMBOL	DESCRIPTION
1.		100Ø UPVC SOIL AND VENT PIPE
2.		110Ø UPVC WASTE AND VENT PIPE
3.		110Ø UPVC RAIN WATER / BALCONY DRAIN PIPE
4.		75Ø UPVC P.H.C. / CORRUGATED / BALCONY DRAIN PIPE
5.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR ALL FLOOR EXCEPT TOP TWO FLOOR.
6.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR TOP TWO FLOOR ONLY.
7.		HOT WATER SUPPLY PIPE (FROM SOLAR SYSTEM)
8.		RECYCLED WATER SUPPLY DROP FROM O.H.T. TO W.C.
9.		GEYSER
10.		WASHING MACHINE
11.		WATER PURIFIER
12.		HEALTH SPRAY WITH ANGLE VALVE
13.		MIXTURE & SHOWER
14.		COLD WATER SUPPLY PIPE (CWS)
15.		HOT WATER SUPPLY PIPE (HWS)
16.		SOLAR HOT WATER SUPPLY PIPE (SHWS)
17.		RECYCLED WATER SUPPLY PIPE (RWS)
18.		ISOLATING VALVE
19.		DRAIN POINT
20.		MULTI FLOOR TRAP - 6" deep (150 mm seal)
21.		S TRAP (110 X 110 MM) (50 mm seal)
22.		P TRAP (110 X 110 MM) - long type (50 mm seal)
23.		EUROPEAN W. C.
24.		COUNTER WASH BASIN
25.		SINK WITH DRAIN BOARD

rev. no.	date	revision
R1	16/10/2018	BALCONY & TERRACE RAIN WATER PIPES SEPARATE .

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
PLUMBING DRAWING (BLOCK - D2)

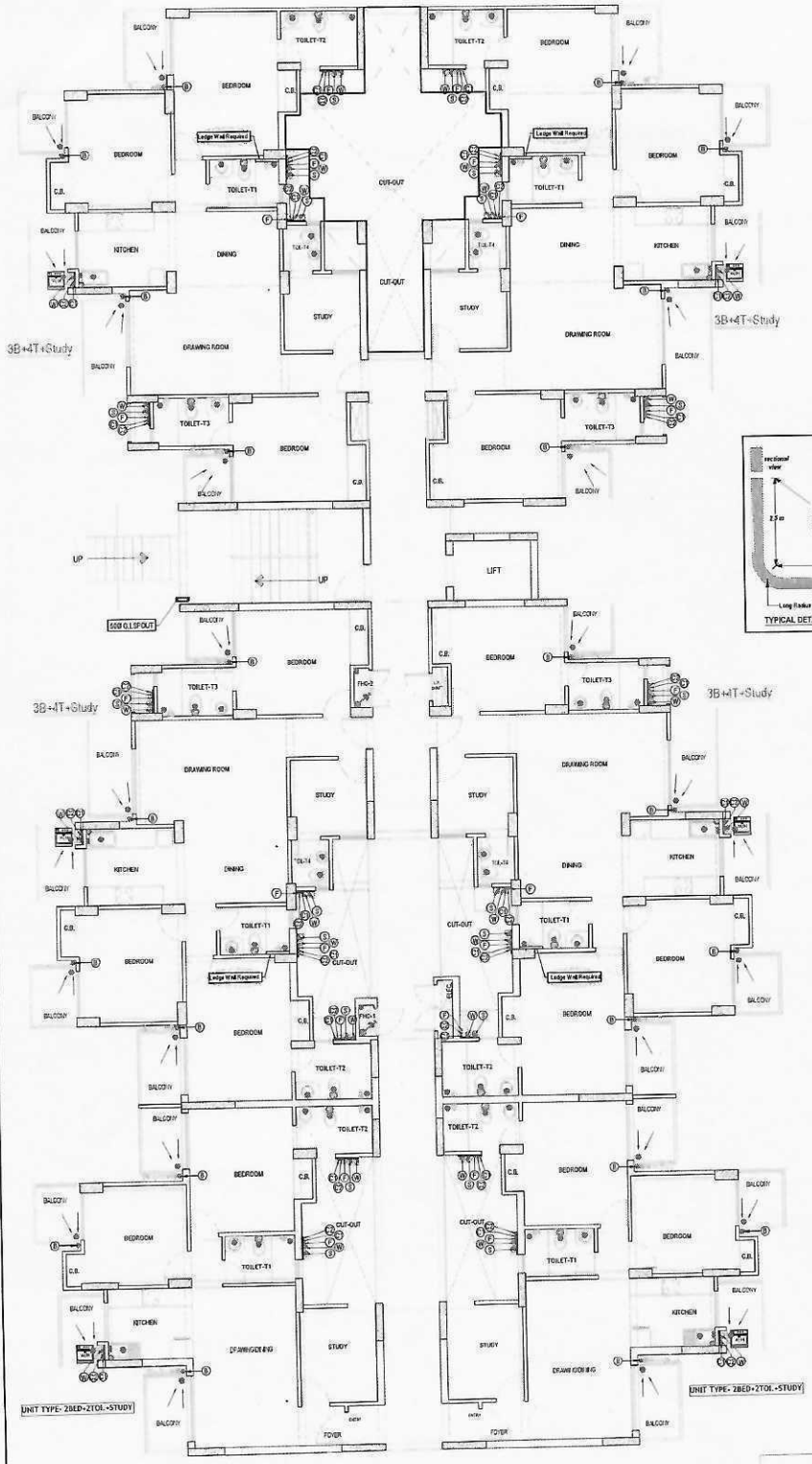
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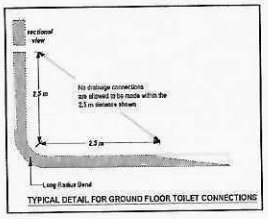
drawing released for
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drg. no.	SAVIOUR / BLOCK - D2 (PART-1) / P- 02
scale	1 : 70
date	October - 018
drawn by	SOM
ckd by	Sanjay Goel
approved by	Anand Hawela

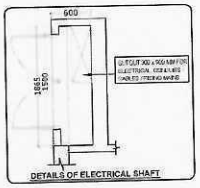
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TYPICAL DETAIL FOR GROUND FLOOR TOILET CONNECTIONS



DETAILS OF ELECTRICAL SHAFT

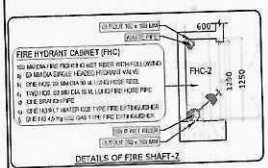
NOTES : (Plumbing)

1. COLD WATER SUPPLY PIPE MATERIAL
   a) For inside toilet (domestic) - CPVC (SDR-11) with solvent cement joints
   b) For inside toilet (recycle) - UPVC SCH 40 Pipes With SCH 80 fittings by solvent cement joint
   c) For duct / terrace - UPVC SCH 80 Pipes With SCH 80 fittings by solvent cement joint
   d) For basement/cong main - G. I. (CLASS B) by teflon tape
   e) For risers till GHT - G. I. (CLASS B) by teflon tape
   f) From GHT to terrace bd. - G. I. (CLASS B) by teflon tape
2. Hot water supply pipe material
   a) For inside toilet - CPVC (SDR-11) with solvent cement joints
   b) For duct / terrace - CPVC (SDR-11) with solvent cement joints
3. The water supply pipe diameter mention on the drawing is nominal bore (ID).
4. Soil / waste / vent / rain water pipe material
   a) Upto 85 mm dia pipe (toilet floor) - UPVC (6 KG/SQ.CM.) as per IS : 4985 (suitable for solvent cement joint)
   b) 75/ 80/ 110/ 160 mm diapipe (vertical pipe in shaft) - UPVC (TYPE B) (SWR grade) as per IS : 13592 & IS : 14735 (suitable for rubber ring joint)
   c) 75 / 110 mm dia pipe (under toilet floor) - UPVC (TYPE B) (SWR grade) as per IS 13592 & IS 14735 (suitable for solvent cement joint)
5. All lowest floor sanitary fixture (below which the vertical Soil / Waste pipe is turning horizontally) can only be connected into vertical / horizontal Soil / Waste Pipe only after min. 2.5 M. distance.
6. All the floor traps which are directly connected to pipe and manhole shall strictly be of P Trap (trap type) with min. 50 mm m.d.
7. The slope of the pipes laid under toilet floor shall be as between 1 in 10 to 1 in 40.
8. The slope of toilet floors towards the floor trap shall be 1 in 40 (minimum).
9. The slope of terrace from slope line towards rain water pipes shall be 1 in 100 to 1 in 125.
10. All hot water pipes on terrace / duct shall be insulated by shikle rubber, the thickness of insulation will be :-
    a) For 15 & 20 mm dia. pipe - 9 mm thick
    b) For 25, 32 & 40 mm dia. pipe - 13 mm thick
    c) For 50 mm & above dia. pipe - 19 mm thick
    For terrace insulation the shikle rubber insulation will be protected by polythlene mechanical protection.
11. 50 mm. dia. G. I. spoil / PVC pipe shall be provided for each open staircase / mid landings.
12. Soil / waste / rain water pipe in basement / stilt shall be suspended from ceiling through G. I. hangers.
13. All Plumbing Pipes inside shafts have to be supported at not more than 1.5 M. C/C. All pipes should be clamped on the G.I. Slotted Angle (40 x 40 x 3 MM) by G.I. "U" Shaped Clamps. The individual pipe may be supported by G.I. rubber lined split clamp.
14. All wash shallow floor mounted type and the model should be so selected, that the S trap outlet centre should be 250 - 300 mm from back wall, (unless specific otherwise specified)
15. The mounting height of different appliances / taps shall be as under
    a) Wall mixture (for bathing) - 1050 m.m.
    b) Shower - 2050 m.m. / or as specified
    c) Kitchen tap / mixture - Table top / 1050 m.m.
    d) Angle valve
       i) For toilet geyser - 1550 m.m. / or as per site
       ii) For kitchen geyser - 2000 m.m. / or as per site
       iii) For washing machine - 950 m.m.
    e) For water purifier - 1050 m.m.
    f) For health spray (for W.C.) - 300 m.m.
    g) For sowers (for W.C.) - 300 m.m.
    h) For wash basin - 900 m.m.
    i) For wash basin (top of ms) - 800 - 850 m.m.

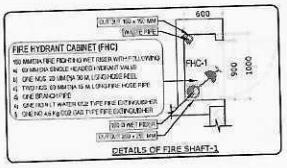
LEGEND : (Plumbing)

S.No.	SYMBOL	DESCRIPTION
1.		160Ø UPVC SOIL AND VENT PIPE
2.		110Ø UPVC WASTE AND VENT PIPE
3.		110Ø UPVC RAIN WATER / BALCONY DRAIN PIPE
4.		75Ø UPVC FAIC. / CORRIDOR / BALCONY DRAIN PIPE
5.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR ALL FLOOR EXCEPT TOP TWO FLOOR
6.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR TOP TWO FLOOR ONLY
7.		HOT WATER SUPPLY PIPE (FROM SOLAR SYSTEM)
8.		RECYCLED WATER SUPPLY DROP FROM G.H.T. TO W.C.
9.		GEYSER
10.		WASHING MACHINE
11.		WATER PURIFIER
12.		HEALTH SPRAY WITH ANGLE VALVE
13.		MIXTURE & SHOWER
14.		COLD WATER SUPPLY PIPE (CWS)
15.		HOT WATER SUPPLY PIPE (HWS)
16.		SOLAR HOT WATER SUPPLY PIPE (SWS)
17.		RECYCLED WATER SUPPLY PIPE (RWS)
18.		ISOLATING VALVE
19.		DRAIN POINT
20.		MULTI FLOOR TRAP - 6" deep (50 mm seal)
21.		S TRAP (110 X 110 MM) (50 mm seal)
22.		P TRAP (110 X 110 MM) - long tape (50 mm seal)
23.		EUROPEAN W. C.
24.		COUNTER WASH BASIN
25.		SINK WITH DRAIN BOARD

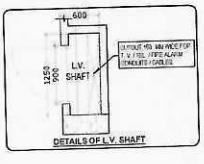
rev. no.	date	revision
R - 1	10/10/2016	BALCONY & TERRACE RAIN WATER PIPES SEPARATE .



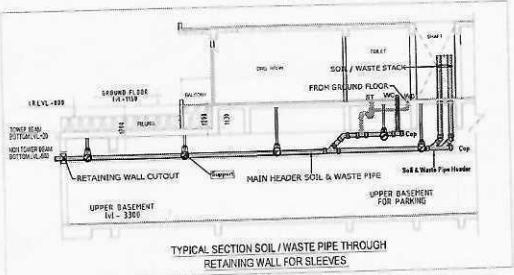
DETAILS OF FIRE SHAFT-2



DETAILS OF FIRE SHAFT-1



DETAILS OF L.V. SHAFT



TYPICAL SECTION SOIL / WASTE PIPE THROUGH RETAINING WALL FOR SLEEVES

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
PLUMBING DRAWING-BLOCK - D2 (PART- 2)

subtitle
GROUND FLOOR - PART 2 (2B+G+14)

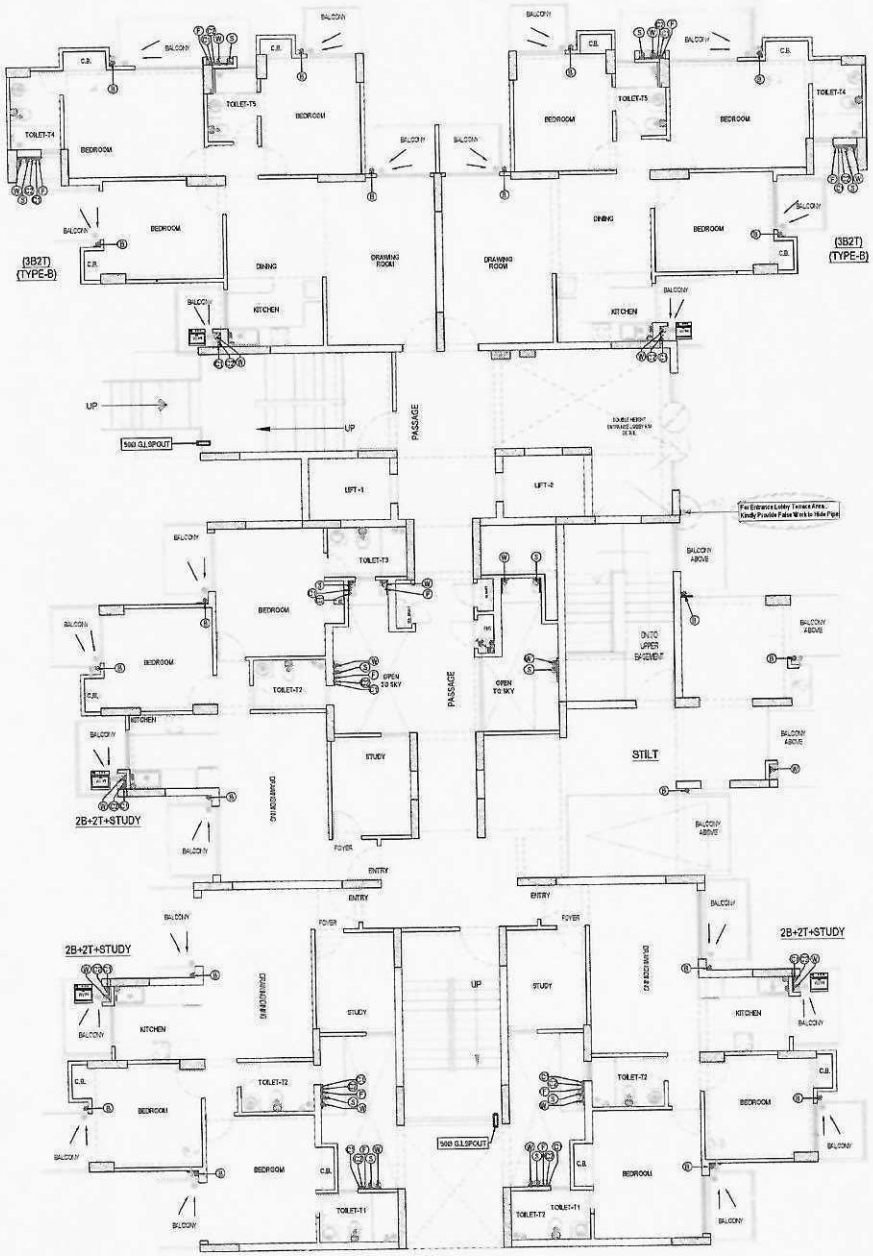
drawing released for
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- ☒ CONSTRUCTION

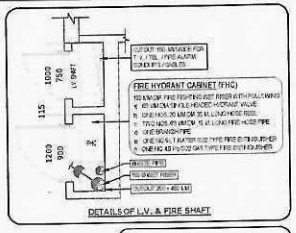
drg. no. SAVIOUR / BLOCK - D2 (PART- 2) / P - 02
scale 1 : 75
date November - 2016

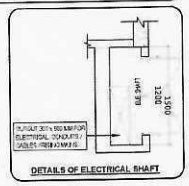
drawn by Amit
designed by Sanjay Goel
checked by Anand Havelia

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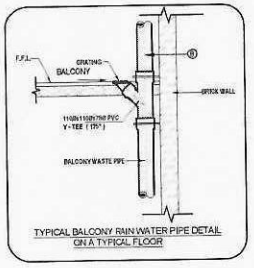
NOTES : (Plumbing)

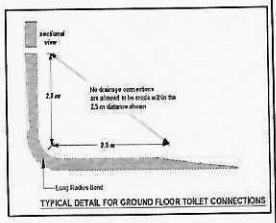
1. COLD WATER SUPPLY PIPE (A.T.S.R.)
   a) For inside toilet (concrete) - CPVC (SDR-11) with solvent cement joints
   b) For inside toilet (recycle) - UPVC SCH 80 Pipes With SCH 80 fittings by solvent cement joint
   c) For duct / terrace - UPVC SCH 80 Pipes With SCH 80 fittings by solvent cement joint
   d) For basement ring main - G. I. (CLASS B) by teflon tape
   e) For riser to FB OHT - G. I. (CLASS B) by teflon tape
   f) From OHT to terrace bf. - G. I. (CLASS B) by teflon tape
2. Hot water supply pipe material
   a) For inside toilet - CPVC (SDR-11) with solvent cement joints
   b) For duct / terrace - CPVC (SDR-11) with solvent cement joints
3. The water supply pipe diameter mention on the drawing is nominal bore (ID).
4. Soil / waste / vent / rain water pipe material
   a) Upto 65 mm dia pipe (toilet floor) - UPVC (4 KG/SQ.CM.) as per IS : 4985 (suitable for solvent cement joint)
   b) 75/ 90/ 110/ 160 mm dia pipe (vertical pipe in shaft) - UPVC (TYPE B) (SWR grade) as per IS : 13592 & IS : 14735 (suitable for rubber ring joint)
   c) 75 / 110 mm dia pipe (under toilet floor) - UPVC (TYPE B) (SWR grade) as per IS 13592 & IS: 14735 (suitable for solvent cement joint)
5. All floors floor sanitary fixtures (below which the vertical Soil / Waste pipe is turning horizontally) are only be connected non-vertical / horizontal Soil / Waste Pipe only after min. 3.5 mt. distance.
6. All the floor traps which are directly connected to pipe and manhole shall strictly be of P Trap (long type) with min. 50 mm seal.
7. The slope of the pipes laid under toilet floor shall be in between 1 in 10 to 1 in 40.
8. The slope of toilet floors towards the floor trap shall be 1 in 40 (minimum).
9. The slope of terrace / sun edge line / openers rain water pipes shall be 1 in 100 to 1 in 125.
10. All hot water pipes on terrace / duct shall be insulated by nitrile rubber, the thickness of insulation will be :-
    a) For 15 & 20 mm dia. pipe - 9 mm thick
    b) For 25, 32 & 40 mm dia. pipe - 13 mm thick
    c) For 50 mm & above dia. pipe - 19 mm thick
    For terrace not without the nitrile rubber insulation will be protected by poly-shield mechanical protection.
11. 500 G.I. Spout shall be provided for each open staircase / mid-landings.
12. Soil / waste / rain water pipe in basement / sill shall be suspended from ceiling through G. I. hangers.
13. All taps shall be flow mounted type and the model should be so selected, that the G trap outlet centre should be 250 - 300 mm from back wall, (unless specifically specified)
14. The mounting height of different appliances / fixes shall be as under

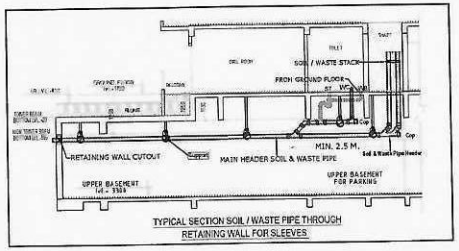
a) Wall mixture (for bathing)	1050 m.m.
b) Shower	2050 m.m. / as so specified
c) Kitchen mixture	Table top (1050 m.m.
d) Angle valve	
i) For toilet geyser	1050 m.m. / as so per site
ii) For kitchen geyser	2200 m.m. / as so per site
iii) For washing machine	850 m.m.
iv) For water purifier	1050 m.m.
v) For health spray (for W.C.)	300 m.m.
vi) For cistern (for W.C.)	300 m.m.
vii) For warm basin	500 m.m.
e) For wash basin (top of rim)	800 - 850 m.m.

LEGEND : (Plumbing)

S. No.	SYMBOL	DESCRIPTION
1.		160Ø PVC SOIL AND VENT PIPE
2.		110Ø PVC WASTE AND VENT PIPE
3.		110Ø UPVC RAIN WATER PIPE
4.		75Ø UPVC FOR LIFT / CORRIDOR / BALCONY DRAIN PIPE
5.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR ALL FLOOR EXCEPT TOP TWO FLOOR
6.		DOMESTIC WATER SUPPLY DROP FROM TANK TO TOILET / KITCHEN FOR TOP TWO FLOOR ONLY
7.		HOT WATER SUPPLY PIPE (FROM SOLAR SYSTEM)
8.		RECYCLED WATER SUPPLY DROP FROM O.H.T. TO W.C.
9.		GEYSER
10.		WASHING MACHINE
11.		WATER PURIFIER
12.		HEALTH SPRAY WITH ANGLE VALVE
13.		TAP
14.		MIXTURE & SHOWER
15.		COLD WATER SUPPLY PIPE (CWS)
16.		HOT WATER SUPPLY PIPE (HWS)
17.		SOLAR HOT WATER SUPPLY PIPE (SHS)
18.		RECYCLED WATER SUPPLY PIPE (RWS)
19.		ISOLATING VALVE
20.		DRAIN POINT
21.		MULTI FLOOR TRAP - 6" deep (50 mm seal)
22.		P TRAP (100 X 150 MM) - long type (50 mm seal)
23.		EUROPEAN W. C.
24.		COUNTER WASH BASIN
25.		SINK WITH DOUBLE BOWL







rev. no.	date	revision
R - 1	25/10/2016	RAIN WATER PIPE POSITION MODIFIED.

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
PLUMBING DRAWING (BLOCK - D3)

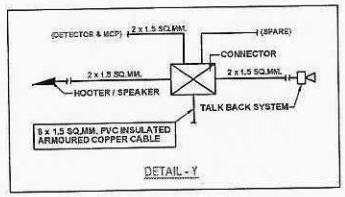
subtitle
GROUND FLOOR PLAN (2B+G+14)

drawing released for
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drg. no. SAVIOUR / BLOCK - D3 / P - 03	drawn by SDM
scale 1:75	designed by Sanjay Goel
date May - 2017	checked by Anand Hiralia

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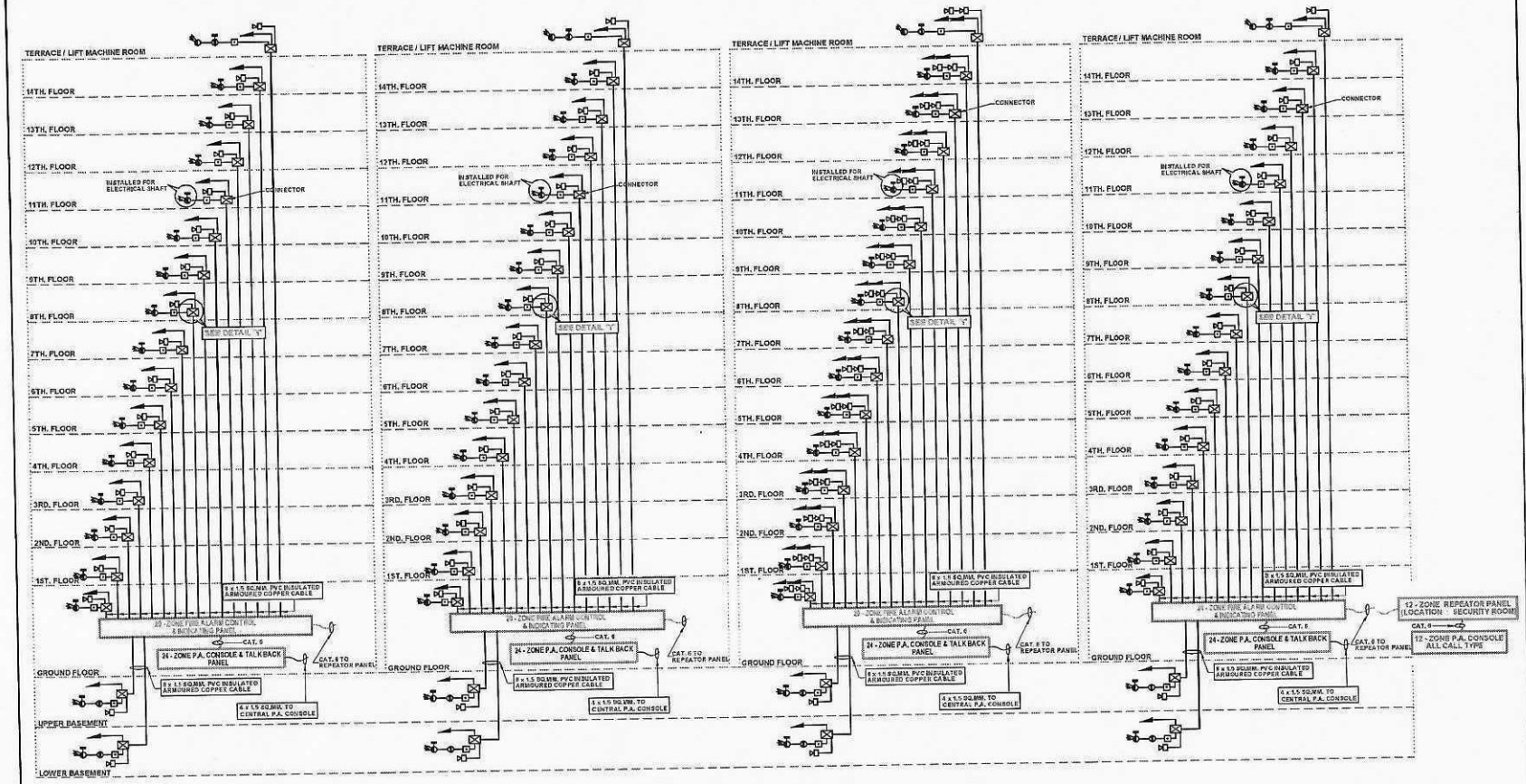
DETAIL - Y

BLOCK – D1 (2 Risers Typ.)

BLOCK – C1 (2 Risers Typ.)

BLOCK – B1 (2 Risers Typ.)

BLOCK – A1 & A2 (Typ.)



FIRE DETECTION & ALARM SYSTEM

LEGEND :-

S. No.	SYMBOL	DESCRIPTION	POSITION
1.		MANUAL CALL POINT (MCP)	1050
2.		HOOTER / SPEAKER	2250
3.		OPTICAL TYPE SMOKE DETECTOR (DIGITALLY ADDRESSED)	AT CEILING
4.		FIXED CUM RATE OF RISE OF TEMPERATURE TYPE HEAT DETECTOR (DIGITALLY ADDRESSED)	AT CEILING
5.		RESPONSE INDICATOR	2250
6.		TALK BACK UNITS	1050
7.		END OF LINE RESISTOR	
8.		CONNECTOR	

rev. no.	date	revision
-	-	-

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
FIRE DETECTION & ALARM SYSTEM

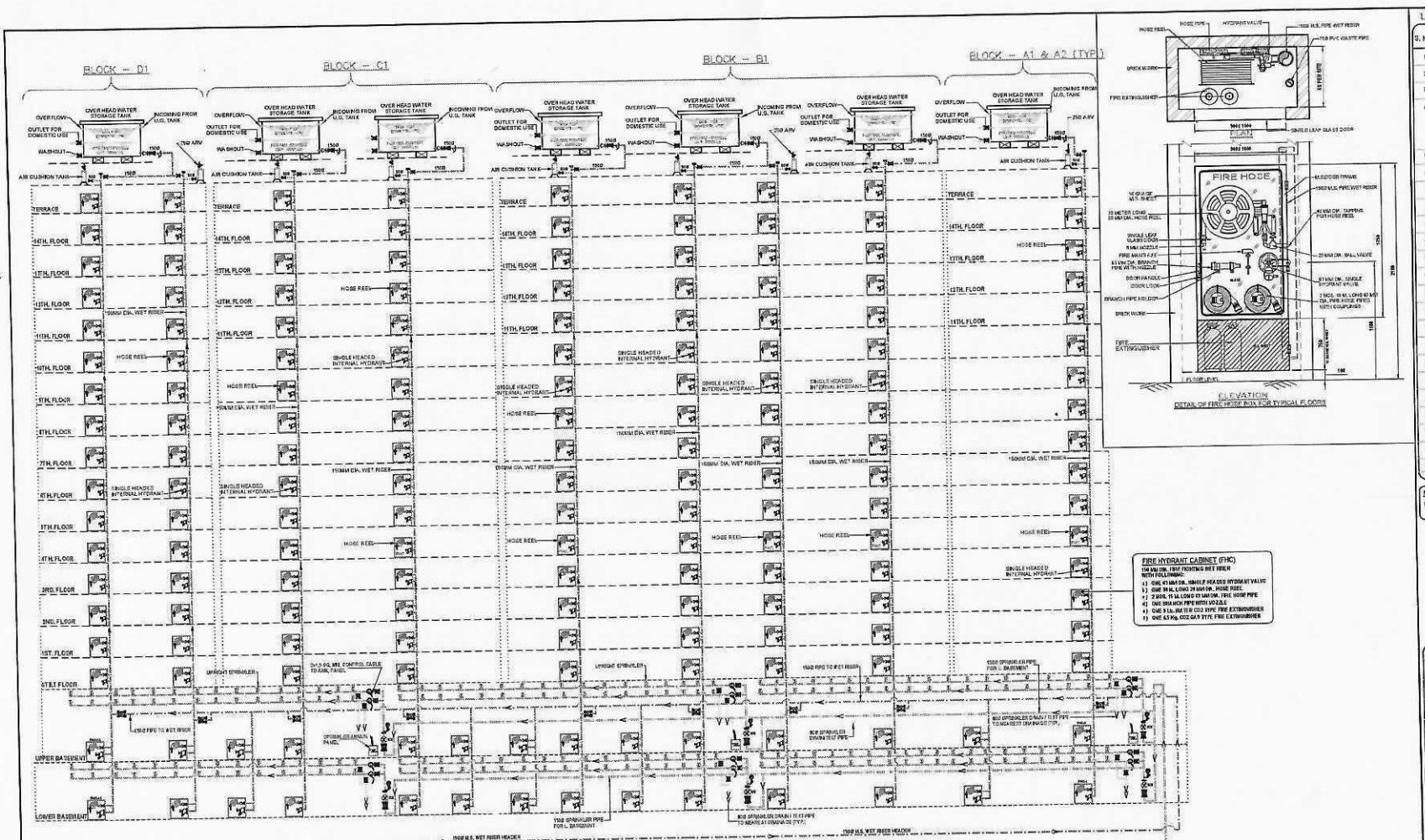
subtitle
SCHEMATIC DIAGRAM

drawing released for
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drg. no. SAVIOUR PRK/ SCH / FA - 01	drawn by Chandran
scale M.T.S.	designed by S. Goel
date January 2014	checked by Anand Havelia

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FIRE HYDRANT CABINET (FHC)
150 MM DIA. FIRE FIGHTING WET RISER WITH FOLLOWING:
a) ONE 41 MM DIA. SINGLE HEADED HYDRANT VALVE
b) ONE 30 M. LONG 20 MM DIA. HOSE REEL
c) 2 NOS. 15 M. LONG 63 MM DIA. FIRE HOSE PIPE
d) ONE 20 MM DIA. BRANCH PIPE WITH NOZZLE
e) ONE 9 LTR. WATER CO2 TYPE FIRE EXTINGUISHER
f) ONE 4.5 Kg. CO2 GAS TYPE FIRE EXTINGUISHER

DETAIL OF FIRE FIGHTING PUMPS

(D) DIESEL ENGINE DRIVEN STAND BY PUMP
DISCHARGE 2280 LITRE / MINUTE
HEAD 105 METER

(E) ELECTRIC MOTOR DRIVEN HYDRANT / SPRINKLER PUMP
DISCHARGE 2280 LITRE / MINUTE
HEAD 105 METER

(J) ELECTRIC MOTOR DRIVEN JOCKEY PUMP
DISCHARGE 180 LITRE / MINUTE
HEAD 105 METER

LEGEND :

S. NO.	SYMBOL	DESCRIPTION
1.		FIRE HYDRANT PIPE
2.		SPRINKLER PIPE
3.		SLUICE VALVE WITH MASONRY CHAMBER
4.	FHC	63 M.M. DIA. SINGLE HEADED HYDRANT WITH FOLLOWINGS :- a) 1 NO. 30 M LONG 20 M.M. DIA. HOSE REEL b) 2 NOS. 15 M. LONG 63 M.M. DIA. FIRE HOSE PIPE c) 1 NO. BRANCH PIPE WITH NOZZLE
5.	PS	PRESSURE SWITCH
6.	PG	PRESSURE GAUGE
7.	M	MOTOR
8.	D/E	DIESEL ENGINE
9.	BV	BUTTERFLY VALVE
10.	NRV	NON RETURN VALVE
11.	ARV	AIR RELEASE VALVE
12.		EXPANSION JOINT (BELLOW)
13.		FIRE BRIGADE CONNECTION
14.		'Y' TYPE STRAINER
15.		REDUCER
16.		SPRINKLER - UPRIGHT TYPE
17.		SPRINKLER ANNUNCIATION PANEL
18.		SPRINKLER DRAIN PIPE
19.		SPRINKLER HEADER FOR BASEMENT
20.		WET RISER PIPE
21.		FLOW SWITCH
22.	FCV	SPRINKLER INSTALLATION CONTROL VALVE
23.	PRV	PRESSURE REDUCING VALVE

Notes :-
1. Orifice plate shall be installed at all outlet (hydrant valve / sprinkler outlets etc.) to limit the pressure from 3.5 kg/cm2 to 7 kg/cm2.

rev. no.	date	revision
-	-	-

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
FIRE FIGHTING DRAWING

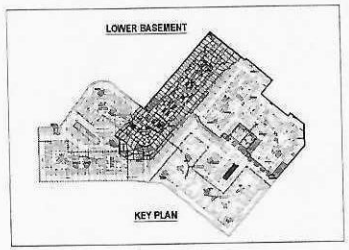
subtitle
SCHEMATIC DIAGRAM

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drg. no. SAVIOUR PRJ/SCH/FF - 01	drawn by Chandran
scale N.T.S.	designed by S.Goel
date January 2014	checked by Anand Havelia

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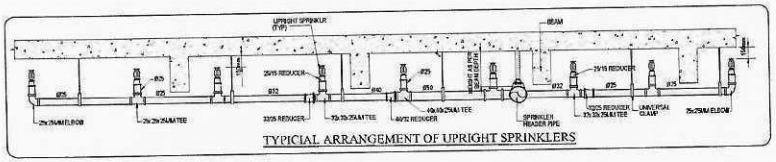


Rev-03
SPRINKLER SYSTEM
INCORPORTED FOR THIS AREA

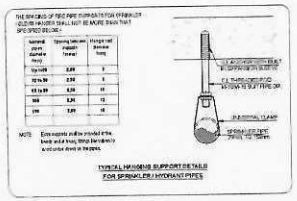
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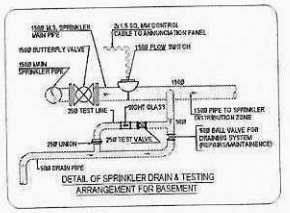
SECTION A-A (N.T.S.)

SECTION B-B (N.T.S.)



TYPICIAL ARRANGEMENT OF UPRIGHT SPRINKLERS


TYPICAL HANGERS SUPPORT DETAILS FOR SPRINKLER / HYDRANT PIPES



DETAIL OF SPRINKLER DRAIN & TESTING ARRANGEMENT FOR BASEMENT

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.		15 MM. DIA. UPRIGHT/PENDENT SPRINKLER
2.		15 MM. DIA. SIDEWALL SPRINKLER
3.		BRANCH PIPE LINE FOR SPRINKLER SYSTEM
4.		DISTRIBUTION PIPE FOR SPRINKLER SYSTEM
5.		MAIN PIPE LINE FOR WET RISER SYSTEM
6.		SPRINKLER HEADER TO INSTALLATION CONTROL VALVE
7.		SPRINKLER HEADER FROM I.C.V TO FLOW SWITCH
8.		SPRINKLER DRAIN / TEST PIPE
9.		FLOW SWITCH
10.	FHC	FIRE HOSE CABINET
11.		4.5 Kg CO2 GAS TYPE FIRE EXTINGUISHER
12.		5 KG. DRY CHEMICAL POWDER TYPE FIRE EXTINGUISHER
13.		FIXED CUM. RATE OF RISE OF TEMPERATURE TYPE HEAT DETECTOR
14.		OPTICAL TYPE SMOKE DETECTOR
15.		MANUAL CALL POINT (BREAK GLASS TYPE)
16.		HOOTER / SPEAKER
17.		FIRE ALARM CONDUIT
18.		EXPANSION JOINT (BELLOW)
19.		BUTTERFLY VALVE

NOTES : FOR SPRINKLER SYSTEM

1. ALL SPRINKLER PIPE LINE SHALL BE SUPPORTED FROM CEILING THROUGH G.I. HANGERS OF MIN. 5 MM THICK MS RODS ALONG WITH ANCHOR FASTNERS.
2. THE SIZE OF BRANCH SPRINKLER PIPES SHALL BE AS HERE UNDER :-
   a) 25 Ø - 2 - SPRINKLER
   b) 32 Ø - 3 - SPRINKLER
   c) 40 Ø - 4 - SPRINKLER
   d) 50 Ø - 5 - SPRINKLER
   e) 65 Ø - 10 - SPRINKLER
   f) 80 Ø - 40 - SPRINKLER
   g) 100 Ø - 100 - SPRINKLER
3. PIPE MATERIAL - SPRINKLER PIPE - MS (CLASS C) HEAVY DUTY
   - MAIN PIPE - G.I. (CLASS B) MEDIUM DUTY
4. JOINING OF PIPE
   a) UP TO 40 MM DIA - SCREWED JOINT
   b) 50 MM & ABOVE DIA - WELDED JOINT
5. FOR RISK WALL SPRINKLERS, THE DEFLECTOR OF THE SPRINKLERS SHALL BE NOT LESS THAN 150 MM AND NOT MORE THAN 300 MM BELOW THE FINISHED CEILING SURFACE. (CLAUSE 11.4.1.1 (b) (iv) (b))
6. ALL FIRE PIPING ACCESSORIES SHOULD BE PAINTED BY FIRE RED COLOUR (SHADE NO. 536 AS PER IS : 5)
7. EXPANSION BELLOW IS TO BE USED IN ALL PLACES IN HYDRANT AND SPRINKLER PIPING WORK. THE PIPE PASSES THROUGH BUILDING EXPANSION JOINT.
8. ANY MODIFICATION REQD. ARE CARRIED OUT AS REQ. TO SUIT SITE CONDITION IN CONSULTATION WITH TEST INCHARGE.
9. ALL PIPE SIZES ARE IN MM AND NOMINAL DIA. ONLY

rev. no.	date	revision
R - 3	24/06/2019	SPRINKLER ADDED IN CLOUDED AREA VENTILATION ZONE-9 & ZONE-10
R - 2	03/02/2017	SPRINKLER ADDED IN TOWER-D1, TOWER-D2 (PART-1 & 2) & TOWER-D3
R - 1	19/12/2014	SPRINKLER ADDED IN NON TOWER AREA NEAR UGT & MID PART OF TOWER D1 & D2

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
FIRE FIGHTING DRAWING

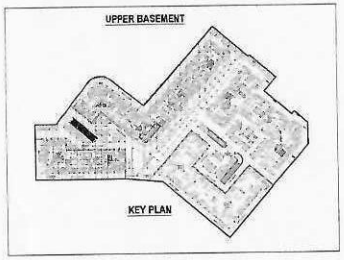
subtitle
LOWER BASEMENT PLAN

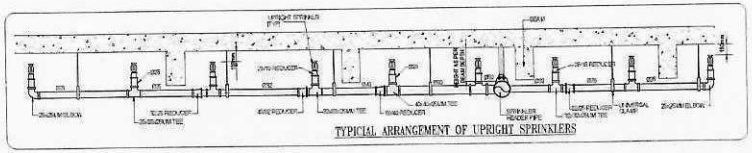
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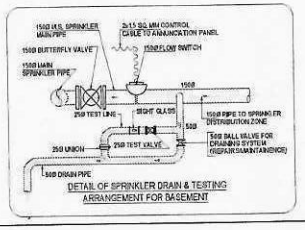
drg. no. SAVIOUR / LOWER BA S / FF - 02
scale 1 : 350@A1 date Sep, 2014
drawn by Joseph ckd by Sanjay Goel
approved by Anand Handa

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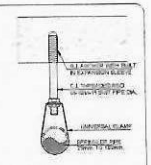




THE SPACING OF FIRE PIPE SUPPORTS FOR SPRINKLER (SCHEDULE MEDIUM GRADE) SHALL NOT BE MORE THAN THAT SPECIFIED BELOW:-

Nominal bore diameter (mm)	Spacing between support (meter)	Hanger rod diameter (mm)
Up to 25	3.0	8
32 to 50	3.5	8
65 to 80	3.5	10
100	3.5	12
150	3.5	12

NOTE: Extra supports shall be provided at the bends and at heavy fittings like valves to avoid undue stress on the pipes.



TYPICAL HANGING SUPPORT DETAILS FOR SPRINKLER / HYDRANT PIPES

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.		15 M.M. DIA. UPRIGHT SPRINKLER
2.		15 M.M. DIA. SIDEWALL SPRINKLER
3.		BRANCH PIPE LINE FOR SPRINKLER SYSTEM
4.		DISTRIBUTION PIPE FOR SPRINKLER SYSTEM
5.		MAIN PIPE LINE FOR WET RISER SYSTEM
6.		SPRINKLER HEADER TO INSTALLATION CONTROL VALVE
7.		SPRINKLER HEADER FROM I.C.V. TO FLOW SWITCH
8.		SPRINKLER DRAIN / TEST PIPE
9.		FLOW SWITCH
10.	FHC	FIRE HOSE CABINET
11.		4.5 Kg CO2 GAS TYPE FIRE EXTINGUISHER
12.		5 KG. DRY CHEMICAL POWDER TYPE FIRE EXTINGUISHER
13.		FIXED CUM RATE OF RISE OF TEMPERATURE TYPE HEAT DETECTOR
14.		OPTICAL TYPE SMOKE DETECTOR
15.		MANUAL CALL POINT (BREAK GLASS TYPE)
16.		HOOTER / SPEAKER
17.		FIRE ALARM CONDUIT
18.		EXPANSION JOINT (BELLOW)
19.		BUTTERFLY VALVE

NOTES : FOR SPRINKLER SYSTEM

1. ALL SPRINKLER PIPE LINE SHALL BE SUSPENDED FROM CEILING THROUGH C.I. HANGERS OF MIN. 3 MM THICK WELDED ALONG WITH ANCHOR FASTNERS.
2. THE SIZE OF BRANCH SPRINKLER PIPES SHALL BE AS HERE UNDER :-
   a) 25 Ø - 2 - SPRINKLER
   b) 32 Ø - 3 - SPRINKLER
   c) 40 Ø - 4 - SPRINKLER
   d) 50 Ø - 5 - SPRINKLER
   e) 65 Ø - 10 - SPRINKLER
   f) 80 Ø - 40 - SPRINKLER
   g) 100 Ø - 100 - SPRINKLER
3. PIPE MATERIAL - SPRINKLER PIPE - MS (CLASS C) HEAVY DUTY
   - DRAIN PIPE - G. I. (CLASS B) MEDIUM DUTY
4. JOINING OF PIPE
   a) UP TO 40 MM DIA - SCREWED JOINT
   b) 50 MM & ABOVE DIA - WELDED JOINT
5. FOR SIDE WALL SPRINKLERS, THE DEFLECTOR OF THE SPRINKLERS SHALL BE NOT LESS THAN 100 (MM) AND NOT MORE THAN 150 MM BELOW THE FINISHED CEILING SURFACE. (CLAUSE 13.4.1.1. (b) - IS 15105)
6. ALL FIRE FIGHTING EQUIPMENTS SHOULD BE PAINTED BY FIRE RED COLOUR (SHADE NO. 536 AS PER IS : 5)
7. EXPANSION BELOW IS TO BE USED AT ALL PLACES WHEREVER AND SPRINKLER PIPING WHERE, THE PIPE PASSES THROUGH BUILDING EXPANSION JOINT.
8. ANY MODIFICATION SHOD, ARE CARRIED OUT AT SITE TO SUIT SITE CONDITION IN CONSULTATION WITH THE INCHARGE.
9. ALL PIPE SIZES ARE IN MM AND NOMINAL DIA., ONLY

rev. no.	date	revision
R - 2	03/02/2017	SPRINKLER ADDED IN TOWER-01, TOWER-02 (PART-1 & 2) & TOWER-03
R - 1	19/12/2014	SPRINKLER ADDED IN NON TOWER AREA NEAR LIFT & MID PART OF TOWER 01 & 01

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
FIRE FIGHTING DRAWING

subtitle
UPPER BASEMENT PLAN

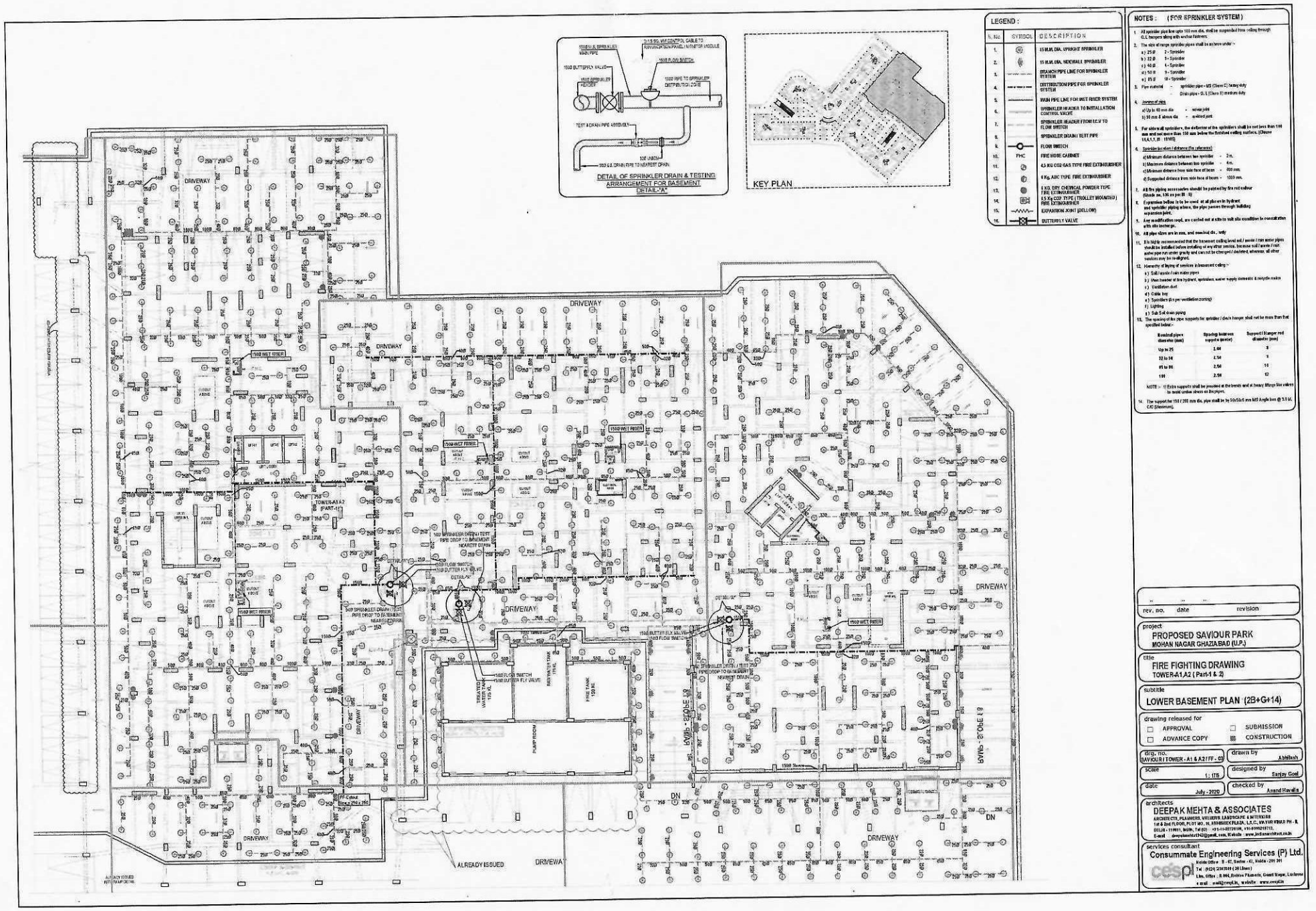
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drg. no.	SAVIOUR PARK/ UPPER BAS. / FF - 01-A
scale	1 : 350 @ A1
date	Feb, 2017
drawn by	Joseph
ckd by	Sanjay Goel
approved by	Anand Havelia

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LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.		15 M.M. DIA. UPRIGHT SPRINKLER
2.		15 M.M. DIA. HEDEWALL SPRINKLER
3.		BRANCH PIPE LINE FOR SPRINKLER SYSTEM
4.		DISTRIBUTION PIPE FOR SPRINKLER SYSTEM
5.		MAIN PIPE LINE FOR WET RISER SYSTEM
6.		SPRINKLER HEADER TO INSTALLATION CONTROL VALVE
7.		SPRINKLER HEADER FROM M.V. TO FLOW SWITCH
8.		SPRINKLER DRAIN/ TEST PIPE
9.		FLOW SWITCH
10.	FHC	FIRE HOSE CABINET
11.		4.5 KG CO2 GAS TYPE FIRE EXTINGUISHER
12.		9 Kg. ABC TYPE FIRE EXTINGUISHER
13.		5 KG. DRY CHEMICAL POWDER TYPE FIRE EXTINGUISHER
14.		1.5 Kg CO2 TYPE (TROLLEY MOUNTED) FIRE EXTINGUISHER
15.		EXPANSION JOINT (BELLOW)
16.		BUTTERFLY VALVE

NOTES : (FOR SPRINKLER SYSTEM)

1. All sprinkler pipe line upto 100 mm dia. shall be suspended from ceiling through G.I. hangers along with anchor fasteners.
2. The size of range sprinkler pipes shall be as here under :-
   a) 25 Ø 2 - Sprinkler
   b) 32 Ø 3 - Sprinkler
   c) 40 Ø 4 - Sprinkler
   d) 50 Ø 9 - Sprinkler
   e) 65 Ø 18 - Sprinkler
3. Pipe material - sprinkler pipe - MS (Class C) heavy duty
   - Drain pipe - G.I. (Class B) medium duty
4. Jointing of pipe
   a) Up to 40 mm dia - screw joint
   b) 50 mm & above dia - welded joint
5. For side wall sprinklers, the deflector of the sprinklers shall be not less than 100 mm and not more than 150 mm below the finished ceiling surface. (Clause 11.4.1.1, IS : 15105)
6. Sprinkler location / distance (for reference)
   a) Minimum distance between two sprinkler - 2 m.
   b) Maximum distance between two sprinkler - 4 m.
   c) Minimum distance from side face of beam - 200 mm.
   d) Suggested distance from side face of beam - 1000 mm.
7. All fire piping accessories should be painted by fire red colour (Shade no. 536 as per IS : 5)
8. Expansion bellow to be be used at all places in hydrant and sprinkler piping where, the pipe passes through building expansion joint.
9. Any modification requl. are carried out at site to suit site condition in consultation with site incharge.
10. All pipe sizes are in mm. and nominal dia. only
11. It is highly recommended that the basement ceiling level soil / waste / rain water pipes should be installed before installing of any other service, because soil / waste / rain water pipe run under gravity and can not be changed / deleted, whereas all other services may be realigned.
12. Hierarchy of layers of services in basement ceiling :-
   a) Soil / waste / rain water pipes
   b) Main header of fire hydrant, sprinkler, water supply domestic & recycle water
   c) Ventilation duct
   d) Cable tray
   e) Sprinklers (As per ventilation zoning)
   f) Lighting
   g) Sub Soil drain piping
13. The spacing of the pipe supports for sprinkler / drain hanger shall not be more than that specified below :-

Nominal pipe diameter (mm)	Spacing between supports (meter)	Support / Hanger rod diameter (mm)
Up to 25	2.40	8
32 to 50	3.50	10
65 to 90	3.50	10
100	3.50	12

NOTE :- i) Extra supports shall be provided at the bends and at heavy fittings like valves to avoid undue stress on the pipes.

14. The support for 150 / 200 mm dia. pipe shall be by 50x50x6 mm M.S Angle iron @ 3.0 M. C/C (Minimum).

rev. no.	date	revision

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
FIRE FIGHTING DRAWING
TOWER-A1,A2 (Part-1 & 2)

subtitle
LOWER BASEMENT PLAN (2B+G+14)

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drg. no. SAVIOUR/TOWER - A1 & A2/FF- 03	drawn by Abhilash
scale 1:- 175	designed by Sanjay Goel
date July - 2020	checked by Anand Hawalia

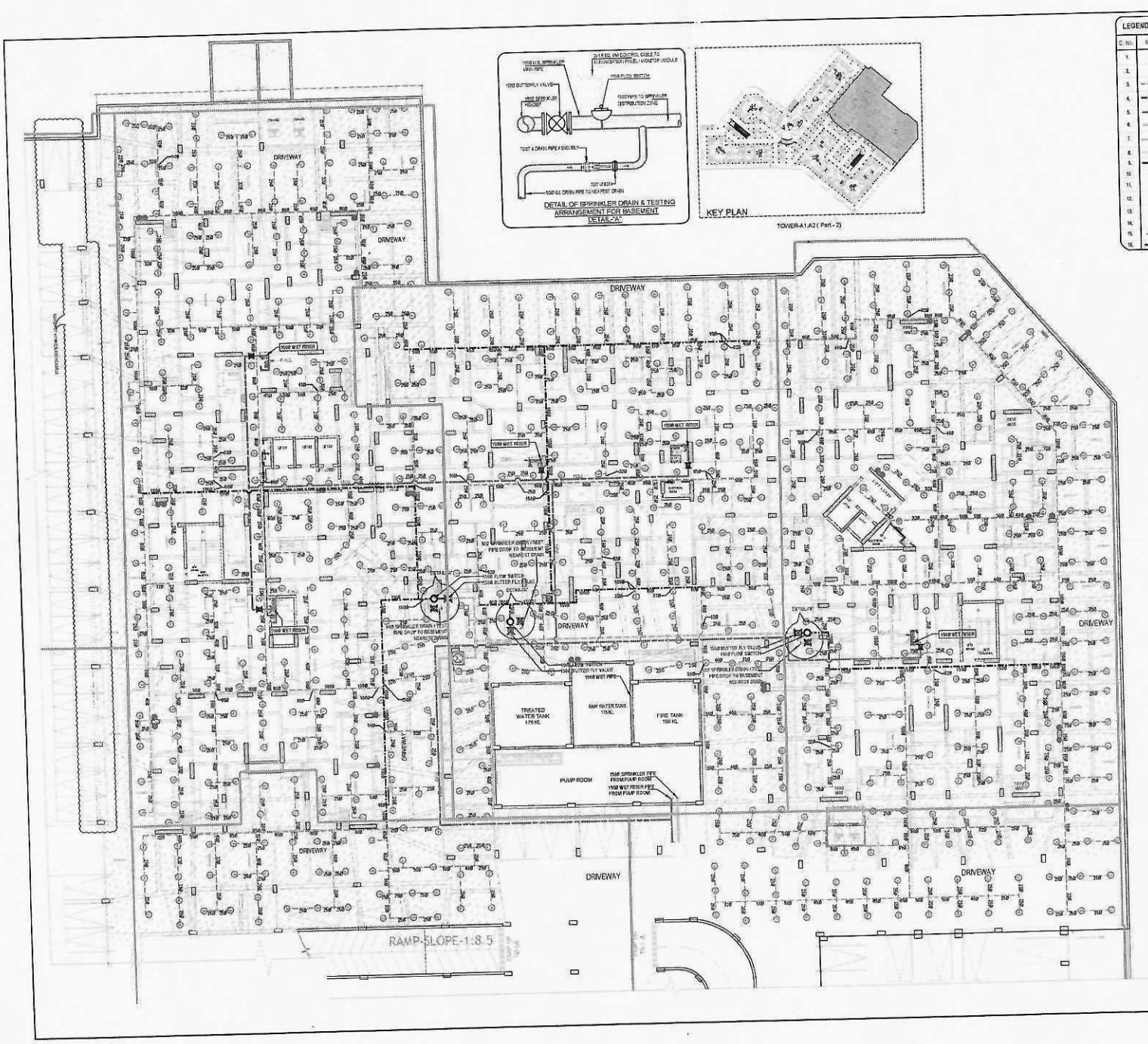
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LEGEND

S. No.	SYMBOL	DESCRIPTION
1.		15 MM. DIA. UPRIGHT SPRINKLER
2.		15 MM. DIA. SIDEWALL SPRINKLER
3.		BRANCH PIPE LINE FOR SPRINKLER SYSTEM
4.		DISTRIBUTION PIPE FOR SPRINKLER SYSTEM
5.		MAIN PIPE LINE FOR WET RISER SYSTEM
6.		SPRINKLER HEADER TO INSTALLATION CONTROL VALVE
7.		SPRINKLER HEADER FROM/CLW TO FLOW SWITCH
8.		SPRINKLER DRAIN / TEST PIPE
9.		FLOW SWITCH
10.	FHC	FIRE HOSE CABINET
11.		4.5 KG CO2 GAS TYPE FIRE EXTINGUISHER
12.		6 Kg. ABC TYPE FIRE EXTINGUISHER
13.		4 KG DRY CHEMICAL POWDER TYPE FIRE EXTINGUISHER
14.		4.5 KG CO2 TYPE (TROLLEY MOUNTED) FIRE EXTINGUISHER
15.		EXPANSION JOINT (BELLOW)
16.		BUTTERFLY VALVE

NOTES . (FOR SPRINKLER SYSTEM)

1. All sprinkler pipe line upto 150 mm dia. shall be suspended from ceiling level G.I. hangers along with another hangers.
2. The size of large sprinkler pipes shall be as here under :-
   a) 25 ø 2 - Sprinkler
   b) 32 ø 3 - Sprinkler
   c) 40 ø 4 - Sprinkler
   d) 50 ø 5 - Sprinkler
   e) 65 ø 10 - Sprinkler
3. Pipe material - sprinkler pipe - MS ((Class C) heavy duty
   - Drain pipe - G. I. (Class B) medium duty
4. Jointing of pipe
   a) Up to 40 mm dia - screw joint
   b) 50 mm & above dia - welded joint
5. For side wall sprinklers, the deflector of the sprinklers shall be not less than 150 mm and not more than 150 mm below the finished ceiling surface. (Clause 15.4.1.4.B - IS:1646)
6. Sprinkler location (distance from valve etc)
   a) Minimum distance between two sprinkler - 2m.
   b) Maximum distance between two sprinkler - 4 m.
   c) Minimum distance from side face of beam - 600 mm.
   d) Suggested distance from side face of beam - 1000 mm.
7. All fire piping accessories should be painted by fire red colour (Shade no. 536 as per IS : 5)
8. Expansion bellow is to be used at all place in hydrant and sprinkler piping where, the pipe passes through building expansion joint.
9. Any modification regd. are carried out at site to suit site condition in consultation with site incharge.
10. All pipe sizes are in mm. and nominal dia. only
11. It is highly recommended that the basement ceiling level soil / waste / rain water pipes should be provided before installing of any other service, because soil / waste / rain water pipe run under gravity and can not be changed / deviated, however, all other services may be re-aligned.
12. Hierarchy of laying of services in basement ceiling :-
   a) Soil / waste / rain water pipes
   b) Main header of fire hydrant, sprinklers, water supply domestic & recycle water
   c) Ventilation duct
   d) Cable tray
   e) Sprinklers (As per ventilation zoning)
   f) Lighting
   g) Sub Std drain piping
13. The spacing of the pipe supports for sprinkler / drain hanger shall not be more than that specified below:-

Nominal pipes diameter (mm)	Spacing between supports (meter)	Support / Hanger rod diameter (mm)
Up to 25	2.40	8
32 to 50	2.50	8
65 to 90	3.50	10
100	3.50	12

NOTE :- 1) Extra supports shall be provided at the bends and at heavy fittings like valves to avoid undue stress on the pipes.

14. The support for 150 / 200 mm dia. pipe shall be by 50x50x5 mm MS Angle iron @ 3.0 M. C/C (Diagonally).

rev. no.	date	revision

project
PROPOSED SAVIOUR PARK
MOHAN NAGAR GHAZIABAD (U.P.)

title
FIRE FIGHTING DRAWING
TOWER-A1,A2 (Part-1 & 2)

subtitle
UPPER BASEMENT PLAN (2B+G+14)

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drg. no. SAVIOUR / TOWER - A1 & A2 / FF - 06	drawn by Abhilash
scale 1:100	designed by Sanjay Goel
date July - 2020	checked by Anand Havelia

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