Verified RealEstate™

RE REGULATORY RECORD

RERA Document

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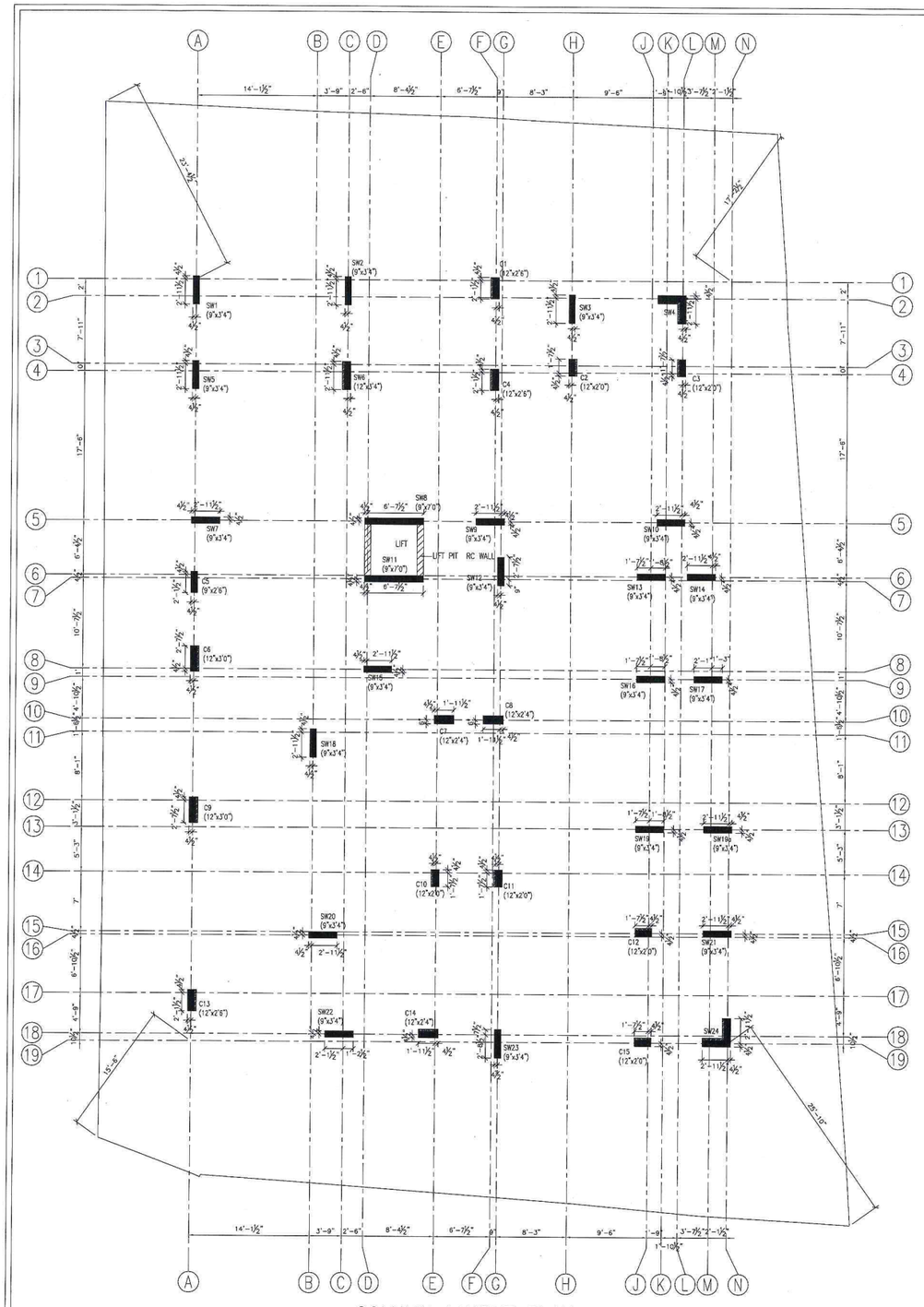
DIGITALLY VERIFIED RECORD

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWING BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ONTHE DIMENSIONS.

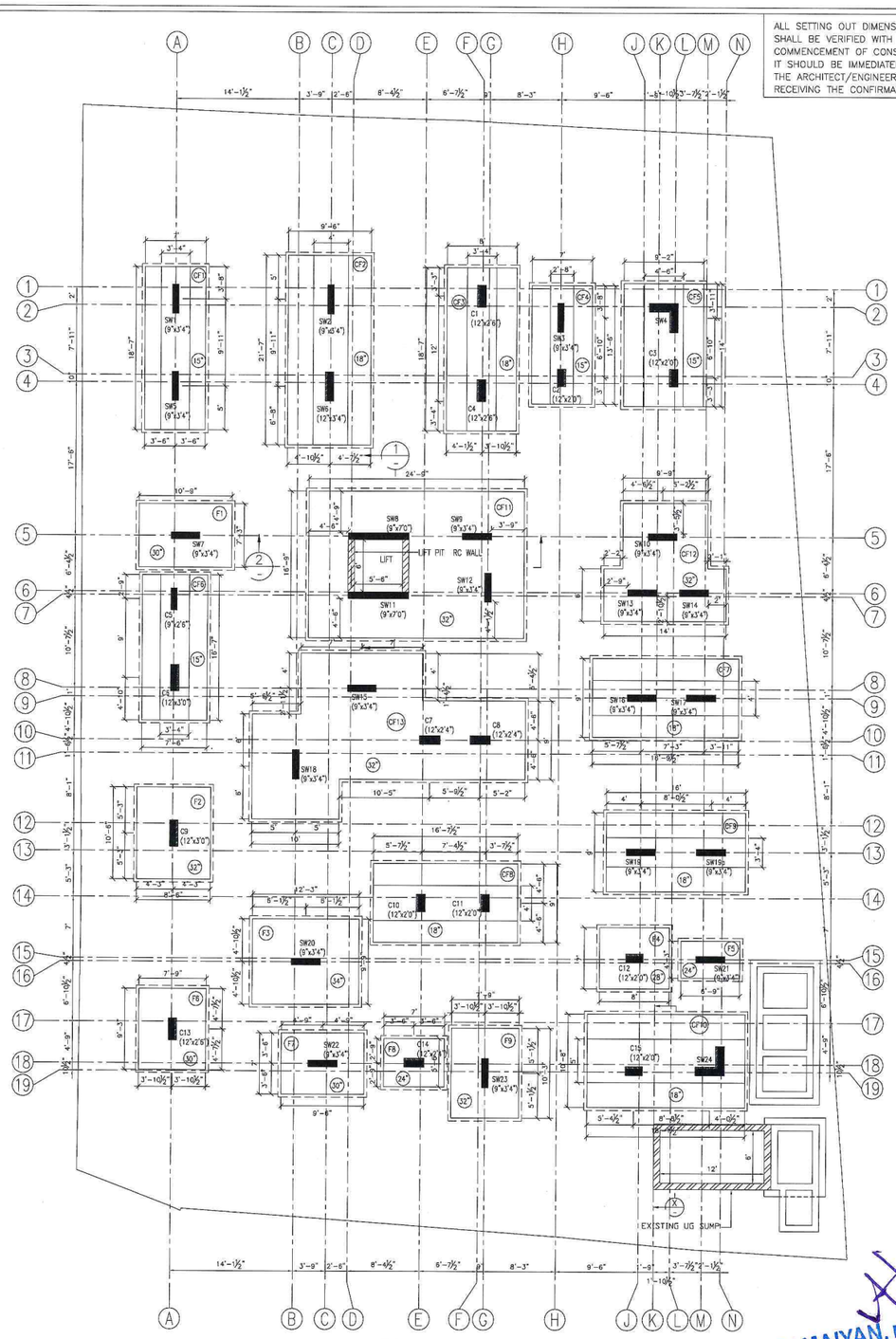
NOTES:

1. ALL DIMENSIONS ARE IN FEET AND INCHES
2. FOR GENERAL NOTES REFER TO DWG. NO. BEI730_S-/NT/--/01.
3. FOR STANDARD DETAILS REFER TO DWG. NO. BEI730_S-/SD/--/01.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN, ARCHITECTURAL AND ALL OTHER RELEVANT SERVICES DRAWINGS.
5. GRADE OF CONCRETE GRADE: M30
6. STEEL GRADE: Fe550 CONFORMING TO IS:1786-2008.
7. CLEAR COVER FOR FOOTING 50mm, COLUMN-40mm, SLAB-25mm, BEAM-30mm, RC WALL -30mm U.G.SUMP, STP BASE SLAB AND TANK RC WALLS - 40mm
8. UNLESS OTHERWISE SPECIFIED, LAP/DEVEPMENT LENGTH SHALL NOT BE LESS THAN 50 X DIA OF BAR
9. SEISMIC LOAD HAS BEEN CONSIDEDCED AS PER IS:1893-2002 WITH THE SEISMIC ZONE III. DUCTILE DETAILING CARRIED OUT AS PER THE STIPULATIONS MADE IN IS:13920-1993
10. STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH I.S.456-2000, NBC (SP7-1983) AND RELAVANT INDIAN CODE STIPULATIONS
11. ONUS OF ADVANCE LIES WITH CONTRACTOR/ PROMOTER / BUILDER / OWNER.

FOUNDATION AND COLUMN DESIGNED FOR STILT + 5 FLOORS+ROOF USING CONVENTIONAL BRICKWORK FOR BOTH INTERNAL AND EXTERNAL FILLER WALLS



COLUMN LAYOUT PLAN
SCALE-1/8" = 1'-0"



FOOTING LAYOUT PLAN
SCALE-1/8" = 1'-0"

DETAILS OF ISOLATED COMBINED FOOTING

SL. NO	FOOTING MARK	FOOTING SIZE Lf	Bf	D	REINFORCEMENT B1	B2	T1	T2	ADDL
1	CF11	REFER PLAN	REFER PLAN	32"	T16-5"	T16-5"	T12-5"	T12-5"	-
2	CF12	REFER PLAN	REFER PLAN	32"	T16-5"	T16-5"	T12-5"	T12-5"	-
3	CF13	REFER PLAN	REFER PLAN	32"	T16-5"	T16-5"	T12-5"	T12-5"	-

R.0	GOOD FOR CONSTRUCTION	Punitha	15/10/24
NO.	AMENDMENTS	BY	DATE

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :

M/s. SALMA CONSTRUCTION

Architect :

ANSARI ARCHITECTS,
G-3, NANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T-NAGAR,CHENNAI-17.
PH - 28342879 ,28343402

Civil & Structural Engineer :

BURO ENGINEERS (I) PRIVATE LTD.
Civil & Structural Consultants
19, BRINDHAVAN STREET, 2nd FLOOR, MYLAPORE
CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

STRUCTURAL

project title

PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

drawing title

COLUMN LAYOUT PLAN & FOOTING LAYOUT PLAN (SHEET NO : 01 OF 04)

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-FT/DT--/01		Revision -

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CAD FILE NAME: BEI730_S-FT/DT/01

NOTES
UNLESS OTHERWISE SPECIFIED

1. GRADE OF CONCRETE GRADE TO BE M30
2. GRADE OF STEEL Fe550
3. ▨ COLUMN WHICH ARE INTRODUCED ONLY UPTO FIRST FLOOR IS TO BE SHOWN IN DIFFERENT HATCH
4. UPON REACHING THE SPECIFIED FORMATION LEVEL THE BEARING LAYER SHALL BE IMMEDIATELY PROTECTED WITH LEAN CONCRETE (P.C.C).
5. SAFE BEARING CAPACITY OF SOIL CONSIDERED AS PER GEOTECHNICAL REPORT NO. GT-2820 DATED 24/07/2024 IS 250 KN/M² AT FOUNDING DEPTH 2.0M FROM EXISTING GROUND LEVEL.
6. ALL EXCAVATED AREA SHALL BE KEPT DRY UNTIL THE FOUNDATION IS COMPLETED.
7. IF LOOSE SOIL ENCOUNTERED AT BEARING LEVEL SHALL BE REMOVED AND SAME SHALL BE FILLED WITH LEAN CONCRETE
8. OVER EXCAVATED FOOTING PITS OR DISTURBED BEARING LAYER SHALL BE FILLED USING LEAN CONCRETE.

DETAILS OF ISOLATED FOOTING

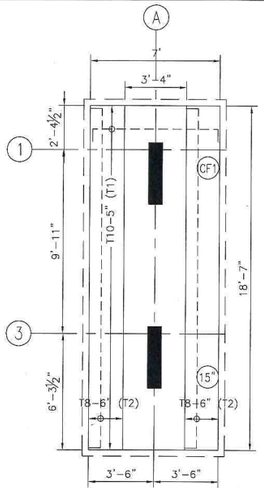
SL. NO	FOOTING MARK	FOOTING SIZE Lf	Bf	D	COLUMN NUMBERS	REINFORCEMENT B1	B2	T1	T2
1	F1	10'-9"	7'-3"	30"	SW7	T16-6"	T16-6"	T12-5"	T12-5"
2	F2	10'-6"	8'-6"	32"	C9	T16-6"	T16-6"	T12-5"	T12-5"
3	F3	12'-3"	9'-9"	34"	SW20	T16-6"	T16-6"	T12-5"	T12-5"
4	F4	8'-0"	7'-0"	28"	C12	T16-6"	T16-6"	T12-5"	T12-5"
5	F5	6'-9"	4'-3"	24"	SW21	T16-6"	T16-6"	T12-5"	T12-5"
6	F6	9'-3"	7'-9"	30"	C13	T16-6"	T16-6"	T12-5"	T12-5"
7	F7	9'-6"	7'-0"	30"	SW22	T16-6"	T16-6"	T12-5"	T12-5"
8	F8	7'-0"	5'-6"	24"	C14	T16-6"	T16-6"	T12-5"	T12-5"
9	F9	10'-3"	7'-9"	32"	SW23	T16-6"	T16-6"	T12-5"	T12-5"

DETAILS OF COMBINED FOOTING WITH BEAM

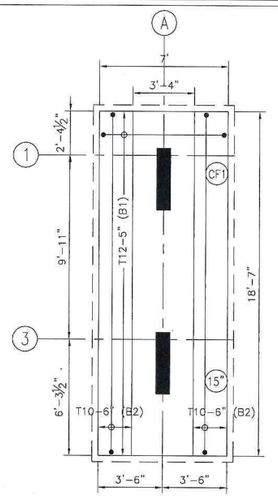
SL. NO	FOOTING MARK	FOOTING SIZE a	b	c	d	COLUMN SIZE Lc	Bc	BEAM SIZE B	D	BEAM REINFORCEMENT B1	T1	S1	FOOTING REINFORCEMENT B1	B2	T1	S1	ADDL
1.	CF1	REFER PLAN			15"	REFER PLAN		3'-4"	2'-0"	6T20	6T16	6L-T8-6"	T12-5"	T10-6"	T10-5"	T8-6"	-
2.	CF2				18"			4'-0"	2'-6"	9T25	9T16	8L-T10-6"	T12-5"	T10-6"	T10-5"	T8-6"	-
3.	CF3				18"			3'-4"	2'-6"	8T20	8T16	8L-T8-6"	T12-5"	T10-6"	T10-5"	T8-6"	-
4.	CF4				15"			2'-8"	2'-0"	6T20	6T16	6L-T8-6"	T12-5"	T10-6"	T10-5"	T8-6"	-
5.	CF5				15"			4'-6"	2'-0"	10T20	10T16	8L-T8-6"	T12-5"	T10-6"	T10-5"	T8-6"	-
6.	CF6				15"			3'-4"	2'-0"	6T20	6T16	6L-T8-6"	T12-5"	T10-6"	T10-5"	T8-6"	-
7.	CF7				18"			4'-0"	2'-0"	10T20	10T16	8L-T10-6"	T12-5"	T10-6"	T10-5"	T8-6"	-
8.	CF8				18"			4'-0"	2'-0"	10T20	10T16	8L-T8-6"	T12-5"	T10-6"	T10-5"	T8-6"	-
9.	CF9				18"			3'-4"	2'-0"	8T20	8T16	8L-T8-6"	T12-5"	T10-6"	T10-5"	T8-6"	-
10.	CF10				18"			5'-0"	2'-6"	12T20	12T16	8L-T10-6"	T12-5"	T10-6"	T10-5"	T8-6"	-

NOTE :

A. PERAMAIYAN, M.E., (STRUCTURAL)
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No. SE/GR-I/19/03/020
NEW No. 31 (OLD No.14), BESANT AVENUE ROAD,
ADYAR, CHENNAI - 600 020.
E-Mail: peram@buroengineers.in
Mobile: +91 99625 45631

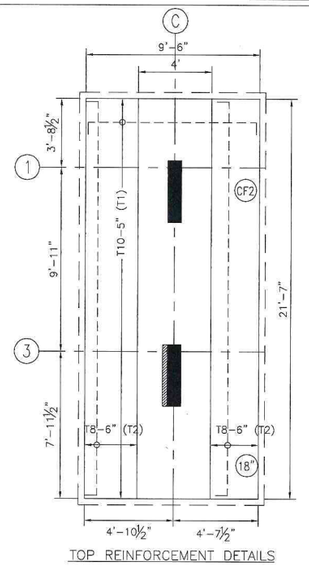


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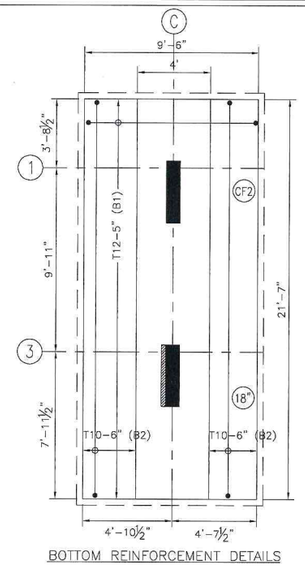


BOTTOM REINFORCEMENT DETAILS

COMBINED FOOTING CF1
SCALE 1/4" = 1'-0"

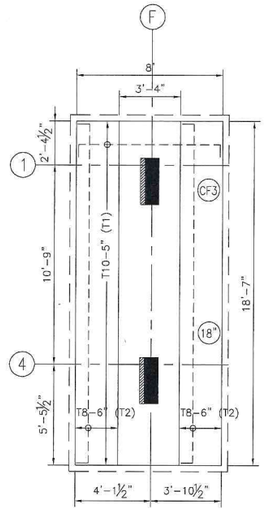


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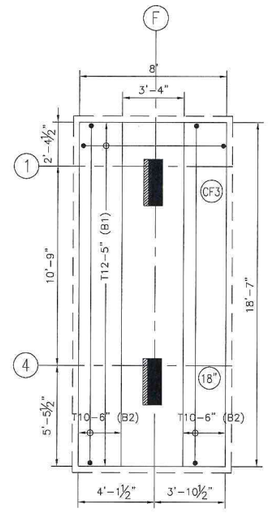


BOTTOM REINFORCEMENT DETAILS

COMBINED FOOTING CF2
SCALE 1/4" = 1'-0"

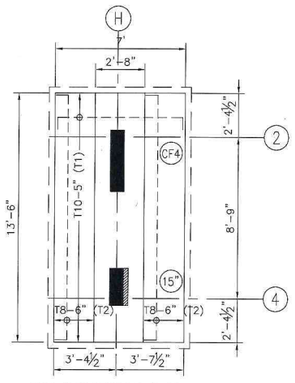


TOP REINFORCEMENT DETAILS

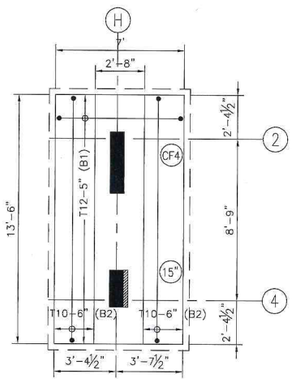


BOTTOM REINFORCEMENT DETAILS

COMBINED FOOTING CF3
SCALE 1/4" = 1'-0"

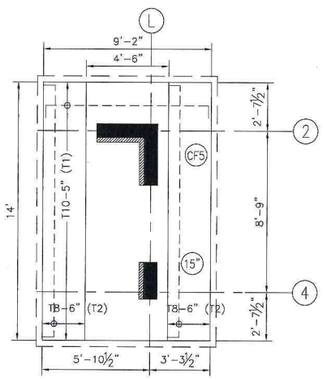


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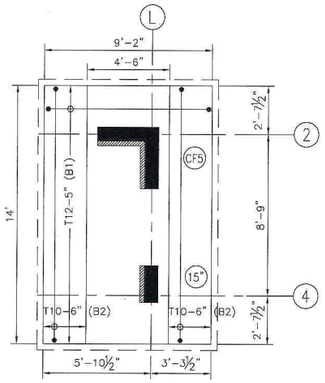


BOTTOM REINFORCEMENT DETAILS

COMBINED FOOTING CF4
SCALE 1/4" = 1'-0"

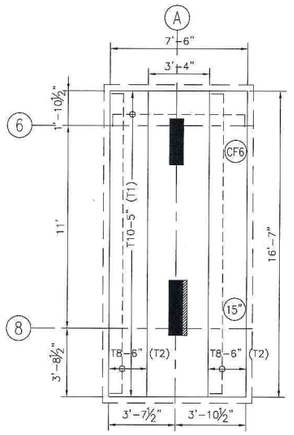


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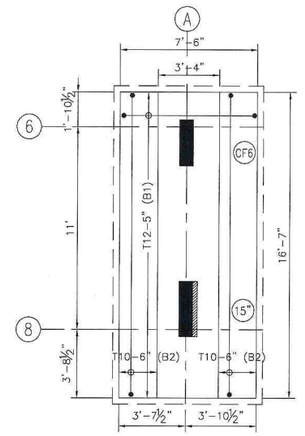


BOTTOM REINFORCEMENT DETAILS

COMBINED FOOTING CF5
SCALE 1/4" = 1'-0"

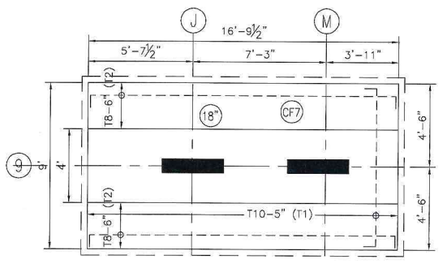


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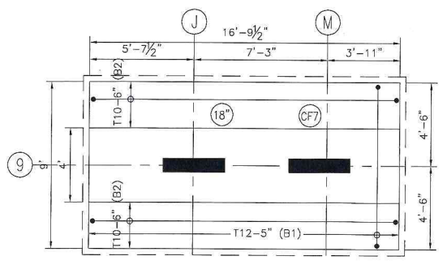


BOTTOM REINFORCEMENT DETAILS

COMBINED FOOTING CF6
SCALE 1/4" = 1'-0"

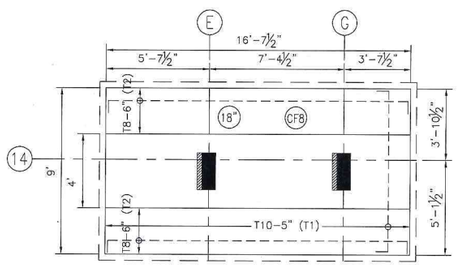


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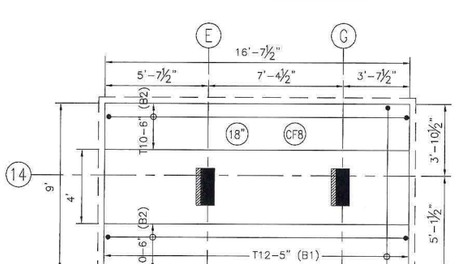


BOTTOM REINFORCEMENT DETAILS

COMBINED FOOTING CF7
SCALE 1/4" = 1'-0"

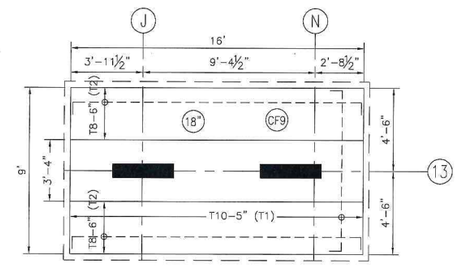


TOP REINFORCEMENT DETAILS

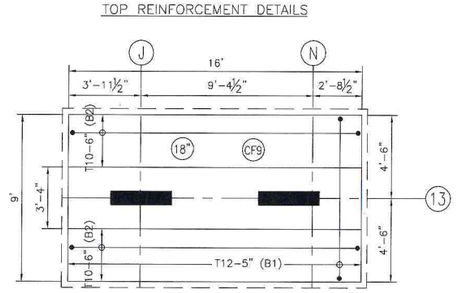


BOTTOM REINFORCEMENT DETAILS

COMBINED FOOTING CF8
SCALE 1/4" = 1'-0"

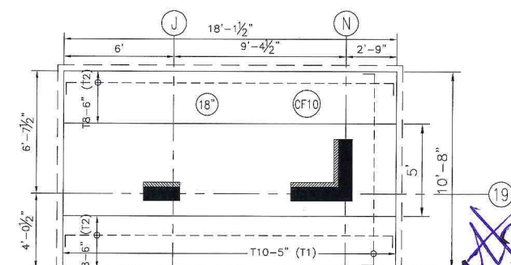


TOP REINFORCEMENT DETAILS

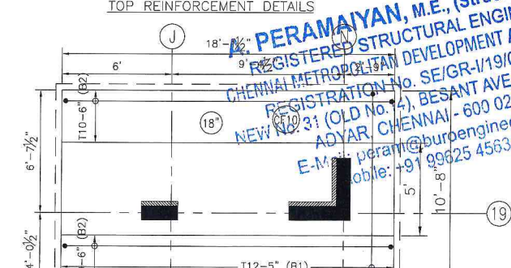


BOTTOM REINFORCEMENT DETAILS

COMBINED FOOTING CF9
SCALE 1/4" = 1'-0"



TOP REINFORCEMENT DETAILS



BOTTOM REINFORCEMENT DETAILS

COMBINED FOOTING CF10
SCALE 1/4" = 1'-0"

NOTES:

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FOUNDATION AND COLUMN DESIGNED FOR STILT + 5 FLOORS+ROOF USING CONVENTIONAL BRICKWORK FOR BOTH INTERNAL AND EXTERNAL FILLER WALLS

NO.	AMENDMENTS	BY	DATE
R.0	GOOD FOR CONSTRUCTION	Punitha	15/10/24

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :

M/s. SALMA CONSTRUCTION

Architect :

ANSARI ARCHITECTS,
G-3, NANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T-NAGAR,CHENNAI-17.
PH - 28342879 ,28343402

Civil & Structural Engineer :

BURO ENGINEERS (I) PRIVATE LTD.
Civil & Structural Consultants
19, BRINDHAVAN STREET, 2nd FLOOR, MYLAPORE
CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

STRUCTURAL

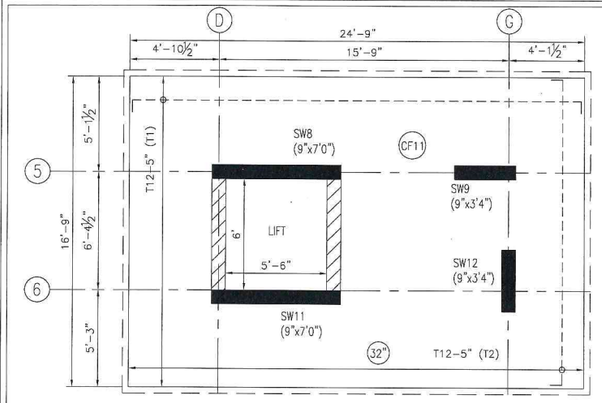
project title
PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

drawing title
COMBINED FOOTING REINFORCEMENT DETAILS
(SHEET NO : 02 OF 04)

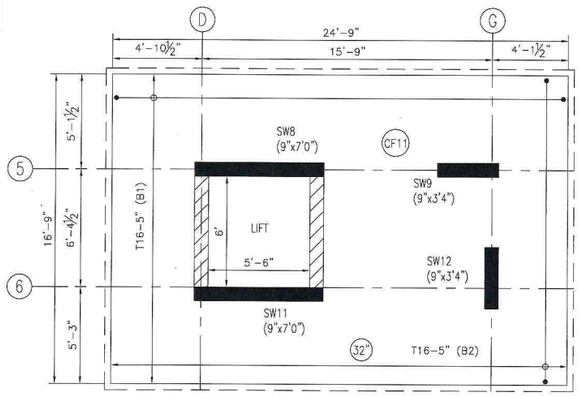
scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-FT/DT--/02	Revision	-

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A. PERAMAIYAN, M.E., (Struct.), M.I.E.
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No. SE/GR-I/19/03/026
NEW NO. 31 (OLD No. 2), BESANT AVENUE ROAD
ADYAR, CHENNAI - 600 020.
E-Mail : peram@buroengineers.in
Mobile : +91 99625 45630



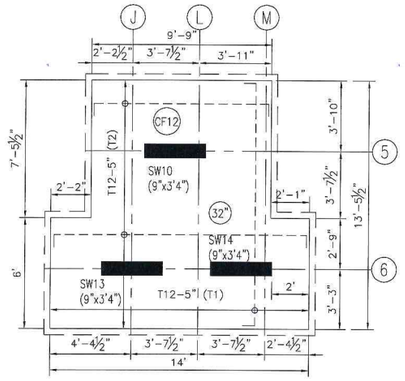
TOP REINFORCEMENT DETAILS



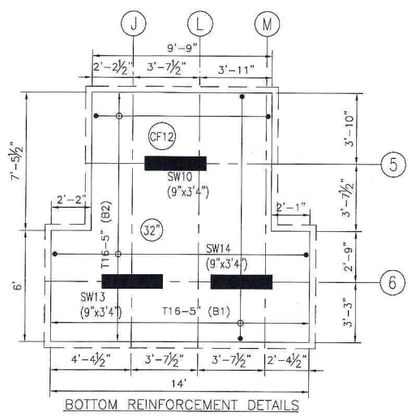
BOTTOM REINFORCEMENT DETAILS

COMBINED FOOTING CF11

SCALE 1/4" = 1'-0"



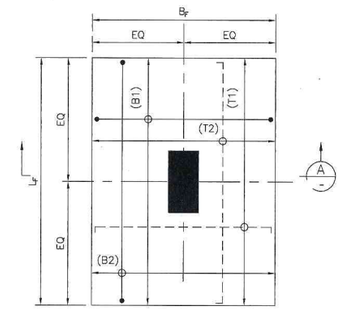
TOP REINFORCEMENT DETAILS



BOTTOM REINFORCEMENT DETAILS

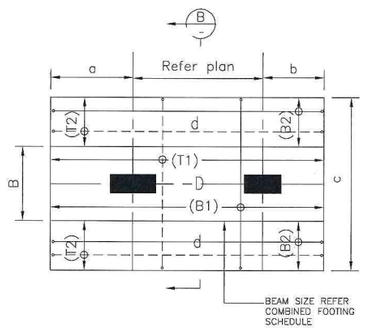
COMBINED FOOTING CF12

SCALE 1/4" = 1'-0"



TYPICAL DETAIL FOR FLAT FOOTING

SCALE 1/4"=1'0"



TYPICAL DETAIL FOR COMBINED FOOTING WITH BEAM

SCALE 1/4"=1'0"

LEGEND:

LF– DIMENSION OF FOOTING ALONG LONGER DIRECTION

BF– DIMENSION OF FOOTING ALONG SHORTER DIRECTION

D– DEPTH OF FOOTING

B1– LONGITUDINAL BOTTOM BARS (1st LAYER FROM BOTTOM)

B2– DISTRIBUTION BOTTOM BARS (2nd LAYER FROM BOTTOM)

T1– LONGITUDINAL TOP BARS (1st LAYER FROM TOP)

T2– DISTRIBUTION TOP BARS (2nd LAYER FROM TOP)

Lc– DIMENSION OF COLUMN ALONG LONGER DIRECTION

Bc– DIMENSION OF COLUMN ALONG SHORTER DIRECTION

LEGEND

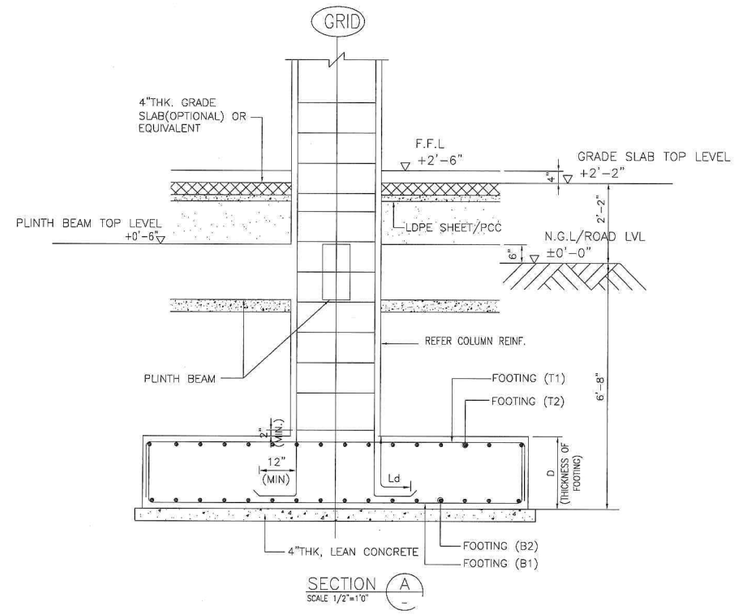
NGL– NATURAL GROUND LEVEL

FGL– FORMED GROUND LEVEL

NOTES:

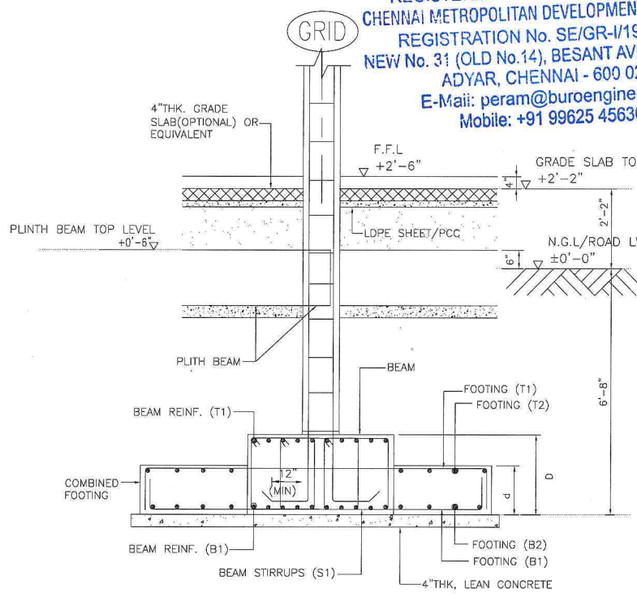
1. ALL DIMENSIONS ARE IN FEET AND INCHES
2. FOR GENERAL NOTES REFER TO DWG. NO. BEI730_S-/NT/--/01.
3. FOR STANDARD DETAILS REFER TO DWG. NO. BEI730_S-/SD/--/01.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN, ARCHITECTURAL AND ALL OTHER RELEVANT SERVICES DRAWINGS.
5. GRADE OF CONCRETE GRADE: M30
6. STEEL GRADE: Fe550 CONFORMING TO IS:1786-2008.
7. CLEAR COVER FOR FOOTING 50mm, COLUMN-40mm, SLAB-25mm, BEAM-30mm, RC WALL -30mm U.G.SUMP, STP BASE SLAB AND TANK RC WALLS - 40mm
8. UNLESS OTHERWISE SPECIFIED, LAP/DEVEPMENT LENGTH SHALL NOT BE LESS THAN 50 X DIA OF BAR
9. SEISMIC LOAD HAS BEEN CONSIDECED AS PER IS:1893-2002 WITH THE SEISMIC ZONE III. DUCTILE DETAILING CARRIED OUT AS PER THE STIPULATIONS MADE IN IS:13920-1993
10. STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH I.S.456-2000, NBC (SP7-1983) AND RELAVANT INDIAN CODE STIPULATIONS
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FOUNDATION AND COLUMN DESIGNED FOR STILT + 5 FLOORS+ROOF USING CONVENTIONAL BRICKWORK FOR BOTH INTERNAL AND EXTERNAL FILLER WALLS



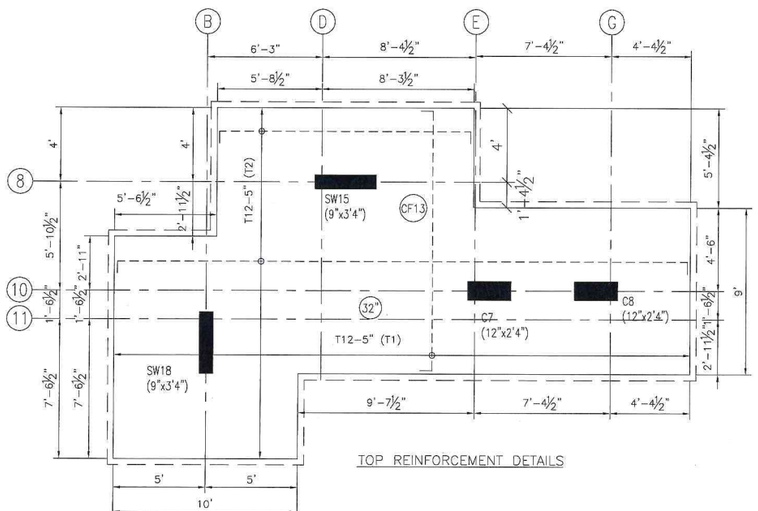
SECTION A

SCALE 1/2"=1'0"

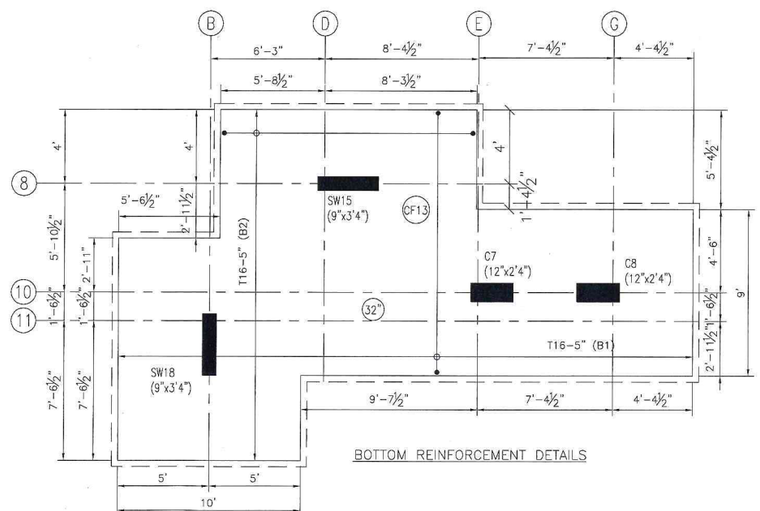


SECTION B

SCALE 1/2"=1'0"



TOP REINFORCEMENT DETAILS



BOTTOM REINFORCEMENT DETAILS

COMBINED FOOTING CF13

SCALE 1/4" = 1'-0"

A. PERAMAIYAN, M.E., (Struct.), M.I.E.
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No. SE/GR-I/19/03/026
NEW No. 31 (OLD No.14), BESANT AVENUE ROAD,
ADYAR, CHENNAI - 600 020.
E-Mail: peram@buroengineers.in
Mobile: +91 99625 45630

NO.	AMENDMENTS	BY	DATE
R.0	GOOD FOR CONSTRUCTION	Punitha	15/10/24

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :

M/s. SALMA CONSTRUCTION

Architect :

ANSARI ARCHITECTS,
C-3, NANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T-NAGAR,CHENNAI-17.
PH – 28343879 ,28343402

Civil & Structural Engineer :

BURO ENGINEERS (I) PRIVATE LTD.
Civil & Structural Consultants
19, BRINDHAVAN STREET, 2nd FLOOR, MYLAPORE
CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

STRUCTURAL

project title

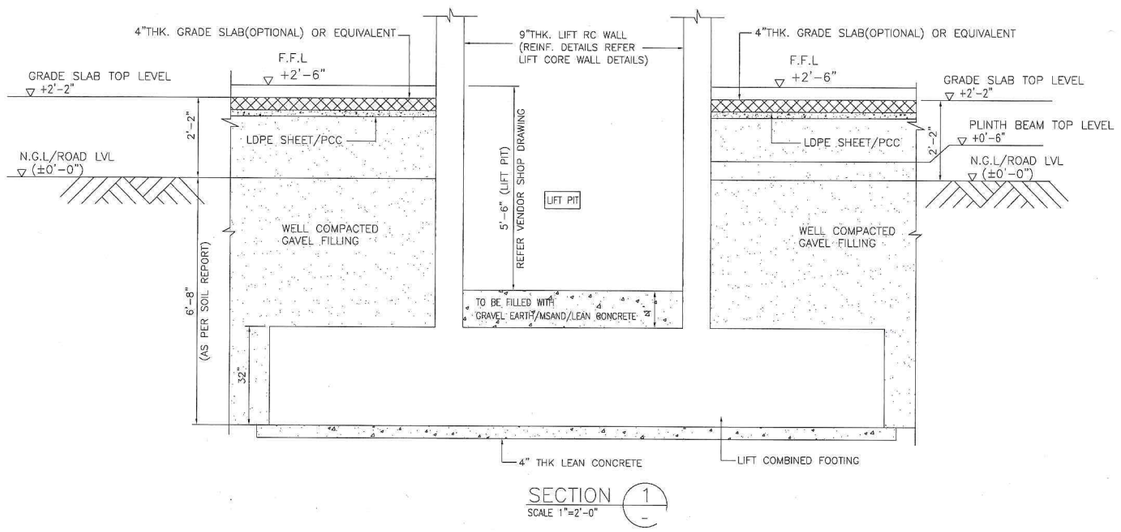
PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

drawing title

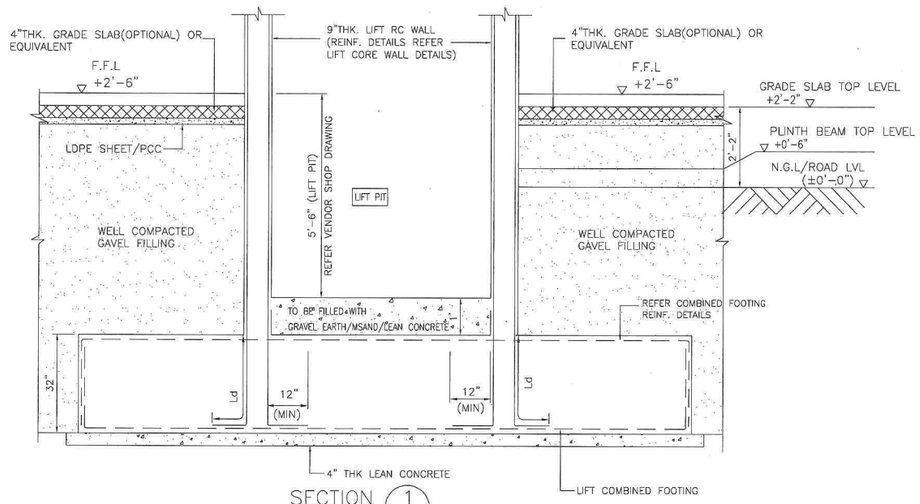
COMBINED FOOTING REINFORCEMENT DETAILS (SHEET NO : 03 OF 04)

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-FT/DT--/03	Revision	-

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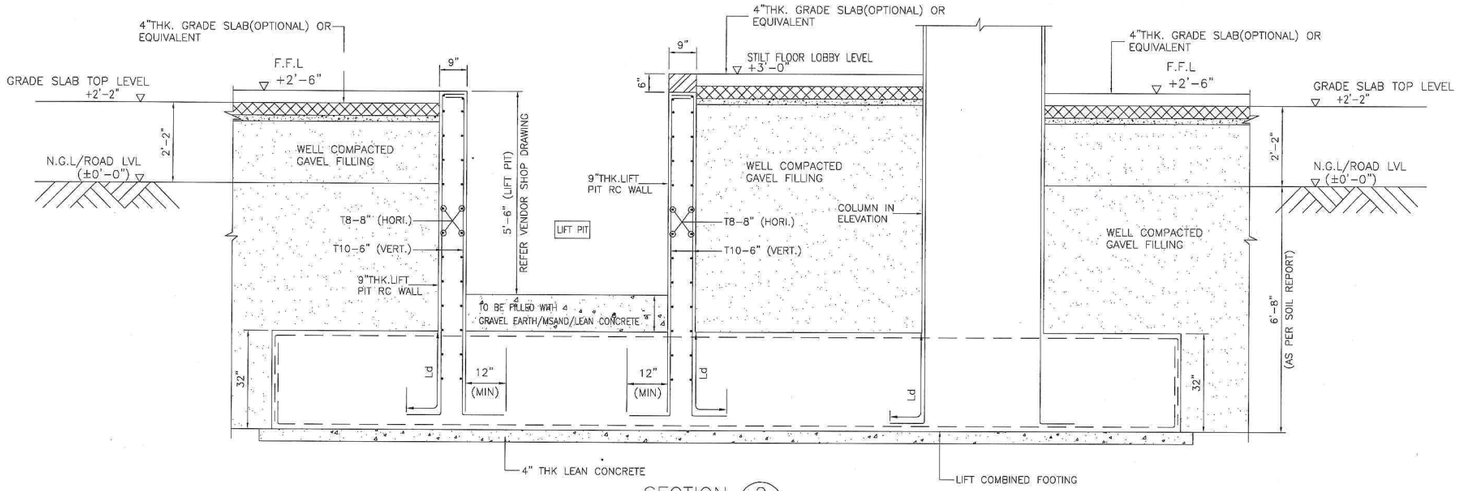


SECTION 1
SCALE 1"=2'-0"



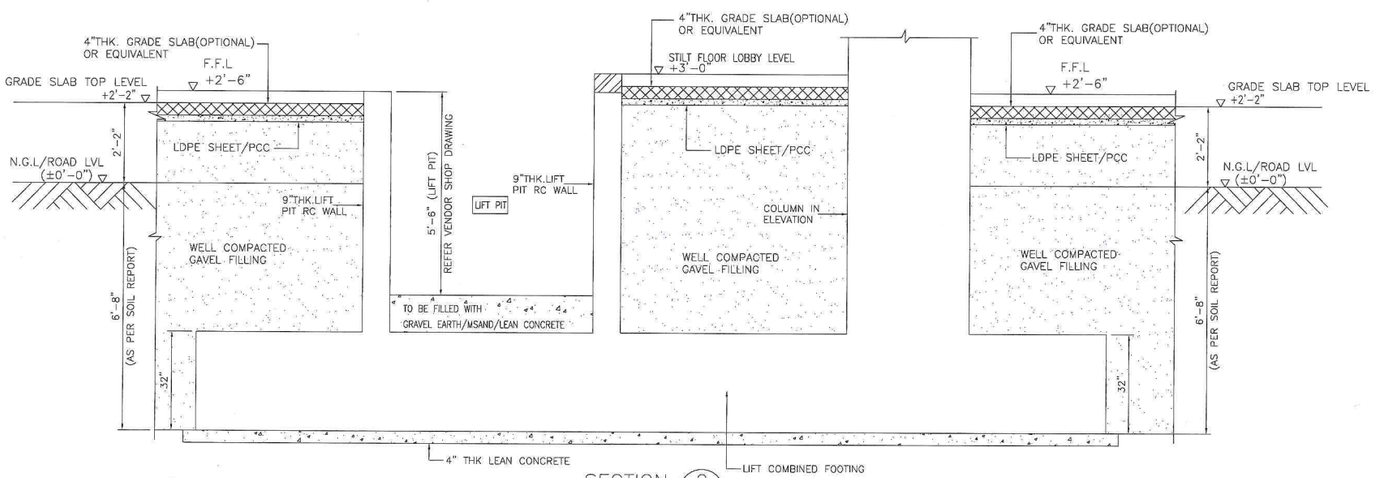
SECTION 1
SCALE 1"=2'-0"

TYPICAL SECTION OF LIFT WELL
SCALE 1/2"=1'0"



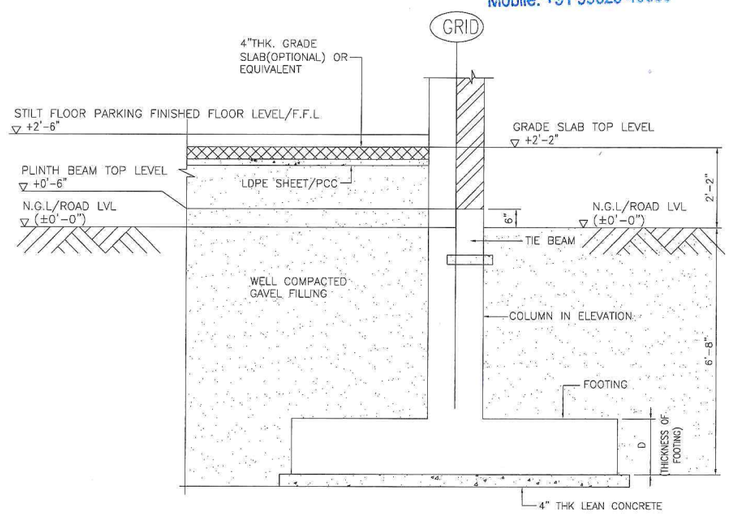
SECTION 2
SCALE 1"=2'-0"

TYPICAL SECTION OF LIFT WELL
SCALE 1/2"=1'0"



SECTION 2
SCALE 1"=2'-0"

TYPICAL SECTION OF LIFT WELL
SCALE 1/2"=1'0"



TYPICAL SECTION OF FOUNDATION
SCALE 1/2"=1'0"

NOTES:

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NO.	AMENDMENTS	BY	DATE
R.0	GOOD FOR CONSTRUCTION	Punitha	15/10/24

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :

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G-3, NANDA APARTMENTS,
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e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

STRUCTURAL

project title

PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

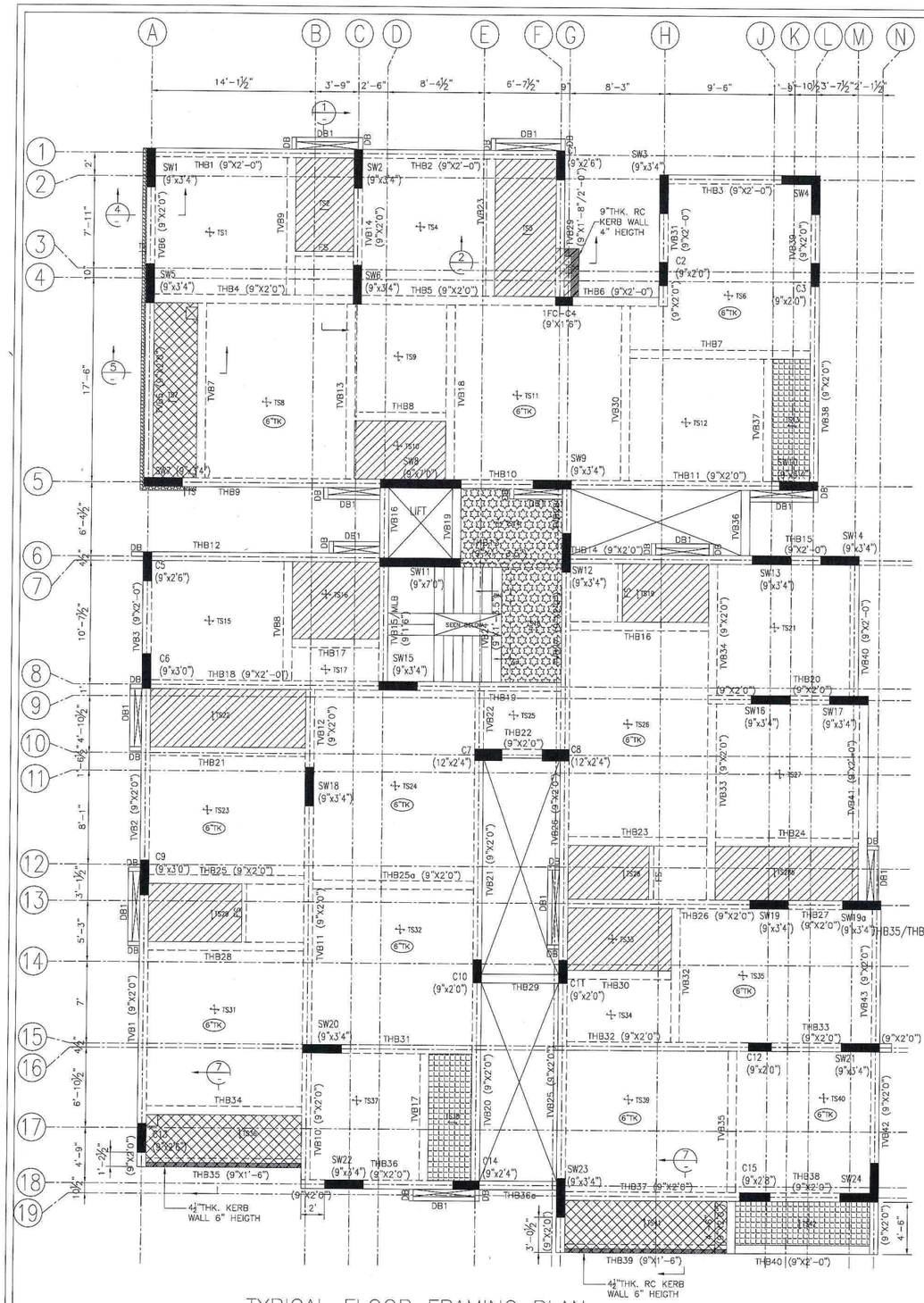
drawing title

TYPICAL LIFT WELL SECTION
(SHEET NO : 04 OF 04)

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-FT/DT--/04	Revision	-

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A. PERAMAIYAN, M.E., (Struct.),
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CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No. SE/GR-I/19/03/026
NEW No. 31 (OLD No.14), BESANT AVENUE ROAD,
ADYAR, CHENNAI - 600 020.
E-Mail: peram@buroengineers.in
Mobile: +91 99625 45630



TYPICAL FLOOR FRAMING PLAN
SCALE 1/8"=1'0"

NOTES
UNLESS OTHERWISE SPECIFIED
1. ALL BEAM ARE TO BE (9"x1'-6") SIZES.
2. ALL SLAB THICKNESS ARE TO BE 5" THICK.
3. GRADE OF CONCRETE M30.
4. GRADE OF STEEL Fe550
5. DUCT BEAM DB (4½"x1'-0")
6. INDICATES 4" SUNKEN AREA (TOILET).
7. INDICATES 6" SUNKEN AREA (UTILITY).
8. INDICATES 6" SUNKEN AREA (BALCONY)
9. INDICATES 1½" SUNKEN AREA
10. INDICATES 2½" SUNKEN AREA (LOBBY).

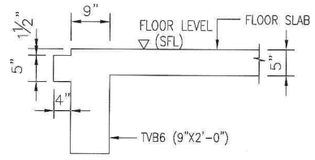
LEGEND
TVB – TYPICAL FLOOR VERTICAL BEAM
THB – TYPICAL FLOOR HORIZONTAL BEAM
TS – TYPICAL FLOOR SLAB
FS – FOLDED SLAB
DB – DUCT BEAM
SFL – STRUCTURAL FLOOR LEVEL

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWING BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ONTHE DIMENSIONS.

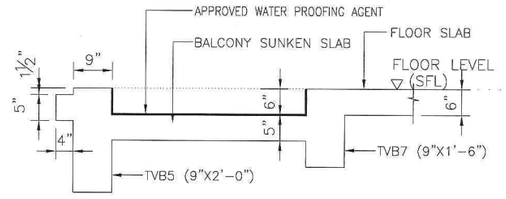
LOAD TABLE:-

LOADINGS	LL kN/m2	SDL kN/m2
BEDROOM, DINING, KITCHEN, LIVING & WARDROBE	2.0	1.2
TOILETS	2.0	1.2 + 2 ⑥
BALCONY	3.0	1.2 + 3 ⑥
UTILITY	3.0	1.2 + 3 ⑥
STAIRCASE & -LOBBY	3.0	1.2

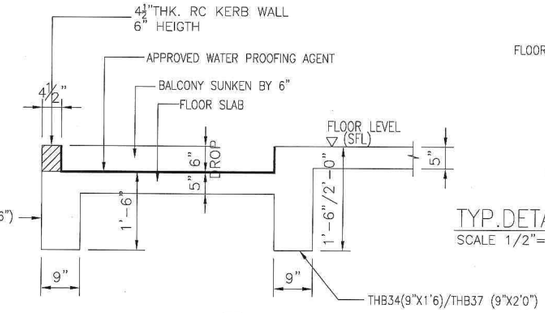
⑥ FILLING LOAD : CONSIDERED BRICK BAT COBA OR ITS EQUIVALENT WITH THE DENSITY NOT MORE THAN 20KN/M³
FLOOR FINISH : LOAD EQUIVALENT TO 50mm HAS BEEN CONSIDERED



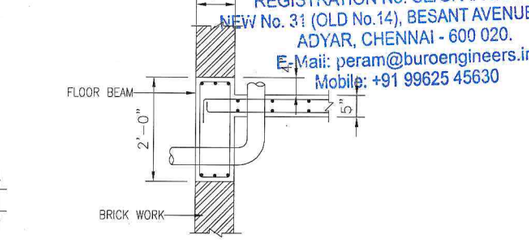
TYP.CANTILEVER PROJECTION DETAIL
SECTION 4
SCALE 1/2"=1'0"



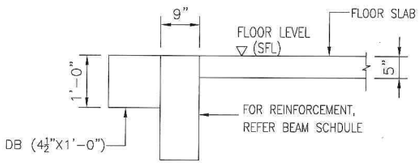
TYP.CANTILEVER PROJECTION DETAILS
SECTION 5
SCALE 1/2"=1'0"



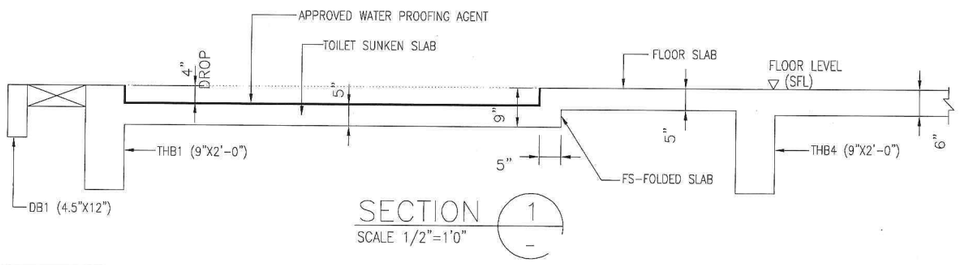
SECTION 7
SCALE 1/2"=1'0"



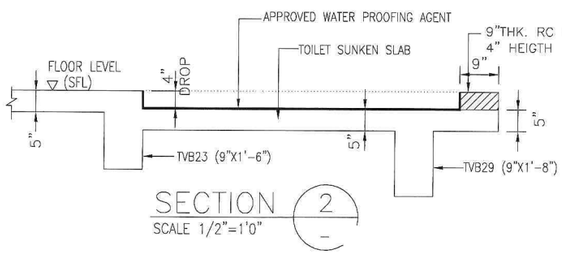
TYP.DETAIL OF PIPE SLEEVE BELOW THE BEAM
SCALE 1/2"=1'0"



TYP. DETAIL FOR DUCT BEAM (DB) (4.5"X1-'0")
SCALE 1/2"=1'0"



SECTION 1
SCALE 1/2"=1'0"



SECTION 2
SCALE 1/2"=1'0"

NOTES:
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NO.	AMENDMENTS	BY	DATE
R.0	GOOD FOR CONSTRUCTION	Punitha	02/05/25

Landscape Consultant :

Project Managers & Quantity Surveyors :

A. PERAMAIYAN, M.E., (Struct.), M.I.E.
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No. SE/GR-I/19/03/026
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GOOD FOR CONSTRUCTION

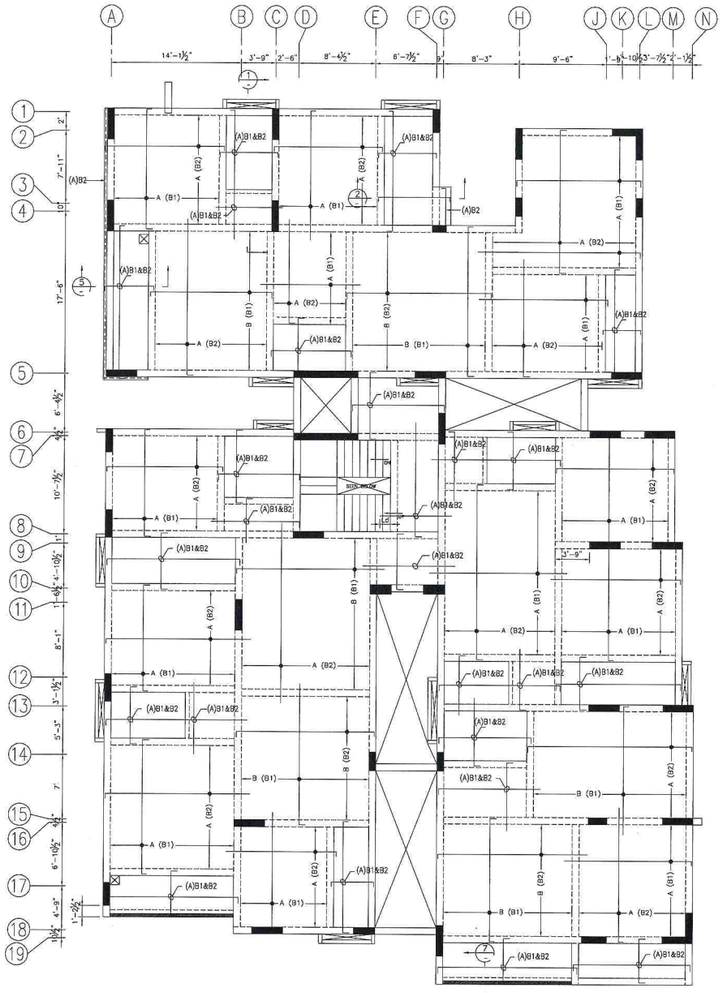
STRUCTURAL

project title
PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

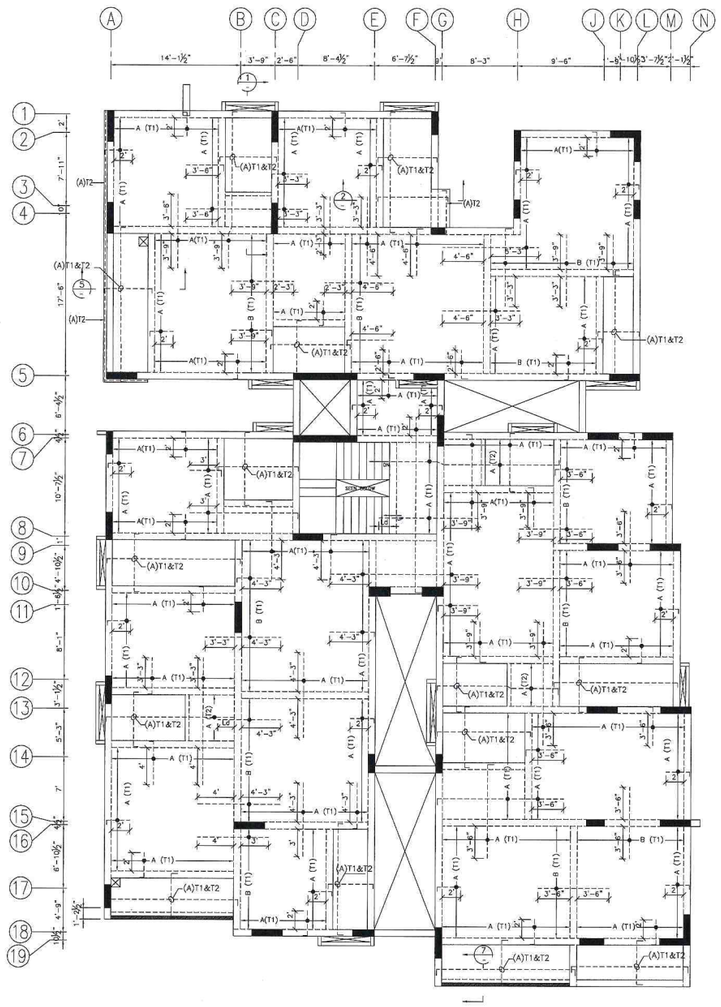
drawing title
TYPICAL FLOOR FRAMING PLAN
(2nd TO 4th FLOOR)

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	TP
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-FPT/--/01	Revision	-

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TYPICAL FLOOR SLAB BOTTOM REINFORCEMENT DETAILS
SCALE 1/8"=1'0"



TYPICAL FLOOR SLAB TOP REINFORCEMENT DETAILS
SCALE 1/8"=1'0"

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NOTES
UNLESS OTHERWISE SPECIFIED

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2. ALL SLAB THICKNESS ARE TO BE 5" THICK.
3. GRADE OF CONCRETE M30.
4. GRADE OF STEEL Fe550
5. DUCT BEAM DB (4.5"x1'-0")
6. INDICATES 4" SUNKEN AREA (TOILET).
7. INDICATES 6" SUNKEN AREA (UTILITY).
8. INDICATES 6" SUNKEN AREA (BALCONY)
9. INDICATES 1.5" SUNKEN AREA

BAR LAYING SEQUENCE



LEGEND:
——BOTTOM REINFORCEMENT

BAR LAYING SEQUENCE



LEGEND:
- - - - -TOP REINFORCEMENT

NOTES
FOR CLARITY PURPOSE DISTRIBUTION BARS NOT SHOWN. ALL DISTRIBUTION BARS ARE TO BE T8-8"(T2 & B2) UNLESS OTHERWISE INDICATED

LOAD TABLE:-

LOADINGS	LL kN/m2	SDL kN/m2
BEDROOM, DINING, KITCHEN, LIVING & WARDROBE	2.0	1.2
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BALCONY	3.0	1.2 + 3*
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STAIRCASE & LOBBY	3.0	1.2

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FLOOR FINISH : LOAD EQUIVALENT TO 50mm HAS BEEN CONSIDERED

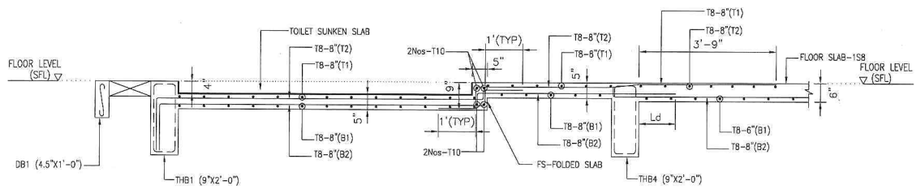
REINFORCEMENT SCHEDULE

MARK	SIZE	SPACING
A	T8	8"
B	T8	6"

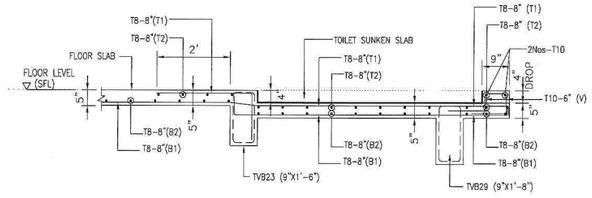
NOTES:

1. ALL DIMENSIONS ARE IN FEET AND INCHES
2. FOR GENERAL NOTES REFER TO DWG. NO. BEI730_S-/NT/--/01.
3. FOR STANDARD DETAILS REFER TO DWG. NO. BEI730_S-/SD/--/01.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN, ARCHITECTURAL AND ALL OTHER RELEVANT SERVICES DRAWINGS.
5. GRADE OF CONCRETE GRADE: M30
6. STEEL GRADE: Fe550 CONFORMING TO IS:1786-2008.
7. CLEAR COVER FOR FOOTING 50mm, COLUMN-40mm, SLAB-25mm, BEAM-30mm, RC WALL -30mm U.G.SUMP, STP BASE SLAB AND TANK RC WALLS - 40mm
8. UNLESS OTHERWISE SPECIFIED, LAP/DEVEPMENT LENGTH SHALL NOT BE LESS THAN 50 X DIA OF BAR
9. SEISMIC LOAD HAS BEEN CONSIDECED AS PER IS:1893-2002 WITH THE SEISMIC ZONE III. DUCTILE DETAILING CARRIED OUT AS PER THE STIPULATIONS MADE IN IS:13920-1993
10. STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH I.S.456-2000, NBC (SP7-1983) AND RELAVANT INDIAN CODE STIPULATIONS
11. ONUS OF ADVANCE LIES WITH CONTRACTOR/ PROMOTER / BUILDER / OWNER.

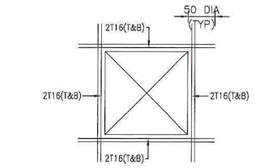
FOUNDATION AND COLUMN DESIGNED FOR STILT + 5 FLOORS+ROOF USING CONVENTIONAL BRICKWORK FOR BOTH INTERNAL AND EXTERNAL FILLER WALLS



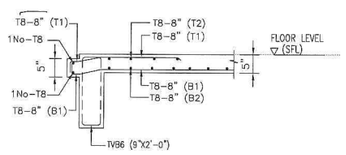
SECTION 1
SCALE 1/2"=1'0"



SECTION 2
SCALE 1/2"=1'0"

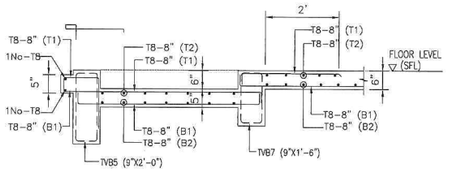


TYPICAL TRIMMER BAR DETAILS AROUND CUT OUT IN FLOOR SLAB MAX (1'-0" X 1'-0")
SCALE N.T.S

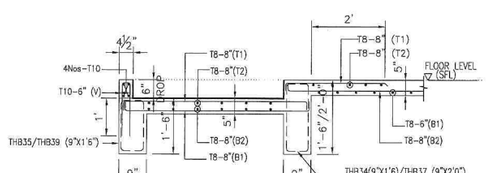


TYP.CANTILEVER PROJECTION

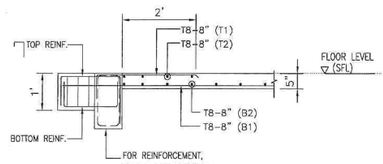
SECTION 4
SCALE 1/2"=1'0"



SECTION 5
SCALE 1/2"=1'0"



SECTION 7
SCALE 1/2"=1'0"



TYP.REINFORCEMENT DETAIL FOR DB (4.5"X1-'0")
SCALE 1/2"=1'0"

A. PERAMAIYAN, M.E., (Struct.), M.I.E.
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No. SE/GR-I/19/03/026
NEW No. 31 (OLD No.14), BESANT AVENUE ROAD
ADYAR, CHENNAI - 600 020.
E-Mail: peram@buroengineers.in
Mobile: +91 99625 45630

NO.	AMENDMENTS	BY	DATE
R.0	GOOD FOR CONSTRUCTION	Punitha	30/04/25

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :
M/s. SALMA CONSTRUCTION

Architect :
ANSARI ARCHITECTS,
G-3, NANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T-NAGAR,CHENNAI-17.
PH - 28342879 ,28343402

Civil & Structural Engineer :
BURO ENGINEERS (I) PRIVATE LTD.
Civil & Structural Consultants
19, BRINDHAVAN STREET, 2nd FLOOR, MYLAPORE
CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

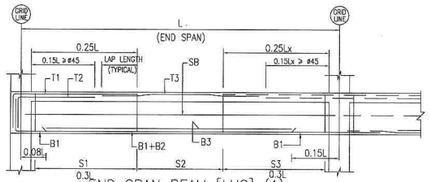
STRUCTURAL

project title
PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

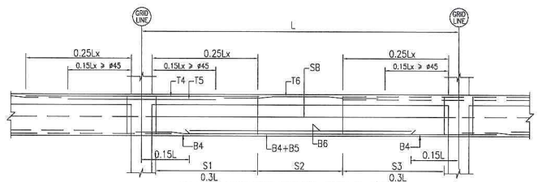
drawing title
TYPICAL FLOOR SLAB REINFORCEMENT DETAIL (TOP AND BOTTOM)

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-SBT/--/01	Revision	-

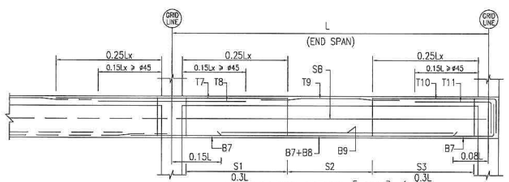
THIS DRAWING IS COPYRIGHT



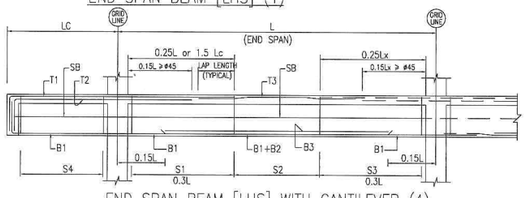
END SPAN BEAM [LHS] (1)



INTERMEDIATE SPAN BEAM (2)



END SPAN BEAM [RHS] (3)

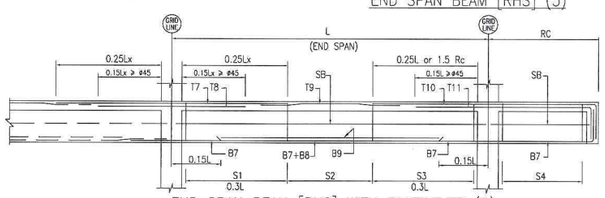


END SPAN BEAM [LHS] WITH CANTILEVER (4)

LEGEND

L — —LENGTH OF SPAN UNDER CONSIDERATION
La— —LENGTH OF ADJACENT SPAN TO THE SPAN UNDER CONSIDERATION
Lc— —LENGTH OF LEFT END CANTILEVER
Rc— —LENGTH OF RIGHT END CANTILEVER
(1)— —CATEGORY

Lx = Length of span under consideration or Length of adjacent span whichever is greater



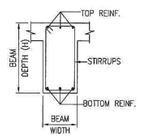
END SPAN BEAM [RHS] WITH CANTILEVER (5)

SHEET-01 OF 03

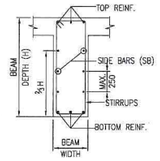
LOCATION			SIZE		SPAN			REINFORCEMENT																			SIDE BAR EACH FACE (EF)	STIRRUPS					REMARKS
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN														
								T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	
THB1	1	–	9"	2'–0"	–	17'–10.5"	–	2T20	–	2T20	2T20	–	2T16 ⑧	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–6"	2T8–4"	–	1	
THB2	3	–	9"	2'–0"	–	17'–6"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T20	2T20	2T20	–	2T20	–	2T16 ⑧	–	2T8–4"	2T8–6"	2T8–4"	–	1	
THB4	1	–	9"	2'–0"	–	17'–10.5"	–	2T25	–	2T25	2T25	–	2T16 ⑧	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–6"	2T8–4"	–	1	
THB5	2	–	9"	2'–0"	–	17'–6"	–	–	–	–	–	–	–	2T25	2T20	2T25	2T25	–	2T16 ⑧	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–6"	2T8–4"	–	1	
THB6	3	–	9"	2'–0"	–	9'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T20	2T25	2T25	–	2T25	–	–	–	2T8–4"	2T8–6"	2T8–4"	–	1	
THB9	1	–	9"	1'–6"	–	21'–0"	–	2T25	2T25	2T25	2T25	–	2T12 ⑧	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–4"	2T8–4"	–	1	
THB10	2	–	9"	1'–6"	–	9'–6"	–	–	–	–	–	–	–	2T25	2T25	2T25	2T25	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–4"	2T8–4"	–	1	
THB11	3	–	9"	2'–0"	–	21'–4.5"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T25	2T25	2T25	2T20	2T25	–	2T16 ⑧	–	2T8–4"	2T8–4"	2T8–4"	–	1	
THB14	1	–	9"	2'–0"	–	17'–9"	–	2T20	–	2T20	2T25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–4"	2T8–4"	–	1	
THB15	3	–	9"	2'–0"	–	6'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T25	2T20	2T20	–	2T25	–	–	–	2T8–4"	2T8–4"	2T8–4"	–	1	
THB18	1	–	9"	2'–0"	–	21'–9"	–	2T25	–	2T25	2T25	–	2T16 ⑧	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10–4"	2T10–6"	2T10–4"	–	1	
THB19	3	–	9"	1'–6"	–	14'–6"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T25	2T25	2T25	–	2T25	–	–	–	2T10–4"	2T10–8"	2T10–4"	–	1	
THB23	1	–	9"	1'–6"	–	12'–9"	–	2T20	–	2T20	2T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
THB24	3	–	9"	1'–6"	–	14'–6"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T12	2T20	2T20	–	2T20	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
THB26	1	–	9"	2'–0"	–	17'–3"	–	2T25	–	2T25	2T25	–	2T25 ⑧	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T12–4"	2T12–6"	2T12–4"	–	1	
THB27	3	–	9"	2'–0"	–	8'–9"	2'–9"	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T25	2T25	2T25	–	2T25	–	–	–	2T12–4"	2T12–6"	2T12–4"	–	1	
THB32	1	–	9"	2'–0"	–	17'–3"	–	2T25	–	2T25	2T25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10–4"	2T10–6"	2T10–4"	–	1	
THB33	5	–	9"	2'–0"	–	8'–9"	2'–9"	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T20	2T25	2T25	–	2T25	–	–	–	2T10–4"	2T10–4"	2T10–4"	2T10–4"	1	
THB36	4	–	9"	2'–0"	3'–6"	10'–6"	–	2T20	2T16	2T20	2T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10–4"	2T10–4"	2T10–4"	2T10–4"	1	
THB36a	3	–	9"	1'–6"	–	7'–6"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	–	2T20	2T20	–	2T20	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
THB37	1	–	9"	2'–0"	–	17'–3"	–	2T20	–	2T20	2T20	–	2T16 ⑧	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T12–4"	2T12–6"	2T12–4"	–	1	
THB38	3	–	9"	2'–0"	–	8'–9"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T25	2T20	2T20	–	2T20	–	–	–	2T12–4"	2T12–4"	2T12–4"	–	1	
THB39	1	–	9"	1'–6"	–	14'–9"	–	2T16	–	2T16	2T16	–	2T12 ⑧	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
THB40	3	–	9"	2'–0"	–	12'–4.5"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T16	2T12	2T16	2T16	–	2T16	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
TVB1	4	–	9"	2'–0"	2'–6"	22'–4.5"	–	2T25	2T20	2T25	2T25	–	2T16 ⑧	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10–4"	2T10–4"	2T10–4"	2T10–4"	1	
TVB2	2	–	9"	2'–0"	–	17'–0"	–	–	–	–	–	–	–	2T25	2T20	2T25	2T25	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
TVB3	3	–	9"	1'–6"	–	9'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	–	2T25	2T25	–	2T25	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
TVB5	1	–	9"	2'–0"	–	17'–9"	–	2T25	–	2T25	2T25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
TVB6	3	–	9"	2'–0"	–	10'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T16	2T25	2T25	2T16	2T25	–	–	–	2T10–4"	2T10–6"	2T10–4"	–	1	
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN								BAR SIDE	STIRRUPS					
								REINFORCEMENT																										

NOTES :

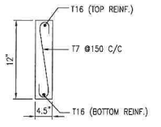
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
2. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
3. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 900c/c BETWEEN EACH LAYER OF MAIN STEEL.
4. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
5. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM
6. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS
7. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE



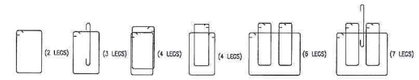
TYP. BEAM SECTION



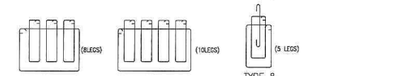
TYP. SIDE BARS DETAIL FOR BEAM DEPTH > 750



DUCT BEAM(DB)4.5"x12"



TYPE 1 TYPE 1a TYPE 2 TYPE 2a TYPE 3 TYPE 3a

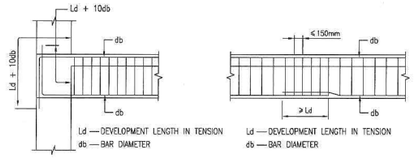


TYPE 4 TYPE 6 TYPE 8



TORSIONAL LINKS TYPE 5 TORSIONAL LINKS TYPE 5a TORSIONAL LINKS TYPE 5b TORSIONAL LINKS TYPE 5c TORSIONAL LINKS TYPE 7

STIRRUPS TYPE

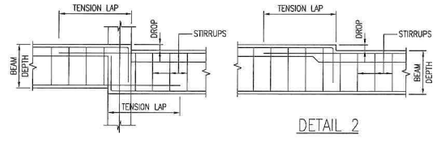


ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

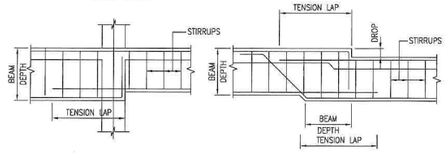
NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN

LAP/SPLICE IN BEAM

NOTE:
NOT MORE THAN 50 PERCENT OF THE BARS SHALL BE SPLICED AT ONE SECTION



DETAIL 1 DETAIL 2



DETAIL 3 DETAIL 4

Wherever the drop is less than or equivalent to 50
The reinforcement bars can be bent at 1:10 and continued

⑧ INDICATES 4 NO 2nd LAYER FOR FULL LENGTH OF BEAM

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3. FOR STANDARD DETAILS REFER TO DWG. NO. BEI730_S-/SD/--/01.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN, ARCHITECTURAL AND ALL OTHER RELEVANT SERVICES DRAWINGS.
5. GRADE OF CONCRETE GRADE: M30
6. STEEL GRADE: Fe550 CONFORMING TO IS:1786–2008.
7. CLEAR COVER FOR FOOTING 50mm, COLUMN–40mm, SLAB–25mm, BEAM–30mm, RC WALL –30mm U.G.SUMP, STP BASE SLAB AND TANK RC WALLS – 40mm
8. UNLESS OTHERWISE SPECIFIED, LAP/DEVEPMENT LENGTH SHALL NOT BE LESS THAN 50 X DIA OF BAR
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Project Managers & Quantity Surveyors :

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Client :

M/s. SALMA CONSTRUCTION

Architect :

ANSARI ARCHITECTS,
G–3, NANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T–NAGAR,CHENNAI–17.
PH – 28343879 ,28343402

Civil & Structural Engineer :

BURO ENGINEERS (I) PRIVATE LTD.
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CHENNAI 600004 INDIA TEL: 42658573/74
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GOOD FOR CONSTRUCTION

STRUCTURAL

project title

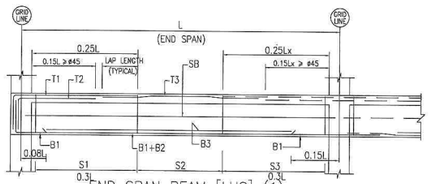
PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

drawing title

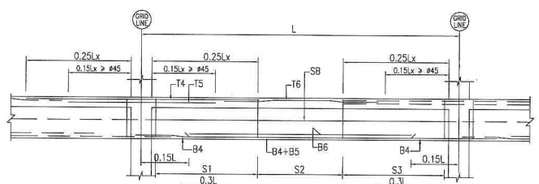
TYPICAL FLOOR BEAM DETAILS (2nd TO 4th FLOOR) SHEET :1 OF 3

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S–BM/SHT/–/01	Revision	–

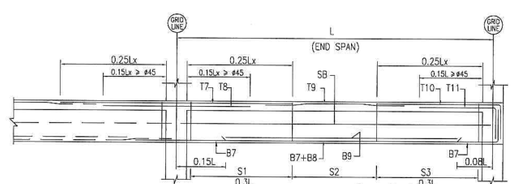
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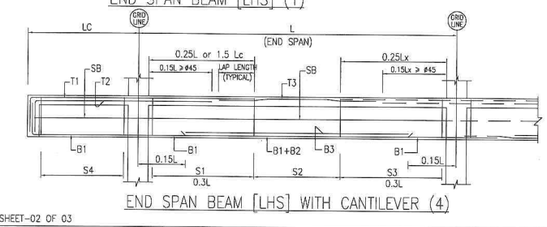
END SPAN BEAM [LHS] (1)



INTERMEDIATE SPAN BEAM (2)



END SPAN BEAM [RHS] (3)

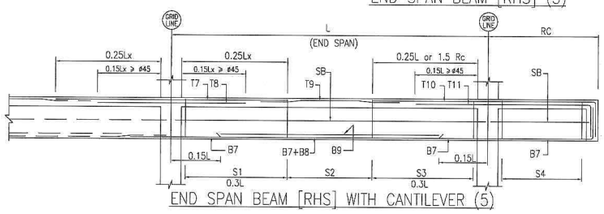


END SPAN BEAM [LHS] WITH CANTILEVER (4)

LEGEND

L — —LENGTH OF SPAN UNDER CONSIDERATION
La— —LENGTH OF ADJACENT SPAN TO THE SPAN UNDER CONSIDERATION
Lc — —LENGTH OF LEFT END CANTILEVER
Rc — —LENGTH OF RIGHT END CANTILEVER
(1)— —CATEGORY

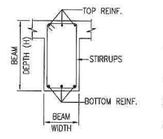
Lx = Length of span under consideration or Length of adjacent span whichever is greater



END SPAN BEAM [RHS] WITH CANTILEVER (5)

SHEET-02 OF 03

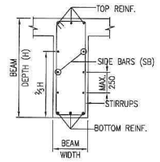
LOCATION			SIZE		SPAN			REINFORCEMENT																						SIDE BAR EACH FACE (EF)	STIRRUPS					REMARKS
								LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN																
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	
TVB10	1	–	9"	2'-0"	–	11'-9"	–	2T25	–	2T25	2T25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
TVB11	2	–	9"	2'-0"	–	22'-6"	–	–	–	–	–	–	–	2T25	2T20	2T25	2T25	–	2T25 ⑥	–	–	–	–	–	–	–	–	–	2T12-4"	2T12-6"	2T12-4"	–	1	
TVB12	3	–	9"	2'-0"	–	8'-9"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T25	2T25	2T25	–	2T25	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
TVB15	1	–	9"	1'-6"	–	10'-9"	–	2T16	–	2T16	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8-4"	2T8-6"	2T8-4"	–	1	
TVB16	3	–	9"	1'-6"	–	6'-9"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T16	2T12	2T16	2T16	–	2T16	–	–	–	2T8-4"	2T8-6"	2T8-4"	–	1	
TVB20	1	–	9"	2'-0"	–	18'-4.5"	–	2T25	–	2T25	2T25	–	2T12 ⑥	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
TVB21	2	–	9"	2'-0"	–	18'-9"	–	–	–	–	–	–	–	2T25	2T16	2T25	2T25	–	2T12 ⑥	–	–	–	–	–	–	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
TVB22	3	–	9"	1'-6"	–	5'-9"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	–	2T25	2T25	–	2T25	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
TVB25	4	–	9"	2'-0"	4'-9"	19'-6"	–	2T25	2T20	2T25	2T25	–	2T12 ⑥	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T12-4"	2T12-6"	2T12-4"	2T12-4"	1	
TVB26	2	–	9"	2'-0"	–	18'-9"	–	–	–	–	–	–	–	2T25	2T20	2T25	2T25	–	2T12 ⑥	–	–	–	–	–	–	–	–	–	2T12-4"	2T12-6"	2T12-4"	–	1	
TVB27	2	–	9"	2'-0"	–	17'-6"	–	–	–	–	–	–	–	2T25	2T20	2T25	2T25	–	2T12 ⑥	–	–	–	–	–	–	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
TVB28	3	–	9"	1'-6"	–	5'-9"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T20	2T25	2T25	–	2T25	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
TVB33	1	–	9"	2'-0"	–	17'-9"	–	2T20	2T20	2T20	2T25	–	2T20 ⑥	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8-4"	2T8-4"	2T8-4"	–	1	
TVB34	3	–	9"	2'-0"	–	12'-0"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T25	2T20	2T20	–	2T20	–	–	–	2T8-4"	2T6-4"	2T8-4"	–	1	
TVB38	1	–	9"	2'-0"	–	18'-3"	–	2T20	–	2T20	2T20	–	2T16 ⑥	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
TVB39	3	–	9"	2'-0"	–	8'-3"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T20	2T20	2T20	–	2T20	–	–	–	2T10-4"	2T10-4"	2T10-4"	–	1	
TVB42	4	–	9"	2'-0"	5'-9"	12'-0"	–	2T20	2T20	2T20	2T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10-4"	2T10-4"	2T10-4"	2T10-4"	1	
TVB43	3	–	9"	2'-0"	–	12'-3"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T16	2T20	2T20	–	2T20	–	–	–	2T8-4"	2T8-8"	2T8-4"	–	1	
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN								BAR SIDE	STIRRUPS					
								REINFORCEMENT																											



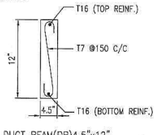
TYP. BEAM SECTION

NOTES :

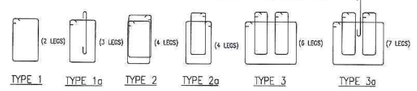
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
2. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
3. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 900c/c BETWEEN EACH LAYER OF MAIN STEEL.
4. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
5. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM
6. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS
7. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE



TYP. SIDE BARS DETAIL FOR BEAM DEPTH > 750



DUCT BEAM(DB)4.5"x12"

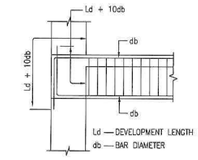


TYPE 1 TYPE 1a TYPE 2 TYPE 2a TYPE 3 TYPE 3a

STIRRUPS TYPE

Wherever the drop is less than or equivalent to 50
The reinforcement bars can be bent at 1:10 and continued

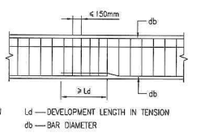
⑥ INDICATES IN 2ND LAYER FOR FULL LENGTH OF BEAM



Ld — DEVELOPMENT LENGTH IN TENSION
db — BAR DIAMETER

ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN



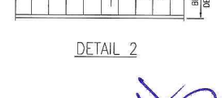
Ld — DEVELOPMENT LENGTH IN TENSION
db — BAR DIAMETER

LAP/SPLICE IN BEAM

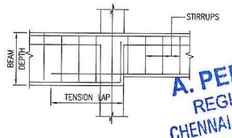
NOTE:
NOT MORE THAN 50 PERCENT OF THE BARS SHALL BE SPLICED AT ONE SECTION



DETAIL 1



DETAIL 2



DETAIL 3

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GOOD FOR CONSTRUCTION

STRUCTURAL

project title

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drawing title

TYPICAL FLOOR BEAM DETAILS (2nd TO 4th FLOOR) SHEET :2 OF 3

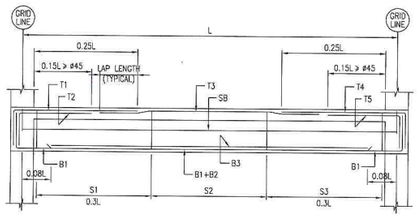
scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-BM/SHT/--/02	Revision	–

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LOCATION			SIZE		SPAN			REINFORCEMENT								SIDE BAR EACH FACE (EF)	STIRRUPS					REMARKS
								SPAN														
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	T1	T2	T3	T4	T5	B1	B2	B3	SB	S1	S2	S3	S4	TYPE	
THB3	1	–	9"	2'–0"	–	11'–9"	–	2T20	–	2T20	2T20	–	2T20	–	–	–	2T8–4"	2T8–6"	2T8–4"	–	1	
THB7	1	–	9"	1'–6"	–	16'–6"	–	2T20	–	2T20	2T20	–	2T25	–	2T16 ④	–	2T8–4"	2T8–6"	2T8–4"	–	1	
THB8	1	–	9"	1'–6"	–	8'–3"	–	2T12	–	2T12	2T12	–	2T16	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
THB12	1	–	9"	1'–6"	–	21'–9"	–	2T25	2T16	2T25	2T25	2T16	2T25	–	2T20 ④	–	2T10–4"	2T10–4"	2T10–4"	–	1	
THB13	1	–	9"	1'–3.5"	–	9'–10.5"	–	2T20	2T20	2T20	2T20	2T16	2T20	–	2T16 ④	–	2T10–4"	2T10–5"	2T10–4"	–	1	
THB16	1	–	9"	1'–6"	–	12'–9"	–	2T16	–	2T16	2T16	–	2T20	–	–	–	2T8–4"	2T8–6"	2T8–4"	–	1	
THB17	1	–	9"	1'–6"	–	8'–3"	–	2T16	–	2T16	2T16	–	2T16	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
THB20	2	–	9"	2'–0"	5'–3"	6'–9"	–	2T25	2T25	2T25	2T25	–	2T25	–	–	–	2T12–4"	2T12–5"	2T12–4"	2T12–4"	1	
THB21	1	–	9"	1'–6"	–	14'–1.5"	–	2T20	–	2T20	2T20	2T16	2T20	–	2T16 ④	–	2T8–4"	2T8–6"	2T8–4"	–	1	SIMILAR BEAM THB28
THB22	1	–	9"	2'–0"	–	5'–9"	–	2T20	–	2T20	2T20	–	2T20	–	–	–	2T10–4"	2T10–6"	2T10–4"	–	1	
THB25	1	–	9"	2'–0"	–	14'–1.5"	–	2T20	–	2T20	2T20	–	2T20	–	2T16 ④	–	2T10–4"	2T10–6"	2T10–4"		1	
THB25a	1	–	9"	2'–0"	–	14'–7.5"	–	2T20	–	2T20	2T20	–	2T20	–	2T16 ④	–	2T8–4"	2T8–6"	2T8–4"		1	
THB29	1	–	9"	1'–6"	–	5'–9"	–	2T20	–	2T20	2T20	–	2T20	–	–	–	2T10–4"	2T10–6"	2T10–4"	–	1	
THB30	1	–	9"	1'–6"	–	9'–9"	–	2T16	–	2T16	2T16	–	2T20	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
THB31	1	–	9"	1'–6"	–	13'–6"	–	2T20	2T20	2T20	2T20	–	2T20	–	2T16 ④	–	2T8–4"	2T8–4"	2T8–4"	–	1	
THB34	1	–	9"	1'–6"	–	14'–3"	–	2T20	2T16	2T20	2T20	–	2T20	–	2T16 ④	–	2T10–4"	2T10–6"	2T10–4"	–	1	
THB35	1	–	9"	1'–6"	–	14'–3"	–	2T20	–	2T20	2T20	–	2T20	–	2T12 ④	–	2T8–4"	2T8–8"	2T8–4"	–	1	
TVB7	1	–	9"	1'–6"	–	15'–9"	–	2T20	–	2T20	2T20	–	2T20	–	2T16 ④	–	2T8–4"	2T8–4"	2T8–4"	–	1	
TVB8	1	–	9"	1'–6"	–	11'–0"	–	2T16	–	2T16	2T16	–	2T20	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
TVB9	1	–	9"	1'–6"	–	12'–6"	–	2T16	–	2T16	2T16	–	2T20	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
1VB13	1	–	9"	1'–6"	–	17'–0"	–	2T25	–	2T25	2T25	–	2T25	–	2T20 ④	–	2T10–4"	2T10–6"	2T10–4"	–	1	
1VB14	1	–	9"	2'–0"	–	9'–11"	–	2T25	–	2T25	2T25	–	2T25	–	2T20 ④	–	2T12–4"	2T12–4"	2T12–4"	–	1	
1VB17	1	–	9"	1'–6"	–	11'–9"	–	2T16	–	2T16	2T16	–	2T20	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
TVB18	1	–	9"	1'–6"	–	15'–9"	–	2T25	2T12	2T25	2T25	–	2T25	–	2T16 ④	–	2T8–4"	2T8–6"	2T8–4"	–	1	
TVB19	1	–	9"	1'–6"	–	6'–9"	–	2T16	–	2T16	2T16	–	2T16	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
TVB23	1	–	9"	1'–6"	–	12'–6"	–	2T16	–	2T16	2T16	–	2T20	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
TVB24	1	–	9"	1'–3.5"	–	10'–7.5"	–	2T16	–	2T16	2T16	–	2T20	–	2T20 ④	–	2T8–4"	2T8–6"	2T8–4"	–	1	
TVB29	1	–	9"	1'–8"/2'–0"	–	11'–9"	–	2T20	–	2T20	2T20	–	2T25	–	–	–	2T10–4"	2T10–4"	2T10–4"	–	1	REFER DETAIL – 2
TVB30	1	–	9"	1'–6"	–	15'–9"	–	2T20	–	2T20	2T20	–	2T25	–	2T20 ④	–	2T10–4"	2T10–6"	2T10–4"	–	1	
TVB31	2	–	9"	2'–0"	2'–9"	6'–9"	–	2T20	2T16	2T20	2T20	–	2T20	–	–	–	2T10–4"	2T10–6"	2T10–4"	2T10–4"	1	
TVB32	1	–	9"	1'–6"	–	12'–3"	–	2T16	–	2T16	2T16	–	2T20	–	2T12 ④	–	2T8–4"	2T8–6"	2T8–4"	–	1	
TVB35	2	–	9"	2'–0"	4'–9"	12'–9"	–	2T25	2T16	2T25	2T25	2T25	2T25	–	–	–	2T12–4"	2T12–4"	2T12–4"	2T12–4"	1	
TVB36	1	–	9"	1'–6"	–	6'–6"	–	2T12	–	2T12	2T12	–	2T16	–	–	–	2T8–4"	2T8–4"	2T8–4"	–	1	
TVB37	1	–	9"	1'–6"	–	11'–3"	–	2T20	–	2T20	2T20	–	2T20	–	–	–	2T8–4"	2T8–6"	2T8–4"	–	1	
TVB40	1	–	9"	2'–0"	–	12'–0"	–	2T20	–	2T20	2T20	–	2T20	–	–	–	2T8–4"	2T8–6"	2T8–4"	–	1	
TVB41	1	–	9"	2'–0"	–	17'–9"	–	2T25	–	2T25	2T25	–	2T25	–	–	–	2T8–4"	2T8–6"	2T8–4"	–	1	
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	T4	T5	B1	B2	B3	BAR SIDE	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			REINFORCEMENT									STIRRUPS					

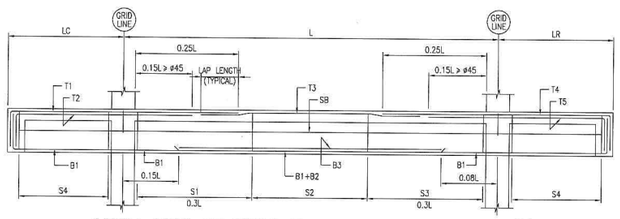
NOTES :

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
2. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
3. SPACER BARS TO BE T25 OR MANY BAR SIZE (WHICHEVER IS GREATER) AT 900c/c BETWEEN EACH LAYER OF MAIN STEEL.
4. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
5. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM.
6. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS
7. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE

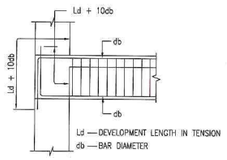


TYPICAL DETAIL OF SINGLE SPAN BEAM (1)

L —— LENGTH OF SPAN UNDER CONSIDERATION
LC —— LENGTH OF LEFT END CANTILEVER
RC —— LENGTH OF RIGHT END CANTILEVER
(1) —— CATEGORY

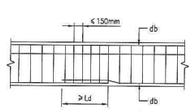


TYPICAL DETAIL OF SINGLE SPAN BEAM WITH CANTILEVERS (2)



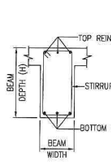
ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN

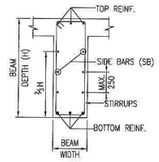


LAP/SPLICE IN BEAM

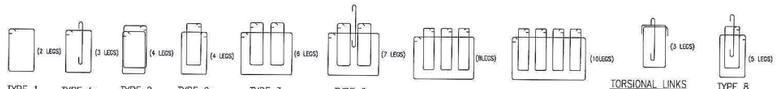
NOTE:
NOT MORE THAN 50 PERCENT OF THE BARS SHALL BE SPLICED AT ONE SECTION



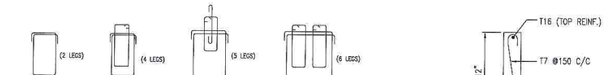
TYP. BEAM SECTION



TYP. SIDE BARS DETAIL FOR BEAM DEPTH > 750

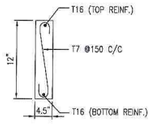


TYPE 1 TYPE 1a TYPE 2 TYPE 2a TYPE 3 TYPE 3a TYPE 4 TYPE 6 TORSIONAL LINKS TYPE 7 TYPE 8

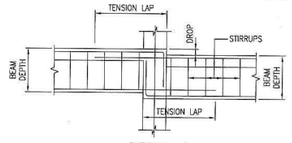


TORSIONAL LINKS TYPE 5 TORSIONAL LINKS TYPE 5a TORSIONAL LINKS TYPE 5b TORSIONAL LINKS TYPE 5c

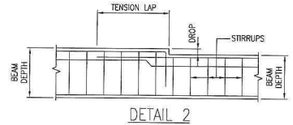
STIRRUPS TYPE



DUCT BEAM(DB)4.5"x12"

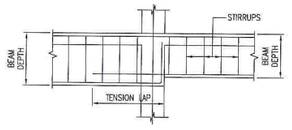


DETAIL 1

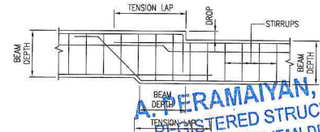


DETAIL 2

Wherever the drop is less than or equivalent to 50
The reinforcement bars can be bent at 1:10 and continued



DETAIL 3



④ INDICATES IN 2ND LAYER FOR FULL LENGTH OF BEAM

NOTES:

1. ALL DIMENSIONS ARE IN FEET AND INCHES
2. FOR GENERAL NOTES REFER TO DWG. NO. BEI730_S-/NT/--/01.
3. FOR STANDARD DETAILS REFER TO DWG. NO. BEI730_S-/SD/--/01.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN, ARCHITECTURAL AND ALL OTHER RELEVANT SERVICES DRAWINGS.
5. GRADE OF CONCRETE GRADE: M30
6. STEEL GRADE: Fe550 CONFORMING TO IS:1786–2008.
7. CLEAR COVER FOR FOOTING 50mm, COLUMN–40mm, SLAB–25mm, BEAM–30mm, RC WALL –30mm U.G.SUMP, STP BASE SLAB AND TANK RC WALLS – 40mm
8. UNLESS OTHERWISE SPECIFIED, LAP/DEVEPMENT LENGTH SHALL NOT BE LESS THAN 50 X DIA OF BAR
9. SEISMIC LOAD HAS BEEN CONSIDECED AS PER IS:1893–2002 WITH THE SEISMIC ZONE III. DUCTILE DETAILING CARRIED OUT AS PER THE STIPULATIONS MADE IN IS:13920–1993
10. STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH I.S.456–2000, NBC (SP7–1983) AND RELAVANT INDIAN CODE STIPULATIONS
11. ONUS OF ADVANCE LIES WITH CONTRACTOR/ PROMOTER / BUILDER / OWNER.

FOUNDATION AND COLUMN DESIGNED FOR STILT + 5 FLOORS+ROOF USING CONVENTIONAL BRICKWORK FOR BOTH INTERNAL AND EXTERNAL FILLER WALLS

NO.	AMENDMENTS	BY	DATE
R.0	GOOD FOR CONSTRUCTION	Punitha	02/05/25

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :

M/s. SALMA CONSTRUCTION

Architect :

ANSARI ARCHITECTS,
G–3, NANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T–NAGAR,CHENNAI–17.
PH – 28342879 ,28343402

Civil & Structural Engineer :

BURO ENGINEERS (I) PRIVATE LTD.
Civil & Structural Consultants
19, BRINDHAVAN STREET, 2nd FLOOR, MYLAPORE
CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

STRUCTURAL

project title

PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

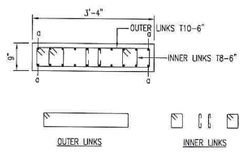
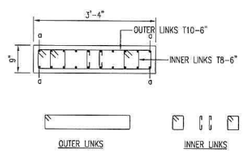
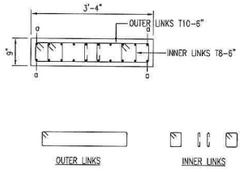
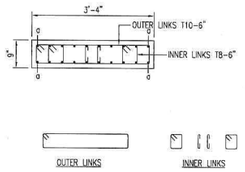
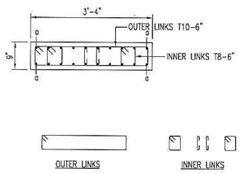
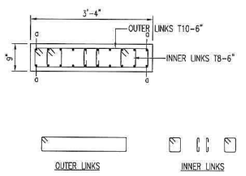
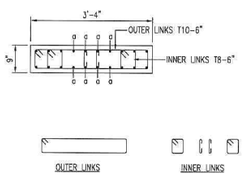
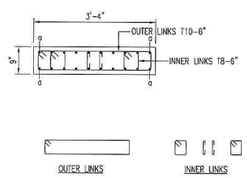
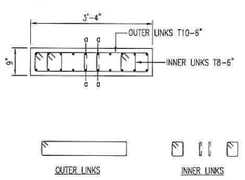
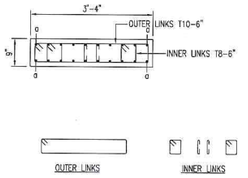
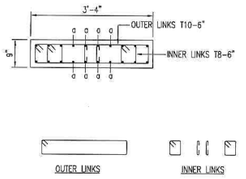
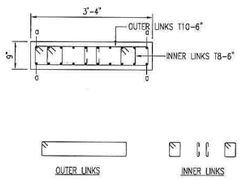
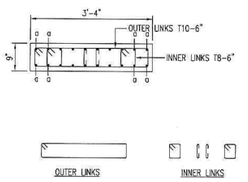
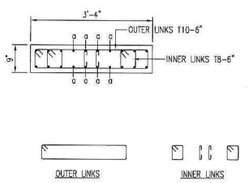
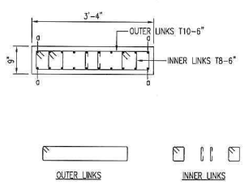
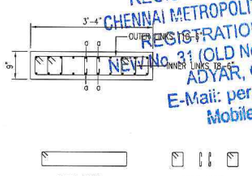
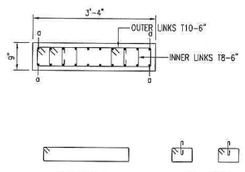
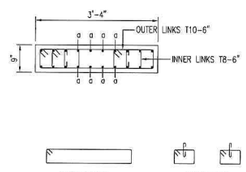
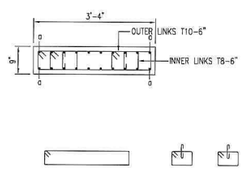
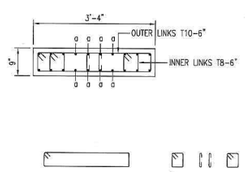
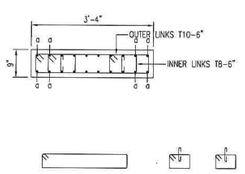
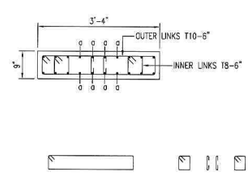
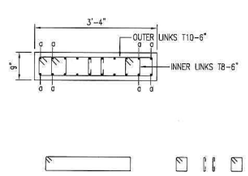
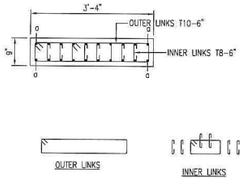
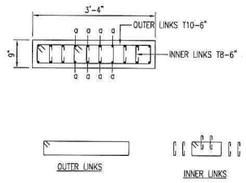
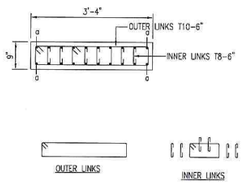
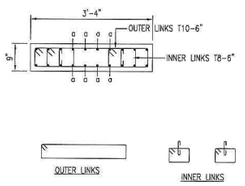
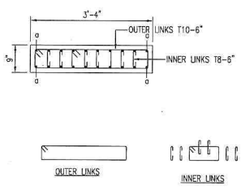
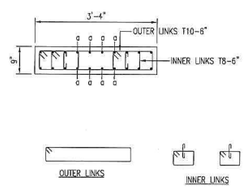
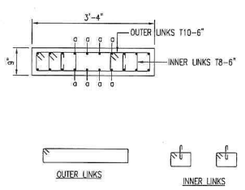
drawing title

TYPICAL FLOOR BEAM DETAILS (2nd TO 4th FLOOR) SHEET :3 OF 3

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S–BM/SHT/--/03	Revision	–

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ADYAR, CHENNAI - 600 020.
E-Mail: peram@buroengineers.in
Mobile: +91 99625 45630

ROOF LEVEL TO UPPER ROOF LEVEL							
SIZE	9"x3'-4"	9"x3'-4"					
CONCRETE GRADE/COVER	M30/40mm	M30/40mm					
REINFORCEMENT/STEEL GRADE Fe	4T16(a)+16T12/Fe 550	4T16(a)+16T12/Fe 550					
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550					
5TH FLOOR LEVEL TO ROOF LEVEL							
SIZE	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"
CONCRETE GRADE/COVER	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	4T16(a)+16T12/Fe 550	4T16(a)+16T12/Fe 550	4T16(a)+16T12/Fe 550	4T16(a)+16T12/Fe 550	12T16+8T12(a)/Fe 550	4T16(a)+16T12/Fe 550	16T16+4T12(a)/Fe 550
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550
3RD FLOOR LEVEL TO 5TH FLOOR LEVEL							
SIZE	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"
CONCRETE GRADE/COVER	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	4T16(a)+16T12/Fe 550	12T16+8T12(a)/Fe 550	4T16(a)+16T12/Fe 550	8T16(a)+12T12/Fe 550	12T16+8T12(a)/Fe 550	4T16(a)+16T12/Fe 550	16T16+4T12(a)/Fe 550
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550
1ST FLOOR LEVEL TO 3RD FLOOR LEVEL							
SIZE	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"
CONCRETE GRADE/COVER	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	4T20(a)+16T16/Fe 550	12T20+8T16(a)/Fe 550	4T20(a)+16T16/Fe 550	12T16+8T12(a)/Fe 550	8T20(a)+12T16/Fe 550	12T16+8T12(a)/Fe 550	8T20(a)+12T16/Fe 550
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550
FOOTING/STARTER BARS TIE BEAM/ 1ST FLOOR LEVEL							
SIZE	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"
CONCRETE GRADE/COVER	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	4T25(a)+16T20/Fe 550	12T25+8T20(a)/Fe 550	4T25(a)+16T20/Fe 550	12T20+8T16(a)/Fe 550	4T25(a)+16T20/Fe 550	12T20+8T16(a)/Fe 550	12T20+8T16(a)/Fe 550
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550
COLUMN/SHEAR WALL MARK	SW1	SW2	SW3 & SW18	SW13,SW16,SW17,SW22 & SW23	SW19	SW14 & SW19a	SW20 & SW21

NOTE: THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ARRANGEMENT OF COLUMN REINFT.

NOTES:

1. ALL DIMENSIONS ARE IN FEET AND INCHES
2. FOR GENERAL NOTES REFER TO DWG. NO. BEI730_S-/NT/--/01.
3. FOR STANDARD DETAILS REFER TO DWG. NO. BEI730_S-/SD/--/01.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN, ARCHITECTURAL AND ALL OTHER RELEVANT SERVICES DRAWINGS.
5. GRADE OF CONCRETE GRADE: M30
6. STEEL GRADE: Fe550 CONFORMING TO IS:1786-2008.
7. CLEAR COVER FOR FOOTING 50mm, COLUMN-40mm, SLAB-25mm, BEAM-30mm, RC WALL -30mm U.G.SUMP, STP BASE SLAB AND TANK RC WALLS - 40mm
8. UNLESS OTHERWISE SPECIFIED, LAP/DEVEPMENT LENGTH SHALL NOT BE LESS THAN 50 X DIA OF BAR.
9. SEISMIC LOAD HAS BEEN CONSIDECED AS PER IS:1893-2002 WITH THE SEISMIC ZONE III. DUCTILE DETAILING CARRIED OUT AS PER THE STIPULATIONS MADE IN IS:13920-1993
10. STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH I.S.456-2000, NBC (SP7-1983) AND RELAVANT INDIAN CODE STIPULATIONS
11. ONUS OF ADVANCE LIES WITH CONTRACTOR/ PROMOTER / BUILDER / OWNER.

FOUNDATION AND COLUMN DESIGNED FOR STILT + 5 FLOORS+ROOF USING CONVENTIONAL BRICKWORK FOR BOTH INTERNAL AND EXTERNAL FILLER WALLS

A. PERAMAIYAN, M.E., (Struct.), M.I.E.
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No. SE/GR-I/19/03/026
NEW NO. 31 (OLD No.14), BESANT AVENUE ROAD
ADYAR, CHENNAI - 600 020.
E-Mail: peram@buroengineers.in
Mobile: +91 99625 45630

NO.	AMENDMENTS	BY	DATE
R.0	GOOD FOR CONSTRUCTION	Punitha	26/09/24

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :

M/s. SALMA CONSTRUCTION

Architect :

ANSARI ARCHITECTS,
G-3, NANDA APARTMENTS,
NO.29/7A, HABIBULLAH ROAD,
T-NAGAR,CHENNAI-17.
PH - 28342879 ,28343402

Civil & Structural Engineer :

BURO ENGINEERS (I) PRIVATE LTD.
Civil & Structural Consultants
19, BRINDHAVAN STREET, 2nd FLOOR, MYLAPORE
CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

STRUCTURAL

project title

PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

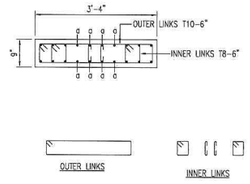
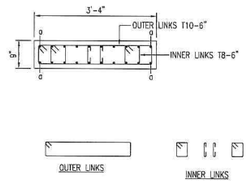
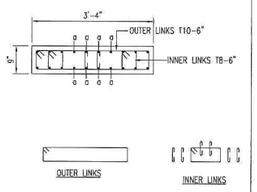
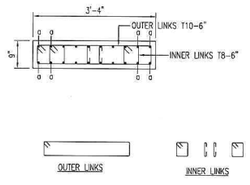
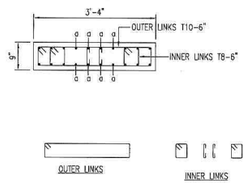
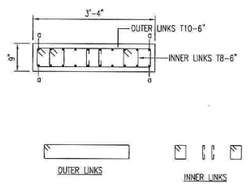
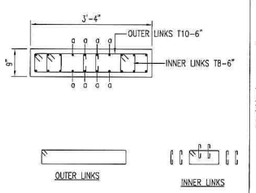
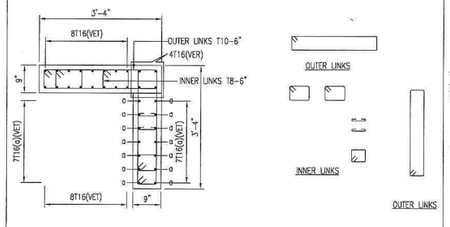
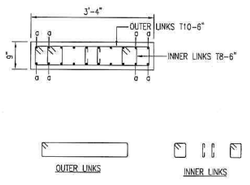
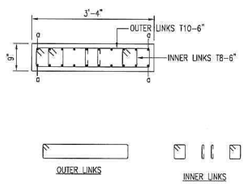
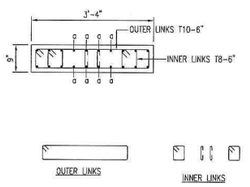
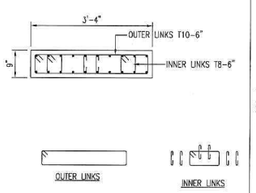
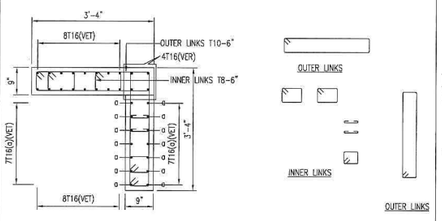
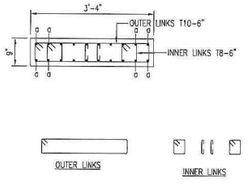
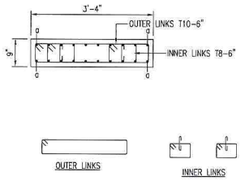
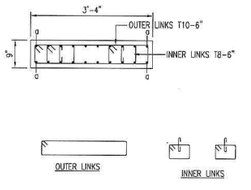
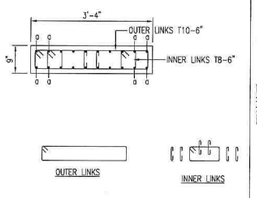
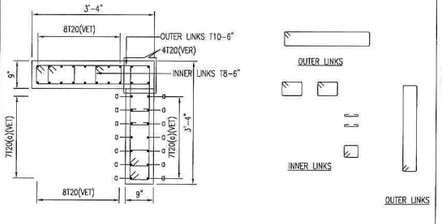
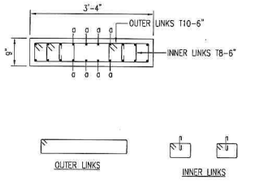
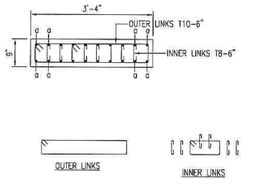
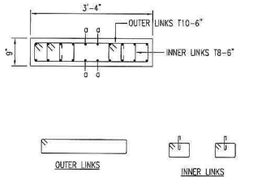
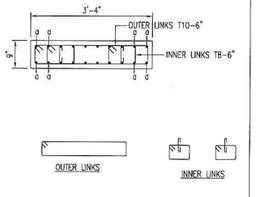
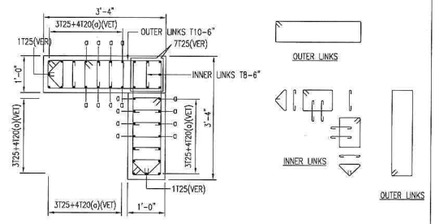
drawing title

COLUMN SCHEDULE
(SHEET NO : 01 OF 05)

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-CL/SH/--/01		Revision -

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CAD FILE NAME: BEI730_S-CL/SH/01

ROOF LEVEL TO UPPER ROOF LEVEL						
SIZE		9"x3'-4"	9"x3'-4"	9"x3'-4"		
CONCRETE GRADE/COVER		M30/40mm	M30/40mm	M30/40mm		
REINFORCEMENT/STEEL GRADE Fe		12T16+8T12(o)/Fe 550	4T16(o)+16T12/Fe 550	12T16+8T12(o)/Fe 550		
LINKS/TIES/STEEL GRADE Fe		AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550		
5TH FLOOR LEVEL TO ROOF LEVEL						
SIZE	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	AS SHOWN	AS SHOWN
CONCRETE GRADE/COVER	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	8T20(o)+12T16/Fe 550	12T16+8T12(o)/Fe 550	4T16(o)+16T12/Fe 550	12T16+8T12(o)/Fe 550	AS SHOWN/Fe 550	20T16+14T16/Fe 550
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550
3RD FLOOR LEVEL TO 5TH FLOOR LEVEL						
SIZE	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	AS SHOWN	AS SHOWN
CONCRETE GRADE/COVER	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	8T20(o)+12T16/Fe 550	4T20(o)+16T16/Fe 550	12T16+8T12(o)/Fe 550	20T16/Fe 550	AS SHOWN/Fe 550	20T16+14T16/Fe 550
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550
1ST FLOOR LEVEL TO 3RD FLOOR LEVEL						
SIZE	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	AS SHOWN	AS SHOWN
CONCRETE GRADE/COVER	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	8T20(o)+12T16/Fe 550	4T25(o)+16T20/Fe 550	4T20(o)+16T16/Fe 550	8T20(o)+12T16/Fe 550	AS SHOWN/Fe 550	20T16+14T16/Fe 550
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550
FOOTING/STARTER BARS TIE BEAM/ 1ST FLOOR LEVEL						
SIZE	9"x3'-4"	9"x3'-4"	9"x3'-4"	9"x3'-4"	AS SHOWN	AS SHOWN
CONCRETE GRADE/COVER	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	12T20+8T16(o)/Fe 550	8T25(o)+12T20/Fe 550	16T20+4T16(o)/Fe 550	8T20(o)+12T16/Fe 550	AS SHOWN/Fe 550	21T25+16T20(o)/Fe 550
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550
COLUMN/SHEAR WALL MARK	SW10	SW5	SW9, SW12 & SW15	SW7	SW4	SW24

NOTES:

1. ALL DIMENSIONS ARE IN FEET AND INCHES
2. FOR GENERAL NOTES REFER TO DWG. NO. BEI730_S-/NT/--/01.
3. FOR STANDARD DETAILS REFER TO DWG. NO. BEI730_S-/SD/--/01.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN, ARCHITECTURAL AND ALL OTHER RELEVANT SERVICES DRAWINGS.
5. GRADE OF CONCRETE GRADE: M30
6. STEEL GRADE: Fe550 CONFORMING TO IS:1786-2008.
7. CLEAR COVER FOR FOOTING 50mm, COLUMN-40mm, SLAB-25mm, BEAM-30mm, RC WALL -30mm U.G.SUMP, STP BASE SLAB AND TANK RC WALLS - 40mm
8. UNLESS OTHERWISE SPECIFIED, LAP/DEVEPMENT LENGTH SHALL NOT BE LESS THAN 50 X DIA OF BAR
9. SEISMIC LOAD HAS BEEN CONSIDECED AS PER IS:1893-2002 WITH THE SEISMIC ZONE III. DUCTILE DETAILING CARRIED OUT AS PER THE STIPULATIONS MADE IN IS:13920-1993
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FOUNDATION AND COLUMN DESIGNED FOR STILT + 5 FLOORS+ROOF USING CONVENTIONAL BRICKWORK FOR BOTH INTERNAL AND EXTERNAL FILLER WALLS

A. PERAMAIYAN, M.E., (Struct.), M.I.E.
REGISTERED STRUCTURAL ENGINEER
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NEW No. 31 (OLD No.14), BESANT AVENUE ROAD,
ADYAR, CHENNAI - 600 020.
E-Mail: peram@buroengineers.in
Mobile: +91 99625 45630

NO.	AMENDMENTS	BY	DATE
R.0	GOOD FOR CONSTRUCTION	Punitha	26/09/24

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :

M/s. SALMA CONSTRUCTION

Architect :

ANSARI ARCHITECTS,
C-3, MANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T-NAGAR,CHENNAI-17.
PH - 28342879 ,28343402

Civil & Structural Engineer :

BURO ENGINEERS (I) PRIVATE LTD.
Civil & Structural Consultants
19, BRINDHAVAN STREET, 2nd FLOOR, MYLAPORE
CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION
STRUCTURAL

project title

PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

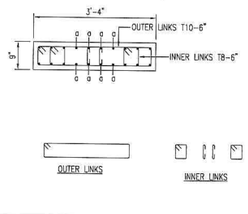
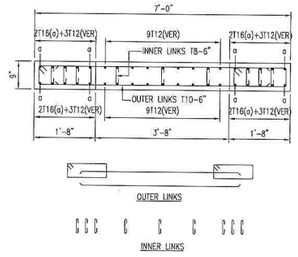
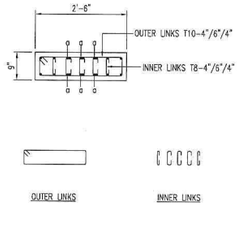
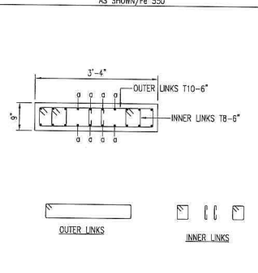
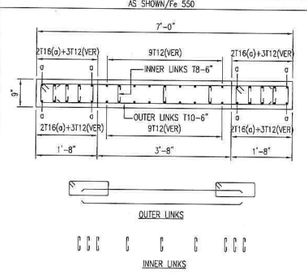
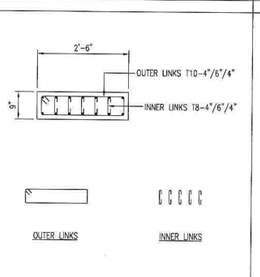
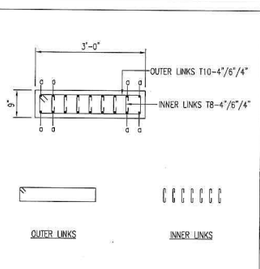
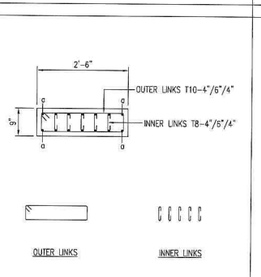
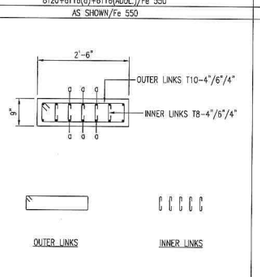
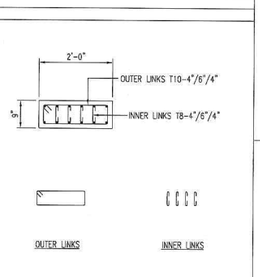
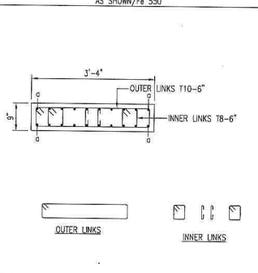
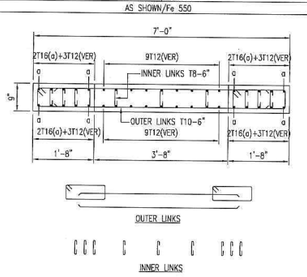
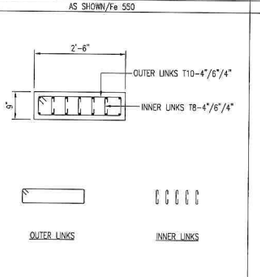
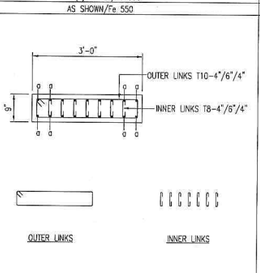
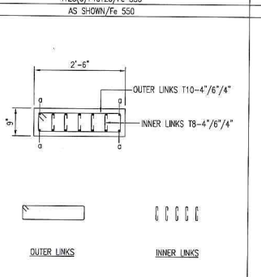
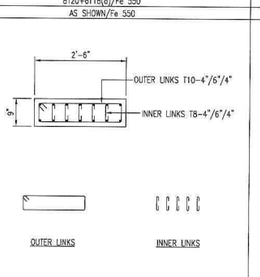
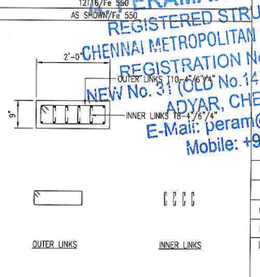
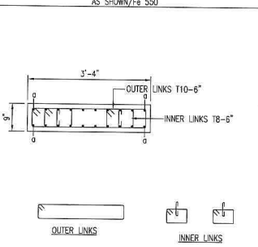
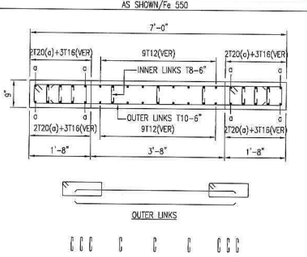
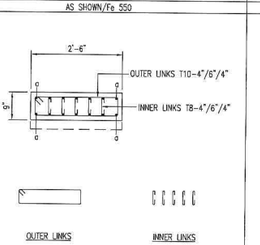
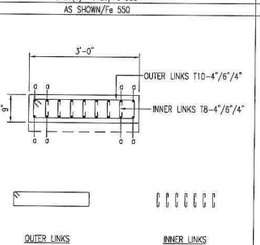
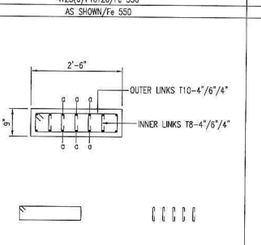
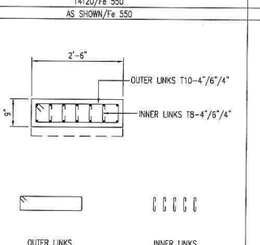
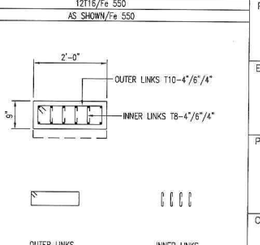
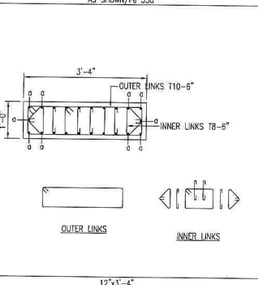
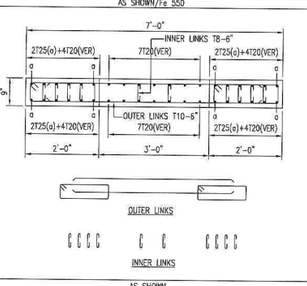
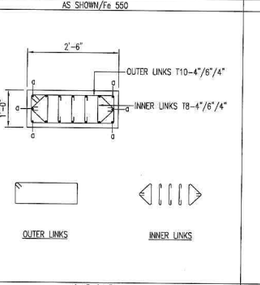
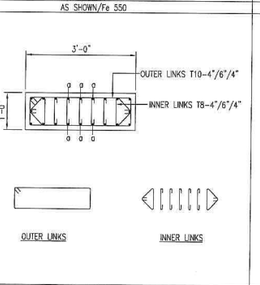
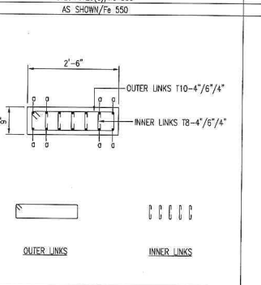
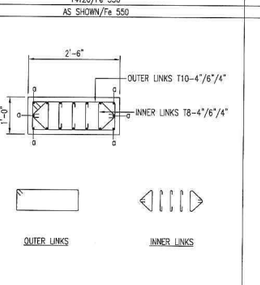
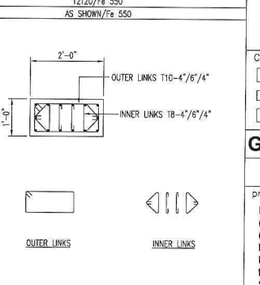
drawing title

COLUMN SCHEDULE
(SHEET NO : 02 OF 05)

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-CL/SH/--/02	Revision	--

THIS DRAWING IS COPYRIGHT

CAD FILE NAME: BEI730_S-CL/SH/02

ROOF LEVEL TO UPPER ROOF LEVEL							
SIZE	9"x3'-4"	AS SHOWN				9"x2'-6"	
CONCRETE GRADE/COVER	M30/40mm	M30/40mm				M30/40mm	
REINFORCEMENT/STEEL GRADE Fe	12T16+8T12@/Fe 550	AS SHOWN/Fe 550				8T20+6T16@+6T16(ADDL.)/Fe 550	
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550				AS SHOWN/Fe 550	
5TH FLOOR LEVEL TO ROOF LEVEL							
SIZE	9"x3'-4"	AS SHOWN	9"x2'-6"	9"x3'-0"	9"x2'-6"	9"x2'-6"	9"x2'-0"
CONCRETE GRADE/COVER	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	12T16+8T12@/Fe 550	AS SHOWN/Fe 550	14T20/Fe 550	8T25(e)+10T20/Fe 550	4T25(e)+10T20/Fe 550	8T20+6T16@/Fe 550	12T16/Fe 550
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550
3RD FLOOR LEVEL TO 5TH FLOOR LEVEL							
SIZE	9"x3'-4"	AS SHOWN	9"x2'-6"	9"x3'-0"	9"x2'-6"	9"x2'-6"	9"x2'-0"
CONCRETE GRADE/COVER	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	4T20(e)+16T16/Fe 550	AS SHOWN/Fe 550	14T20/Fe 550	8T25(e)+10T20/Fe 550	4T25(e)+10T20/Fe 550	14T20/Fe 550	12T16/Fe 550
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550
1ST FLOOR LEVEL TO 3RD FLOOR LEVEL							
SIZE	9"x3'-4"	AS SHOWN	9"x2'-6"	9"x3'-0"	9"x2'-6"	9"x2'-6"	9"x2'-0"
CONCRETE GRADE/COVER	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	4T25(e)+16T20/Fe 550	AS SHOWN/Fe 550	4T25(e)+10T20/Fe 550	8T25(e)+10T20/Fe 550	8T25+6T20@/Fe 550	14T20/Fe 550	12T20/Fe 550
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550
FOOTING/STARTER BARS TIE BEAM/ 1ST FLOOR LEVEL							
SIZE	12"x3'-4"	AS SHOWN	1'-0"x2'-6"	1'-0"x3'-0"	9"x2'-6"	1'-0"x2'-6"	1'-0"x2'-0"
CONCRETE GRADE/COVER	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	10T25(e)+12T20/Fe 550	AS SHOWN/Fe 550	6T25(e)+10T20/Fe 550	14T25(e)+6T20/Fe 550	8T25(e)+6T20/Fe 550	6T25(e)+10T20/Fe 550	14T20/Fe 550
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550
COLUMN/SHEAR WALL MARK	SW6	SW8 & SW11	C13	C6 & C9	C5	C1	C2 & C3

NOTE: THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ARRANGEMENT OF COLUMN REINFT.

NOTES:

1. ALL DIMENSIONS ARE IN FEET AND INCHES
2. FOR GENERAL NOTES REFER TO DWG. NO. BEI730_S-/NT/--/01.
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5. GRADE OF CONCRETE GRADE: M30
6. STEEL GRADE: Fe550 CONFORMING TO IS:1786-2008.
7. CLEAR COVER FOR FOOTING 50mm, COLUMN-40mm, SLAB-25mm, BEAM-30mm, RC WALL -30mm U.G.SUMP, STP BASE SLAB AND TANK RC WALLS - 40mm
8. UNLESS OTHERWISE SPECIFIED, LAP/DEVEPMENT LENGTH SHALL NOT BE LESS THAN 50 X DIA OF BAR
9. SEISMIC LOAD HAS BEEN CONSIDECED AS PER IS:1893-2002 WITH THE SEISMIC ZONE III. DUCTILE DETAILING CARRIED OUT AS PER THE STIPULATIONS MADE IN IS:13920-1993
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11. ONUS OF ADVANCE LIES WITH CONTRACTOR/ PROMOTER / BUILDER / OWNER.

FOUNDATION AND COLUMN DESIGNED FOR STILLT + 5 FLOORS+ROOF USING CONVENTIONAL BRICKWORK FOR BOTH INTERNAL AND EXTERNAL FILLER WALLS

P. PERAMAIYAN, M.E., (Struct.), M.I.E.
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REGISTRATION No. SE/GR-I/19/03/026
NEW No. 31 (OLD No.14), BESANT AVENUE ROAD,
ADYAR, CHENNAI - 600 020.
E-Mail: peram@buroengineers.in
Mobile: +91 99625 45630

NO.	AMENDMENTS	BY	DATE
R.0	GOOD FOR CONSTRUCTION	Punitha	26/09/24

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :

M/s. SALMA CONSTRUCTION

Architect :

ANSARI ARCHITECTS,
G-3, NANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T-NAGAR,CHENNAI-17.
PH - 28342879 ,28343402

Civil & Structural Engineer :

BURO ENGINEERS (I) PRIVATE LTD.
Civil & Structural Consultants
19, BRINDHAVAN STREET, 2nd FLOOR, MYLAPORE
CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

STRUCTURAL

project title

PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

drawing title

COLUMN SCHEDULE
(SHEET NO : 03 OF 05)

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-CL/SH/--/03	Revision	-

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	ROOF LEVEL TO UPPER ROOF LEVEL	5TH FLOOR LEVEL TO ROOF LEVEL	3RD FLOOR LEVEL TO 5TH FLOOR LEVEL	1ST FLOOR LEVEL TO 3RD FLOOR LEVEL	FOOTING/STARTER BARS TIE BEAM/ 1ST FLOOR LEVEL	COLUMN/SHEAR WALL MARK
SIZE		1'-0"x2'-4"	1'-0"x2'-4"	1'-0"x2'-4"	1'-0"x2'-4"	
CONCRETE GRADE/COVER		M30/40mm	M30/40mm	M30/40mm	M30/40mm	
REINFORCEMENT/STEEL GRADE Fe		10T25+6T20(a)/Fe 550	10T25+6T20(a)/Fe 550	10T25+6T20(a)/Fe 550	10T25+6T20(a)/Fe 550	
LINKS/TIES/STEEL GRADE Fe		AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	
		2'-4" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 1'-0"	2'-4" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 1'-0"	2'-4" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 1'-0"	2'-4" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 1'-0"	
		OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	
SIZE		9"x2'-0"	9"x2'-0"	9"x2'-0"	9"x2'-0"	
CONCRETE GRADE/COVER		M30/40mm	M30/40mm	M30/40mm	M30/40mm	
REINFORCEMENT/STEEL GRADE Fe		8T20+4T16(a)/Fe 550	8T20+4T16(a)/Fe 550	12T20/Fe 550	12T20/Fe 550	
LINKS/TIES/STEEL GRADE Fe		AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	
		2'-0" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 9"	2'-0" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 9"	2'-0" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 9"	2'-0" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 9"	
		OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	
SIZE		9"x2'-0"	9"x2'-0"	9"x2'-0"	9"x2'-0"	
CONCRETE GRADE/COVER		M30/40mm	M30/40mm	M30/40mm	M30/40mm	
REINFORCEMENT/STEEL GRADE Fe		8T25+4T20(a)/Fe 550	8T25+4T20(a)/Fe 550	8T25+6T20(a)/Fe 550	8T25+6T20(a)/Fe 550	
LINKS/TIES/STEEL GRADE Fe		AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	
		2'-4" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 1'-0"	2'-4" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 1'-0"	2'-4" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 1'-0"	2'-4" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 1'-0"	
		OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	
SIZE		9"x2'-4"	9"x2'-4"	9"x2'-4"	9"x2'-4"	
CONCRETE GRADE/COVER		M30/40mm	M30/40mm	M30/40mm	M30/40mm	
REINFORCEMENT/STEEL GRADE Fe		4T25(a)+10T20/Fe 550	4T25(a)+10T20/Fe 550	8T25+6T20(a)/Fe 550	8T25+6T20(a)/Fe 550	
LINKS/TIES/STEEL GRADE Fe		AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	
		2'-4" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 9"	2'-4" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 9"	2'-4" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 9"	2'-4" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 9"	
		OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	
SIZE		9"x2'-0"	9"x2'-0"	9"x2'-0"	9"x2'-0"	
CONCRETE GRADE/COVER		M30/40mm	M30/40mm	M30/40mm	M30/40mm	
REINFORCEMENT/STEEL GRADE Fe		4T25(a)+8T16/Fe 550	4T20(a)+8T16/Fe 550	4T25(a)+8T20/Fe 550	4T20(a)+8T16/Fe 550	
LINKS/TIES/STEEL GRADE Fe		AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	
		2'-0" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 9"	2'-0" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 9"	2'-0" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 9"	2'-0" / OUTER LINKS T10-4"/6"/4" / INNER LINKS T8-4"/6"/4" / 9"	
		OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	
SIZE		1'-0"x2'-8"	1'-0"x2'-8"	1'-0"x2'-8"	1'-0"x2'-8"	
CONCRETE GRADE/COVER		M30/40mm	M30/40mm	M30/40mm	M30/40mm	
REINFORCEMENT/STEEL GRADE Fe		16T16/Fe 550	16T16/Fe 550	12T25+4T20(a)/Fe 550	12T25+4T20(a)/Fe 550	
LINKS/TIES/STEEL GRADE Fe		AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	
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		OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	
SIZE	9"x1'-6"	1'-6"	1'-6"	9"x1'-6"	1'-6"	
CONCRETE GRADE/COVER	M30/40mm	OUTER LINKS T10-4"/6"/4"	OUTER LINKS T10-4"/6"/4"	M30/40mm	OUTER LINKS T10-4"/6"/4"	
REINFORCEMENT/STEEL GRADE Fe	8T20/Fe 550	INNER LINKS T8-4"/6"/4"	INNER LINKS T8-4"/6"/4"	8T25/Fe 550	INNER LINKS T8-4"/6"/4"	
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	9"	9"	AS SHOWN/Fe 550	9"	
	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	
SIZE	9"x1'-6"	1'-6"	1'-6"	9"x1'-6"	1'-6"	
CONCRETE GRADE/COVER	M30/40mm	OUTER LINKS T10-4"/6"/4"	OUTER LINKS T10-4"/6"/4"	M30/40mm	OUTER LINKS T10-4"/6"/4"	
REINFORCEMENT/STEEL GRADE Fe	4T25(a)+4T20/Fe 550	INNER LINKS T8-4"/6"/4"	INNER LINKS T8-4"/6"/4"	4T25(a)+4T20/Fe 550	INNER LINKS T8-4"/6"/4"	
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	9"	9"	AS SHOWN/Fe 550	9"	
	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS	
SIZE	9"x1'-6"	1'-0"	1'-0"	9"x1'-6"	1'-0"	
CONCRETE GRADE/COVER	M30/40mm	1'-6"	1'-6"	M30/40mm	1'-6"	
REINFORCEMENT/STEEL GRADE Fe	8T25/Fe 550	OUTER LINKS T10-4"/6"/4"	OUTER LINKS T10-4"/6"/4"	8T25/Fe 550	OUTER LINKS T10-4"/6"/4"	
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	INNER LINKS T8-4"/6"/4"	INNER LINKS T8-4"/6"/4"	AS SHOWN/Fe 550	INNER LINKS T8-4"/6"/4"	
	OUTER LINKS / INNER LINKS	2'-6"	2'-6"	OUTER LINKS / INNER LINKS	5"	
		OUTER LINKS / INNER LINKS	OUTER LINKS / INNER LINKS		OUTER LINKS / INNER LINKS	
SIZE	1'-0"x2'-4"	9"x2'-0"	1'-0"x2'-0"	1'-0"x2'-4"	1'-0"x2'-0"	1'-0"x2'-6"
CONCRETE GRADE/COVER	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	10T25+6T20(a)/Fe 550	12T20/Fe 550	14T25/Fe 550	16T25/Fe 550	14T25/Fe 550	6T25(a)+10T20/Fe 550
LINKS/TIES/STEEL GRADE Fe	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550	AS SHOWN/Fe 550
COLUMN/SHEAR WALL MARK	C7 & C8	C11	C10	C14	C12	C15	C4

NOTE: THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE ARRANGEMENT OF COLUMN REINFT.

NOTES:

1. ALL DIMENSIONS ARE IN FEET AND INCHES
2. FOR GENERAL NOTES REFER TO DWG. NO. BEI730_S-/NT/--/01.
3. FOR STANDARD DETAILS REFER TO DWG. NO. BEI730_S-/SD/--/01.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN, ARCHITECTURAL AND ALL OTHER RELEVANT SERVICES DRAWINGS.
5. GRADE OF CONCRETE GRADE: M30
6. STEEL GRADE: Fe550 CONFORMING TO IS:1786-2008.
7. CLEAR COVER FOR FOOTING 50mm, COLUMN-40mm, SLAB-25mm, BEAM-30mm, RC WALL -30mm U.G.SUMP, STP BASE SLAB AND TANK RC WALLS - 40mm
8. UNLESS OTHERWISE SPECIFIED, LAP/DEVEPMENT LENGTH SHALL NOT BE LESS THAN 50 X DIA OF BAR
9. SEISMIC LOAD HAS BEEN CONSIDECED AS PER IS:1893-2002 WITH THE SEISMIC ZONE III. DUCTILE DETAILING CARRIED OUT AS PER THE STIPULATIONS MADE IN IS:13920-1993
10. STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH I.S.456-2000, NBC (SP7-1983) AND RELAVANT INDIAN CODE STIPULATIONS
11. ONUS OF ADVANCE LIES WITH CONTRACTOR/ PROMOTER / BUILDER / OWNER.

FOUNDATION AND COLUMN DESIGNED FOR STILT + 5 FLOORS+ROOF USING CONVENTIONAL BRICKWORK FOR BOTH INTERNAL AND EXTERNAL FILLER WALLS

A. PERAMAIYAN, M.E., (Struct.), M.I.E.
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No. SE/GR-I/19/03/026
NEW No. 31 (OLD No.14), BESANT AVENUE ROAD
ADYAR, CHENNAI - 600 020.
E-Mail: peram@buroengineers.in
Mobile: +91 99625 45630

NO.	AMENDMENTS	BY	DATE
R.0	GOOD FOR CONSTRUCTION	Punitha	26/09/24

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :

M/s. SALMA CONSTRUCTION

Architect :

ANSARI ARCHITECTS,
G-3, NANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T-NAGAR,CHENNAI-17.
PH :- 28342879 ,28343402

Civil & Structural Engineer :

BURO ENGINEERS (I) PRIVATE LTD.
Civil & Structural Consultants
19, BRINDHAVAN STREET, 2nd FLOOR, MYLAPORE
CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

STRUCTURAL

project title

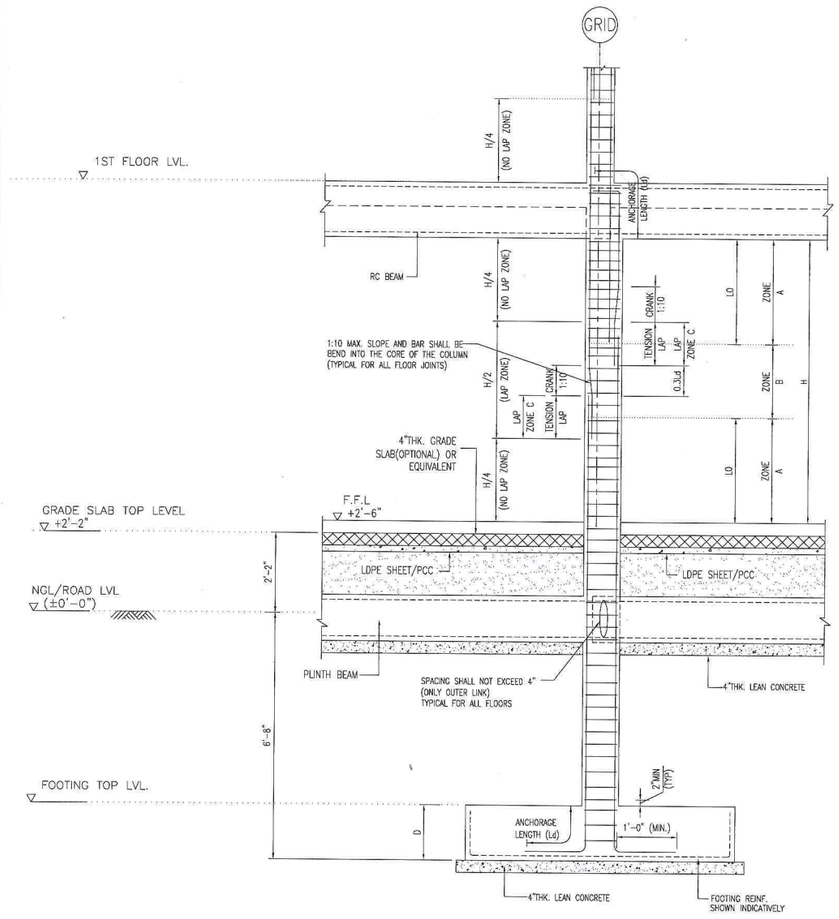
PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

drawing title

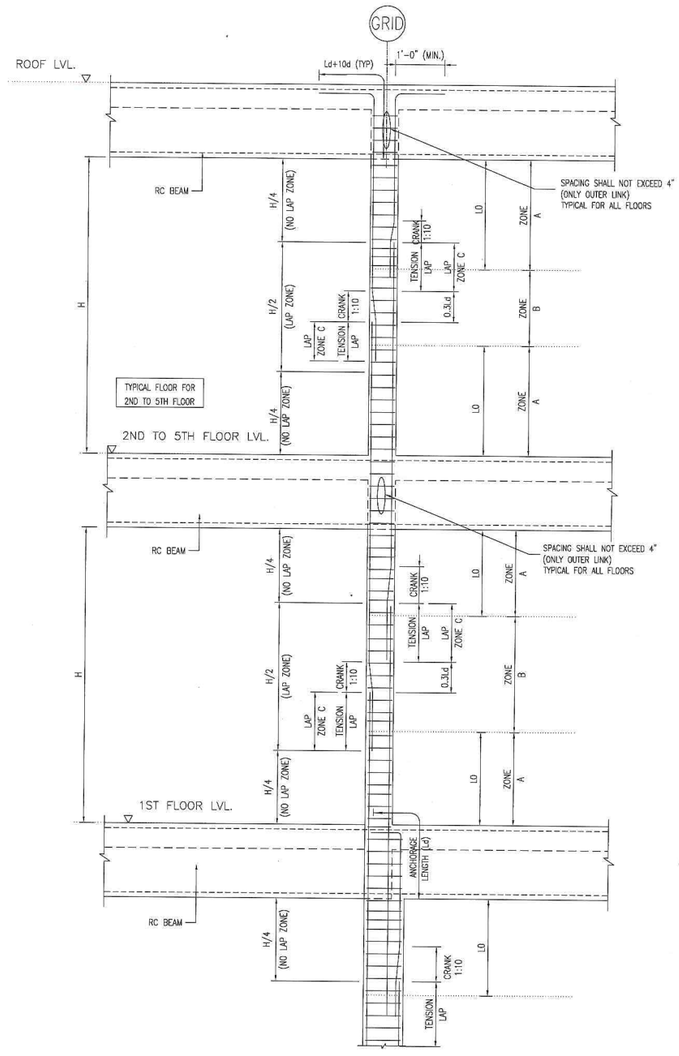
COLUMN SCHEDULE
(SHEET NO : 04 OF 05)

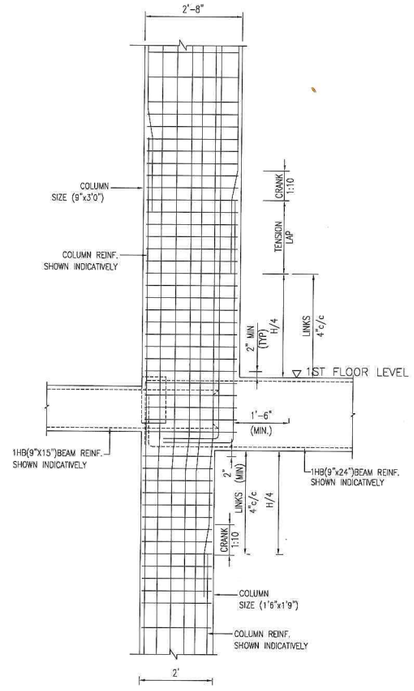
scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-CL/SH/--/04	Revision	-

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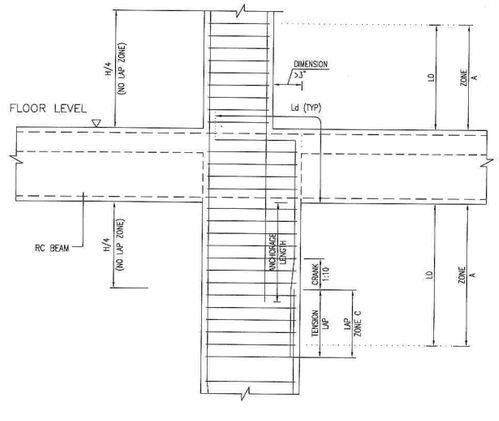


TYPICAL DETAIL OF COLUMNS ELEVATION
SCALE N.T.S

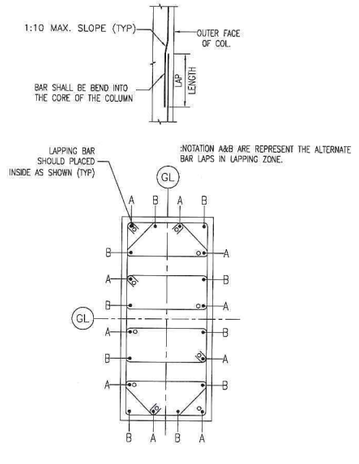




SPLICING DETAIL AT OVERHANGING OF COLUMN ALONG LENGTH/WIDTH



TYPICAL DETAIL OF COLUMN SIZE REDUCTION (>3")
SCALE N.T.S



TYPICAL LAPPING ARRANGEMENT
SCALE N.T.S

LEGENDS :
UNLESS OTHERWISE SPECIFIED

ZONE A
SPACING OF TIES 100mm C/C

ZONE B
SPACING OF TIES 200mm C/C

LAP ZONE C
SPACING OF TIES SHALL NOT BE GREATER THAN 100.

LO = SHALL NOT BE LESS THAN MAX. OF
(i) MAXIMUM CROSS SECTIONAL DIMENSION OF COLUMN AT THE JOINT.
(ii) Lc/6. WHERE Lc= CLEAR HEIGHT OF COLUMN
(iii) 450mm

NOTES:
UNLESS OTHERWISE SPECIFIED

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
2. IF THE PERCENTAGE OF REINFORCEMENT IN COLUMN IS MORE THAN 4%, THEN, NOT MORE THAN 30% OF TOTAL NUMBER OF BARS IN COLUMN CAN BE LAPPED AT ANY ONE SECTION. IF MORE THAN 30% OF TOTAL BARS ARE REQUIRED TO BE LAPPED AT ONE LEVEL, THE LAPPING POSITION OF THE BARS SHALL BE STAGGERED, TO ENSURE THAT LAPPED BARS AT ANY SECTION DOES NOT EXCEED 30% OF THE TOTAL BARS.
3. IF THE PERCENTAGE OF COLUMN REINFORCEMENT IS LESS THAN 4% THEN, NOT MORE THAN 50% OF NUMBER OF BARS CAN BE LAPPED AT ANY ONE SECTION.
4. IF THE PERCENTAGE OF COLUMN REINFORCEMENT IS LESS THAN 2% THEN, IF NECESSARY ALL THE BARS CAN BE LAPPED AT THE SAME POSITION WITH REQUIRED TENSION LAP LENGTH.
5. NOT MORE THAN 50% COLUMN BARS SHOULD BE SPLICED AT ONE SECTION (i.e. ALTERNATE BARS ARE TO BE LAPPED AT DIFFERENT SECTIONS).
6. CRANKING OF COLUMN BARS SHOULD NOT EXCEED A SLOPE 1 IN 10.
7. ALL COLUMN SPLICES SHALL BE BASED ON TENSION LAP LENGTHS.
9. COLUMN TRANSACTION MAY OCCUR AT ANY OF THE FLOOR LEVEL. (REFER FLOOR FRAMING PLAN & COLUMN SCHEDULE)

LEGEND
(ADDL.) – ADDITIONAL
(VER) – VERTICAL ROD

NOTES:
1. ALL DIMENSIONS ARE IN FEET AND INCHES
2. FOR GENERAL NOTES REFER TO DWG. NO. BEI730_S-/NT/---/01.
3. FOR STANDARD DETAILS REFER TO DWG. NO. BEI730_S-/SD/---/01.
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5. GRADE OF CONCRETE GRADE: M30
6. STEEL GRADE: Fe550 CONFORMING TO IS:1786-2008.
7. CLEAR COVER FOR FOOTING 50mm, COLUMN-40mm, SLAB-25mm, BEAM-30mm, RC WALL -30mm U.G.SUMP, STP BASE SLAB AND TANK RC WALLS - 40mm
8. UNLESS OTHERWISE SPECIFIED, LAP/DEVEPMENT LENGTH SHALL NOT BE LESS THAN 50 X DIA OF BAR
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FOUNDATION AND COLUMN DESIGNED FOR STILT + 5 FLOORS+ROOF USING CONVENTIONAL BRICKWORK FOR BOTH INTERNAL AND EXTERNAL FILLER WALLS

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NEW No. 31 (OLD No.14), BESANT AVENUE ROAD,
ADYAR, CHENNAI - 600 020.
E-Mail: peram@buroengineers.in
Mobile: +91 99625 45630

NOTES:
1. REFER COLUMN LAYOUT PLAN FOR COLUMN ORIENTATION AND DIMENSION (BEI730_S-FDDT/01)
2. FOR COLUMN TERMINATION AND ORIENTATION REFER ALL FLOOR FRAMING PLANS MAXIMUM CROSS SECTIONAL DIMENSION OF COLUMN AT THE JOINT.

NO.	AMENDMENTS	BY	DATE
R.0	GOOD FOR CONSTRUCTION	Punitha	26/09/24

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :
M/s. SALMA CONSTRUCTION

Architect :
ANSARI ARCHITECTS,
G-3, NANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T-NAGAR,CHENNAI-17
PH - 28342879 ,28343402

Civil & Structural Engineer :
BURO ENGINEERS (I) PRIVATE LTD.
Civil & Structural Consultants
19, BRINDHAVAN STREET, 2nd FLOOR, MYLAPORE
CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

STRUCTURAL

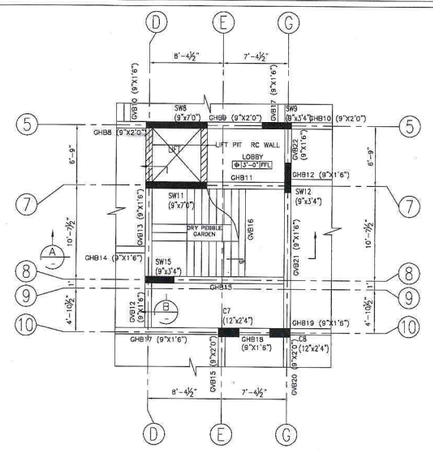
project title
PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

drawing title
COLUMN SCHEDULE
(SHEET NO : 05 OF 05)

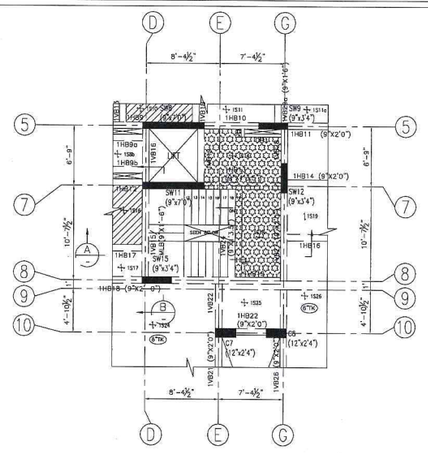
scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-CL/SH/--/05		Revision –

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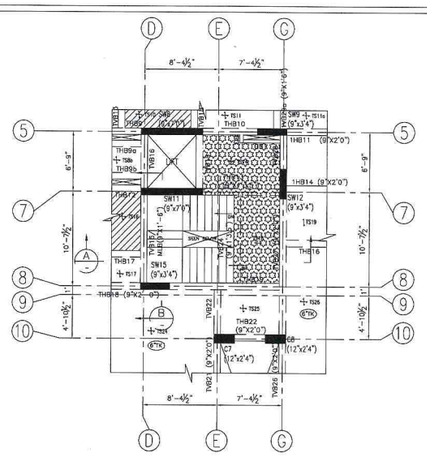


GROUND FLOOR FRAMING PLAN
SCALE 1/8"=1'0"



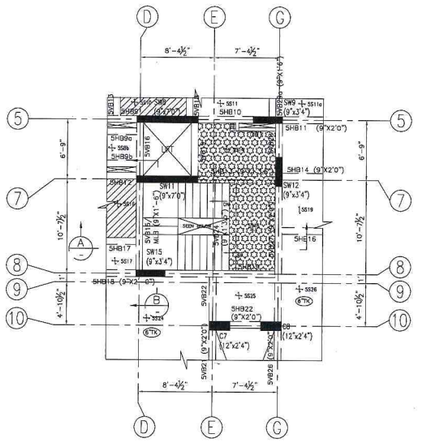
FIRST FLOOR FRAMING PLAN
SCALE 1/8"=1'0"

NOTES
1. INDICATES 2½" SUNKEN AREA (LOBBY).



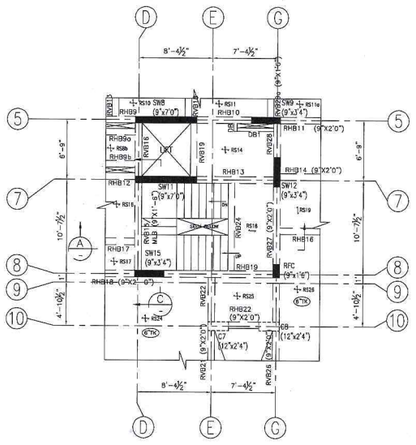
TYPICAL FLOOR (2ndTO4th) FRAMING PLAN
SCALE 1/8"=1'0"

NOTES
1. INDICATES 2½" SUNKEN AREA (LOBBY).

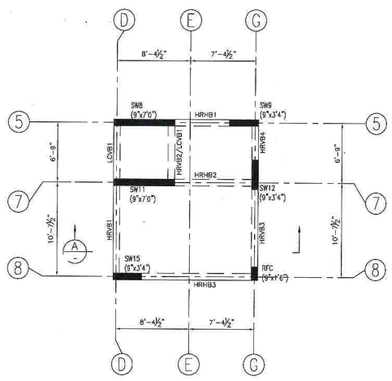


5th FLOOR FRAMING PLAN
SCALE 1/8"=1'0"

NOTES
1. INDICATES 2½" SUNKEN AREA (LOBBY).

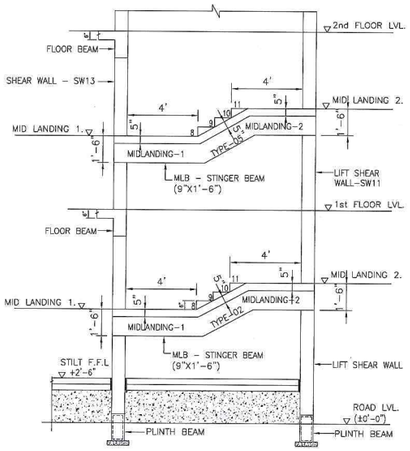


ROOF FRAMING PLAN
SCALE 1/8"=1'0"

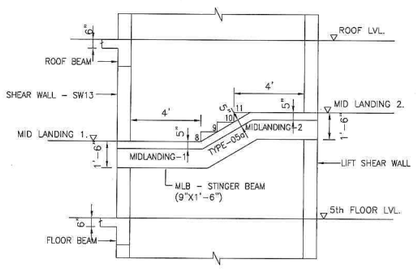


STAIRCASE HEAD COVER SLAB FRAMING PLAN
SCALE 1/8"=1'0"

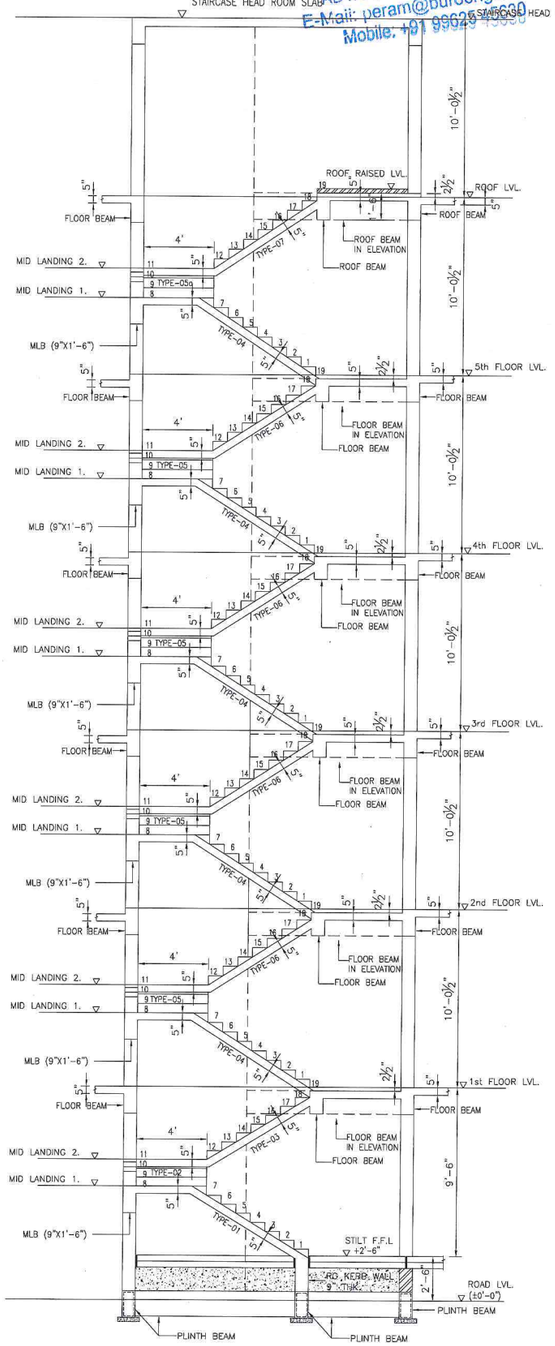
NOTES
UNLESS OTHERWISE SPECIFIED
1. GRADE OF STEEL Fe550.
2. GRADE OF CONCRETE GRADE TO BE M30



SECTION B
SCALE 1/4"=1'0"



SECTION C
SCALE 1/4"=1'0"



SECTION A
SCALE 1/4"=1'0"

IMPORTANT NOTES:–
REFER ARCHITECT GFC DRAWINGS FOR DIMENSION OF THREAD AND RISER, FLOOR LANDING WIDTH, MID LANDING WIDTH, FLOOR FINISH LEVEL AND STAIRCASE FINISH LEVEL,THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN,ARCHITECTURAL AND ALL OTHER RELEVANT SERVICES DRAWINGS.

NOTES:
1. ALL DIMENSIONS ARE IN FEET AND INCHES
2. FOR GENERAL NOTES REFER TO DWG. NO. BEI730_S–/NT/–/01.
3. FOR STANDARD DETAILS REFER TO DWG. NO. BEI730_S–/SD/–/01.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN, ARCHITECTURAL AND ALL OTHER RELEVANT SERVICES DRAWINGS.
5. GRADE OF CONCRETE GRADE: M30
6. STEEL GRADE: Fe550 CONFORMING TO IS:1786–2008.
7. CLEAR COVER FOR FOOTING 50mm, COLUMN–40mm, SLAB–25mm, BEAM–30mm, RC WALL – 30mm U.G.SUMP, STP BASE SLAB AND TANK RC WALLS – 40mm
8. UNLESS OTHERWISE SPECIFIED, LAP/DEVEPMENT LENGTH SHALL NOT BE LESS THAN 50 X DIA OF BAR
9. SEISMIC LOAD HAS BEEN CONSIDECED AS PER IS:1893–2002 WITH THE SEISMIC ZONE III. DUCTILE DETAILING CARRIED OUT AS PER THE STIPULATIONS MADE IN IS:13920–1993
10. STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH I.S.456–2000, NBC (SP7–1983) AND RELAVANT INDIAN CODE STIPULATIONS
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FOUNDATION AND COLUMN DESIGNED FOR STILT + 5 FLOORS+ROOF USING CONVENTIONAL BRICKWORK FOR BOTH INTERNAL AND EXTERNAL FILLER WALLS

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R:1	GOOD FOR CONSTRUCTION	Punitha	27/03/25
NO.	AMENDMENTS	BY	DATE

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :

M/s. SALMA CONSTRUCTION

Architect :

ANSARI ARCHITECTS,
G–3, NANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T–NAGAR,CHENNAI–17.
PH – 28342879 ,28343402

Civil & Structural Engineer :

BURO ENGINEERS (I) PRIVATE LTD.
Civil & Structural Consultants
19, BRINDHAVAN STREET, 2nd FLOOR, MYLAPORE
CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

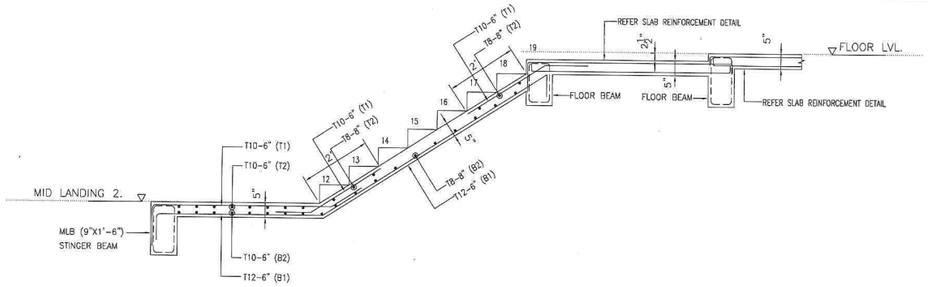
STRUCTURAL

project title
PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

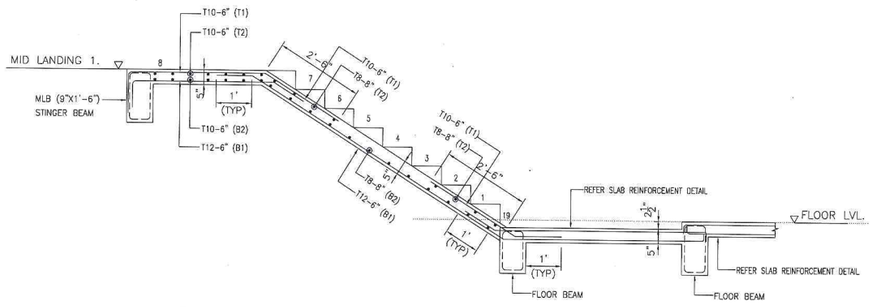
drawing title
STAIRCASE FRAMING PLAN

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S–SCDT/–/01	Revision	–

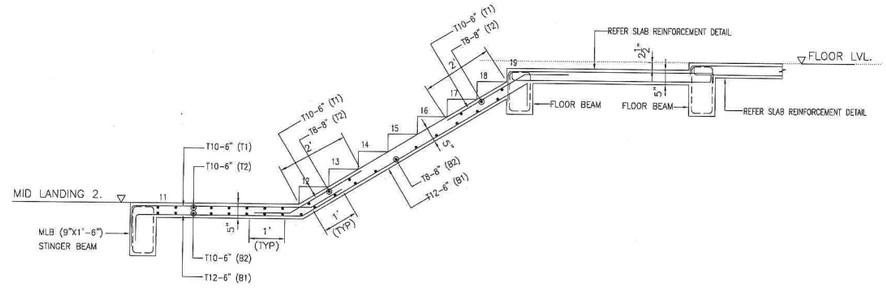
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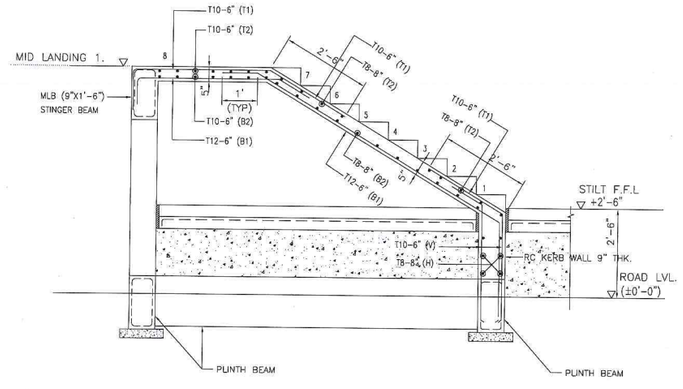
REINF. DETAILS OF FLIGHT (TYPE-06)
SCALE 1/2"=1'0"



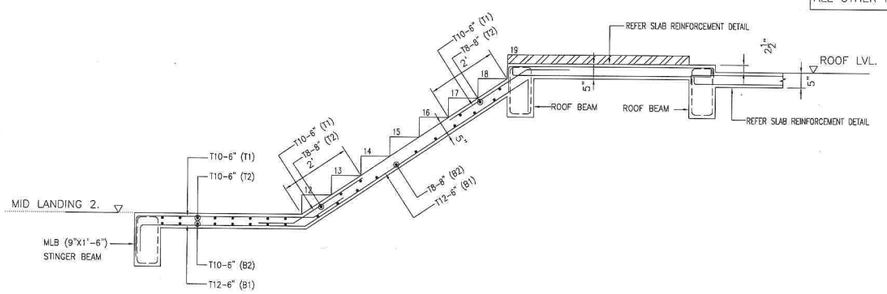
REINF. DETAILS OF FLIGHT (TYPE-04)
SCALE 1/2"=1'0"



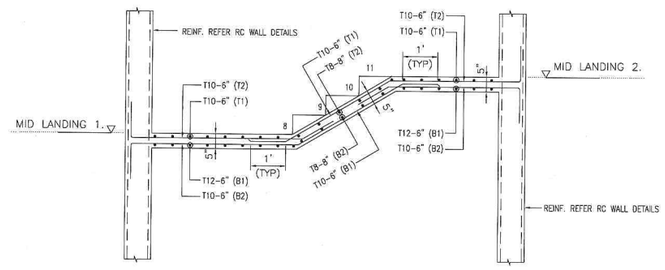
REINF. DETAILS OF FLIGHT (TYPE-03)
SCALE 1/2"=1'0"



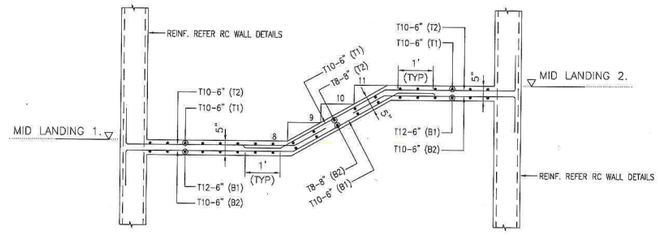
REINF. DETAILS OF FLIGHT (TYPE-01)
SCALE 1/2"=1'0"



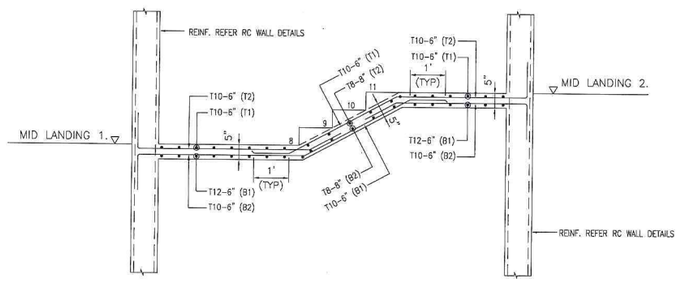
REINF. DETAILS OF FLIGHT (TYPE-07)
SCALE 1/2"=1'0"



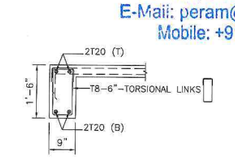
REINF. DETAILS OF FLIGHT (TYPE-05a)
SCALE 1/2"=1'0"



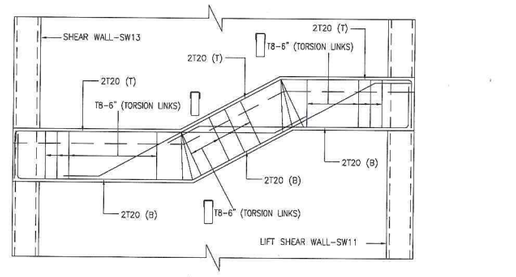
REINF. DETAILS OF FLIGHT (TYPE-05)
SCALE 1/2"=1'0"



REINF. DETAILS OF FLIGHT (TYPE-02)
SCALE 1/2"=1'0"



C/S OF MLB (9"X1'-6")
SCALE 1/2"=1'0"



L.S OF MLB (9"X1'-6") STINGER BEAM DETAIL
SCALE N.T.S

IMPORTANT NOTES:-
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NO.	AMENDMENTS	BY	DATE
R.1	GOOD FOR CONSTRUCTION	Punitha	27/03/25

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CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

STRUCTURAL

project title
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drawing title
STAIRCASE REINFORCEMENT SECTIONS DETAILS (SHEET 02 OF 02)

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-SCDT/--/01	Revision	-

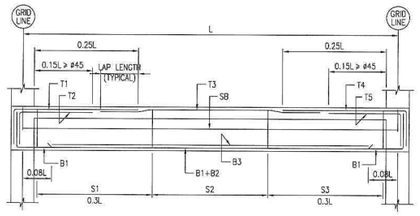
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Mobile: +91 99625 45630

LOCATION			SIZE		SPAN			REINFORCEMENT									SIDE BAR EACH FACE (EF)	STIRRUPS					REMARKS
								SPAN															
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	T1	T2	T3	T4	T5	B1	B2	B3		SB	S1	S2	S3	S4	TYPE	
RHB3	1	–	9"	2'–0"	–	11'–9"	–	2T16	–	2T16	2T16	2T12	2T20	–	–		–	2T8–4"	2T8–6"	2T8–4"	–	1	
RHB7	1	–	9"	1'–6"	–	15'–6"	–	2T20	–	2T20	2T20	–	2T25	–	2T16 ⊛		–	2T8–4"	2T8–6"	2T8–4"	–	1	
RHB8	1	–	9"	1'–6"	–	8'–3"	–	2T16	–	2T16	2T16	–	2T16	–	–		–	2T8–4"	2T8–8"	2T8–4"	–	1	
RHB12	1	–	9"	2'–0"	–	21'–9"	–	2T25	–	2T25	2T25	–	2T25	–	2T25 ⊛		–	2T10–4"	2T10–4"	2T10–4"	–	1	
RHB13	1	–	9"	1'–6"	–	9'–10.5"	–	2T16	2T20	2T16	2T16	2T16	2T16	–	2T16 ⊛		–	2T10–4"	2T10–5"	2T10–4"	–	1	
RHB16	1	–	9"	1'–6"	–	12'–9"	–	2T16	–	2T16	2T16	–	2T20	–	–		–	2T8–4"	2T8–6"	2T8–4"	–	1	
RHB17	1	–	9"	1'–6"	–	8'–3"	–	2T16	–	2T16	2T16	–	2T16	–	–		–	2T8–4"	2T8–8"	2T8–4"	–	1	
RHB20	2	–	9"	2'–0"	5'–3"	6'–9"	–	2T25	2T25	2T25	2T25	–	2T25	–	–		–	2T12–4"	2T12–5"	2T12–4"	2T12–4"	1	
RHB21	1	–	9"	1'–6"	–	14'–1.5"	–	2T16	–	2T16	2T16	2T16	2T16	–	2T16 ⊛		–	2T8–4"	2T8–6"	2T8–4"	–	1	SIMILAR BEAM THB28
RHB22	1	–	9"	2'–0"	–	5'–9"	–	2T16	–	2T16	2T16	–	2T16	–	–		–	2T10–4"	2T10–4"	2T10–4"	–	1	
RHB25	1	–	9"	1'–6"	–	14'–1.5"	–	2T16	–	2T16	2T16	–	2T20	–	2T16 ⊛		–	2T10–4"	2T10–6"	2T10–4"		1	
RHB25a	1	–	9"	1'–6"	–	14'–7.5"	–	2T18	–	2T16	2T16	–	2T20	–	2T16 ⊛		–	2T8–4"	2T8–6"	2T8–4"		1	
RHB29	1	–	9"	1'–6"	–	5'–9"	–	2T16	–	2T16	2T16	–	2T16	–	–		–	2T10–4"	2T10–4"	2T10–4"	–	1	
RHB30	1	–	9"	1'–6"	–	9'–9"	–	2T16	–	2T16	2T16	–	2T16	–	–		–	2T8–4"	2T8–8"	2T8–4"	–	1	
RHB31	1	–	9"	1'–6"	–	13'–6"	–	2T16	2T20	2T16	2T16	–	2T20	–	2T16 ⊛		–	2T8–4"	2T8–4"	2T8–4"	–	1	
RHB34	1	–	9"	1'–6"	–	14'–3"	–	2T16	2T16	2T16	2T16	–	2T20	–	2T16 ⊛		–	2T8–4"	2T8–4"	2T8–4"	–	1	
RHB35	1	–	9"	1'–6"	–	14'–3"	–	2T16	–	2T16	2T16	–	2T20	–	2T12 ⊛		–	2T8–4"	2T8–8"	2T8–4"	–	1	
RVB7	1	–	9"	1'–6"	–	15'–9"	–	2T16	–	2T16	2T16	–	2T20	–	2T16 ⊛		–	2T8–4"	2T8–4"	2T8–4"	–	1	
RVB8	1	–	9"	1'–6"	–	11'–0"	–	2T16	–	2T16	2T16	–	2T20	–	2T12		–	2T8–4"	2T8–8"	2T8–4"	–	1	
RVB9	1	–	9"	1'–6"	–	12'–6"	–	2T16	–	2T16	2T16	–	2T20	–	–		–	2T8–4"	2T8–8"	2T8–4"	–	1	
1VB13	1	–	9"	1'–6"	–	17'–0"	–	2T20	–	2T20	2T20	2T16	2T20	–	2T20 ⊛		–	2T10–4"	2T10–6"	2T10–4"	–	1	
1VB14	1	–	9"	2'–0"	–	9'–11"	–	2T20	2T16	2T20	2T20	2T16	2T20	–	2T16 ⊛		–	2T12–4"	2T12–4"	2T12–4"	–	1	
RVB17	1	–	9"	1'–6"	–	11'–9"	–	2T16	–	2T16	2T16	–	2T16	–	–		–	2T8–4"	2T8–8"	2T8–4"	–	1	
RVB18	1	–	9"	1'–6"	–	15'–9"	–	2T20	2T16	2T20	2T20	–	2T25	–	2T16 ⊛		–	2T8–4"	2T8–6"	2T8–4"	–	1	
RVB19	1	–	9"	1'–6"	–	6'–9"	–	2T16	–	2T16	2T16	–	2T16	–	–		–	2T8–4"	2T8–8"	2T8–4"	–	1	
RVB23	1	–	9"	1'–6"	–	12'–6"	–	2T16	–	2T16	2T16	–	2T20	–	–		–	2T8–4"	2T8–8"	2T8–4"	–	1	
RVB24	1	–	9"	1'–6"	–	10'–7.5"	–	2T16	–	2T16	2T16	–	2T20	–	–		–	2T8–4"	2T8–6"	2T8–4"	–	1	
RVB29	1	–	9"	2'–0"	–	11'–9"	–	2T20	–	2T20	2T20	–	2T25	–	–		–	2T10–4"	2T10–4"	2T10–4"	–	1	
RVB31	2	–	9"	2'–0"	2'–9"	6'–9"	–	2T20	2T16	2T20	2T20	–	2T20	–	–		–	2T10–4"	2T10–6"	2T10–4"	2T10–4"	1	
RVB32	1	–	9"	1'–6"	–	12'–3"	–	2T16	–	2T16	2T16	–	2T20	–	2T12 ⊛		–	2T8–4"	2T8–6"	2T8–4"	–	1	
RVB35	2	–	9"	2'–0"	4'–9"	12'–9"	–	2T25	2T16	2T25	2T25	2T25	2T25	–	–		–	2T12–4"	2T12–4"	2T12–4"	2T12–4"	1	
RVB36	1	–	9"	1'–6"	–	6'–6"	–	2T16	–	2T16	2T16	–	2T16	–	–		–	2T8–4"	2T8–4"	2T8–4"	–	1	
RVB37	1	–	9"	1'–6"	–	11'–3"	–	2T16	–	2T16	2T16	–	2T20	–	–		–	2T8–4"	2T8–6"	2T8–4"	–	1	
RVB40	1	–	9"	2'–0"	–	12'–0"	–	2T16	2t12	2T16	2T16	–	2T20	–	–		–	2T8–4"	2T8–6"	2T8–4"	–	1	
RVB41	1	–	9"	2'–0"	–	17'–9"	–	2T25	–	2T25	2T25	–	2T25	–	–		–	2T8–4"	2T8–6"	2T8–4"	–	1	
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	T4	T5	B1	B2	B3		BAR SIDE	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			REINFORCEMENT										STIRRUPS					

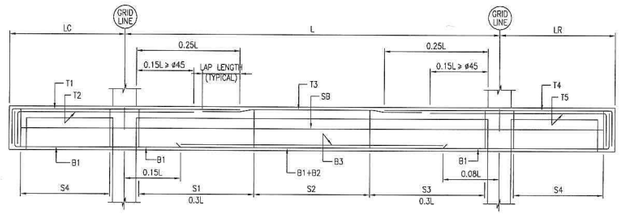
NOTES :

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
2. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
3. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 900c/c BETWEEN EACH LAYER OF MAIN STEEL.
4. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
5. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM
6. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS
7. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE.

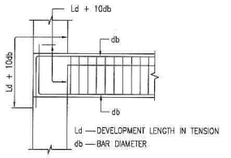


TYPICAL DETAIL OF SINGLE SPAN BEAM (1)

L —— LENGTH OF SPAN UNDER CONSIDERATION
LC —— LENGTH OF LEFT END CANTILEVER
RC —— LENGTH OF RIGHT END CANTILEVER
(1) —— CATEGORY

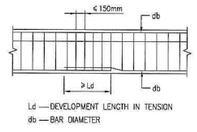


TYPICAL DETAIL OF SINGLE SPAN BEAM WITH CANTILEVERS (2)



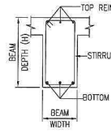
ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN

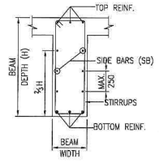


LAP/SPLICE IN BEAM

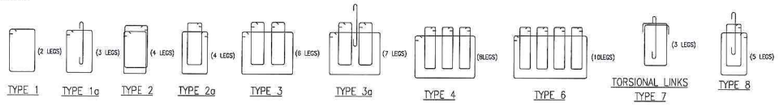
NOTE:
NOT MORE THAN 50 PERCENT OF THE BARS SHALL BE SPLICED AT ONE SECTION

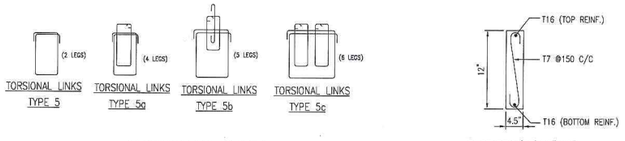


TYP. BEAM SECTION



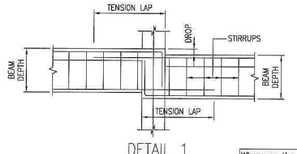
TYP. SIDE BARS DETAIL FOR BEAM DEPTH > 750





STIRRUPS TYPE

DUCT BEAM(DB)4.5"x12"

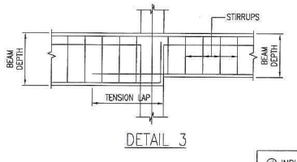


DETAIL 1

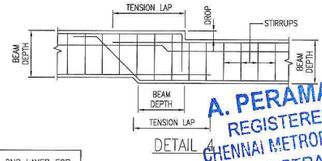


DETAIL 2

Wherever the drop is less than or equivalent to 50
The reinforcement bars can be bent at 1:10 and continued



DETAIL 3



DETAIL 4

⊛ INDICATES IN 2ND LAYER FOR FULL LENGTH OF BEAM

NOTES:

1. ALL DIMENSIONS ARE IN FEET AND INCHES
2. FOR GENERAL NOTES REFER TO DWG. NO. BEI730_S–/NT/–-/01.
3. FOR STANDARD DETAILS REFER TO DWG. NO. BEI730_S–/SD/–-/01.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN, ARCHITECTURAL AND ALL OTHER RELEVANT SERVICES DRAWINGS.
5. GRADE OF CONCRETE GRADE: M30
6. STEEL GRADE: Fe550 CONFORMING TO IS:1786–2008.
7. CLEAR COVER FOR FOOTING 50mm, COLUMN–40mm, SLAB–25mm, BEAM–30mm, RC WALL –30mm U.G.SUMP, STP BASE SLAB AND TANK RC WALLS – 40mm
8. UNLESS OTHERWISE SPECIFIED, LAP/DEVEPMENT LENGTH SHALL NOT BE LESS THAN 50 X DIA OF BAR
9. SEISMIC LOAD HAS BEEN CONSIDECED AS PER IS:1893–2002 WITH THE SEISMIC ZONE III. DUCTILE DETAILING CARRIED OUT AS PER THE STIPULATIONS MADE IN IS:13920–1993
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11. ONUS OF ADVANCE LIES WITH CONTRACTOR/ PROMOTER / BUILDER / OWNER.

FOUNDATION AND COLUMN DESIGNED FOR STILT + 5 FLOORS+ROOF USING CONVENTIONAL BRICKWORK FOR BOTH INTERNAL AND EXTERNAL FILLER WALLS

NO.	AMENDMENTS	BY	DATE
R0	GOOD FOR CONSTRUCTION	Punitha	26.08.25

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :

M/s. SALMA CONSTRUCTION

Architect :

ANSARI ARCHITECTS,
G–3, NANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T–NAGAR,CHENNAI–17.
PH – 28342879 ,28343402

Civil & Structural Engineer :

BURO ENGINEERS (I) PRIVATE LTD.
Civil & Structural Consultants
19, BRINDHAVAN STREET, 2nd FLOOR, MYLAPORE
CHENNAI 600004 INDIA TEL: 42656573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

STRUCTURAL

project title

PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

drawing title

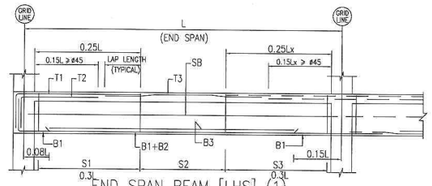
TERRACE FLOOR BEAM DETAILS
SHEET :3 OF 3

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S–BM/SHR/–-/03	Revision	–

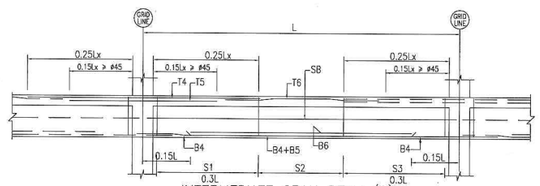
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CAD FILE NAME: BEI730_S–BM/03

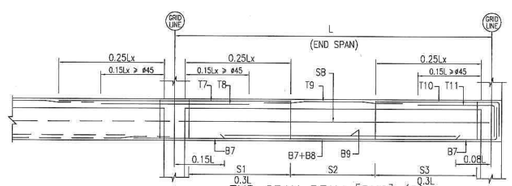
A. PERAMAIYAN, M.E. (Struct.),
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No. SE/GR-I/19/03/026
NEW No. 31 (OLD No.14), BESANT AVENUE ROAD,
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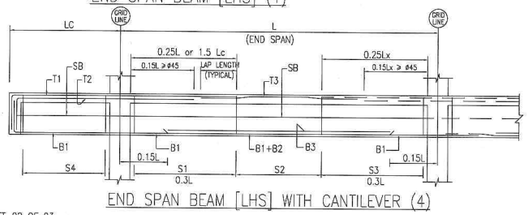
END SPAN BEAM [LHS] (1)



INTERMEDIATE SPAN BEAM (2)



END SPAN BEAM [RHS] (3)

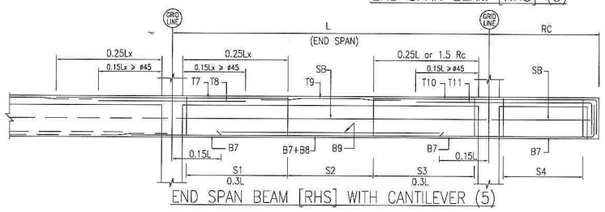


END SPAN BEAM [LHS] WITH CANTILEVER (4)

LEGEND

L — —LENGTH OF SPAN UNDER CONSIDERATION
La— —LENGTH OF ADJACENT SPAN TO THE SPAN UNDER CONSIDERATION
Lc — —LENGTH OF LEFT END CANTILEVER
Rc — —LENGTH OF RIGHT END CANTILEVER
(1)— —CATEGORY

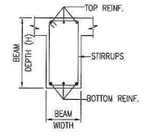
Lx = Length of span under consideration or Length of adjacent span whichever is greater



END SPAN BEAM [RHS] WITH CANTILEVER (5)

SHEET-02 OF 03

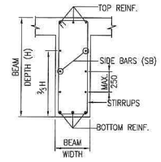
LOCATION			SIZE		SPAN			REINFORCEMENT																			SIDE BAR EACH FACE (EF)	STIRRUPS					REMARKS
								LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN												
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	
RVB10	1	–	9"	2'-0"	–	11'-9"	–	2T25	–	2T25	2T25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
RVB11	2	–	9"	2'-0"	–	22'-6"	–	–	–	–	–	–	–	2T25	2T20	2T25	2T25	–	2T25④	–	–	–	–	–	–	–	–	–	2T12-4"	2T12-6"	2T12-4"	–	1	
RVB12	3	–	9"	2'-0"	–	8'-9"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T20	2T25	2T25	–	2T25	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
RVB15	1	–	9"	1'-6"	–	10'-9"	–	2T16	–	2T16	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8-4"	2T8-8"	2T8-4"	–	1	
RVB16	3	–	9"	1'-6"	–	6'-9"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T16	2T12	2T16	2T16	–	2T16	–	–	–	2T8-4"	2T8-8"	2T8-4"	–	1	
RVB20	1	–	9"	2'-0"	–	18'-4.5"	–	2T20	–	2T20	2T25	–	2T12④	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
RVB21	2	–	9"	2'-0"	–	18'-9"	–	–	–	–	–	–	–	2T20	2T20	2T20	2T20	–	2T12④	–	–	–	–	–	–	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
RVB22	3	–	9"	1'-6"	–	5'-9"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T20	2T20	2T20	–	2T20	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
RVB25	4	–	9"	2'-0"	4'-9"	19'-6"	–	2T25	2T20	2T25	2T25	–	2T20④	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T12-4"	2T12-6"	2T12-4"	2T12-4"	1	
RVB26	2	–	9"	2'-0"	–	18'-9"	–	–	–	–	–	–	–	2T25	2T20	2T25	2T25	–	2T20④	–	–	–	–	–	–	–	–	–	2T12-4"	2T12-6"	2T12-4"	–	1	
RVB27	2	–	9"	2'-0"	–	17'-6"	–	–	–	–	–	–	–	2T25	2T25	2T25	2T25	–	2T25④	–	–	–	–	–	–	–	–	–	2T12-4"	2T12-6"	2T12-4"	–	1	
RVB28	3	–	9"	1'-6"	–	5'-9"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T25	2T25	2T25	2T16	2T25	–	2T16④	–	2T10-4"	2T10-6"	2T10-4"	–	1	
RVB30a	1	–	9"	1'-6"	–	6'-4.5"	–	2T20	–	2T20	2T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8-4"	2T8-4"	2T8-4"	–	1	
RVB30	3	–	9"	1'-6"	–	15'-9"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T20	2T20	2T20	–	2T25	–	2T16④	–	2T8-4"	2T8-4"	2T8-4"	–	1	
RVB33	1	–	9"	2'-0"	–	17'-9"	–	2T20	–	2T20	2T25	–	2T20④	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8-4"	2T8-4"	2T8-4"	–	1	
RVB34	3	–	9"	2'-0"	–	12'-0"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T25	2T20	2T20	–	2T20	–	–	–	2T8-4"	2T8-4"	2T8-4"	–	1	
RVB38	1	–	9"	2'-0"	–	18'-3"	–	2T20	–	2T20	2T20	–	2T16④	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10-4"	2T10-6"	2T10-4"	–	1	
RVB39	3	–	9"	2'-0"	–	8'-3"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T20	2T20	2T20	–	2T20	–	–	–	2T10-4"	2T10-4"	2T10-4"	–	1	
RVB42	4	–	9"	2'-0"	5'-9"	12'-0"	–	2T20	2T20	2T20	2T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10-4"	2T10-4"	2T10-4"	2T10-4"	1	
RVB43	3	–	9"	2'-0"	–	12'-3"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T16	2T20	2T20	–	2T20	–	–	–	2T8-4"	2T8-8"	2T8-4"	–	1	
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN								BAR SIDE	STIRRUPS					
								REINFORCEMENT																										



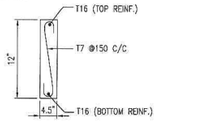
TYP. BEAM SECTION

NOTES :

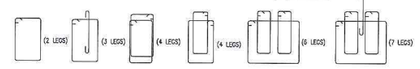
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4. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
5. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM
6. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS
7. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE



TYP. SIDE BARS DETAIL FOR BEAM DEPTH > 750



DUCT BEAM(DB)4.5"x12"

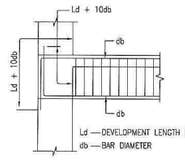


TYPE 1 TYPE 1a TYPE 2 TYPE 2a TYPE 3 TYPE 3a

STIRRUPS TYPE

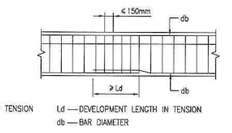
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ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN



LAP/SPLICE IN BEAM

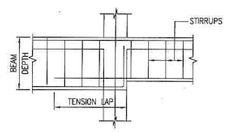
NOTE:
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DETAIL 1



DETAIL 2



DETAIL 3

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CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
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Mobile: +91 99625 45630

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FOUNDATION AND COLUMN DESIGNED FOR STILT + 5 FLOORS+ROOF USING CONVENTIONAL BRICKWORK FOR BOTH INTERNAL AND EXTERNAL FILLER WALLS

NO.	AMENDMENTS	BY	DATE
R0	GOOD FOR CONSTRUCTION	Punitha	26.08.25

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client : **M/s. SALMA CONSTRUCTION**

Architect :
ANSARI ARCHITECTS,
G-3, NANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T-NAGAR,CHENNAI-17.
PH :- 28342879 ,28343402

Civil & Structural Engineer :
BURO ENGINEERS (I) PRIVATE LTD.
Civil & Structural Consultants
19, BRINDHAVAN STREET, 2nd FLOOR, MYLAPORE
CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : burolndia@buroengineers.in

CONSTRUCTION DRAWING

STRUCTURAL

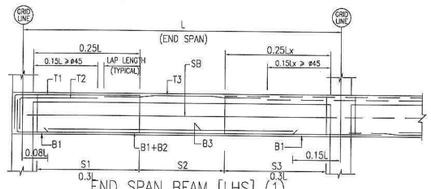
project title
PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

drawing title
TERRACE FLOOR BEAM DETAILS
SHEET :2 OF 3

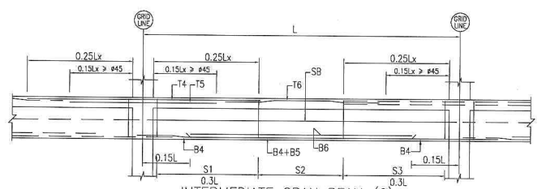
scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-BM/SHR/--/02	Revision	–

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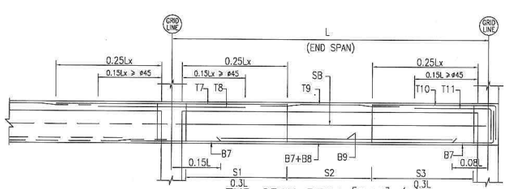
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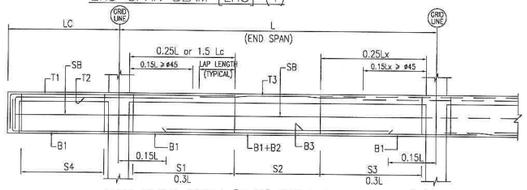
END SPAN BEAM [LHS] (1)



INTERMEDIATE SPAN BEAM (2)



END SPAN BEAM [RHS] (3)



END SPAN BEAM [LHS] WITH CANTILEVER (4)

LEGEND

L — — LENGTH OF SPAN UNDER CONSIDERATION

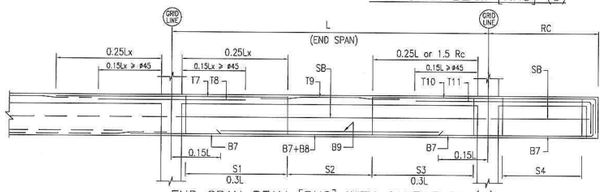
La — — LENGTH OF ADJACENT SPAN TO THE SPAN UNDER CONSIDERATION

Lc — — LENGTH OF LEFT END CANTILEVER

Rc — — LENGTH OF RIGHT END CANTILEVER

(1) — — CATEGORY

Lx = Length of span under consideration or Length of adjacent span whichever is greater

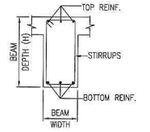


END SPAN BEAM [RHS] WITH CANTILEVER (5)

SHEET-01 OF 03

LOCATION			SIZE		SPAN			REINFORCEMENT																				SIDE BAR EACH FACE (EF)	STIRRUPS					REMARKS
BEAM MARKING	CATEGORY	GRID LINE OR BEAM MARK	WIDTH (mm)	DEPTH (mm)	LEFT END CANTILEVER Lc	SPAN (APPROX) L	RIGHT END CANTILEVER Rc	LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN										S1	S2	S3	S4	TYPE	
								T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	S8						
RHB1	1	–	9"	2'–0"	–	17'–10.5"	–	2T20	–	2T20	2T20	–	2T16 ④	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–6"	2T8–4"	–	1	
RHB2	3	–	9"	2'–0"	–	17'–6"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T20	2T20	2T20	–	2T20	–	2T16 ④	–	2T8–4"	2T8–6"	2T8–4"	–	1	
RHB4	1	–	9"	2'–0"	–	17'–10.5"	–	2T25	–	2T25	2T25	–	2T16 ④	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–6"	2T8–4"	–	1	
RHB5	2	–	9"	2'–0"	–	17'–6"	–	–	–	–	–	–	–	2T25	2T20	2T25	2T25	–	2T16 ④	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–6"	2T8–4"	–	1	
RHB6	3	–	9"	2'–0"	–	9'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T20	2T25	2T25	–	2T25	–	–	–	2T8–4"	2T8–6"	2T8–4"	–	1	
RHB9	1	–	9"	1'–6"	–	21'–0"	–	2T25	2T25	2T25	2T25	–	2T12 ④	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–4"	2T8–4"	–	1	
RHB10	2	–	9"	1'–6"	–	9'–6"	–	–	–	–	–	–	–	2T25	2T25	2T25	2T25	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–4"	2T8–4"	–	1	
RHB11	3	–	9"	2'–0"	–	21'–4.5"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T25	2T25	2T25	2T25	2T25	–	2T25 ④	–	2T10–4"	2T10–4"	2T10–4"	–	1	
RHB14	1	–	9"	2'–0"	–	17'–9"	–	2T20	–	2T20	2T25	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–4"	2T8–4"	–	1	
RHB15	3	–	9"	2'–0"	–	6'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T25	2T20	2T20	–	2T25	–	–	–	2T8–4"	2T8–4"	2T8–4"	–	1	
RHB18	1	–	9"	2'–0"	–	21'–9"	–	2T25	–	2T25	2T25	–	2T25 ④	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10–4"	2T10–6"	2T10–4"	–	1	
RHB19	3	–	9"	1'–6"	–	14'–6"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T25	2T25	2T25	2T25	–	2T25	–	–	–	2T10–4"	2T10–8"	2T10–4"	–	1	
RHB23	1	–	9"	1'–6"	–	12'–9"	–	2T16	–	2T16	2T16	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
RHB24	3	–	9"	1'–6"	–	14'–6"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T16	2T12	2T16	2T16	–	2T16	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
RHB26	1	–	9"	2'–0"	–	17'–3"	–	2T20	–	2T20	2T20	–	2T20 ④	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10–4"	2T10–6"	2T10–4"	–	1	
RHB27	3	–	9"	2'–0"	–	8'–9"	2'–9"	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T25	2T20	2T20	–	2T20	–	–	–	2T10–4"	2T10–6"	2T10–4"	–	1	
RHB32	1	–	9"	2'–0"	–	17'–3"	–	2T20	–	2T20	2T20	–	2T20 ④	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10–4"	2T10–6"	2T10–4"	–	1	
RHB33	5	–	9"	2'–0"	–	8'–9"	2'–9"	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T20	2T20	2T20	–	2T20	–	–	–	2T10–4"	2T10–4"	2T10–4"	2T10–4"	1	
RHB36	4	–	9"	2'–0"	3'–6"	10'–6"	–	2T20	2T20	2T20	2T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10–4"	2T10–4"	2T10–4"	2T10–4"	1	
RHB36a	3	–	9"	1'–6"	–	7'–6"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	–	2T20	2T20	–	2T20	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
RHB37	1	–	9"	2'–0"	–	17'–3"	–	2T20	–	2T20	2T20	–	2T16 ④	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10–4"	2T10–6"	2T10–4"	–	1	
RHB38	3	–	9"	2'–0"	–	8'–9"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T25	2T20	2T20	–	2T20	–	–	–	2T10–4"	2T10–4"	2T10–4"	–	1	
RHB39	1	–	9"	1'–6"	–	14'–9"	–	2T16	–	2T16	2T16	–	2T12 ④	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
RHB40	3	–	9"	2'–0"	–	12'–4.5"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T16	2T12	2T16	2T16	–	2T16	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
RVB1	4	–	9"	2'–0"	2'–6"	22'–4.5"	–	2T20	2T25	2T20	2T20	–	2T20 ④	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T10–4"	2T10–4"	2T10–4"	2T10–4"	1	
RVB2	2	–	9"	2'–0"	–	17'–0"	–	–	–	–	–	–	–	2T20	2T20	2T20	2T20	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
RVB3	3	–	9"	1'–6"	–	9'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	–	2T20	2T20	–	2T20	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
RVB5	1	–	9"	2'–0"	–	17'–9"	–	2T20	–	2T20	2T20	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	2T8–4"	2T8–8"	2T8–4"	–	1	
RVB6	3	–	9"	2'–0"	–	10'–0"	–	–	–	–	–	–	–	–	–	–	–	–	–	2T20	2T16	2T20	2T20	2T16	2T20	–	–	–	2T10–4"	2T10–6"	2T10–4"	–	1	
MARKING BEAM	CATEGORY	BEAM MARK OR GRID LINE	(mm) WIDTH	(mm) DEPTH	Lc CANTILEVER LEFT END	L (APPROX) SPAN	Rc CANTILEVER RIGHT END	T1	T2	T3	B1	B2	B3	T4	T5	T6	B4	B5	B6	T7	T8	T9	T10	T11	B7	B8	B9	SB	S1	S2	S3	S4	TYPE	REMARKS
LOCATION			SIZE		SPAN			LEFT END SPAN						INTERMEDIATE SPAN						RIGHT END SPAN								BAR SIDE	STIRRUPS					
								REINFORCEMENT																										

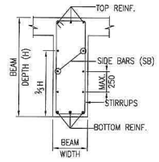
④ INDICATES IN 2ND LAYER FOR FULL LENGTH OF BEAM



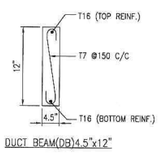
TYP. BEAM SECTION

NOTES :

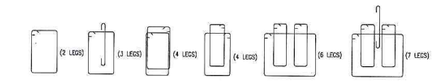
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN AND ALL OTHER RELEVANT DRAWINGS.
2. IF THE REINFORCEMENT IS PROVIDED IN TWO LAYERS OR MORE, THEN SPACER BARS BETWEEN THE LAYERS NEED TO BE PROVIDED
3. SPACER BARS TO BE T25 OR MAIN BAR SIZE (WHICHEVER IS GREATER) AT 900c/c BETWEEN EACH LAYER OF MAIN STEEL.
4. THE SPAN LENGTH INDICATED ARE NOT TO BE USED FOR SETTING OUT OR MEASUREMENT.
5. IF SAME SIZE OF THE REINFORCEMENT BARS IS INDICATED THROUGHOUT FOR BOTTOM OR TOP REINFORCEMENT, THE LAP PROVIDED FOR THE REINFORCEMENT CAN BE OMITTED BY PROVIDING STRAIGHT BARS FOR THE WHOLE LENGTH OF THE BEAM
6. LAP LENGTH FOR BARS SHOULD BE SAME AS TENSION ANCHORAGE LENGTH BASED UPON THE LARGER BAR DIAMETER FOR UNEQUAL SIZE OF BARS
7. FIRST STIRRUP OF BEAM SHOULD BE 50mm (MAXIMUM) FROM THE COLUMN FACE

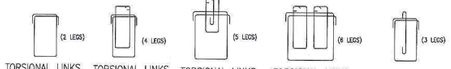


TYP. SIDE BARS DETAIL FOR BEAM DEPTH > 750

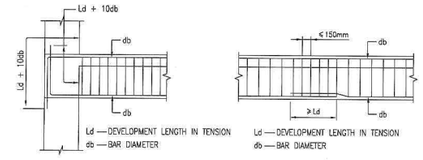


DUCT BEAM(DB)4.5"x12"





STIRRUPS TYPE

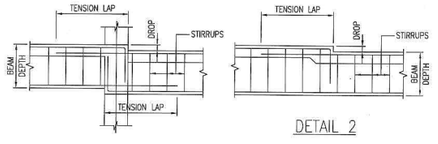


ANCHORAGE OF BEAM BARS AT BEAM AND COLUMN JUNCTION (EXTERNAL JOINT)

NOTE:
IN AN INTERNAL JOINT, BOTH TOP & BOTTOM BARS OF THE BEAM SHALL BE TAKEN CONTINUOUSLY THROUGH THE COLUMN

LAP/SPLICE IN BEAM

NOTE:
NOT MORE THAN 50 PERCENT OF THE BARS SHALL BE SPLICED AT ONE SECTION



Wherever the drop is less than or equivalent to 50
The reinforcement bars can be bent at 1:10 and continued

A. PERAMAIYAN, M.E., (Struct.), MIE
REGISTERED STRUCTURAL ENGINEER
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
REGISTRATION No. SE/GR-I/19/03/026
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ADYAR, CHENNAI - 600 020.
E-Mail: peram@buroengineers.in
Mobile: +91 99625 45630

NOTES:

1. ALL DIMENSIONS ARE IN FEET AND INCHES
2. FOR GENERAL NOTES REFER TO DWG. NO. BEI730_S–/NT/–/01.
3. FOR STANDARD DETAILS REFER TO DWG. NO. BEI730_S–/SD/–/01.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN, ARCHITECTURAL AND ALL OTHER RELEVANT SERVICES DRAWINGS.
5. GRADE OF CONCRETE GRADE: M30
6. STEEL GRADE: Fe550 CONFORMING TO IS:1786–2008.
7. CLEAR COVER FOR FOOTING 50mm, COLUMN–40mm, SLAB–25mm, BEAM–30mm, RC WALL –30mm U.G.SUMP, STP BASE SLAB AND TANK RC WALLS – 40mm
8. UNLESS OTHERWISE SPECIFIED, LAP/DEVEPMENT LENGTH SHALL NOT BE LESS THAN 50 X DIA OF BAR
9. SEISMIC LOAD HAS BEEN CONSIDECED AS PER IS:1893–2002 WITH THE SEISMIC ZONE III, DUCTILE DETAILING CARRIED OUT AS PER THE STIPULATIONS MADE IN IS:13920–1993
10. STRUCTURE TO BE CONSTRUCTED IN ACCORDANCE WITH I.S.456–2000, NBC (SP7–1983) AND RELAVANT INDIAN CODE STIPULATIONS
11. ONUS OF ADVANCE LIES WITH CONTRACTOR/ PROMOTER / BUILDER / OWNER.

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NO.	AMENDMENTS	BY	DATE
R0	GOOD FOR CONSTRUCTION	Punitha	26.08.25

Landscape Consultant :

Project Managers & Quantity Surveyors :

Electrical Consultant :

Plumbing Consultant :

Client :

M/s. SALMA CONSTRUCTION

Architect :

ANSARI ARCHITECTS,
G–3, NANDA APARTMENTS,
NO.21/7A, HABIBULLAH ROAD,
T–NAGAR,CHENNAI–17.
PH – 28342879 ,28343402

Civil & Structural Engineer :

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CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

STRUCTURAL

project title

PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE. WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

drawing title

TERRACE FLOOR BEAM DETAILS

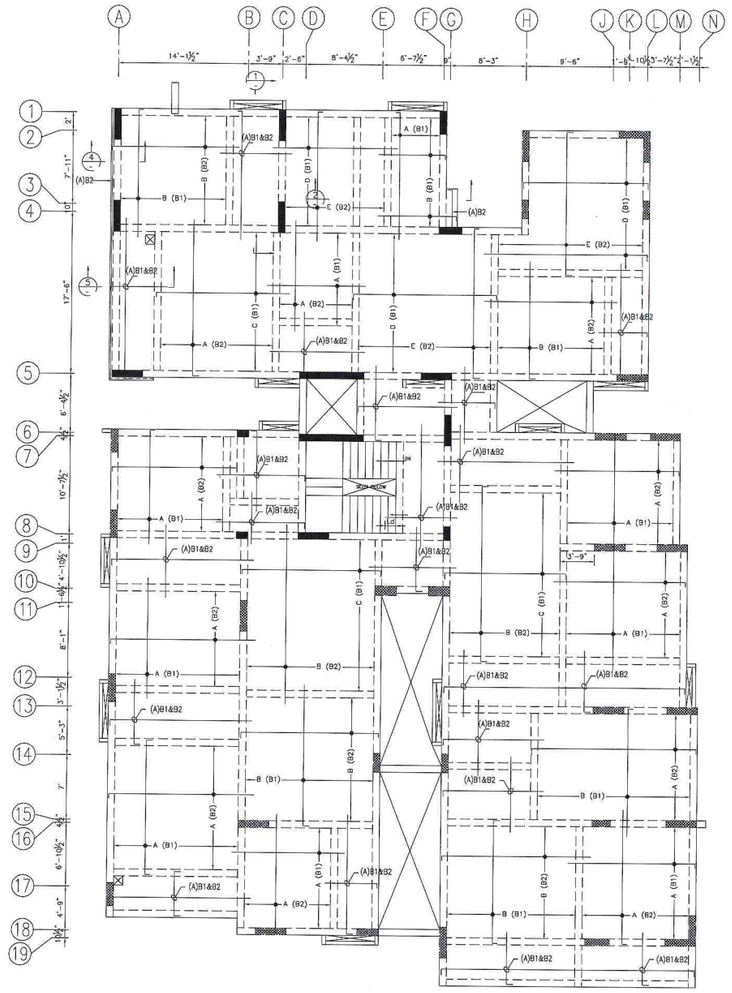
SHEET 01 OF 3

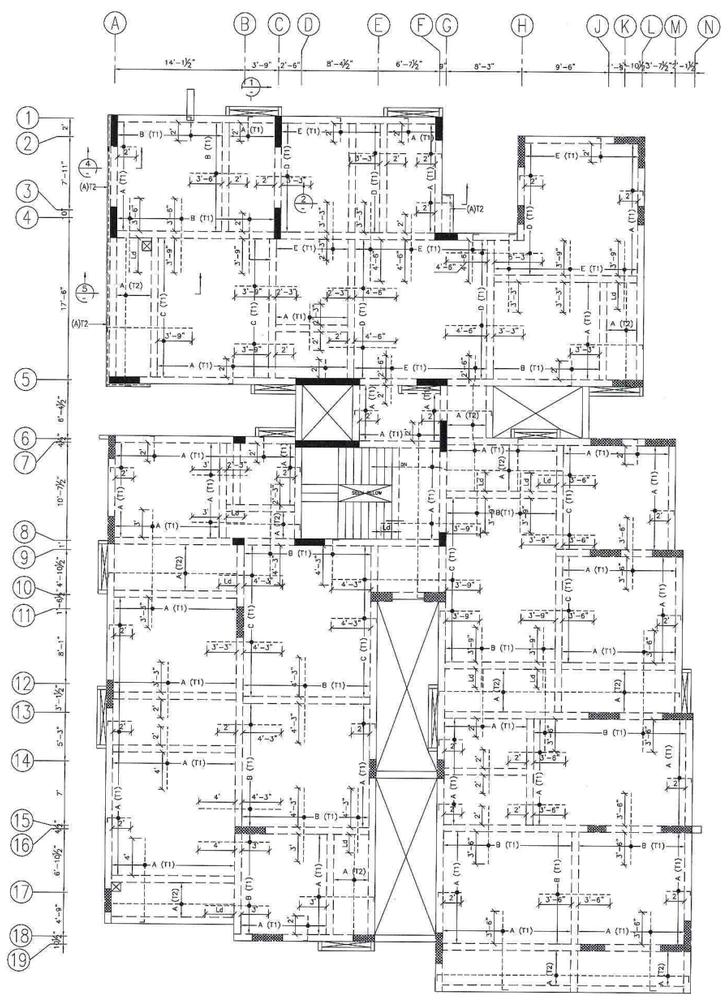
scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S–BM/SHR/–/01	Revision	–

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CAD FILE NAME: BEI730_S–BM/SHR/–/01

ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWING BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ONTHE DIMENSIONS.





BAR LAYING SEQUENCE



LEGEND:
——BOTTOM REINFORCEMENT

BAR LAYING SEQUENCE



LEGEND:
- - - - -TOP REINFORCEMENT

NOTES:
FOR CLARITY PURPOSE DISTRIBUTION BARS NOT SHOWN. ALL DISTRIBUTION BARS ARE TO BE T8-8"(T2 & B2) UNLESS OTHERWISE INDICATED

NOTES
UNLESS OTHERWISE SPECIFIED
1. ALL BEAM ARE TO BE (9"x1'-6") SIZES.
2. ALL SLAB THICKNESS ARE TO BE 5" THICK.
3. GRADE OF CONCRETE M30.
4. GRADE OF STEEL Fe550
5. DUCT BEAM DB (4.5"x1'-0")

LOAD TABLE:-

LOADINGS	LL kN/m2	SDL kN/m2
MULTIPURPOSE HALL	5.0	1.8
TOILETS	2.0	1.8 + 3.0 ⊛
ROOF	3.0	3.0

⊛ FILLING LOAD : CONSIDERED BRICK BAT COBA OR ITS EQUIVALENT WITH THE DENSITY NOT MORE THAN 20KN/M²
FLOOR FINISH : LOAD EQUIVALENT TO 50mm HAS BEEN CONSIDERED

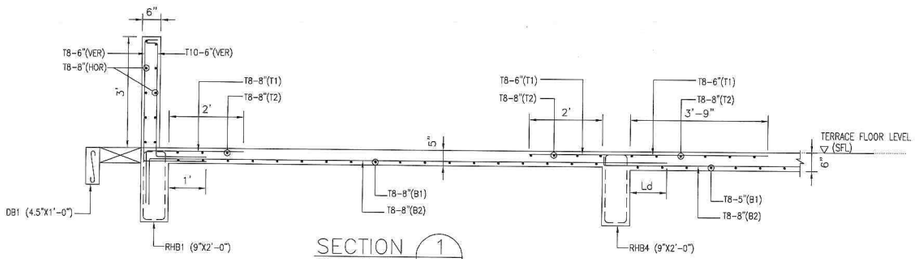
REINFORCEMENT SCHEDULE

MARK	SIZE	SPACING
A	T8	8"
B	T8	6"
C	T8	5"
D	T10	6"
E	T10	8"

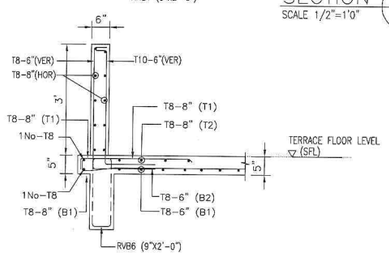
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4. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE KEY PLAN, ARCHITECTURAL AND ALL OTHER RELEVANT SERVICES DRAWINGS.
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TERRACE FLOOR SLAB BOTTOM REINFORCEMENT DETAILS
SCALE 1/6"=1'0"

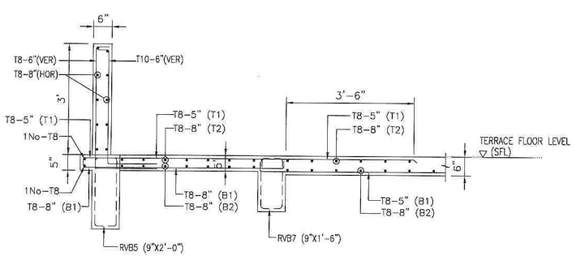


SECTION 1
SCALE 1/2"=1'0"



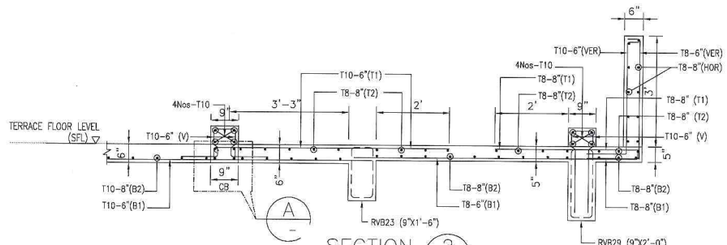
TYP.CANTILEVER PROJECTION

SECTION 4
SCALE 1/2"=1'0"

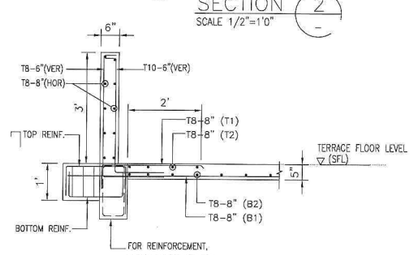


SECTION 5
SCALE 1/2"=1'0"

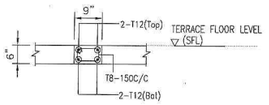
TERRACE FLOOR SLAB TOP REINFORCEMENT DETAILS
SCALE 1/6"=1'0"



SECTION 2
SCALE 1/2"=1'0"

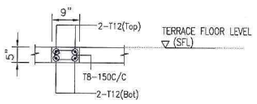


TYP.REINFORCEMENT DETAIL FOR DB (4.5"X1-'0")
SCALE 1/2"=1'0"

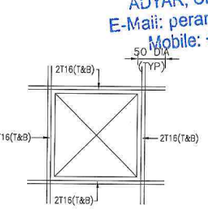


CB1 (9"X6")

DETAIL A
SCALE 1:25



CB2 (9"X6")



TYPICAL TRIMMER BAR DETAILS AROUND CUT OUT IN FLOOR SLAB MAX (1'-0" X 1'-0")
SCALE N.T.S

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NO.	AMENDMENTS	BY	DATE
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Electrical Consultant :

Plumbing Consultant :

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CHENNAI 600004 INDIA TEL: 42658573/74
e Mail : buroindia@buroengineers.in

GOOD FOR CONSTRUCTION

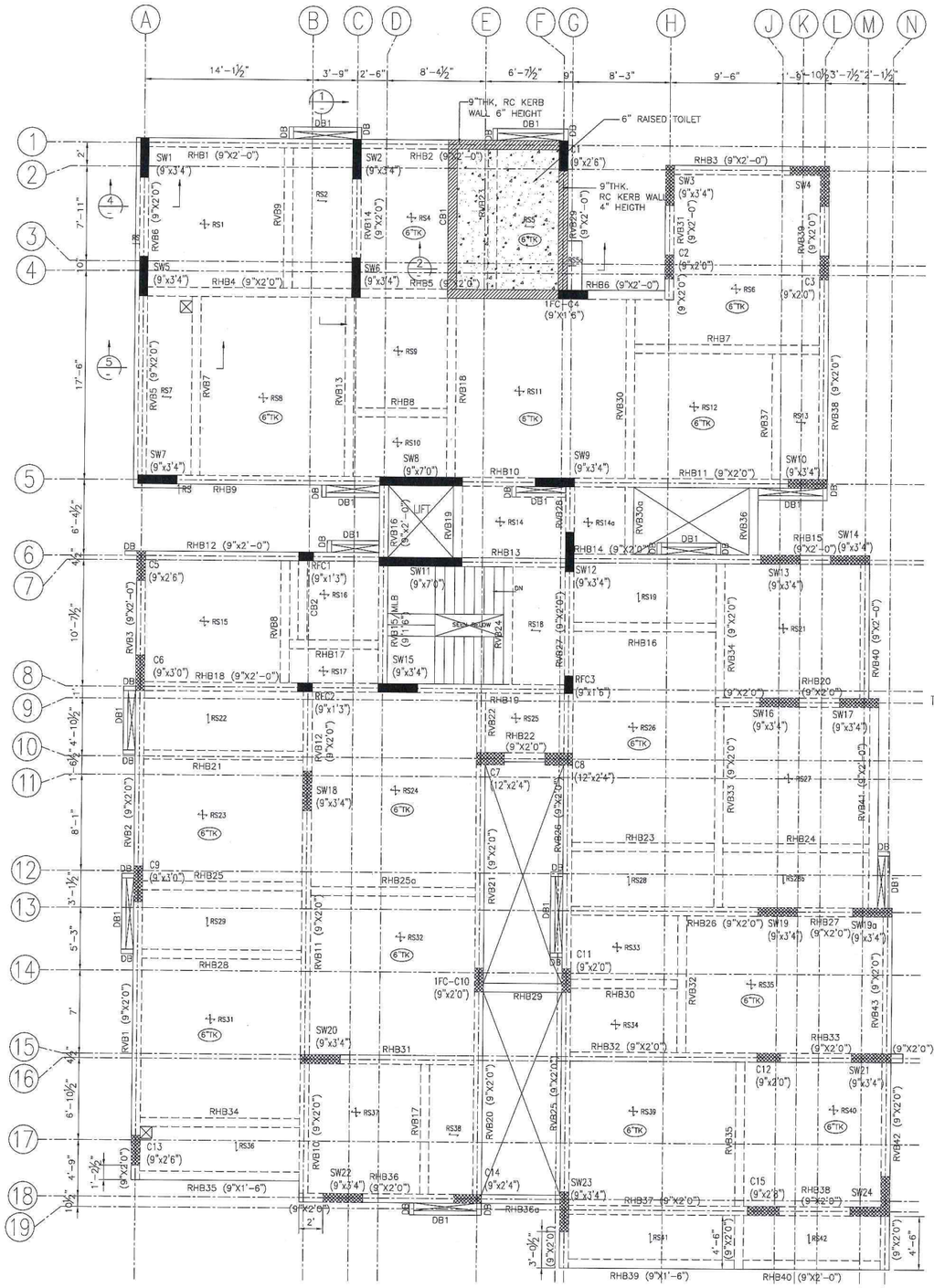
STRUCTURAL

project title
PROPOSED CONSTRUCTION OF STILT FLOOR (PARKING) + 5 FLOORS RESIDENTIAL BUILDING (HEIGHT - 18.30M) 12 DWELLING UNITS AVAILING PREMIUM FSI WITH TOD BENEFIT AT OLD DOOR NO:16,16/1,17, NEW DOOR NO:24/67, HALLS ROAD, KIPAUK, CHENNAI 600010, COMPRISED IN OLD S.NO: 139PART, T.S.NO:139/2, 139/7 & 139/8, BLOCK NO:10 OF EGMORE VILLAGE, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

drawing title
TERRACE FLOOR SLAB REINFORCEMENT DETAIL (TOP AND BOTTOM)

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-SBR/--/01		Revision -

THIS DRAWING IS COPYRIGHT



NOTES
UNLESS OTHERWISE SPECIFIED

1. ALL BEAM ARE TO BE (9"x1'-6") SIZES.
2. ALL SLAB THICKNESS ARE TO BE 5" THICK.
3. GRADE OF CONCRETE M30.
4. GRADE OF STEEL Fe550
5. DUCT BEAM DB (4.5"x1'-0")
6. 9"THK, KERB WALL 6" HEIGHT
7. 6" RAISED TOILET
8. COLUMN TERMINATED AT ROOF LEVEL

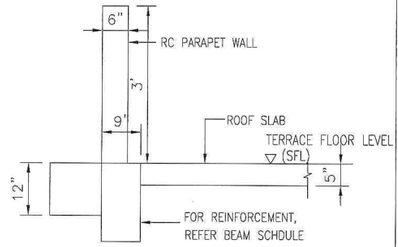
LOAD TABLE:-

LOADINGS	LL kN/m2	SDL kN/m2
MULTIPURPOSE HALL	5.0	1.8
TOILETS	2.0	1.8 + 3.0 ⊛
ROOF	3.0	3.0

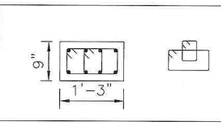
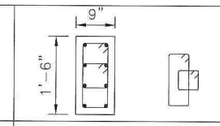
LEGEND

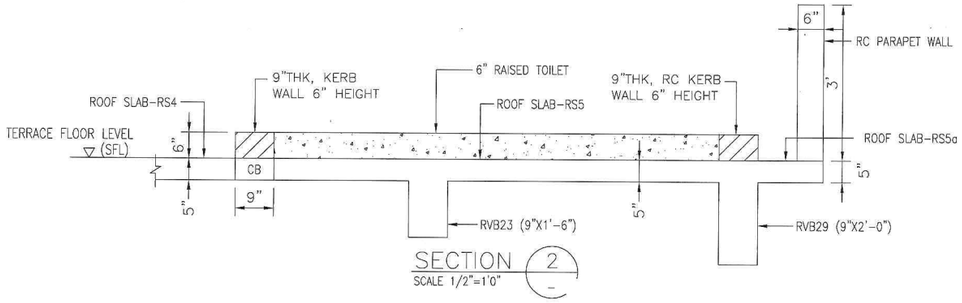
RVB – ROOF VERTICAL BEAM
RHB – ROOF FLOOR HORIZONTAL BEAM
RS – ROOF FLOOR SLAB
DB – DUCT BEAM
SFL – STRUCTURAL FLOOR LEVEL

⊛ FILLING LOAD : CONSIDERED BRICK BAT COBA OR ITS EQUIVALENT WITH THE DENSITY NOT MORE THAN 20KN/M³
FLOOR FINISH : LOAD EQUIVALENT TO 50mm HAS BEEN CONSIDERED



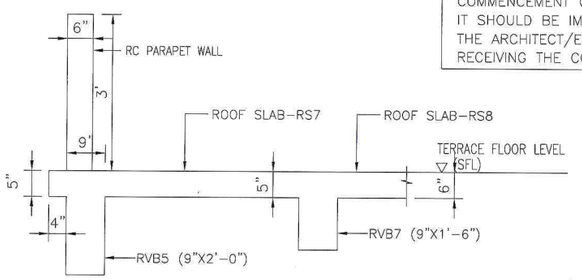
TYP.REINFORCEMENT DETAIL FOR DB (9"X1-'0")
SCALE 1/2"=1'0"

TERRACE FLOOR TO OVER HEAD TANK BASE		
SIZE	RFC1 & RFC2 (9"x1'-3")	RFC3 (9"x1'-6")
CONCRETE GRADE/COVER	M30/40mm	M30/40mm
REINFORCEMENT/STEEL GRADE Fe	8T20/Fe 500	8T20/Fe 500
LINKS/TIES/STEEL GRADE Fe	T8-100/150/100/Fe 550	T8-100/150/100/Fe 550

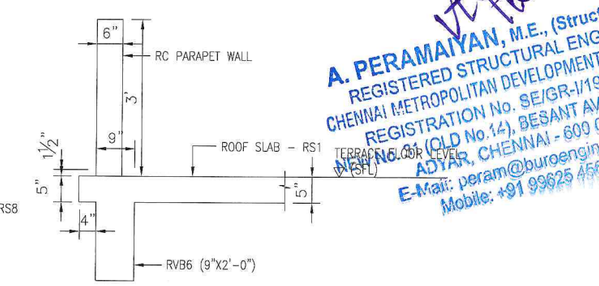


SECTION 2
SCALE 1/2"=1'0"

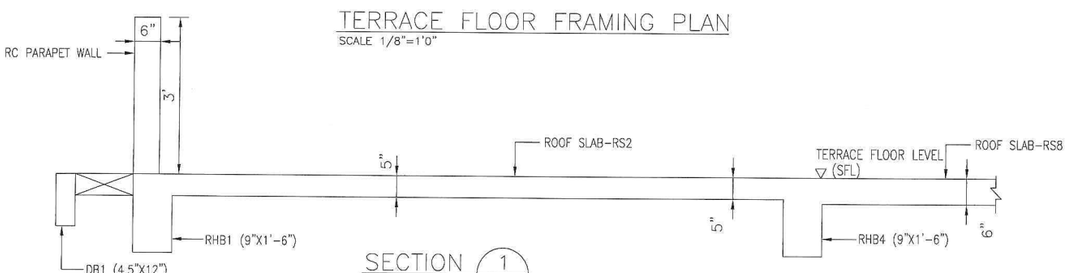
ALL SETTING OUT DIMENSION SHOWN IN THE STRUCTURAL DRAWINGS, SHALL BE VERIFIED WITH THE LATEST ARCHITECTURAL DRAWING BEFORE COMMENCEMENT OF CONSTRUCTION. IF THERE IS ANY DISCREPANCY, IT SHOULD BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.THE CONSTRUCTION CAN ONLY PROCEED UPON RECEIVING THE CONFIRMATION FROM THE ARCHITECT ONTHE DIMENSIONS.



SECTION 5
SCALE 1/2"=1'0"



TYP.CANTILEVER PROJECTION DETAIL
SECTION 4
SCALE 1/2"=1'0"



SECTION 1
SCALE 1/2"=1'0"

TERRACE FLOOR FRAMING PLAN
SCALE 1/8"=1'0"

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GOOD FOR CONSTRUCTION

STRUCTURAL

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drawing title

TERRACE FLOOR FRAMING PLAN

scale	AS SHOWN	design by	TP
drawn by	Punitha	checked by	AY
date	JULY 2024	approved by	AP
drawing no.	BEI730_S-FPR/--/01	Revision	–

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CAD FILE NAME: BEI730_S-FPR/01

THE LANDLENS SUITE

Eight ways to know a piece of land before you pay for it.

This report covers one part of the picture. These cover the rest, drawn from the same government records, for any property in Tamil Nadu.

LandLens One
Ask anything about a property and get an answer grounded in live government records, with the sources shown.
/landlens/one

Verify My Land
Every record check run on one property and returned as a single report.
/landlens/verify-my-land

Legal Opinion
An advocate's written opinion on the title, built on the records we pull for it.
/landlens

One Map
Every layer on one map: the parcel, its boundary, zoning, water bodies and what sits around it.
/landlens/one/map

PriceMap
What land actually changed hands for around this plot, taken from the registered deeds.
/landlens/pricemap

Build Scope
What you are allowed to build here: floor space, height, coverage and setbacks.
/landlens/build-scope

Property Tracker
Watch a property and hear about it when something new is registered against it.
/landlens/property-tracker

Deal Room
Run the transaction in one place: documents, stamping, signatures and the parties.
/landlens/deal-room

FREE TOOLS · NO ACCOUNT NEEDED

Twenty-four checks you can run yourself, at no cost.

Records and verification

The registers themselves, read for you.

- Encumbrance Certificate
- Patta and Chitta
- Field Measurement Sketch
- EC Analyzer
- Bank charge check
- Court case search
- Seller background check
- Approval check by survey

Value and duty

What it is worth and what it costs to register.

- Guideline value by street
- Guideline value by survey
- Stamp duty and registration fees
- Capital gains
- Floor space index
- Area unit converter

Zoning and land use

What the plan says can happen on this land.

- Land use zone finder
- CMDA land use check
- Coastal regulation zone
- Master plan check
- Water bodies finder
- Airport height clearance

Registers and directories

Who holds it, and which office keeps the record.

- Find your registering office
- Temple property check
- Waqf property check
- RERA register

Every free tool
/tools

Services we run for you
/services

The LandLens suite
/landlens/one

Verified RealEstate™

Every claim in this document traces back to a government record.

- Legal opinions, due diligence and title verification
- Building plan, layout and sub-division approvals
- Completion and occupancy certificates, regularisation
- Escrow, negotiation and NRI property management
- Land survey, soil testing, architecture and construction

Verified RealEstate
3/350/2 Mettukuppam,
OMR Thoraipakkam,
Chennai 600 097, India
hello@verified.realestate
+91 9996 12 9996

Prepared from the registers named on the page each finding sits on. Where a register could not be read, this document says so in its place rather than leaving the gap to be read as a clean result.