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alexjacob@unitedconsultants.in
Web : www.unitedconsultants.in

27.06.2024

STABILTY CERTIFICATE

It is certificate that the Proposed Construction of Basement Floor + Partially Stilt/Partially Ground Floor + 4 Floors (Hieght-18.30m) Residential Building with 9 Dwelling with availing premium FSI at New No. 5, Old No. 4, Sathyanarayana Avenue, Boat Club, R.A. Puram, Chennai – 600 028. Comprised in R.S.No.3900/4 Block No.84, of Mylapore Village, Mylapore Taluk, Chennai District, Greater Chennai Corporation. Zone: 09, Division No. 122, is designed to resist earth quake. Check has been made and found safe and I hereby certify that,

1. The minimum grade of concrete is M 25.
2. The design and analysis using the code of Practice for plain and Reinforced concrete as per IS 456, Design loads as per IS-875 part I to V and Design of Earthquake Resistant Structures as Per IS 1893 are Carried out.

The building will be sound and stable when used for the purpose for which it is designed.

(Dr.ALEX JACOB)

Dr. ALEX JACOB
B.E., M.Tech (Str), Ph.D(Hon),
M.I.E. (Aust), M.I.E. (Ind)
STRUCTURAL ENGINEER,
41/A, BEACH ROAD, KALAKSHETRA COLONY,
CHENNAI - 600 090.
REG No. SE/GR-I/19/02/001
REG No. RSE100392019

THE PROPOSED CONSTRUCTION OF BASEMENT FLOOR + PARTIALLY STILT/PARTIALLY GROUND FLOOR + 4 FLOORS (HIEGHT-18.30M) RESIDENTIAL BUILDING WITH 9 DWELLING WITH AVAILING PREMIUM FSI AT NEW NO. 5, OLD NO. 4, SATHYANARAYANA AVENUE, BOAT CLUB, R.A. PURAM, CHENNAI – 600 028. COMPRISED IN R.S.NO.3900/4 BLOCK NO.84, OF MYLAPORE VILLAGE, MYLAPORE TALUK, CHENNAI DISTRICT, AND GREATER CHENNAI CORPORATION. ZONE: 09, DIVISION NO. 122.

GENERAL NOTE ON STRUCTURAL DESIGN

1.0 GENERAL

1.1 DESIGN BASIS

The design of this building is carried out based on frame analysis using STAAD Pro V8i.

1.2 CODES AND STANDARDS

All structural design is carried out conforming to the provisions in National Building Code of India and other relevant Indian Codes and Standards.

1. I.S. 456
2. I.S. 875 - Part I to V
3. I.S.1893
4. I.S.13920
5. I.S.800

2.0 BASIC CIVIL DESIGN LOADS

2.0 DEAD LOADS & LIVE LOADS

Typical slab dead load is calculated as follows

Residential Building

Self weight of slab	=	2.0kN/m²
Floor finish	=	2.0kN/m²
Live load	=	3.0kN/m²
		7.0kN/m²

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3.0 SOIL DETAILS

Based on Soil Test Report Pile Foundation is adopted.

4.0 DESIGN METHODS

General design and detailing of concrete members/elements are done conforming to the provisions of I.S: 456 and other relevant I.S codes. Limit State method is followed for the design.

Seismic Zone III load is taken into account for the analysis. The predominant direction of vibration is horizontal. Relevant combination of forces has been taken into account.

4.1

Load Combination	Ultimate Limit Load	Serviceability Limit State
DL+LL+WL Or DL+LL+EL	1.2DL+1.2LL+1.2WL Or 1.2DL+1.2LL+1.2EL	DL+LL+WL Or DL+LL+EL

-

4.2.1 MINIMUM COVER

Slab	20 mm
Beam	25 mm
Columns	40 mm
Foundations	50 mm

Structure will be sound and stable when used for the purpose for which it is designed.

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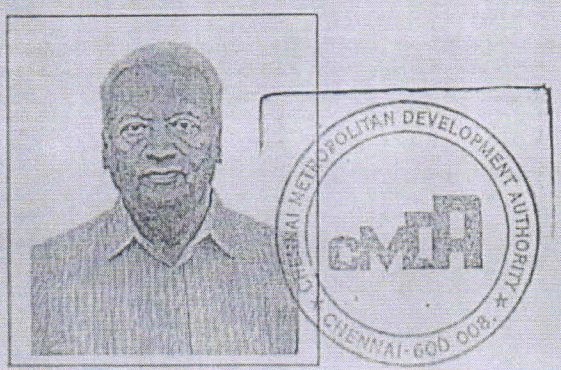
CHENNAI METROPOLITAN DEVELOPMENT AUTHORITY
'ThalamuthuNatarajan Building', No.1, Gandhi Irwin Road,
Egmore, Chennai-600 008.

PROFESSIONAL REGISTRATION CERTIFICATE

This is to certify that the Thiru. ALEX JAOB has enrolled as Registered Structural Engineer Grade-I (SE) with Chennai Metropolitan Development Authority (CMDA) who has the qualification of M.Tech.,(Structural Engg.) and experience in the relevant field for 52 years.

He has been given the Registration No.SE/GR-I/2024/02/001 on 11.02.2024. He shall be required to comply with the duties and responsibilities prescribed by the Government of Tamil Nadu in Part-V, "Registration of Professionals", Tamil Nadu Combined Development and Building Rules, 2019 approved vide G.O.(Ms) No.18 MAWS (MA1) Dept. dated 04.02.2019.

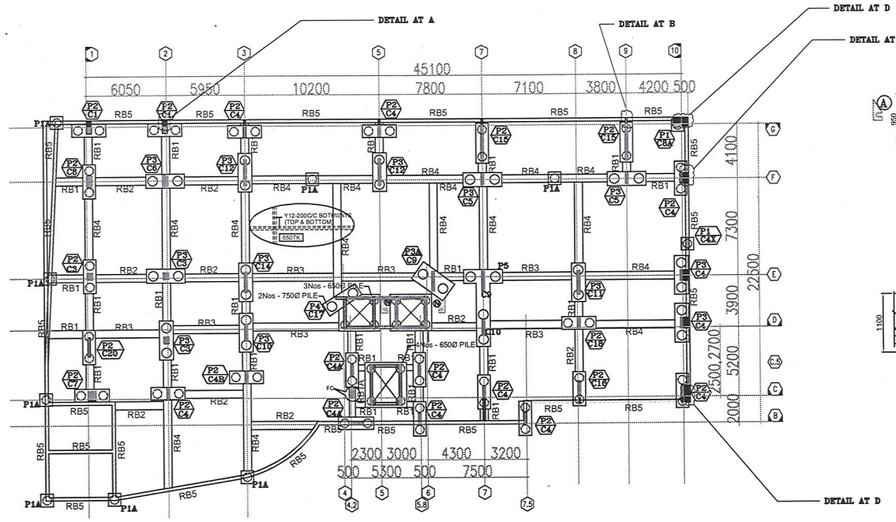
This Registration is valid upto 10.02.2029.



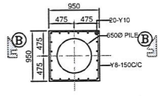
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11/2/2024

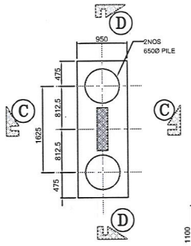
(A. MEGANATHAN)
Superintendent



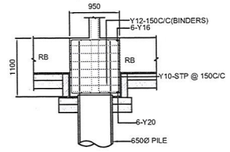
PILE–P1



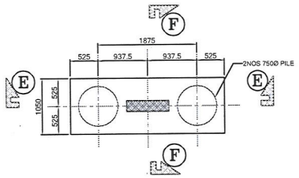
PILE–P1A



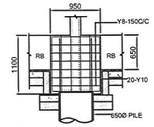
PILE–P2



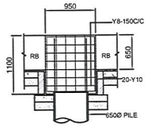
SECTION C C



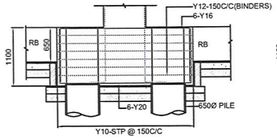
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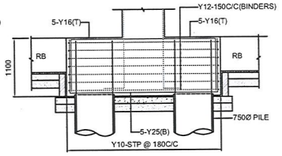
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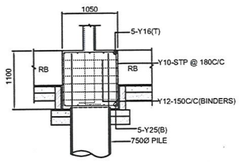
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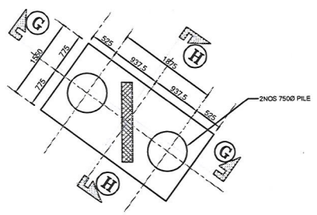
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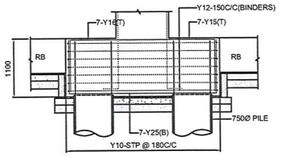
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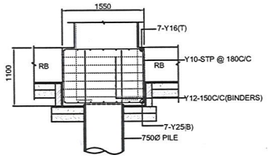
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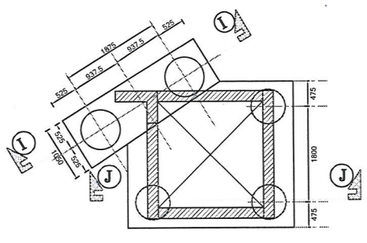
PILE–P3A



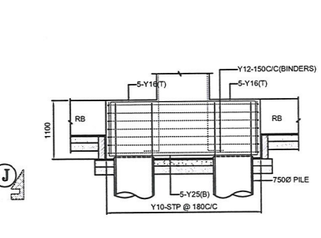
SECTION G G



SECTION H H



PILE–P4



SECTION I I

SECTION – J J

PILE–P5

L.S OF RB1 L.S OF RB2

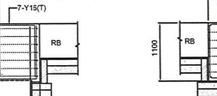
C.S OF RB1

C.S OF RB2

FC–COLUMN

L.S OF RB1A

C.S OF RB1A



650ø PILE
(SAFE LOAD 150 TONNES)

750ø PILE
(SAFE LOAD 200 TONNES)

SCHEDULE OF STRUCTURAL DETAIL

NOTES

B+G+4

- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
- CONCRETE MIX SHALL BE M35 FOR PILE WITH MINIMUM CEMENT CONTENT OF 400KG/M.^{3}
- CONCRETE MIX SHALL BE M40 FOR COLUMN & M25 FOR ALL OTHER R.C.C WORKS
- ALL REINFORCEMENTS ARE OF Fe500 GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE

(i) PILE	50mm
(ii) PILE CAP	50mm
(iii) COLUMN	40mm
(iv) RAFT BEAM	30mm
(v) RAFT SLAB	20mm
(vi) R.C.C WALL	25mm

- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

R.NO	DATE	DESCRIPTION OF REVISION	REVISED BY

STRUCTURAL CONSULTANT

Dr.ALEX JACOB

CIVIL & STRUCTURAL CONSULTING ENGINEERS.
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REG No. SE/GR-1/19/02/001
REG No. RSE100392019

ARCHITECTS

CLIENTS

M/s. CEEBROS HOTELS PVT LTD

PROJECT

PLAN SHOWING THE PROPOSED CONSTRUCTION OF BASEMENT FLOOR+PARTIALLY STILT/PARTIALLY GROUND FLOOR + 4 FLOORS (HEIGHT–18.30M) RESIDENTIAL BUILDING WITH 9 DWELLING WITH AVAILING PREMIUM FSI AT NEW NO.5,OLD NO.4, SATHYANARAYANA AVENUE, BOAT CLUB, R.A.PURAM,CHENNAI–600028. COMPRISED IN R.S.NO.3900/4 BLOCK. NO.84, OF MYLAPORE VILLAGE MYLAPORE TALUK, CHENNAI DISTRICT, GREATER CHENNAI CORPORATION. ZONE:09–DIVISION NO.122

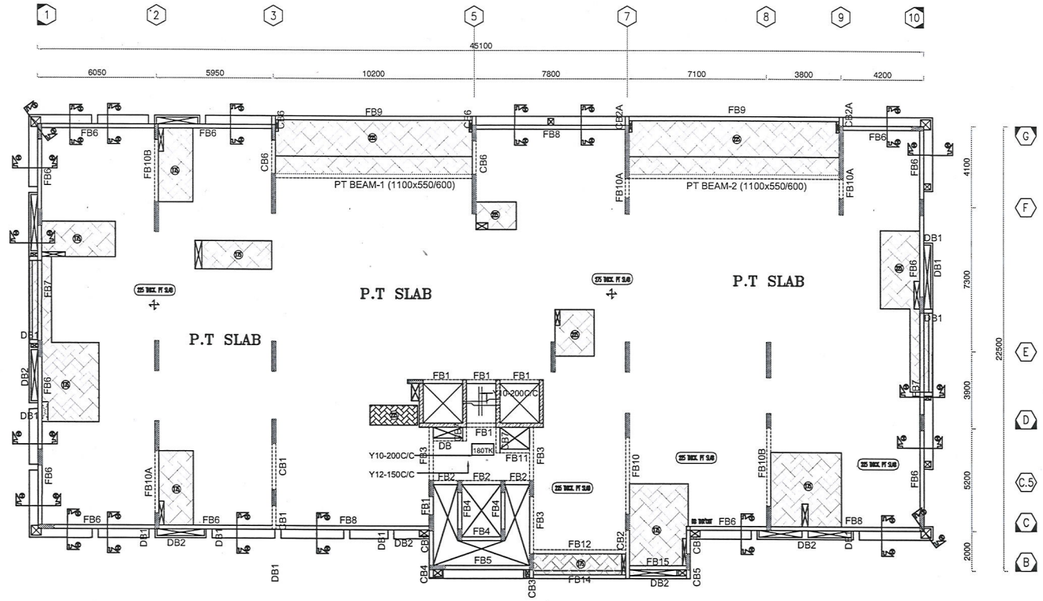
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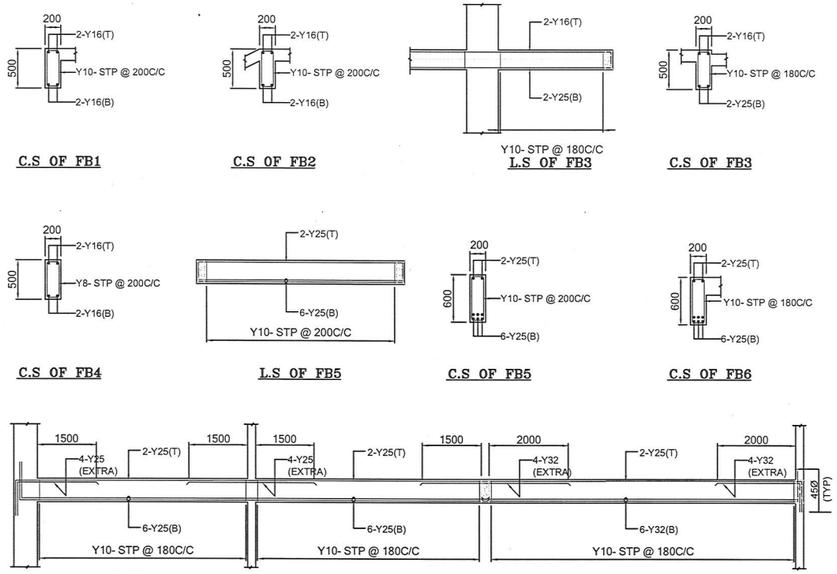
PILE & RAFT FOUNDATION DETAIL

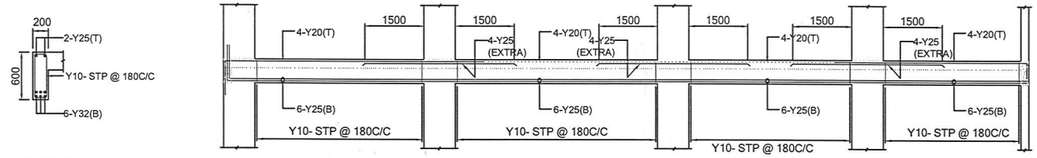
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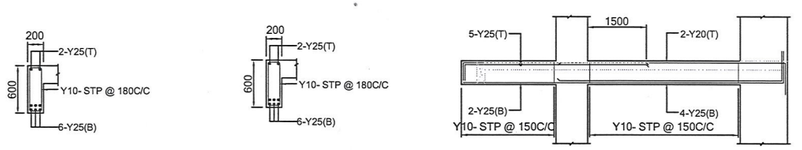
AJ – 3549 – CEEBROS – BOAT CLUB – CHENNAI

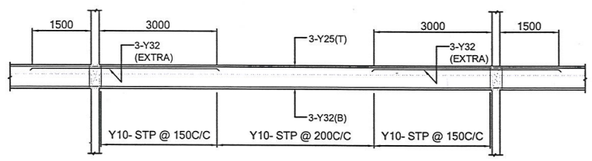
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DRN	NIBIN
DATE	09–11–2023

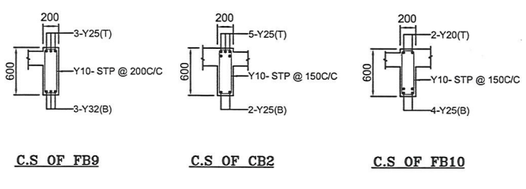


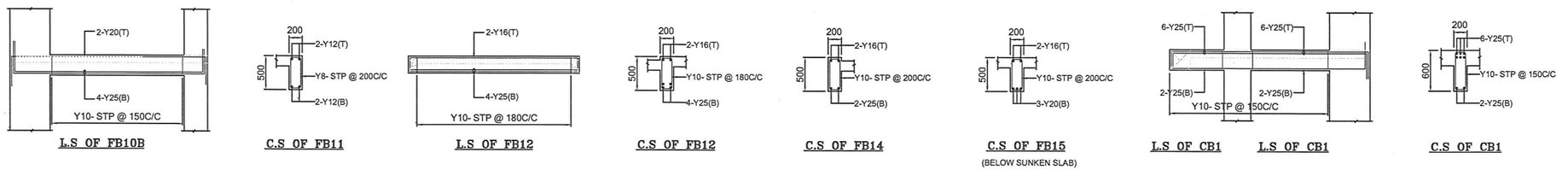


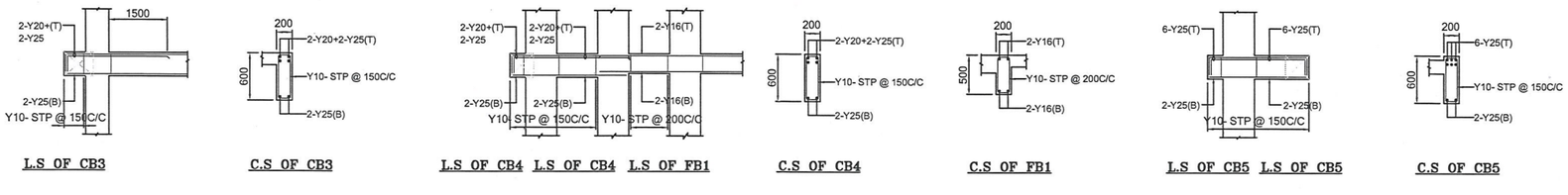












SCHEDULE OF STRUCTURAL DETAIL

NOTES

B+G+4

- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
- CONCRETE MIX SHALL BE M40 FOR COLUMN & M25 FOR ALL OTHER R.C.C WORKS
- ALL REINFORCEMENTS ARE OF Fe500 GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE

(i) COLUMN	40mm
(ii) BEAM	30mm
(iii) SLAB	20mm
(iv) R.C.C WALL	25mm

- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

R.NO	DATE	DESCRIPTION OF REVISION	REVISED BY

STRUCTURAL CONSULTANT

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CLIENTS

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TITLE

TYPICAL FLOOR ROOF DETAIL

PROJECT NO:

AJ - 3549 - CEEBROS - BOAT CLUB - CHENNAI

DSND	Dr.Alex Jacob

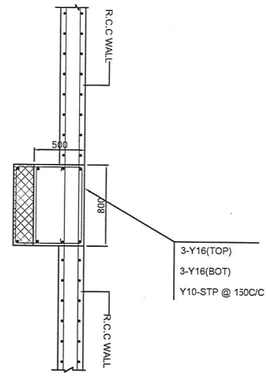
NOTE

# DENOTES 8 or 10 or 12mm WHICH EVER MAXIMUM DIA OF THE STRIUPPS BAR USED IN BEAM or COLUMN

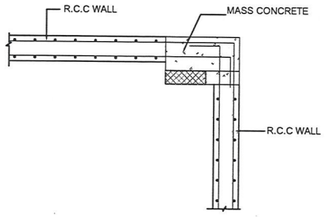
SCHEDULE OF STRUCTURAL DETAIL

COL-NO	SIZE IN mm	REINFORCEMENT MAIN REINF.	REINFORCEMENT TIES	SECTION	SHAPE OF TIES
COL-C1	400 X 500	4-Y25+(a) 6-Y20 (b)	Y8-TIES @ 200C/C	400 / 500	
COL-C3	400 X 500	16-Y25	Y8-TIES @ 200C/C	400 / 500	
COL-C4	200 X 800	12-Y25	Y8-TIES @ 200C/C	200 / 800	
COL-C4A	200 X 800	8-Y20+(b) 4-Y16(c)	Y8-TIES @ 200C/C	200 / 800	
COL-C4B	200 X 800	4-Y32+(e) 8-Y25 (a)	Y8-TIES @ 200C/C	200 / 800	
COL-C4X	250 X 800	12-Y25	Y8-TIES @ 200C/C	250 / 800	
COL-C5	200 X 800	12-Y25	Y8-TIES @ 200C/C	200 / 800	
COL-C6	400 X 800	20-Y25	Y8-TIES @ 200C/C	400 / 800	
COL-C7	600 X 600	4-Y20+(b) 8-Y16(c)	Y8-TIES @ 200C/C	600 / 600	
COL-C8	400 X 800	16-Y25	Y8-TIES @ 200C/C	400 / 800	
COL-C8A	200 X 600	4-Y25+(a) 4-Y20+(b)	Y8-TIES @ 200C/C	200 / 600	
COL-C9	200 X 1500	16-Y25	Y8-TIES @ 200C/C	200 / 1500	
COL-C10	200 X 1200	16-Y25	Y8-TIES @ 200C/C	200 / 1200	
COL-C11	200 X 1775	16-Y32	Y8-TIES @ 200C/C	200 / 1775	
COL-C12	200 X 2000	22-Y25	Y8-TIES @ 200C/C	200 / 2000	

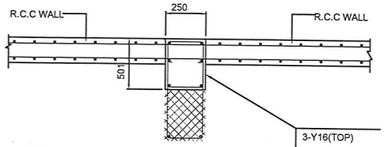
COL-NO	SIZE IN mm	REINFORCEMENT MAIN REINF.	REINFORCEMENT TIES	SECTION	SHAPE OF TIES
COL-C14	200 X 1500	24-Y25	Y8-TIES @ 200C/C	200 / 1500	
COL-C15	200 X 2700	8-Y25+(a) 12-Y16(b)	Y8-TIES @ 200C/C	200 / 2700	
COL-C16	200 X 1200	20-Y25	Y8-TIES @ 200C/C	200 / 1200	
COL-C17	200 X 800	10-Y25	Y8-TIES @ 200C/C	800 / 200	
COL-C18	200 X 700	8-Y25+(a) 4-Y20 (b)	Y8-TIES @ 200C/C	200 / 700	
COL-C19 LIFT WELL COLUMN	200 X 600	8-Y16	Y8-TIES @ 200C/C	200 / 600	
COL-C20	200 X 1450	12-Y25+(a) 12-Y20+(b)	Y8-TIES @ 200C/C	200 / 1450	



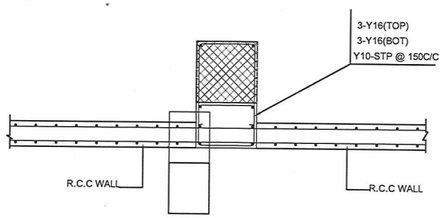
DETAIL AT C



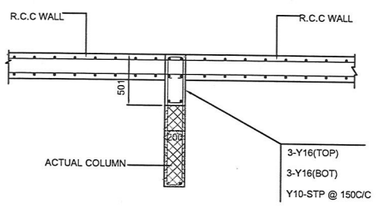
DETAIL AT D



DETAIL AT A



DETAIL AT E



NOTES

B+G+4

- REFER ARCH. DWG. FOR CENTRE LINE DIMENSIONS.
- CONCRETE MIX SHALL BE M40 FOR COLUMN & M25 FOR ALL OTHER R.C.C WORKS
- ALL REINFORCEMENTS ARE OF Fe500 GRADE.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE
  - (i) COLUMN 40mm
  - (ii) BEAM 30mm
  - (iii) SLAB 20mm
  - (iv) R.C.C WALL 25mm
- LAP LENGTH SHALL BE 50 x DIA OF THE BAR

R.NO	DATE	DESCRIPTION OF REVISION	REVISED BY

STRUCTURAL CONSULTANT

Dr.ALEX JACOB

CIVIL & STRUCTURAL CONSULTING ENGINEERS.
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REG No. SE/GR-1/19/02/001
REG No. RSE100392019

CLIENTS

M/s. CEEBROS HOTELS PVT LTD

PROJECT

PLAN SHOWING THE PROPOSED CONSTRUCTION OF BASEMENT FLOOR+PARTIALLY STILT/PARTIALLY GROUND FLOOR + 4 FLOORS (HEIGHT-18.30M) RESIDENTIAL BUILDING WITH 9 DWELLING WITH AVAILING PREMIUM FSI AT NEW NO.5,OLD NO.4, SATHYANARAYANA AVENUE, BOAT CLUB, R.A.PURAM,CHENNAI-600028. COMPRISED IN R.S.NO.3900/4 BLOCK. NO.84, OF MYLAPORE VILLAGE MYLAPORE TALUK, CHENNAI DISTRICT, GREATER CHENNAI CORPORATION. ZONE:09-DIVISION NO.122

TITLE

TYPICAL FLOOR ROOF DETAIL

PROJECT NO:

AJ - 3549 - CEEBROS - BOAT CLUB - CHENNAI

DSND	Dr.Alex Jacob
DRN	NIBIN

DR. ALEX JACOB
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REG No. SE/GR-1/19/02/001



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Land Use Zone Finder, CRZ Zone Check, Aquifer Zone Check, CBA Check, EWS Check, Road Width Check, Proposed Road Widening Check, FSI Calculator

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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