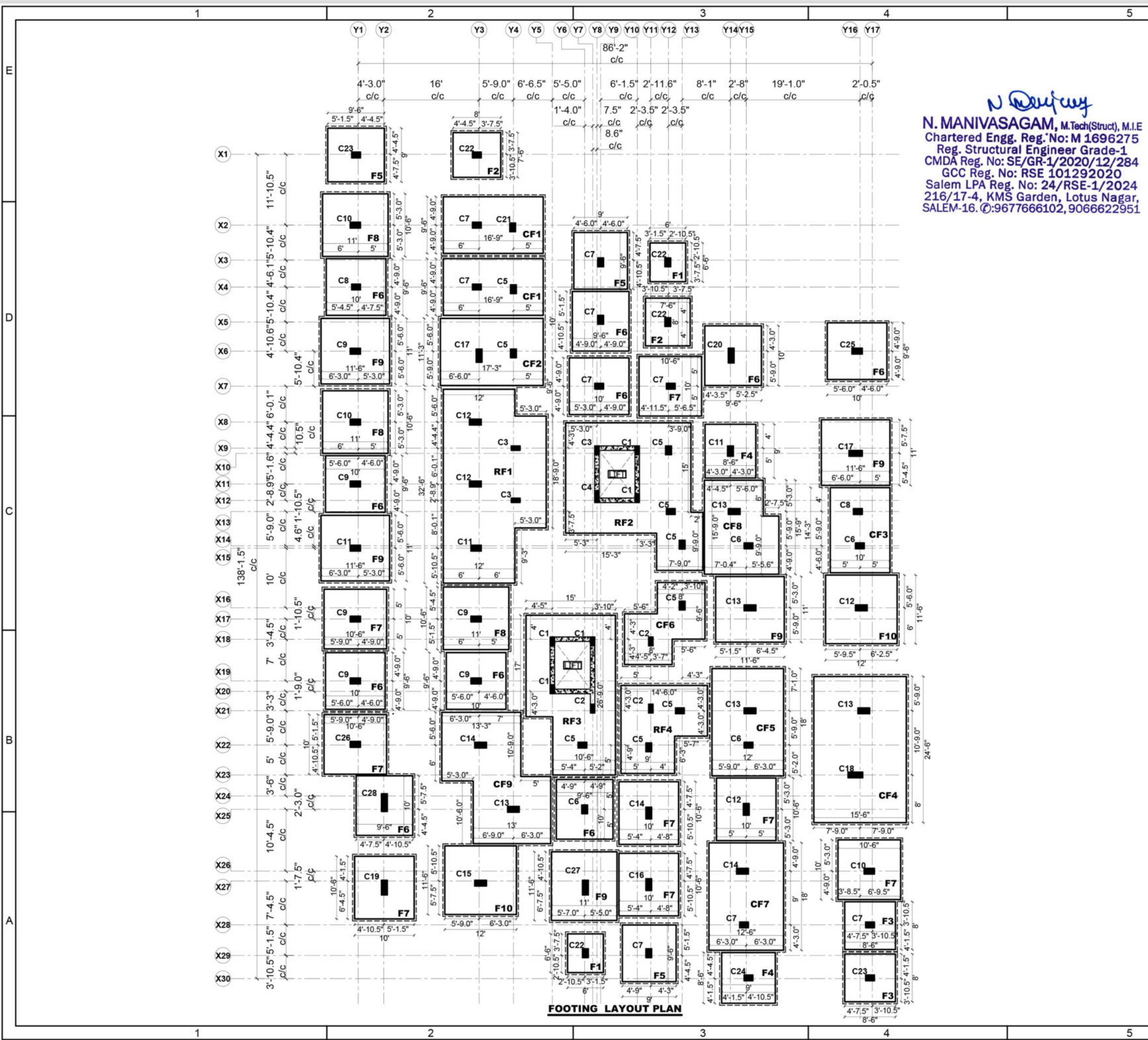
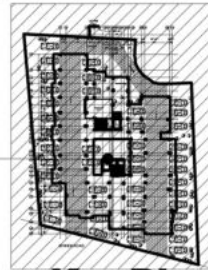




N. Manivasagam
N. MANIVASAGAM, M.Tech(Struct), M.I.E
Chartered Engg. Reg. No: M 1696275
Reg. Structural Engineer Grade-1
CMDA Reg. No: SE/GR-1/2020/12/284
GCC Reg. No: RSE 101292020
Salem LPA Reg. No: 24/RSE-1/2024
216/17-4, KMS Garden, Lotus Nagar,
SALEM-16. ©:9677666102, 9066622951



Key Plan

BUILDING

- Legend :**
c/c - Centre to Centre
C - Column
CF - Combined Footing
F - Isolated Footing
RF - Raft Footing
R.C.C- Reinforced Cement Concrete
P.C.C- Plain Cement Concre
- Notes:**
1. All dimensions are in Feet & Inches unless otherwise noted.
2. All Grids are C/C of wall
3. Wherever applicable, this drawing must be read along with the relevant architectural drawings.
4. Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted.
5. 'y' Designate steel reinforcement diameter, and shall conform to IS-1786 - 2508, Fe 500D Grade with minimum yield strength of **500D N/mm²** having elongation of 16%.
6. Safe bearing capacity of soil is **15T/m²** (As per Soil Report)
7. Depth of foundation shall be **3m** from Lowest existing ground level (or) Depth upto Hard Strata (Whichever is more)
8. Clear cover for column reinforcement - **1 1/2" (40mm)**
for footing reinforcement - **2" (50mm)**
for footing side face reinforcement - **3" (75mm)**
9. Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
10. The building has been designed for (Stilt+5)
11. Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
12. P.C.C **4" Thk.**
13. Footing Reinforcement detail refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/101a**

Working Drawing

Revisions				
Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 5.12.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/101

Proposed Construction of Apartment Building for Metropole OG at Salem

Title : Footing Layout Plan

Consultants :
**MADURAA CONSULTANTS**
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016, Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraaconsultants@gmail.com

FOOTING REINFORCEMENT DETAIL

S.No	No.of Footings	Footing Type	Footing Size (Lx x Ly)	Footing Depth (D)	Footing Reinforcement detail (Bottom)		Footing Reinforcement detail (Top)	
					Along Shorter Span (Lx)	Along Longer Span (Ly)	Along Shorter Span (Lx)	Along Longer Span (Ly)
1.	2	F1	6'0" X 6'6"	18"	Y10 @ 5"c/c	Y10 @ 5"c/c	-	-
2.	2	F2	7'6" X 8'0"	21"	Y10 @ 5"c/c	Y10 @ 5"c/c	-	-
3.	2	F3	8'0" X 8'6"	21"	Y10 @ 5"c/c	Y10 @ 5"c/c	-	-
4.	2	F4	8'6" X 9'0"	22"	Y10 @ 4"c/c	Y10 @ 4"c/c	-	-
5.	3	F5	9'0" X 9'6"	24"	Y10 @ 4"c/c	Y10 @ 4"c/c	-	-
6.	10	F6	9'6" X 10'0"	24"	Y10 @ 4"c/c	Y10 @ 4"c/c	-	-
7.	8	F7	10'0" X 10'6"	26"	Y12 @ 5"c/c	Y12 @ 5"c/c	-	-
8.	3	F8	10'6" X 11'0"	26"	Y12 @ 5"c/c	Y12 @ 5"c/c	-	-
9.	5	F9	11'0" X 11'6"	28"	Y12 @ 5"c/c	Y12 @ 5"c/c	-	-
10.	2	F10	11'6" X 12'0"	28"	Y12 @ 4"c/c	Y12 @ 4"c/c	-	-
11.	2	CF1	9'6" X 16'9"	26"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101c			
12.	1	CF2	11'3" X 17'3"	26"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101c			
13.	1	CF3	10'0" X 14'3"	24"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101d			
14.	1	CF4	15'6" X 24'6"	28"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101d			
15.	1	CF5	12'0" X 18'0"	28"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101e			
16.	1	CF6	REFERPLAN	26"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101e			
17.	1	CF7	12'6" X 18'0"	30"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101f			
18.	1	CF8	REFERPLAN	26"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101f			
19.	1	CF9	REFERPLAN	28"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101g			
20.	1	RF1	REFERPLAN	26"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101h			
21.	1	RF2	REFERPLAN	24"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101j			
22.	1	RF3	REFERPLAN	22"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101k			
23.	1	RF4	REFERPLAN	22"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101m			

N. Manivasagam
N. MANIVASAGAM, M.Tech(Struct), M.I.E
 Chartered Engg. Reg.No: M 1696275
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 CMDA Reg. No: SE/GR-1/2020/12/284
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 Salem LPA Reg. No: 24/RSE-1/2024
 216/17-4, KMS Garden, Lotus Nagar,
 SALEM-16. @:9677666102, 9066622951

BUILDING



KeyPlan

Legend :

c/c	- Centre to Centre	CF	- Combined Footing
Eq.	- Equal	Ld	- Development Length
Typ.	- Typical	D	- Depth of Footing
—	- Bottom bar	A	- Shorter Span of Column
—	- Top bar	B	- Longer Span of Column
B	- Bottom rod		
T	- Top rod		
RF	- Raft Footing		

Notes:

- All dimensions are in Feet & Inches unless otherwise noted.
- All Grids are C/C of wall
- Wherever applicable, this drawing must be read along with the relevant architectural drawings.
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- Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4"** Thk.
- Footing layout Plan refer dwg.no:
MC/SLM/JN-315/METROPOLE OG/STR/101

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by

Date : 5.12.2024 Drawn by : K.P Designed by : S.M Appd.by : N.M

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/101a

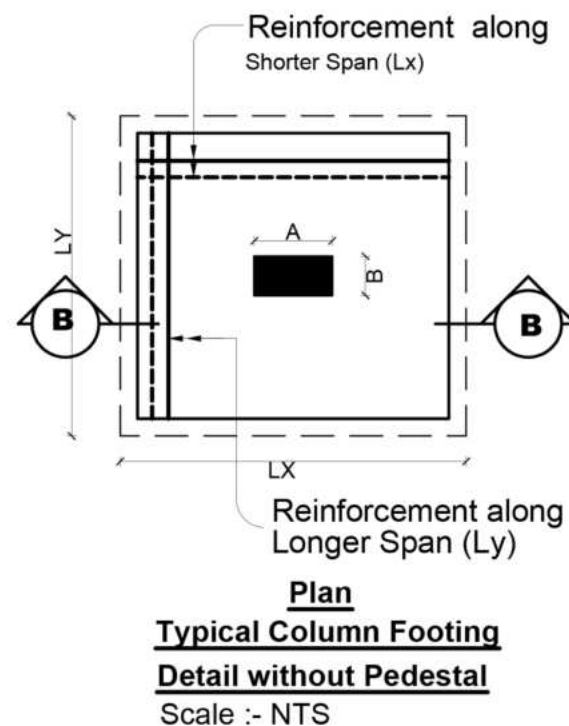
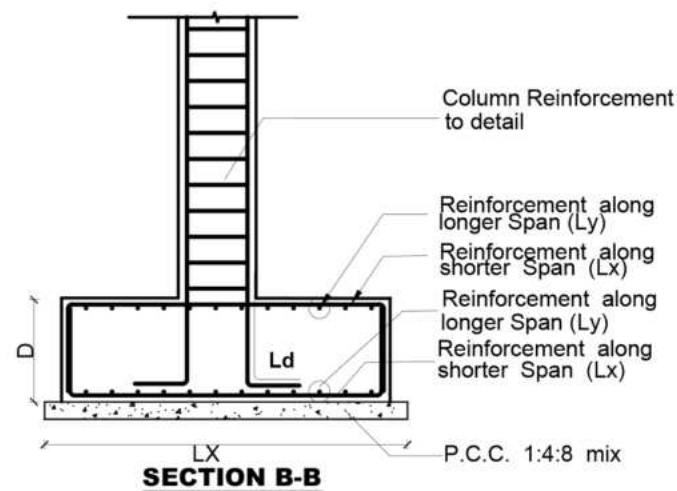
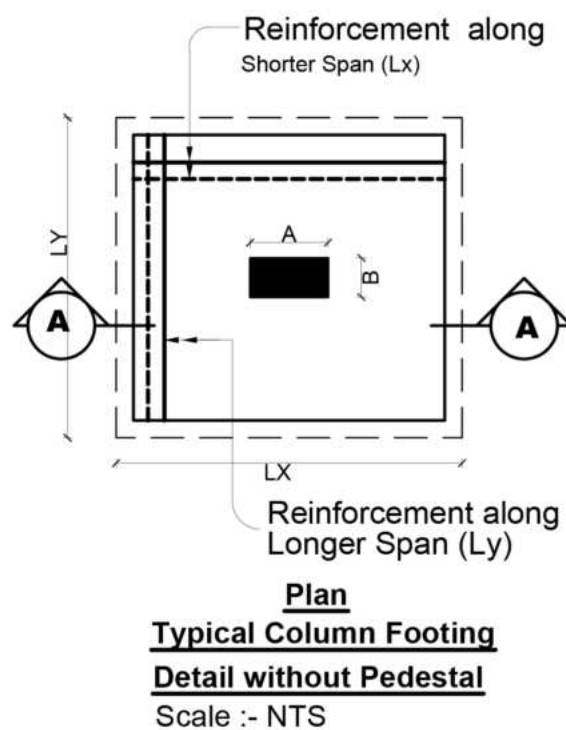
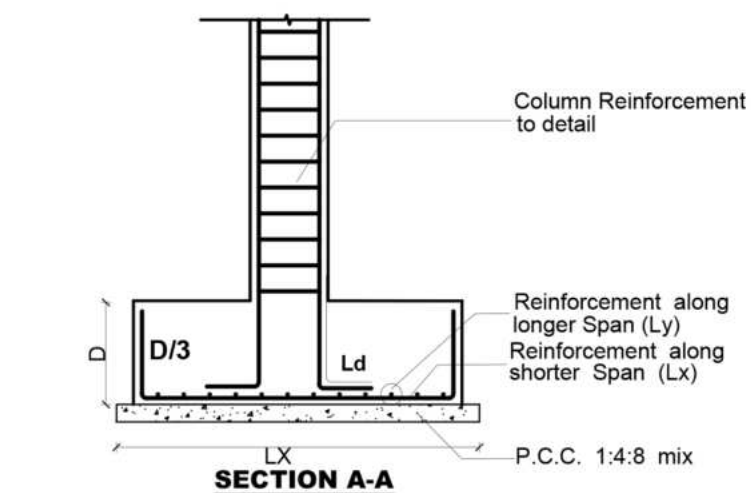
Proposed Construction of Apartment Building for Metropole OG at Salem

Title :

Footing Reinforcement Detail-1/11

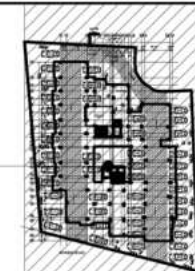
Consultants :

MADURAA CONSULTANTS
 Structural Engineering, Civil, Planning & Project Management
 216/17-4, KMS Garden, Lotus Nagar,
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N. Manivasagam

N. MANIVASAGAM, M.Tech(Struct), M.I.E
Chartered Engg. Reg. No: M 1696275
Reg. Structural Engineer Grade-1
CMDA Reg. No: SE/GR-1/2020/12/284
GCC Reg. No: RSE 101292020
Salem LPA Reg. No: 24/RSE-1/2024
216/17-4, KMS Garden, Lotus Nagar,
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BUILDING

Legend :

c/c	- Centre to Centre	Ld	- Development Length
Eq.	- Equal	D	- Depth of Footing
Typ.	- Typical	A	- Shorter Span of Column
---	- Bottom bar	B	- Longer Span of Column
---	- Top bar		
B	- Bottom rod		
T	- Top rod		

Notes:

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(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4"** Thk.
- Footing layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/101**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd. by	Appd. by
Date : 5.12.2024	Drawn by : K.P	Designed by : S.M	Appd. by : N.M	

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/101b

Proposed Construction of Apartment Building for Metropole OG at Salem

Title :

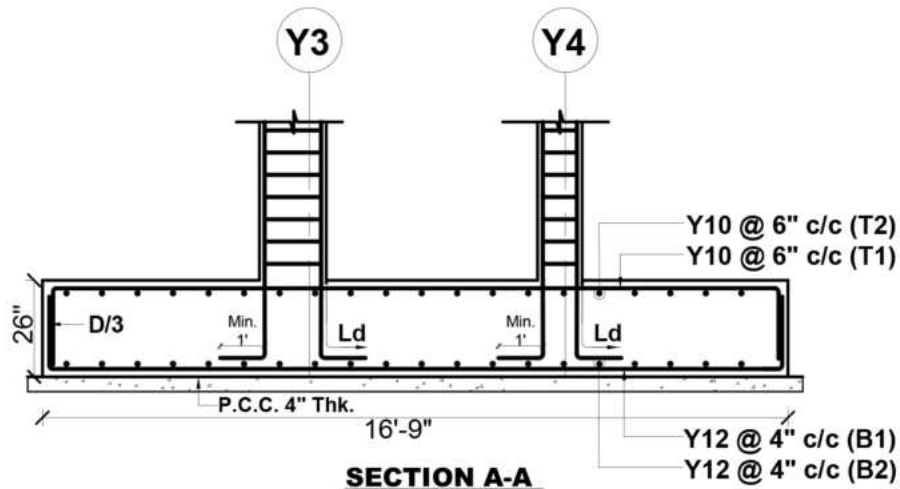
Footing Reinforcement Detail-2/11

Consultants :

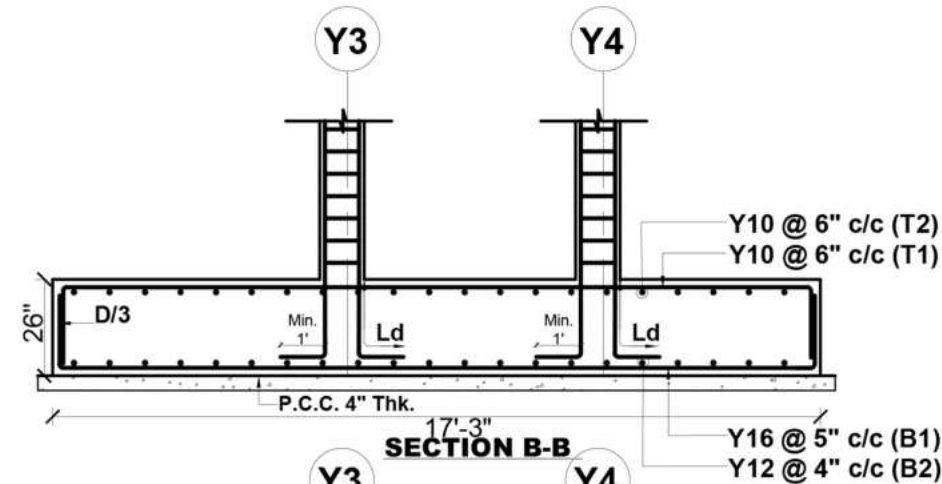


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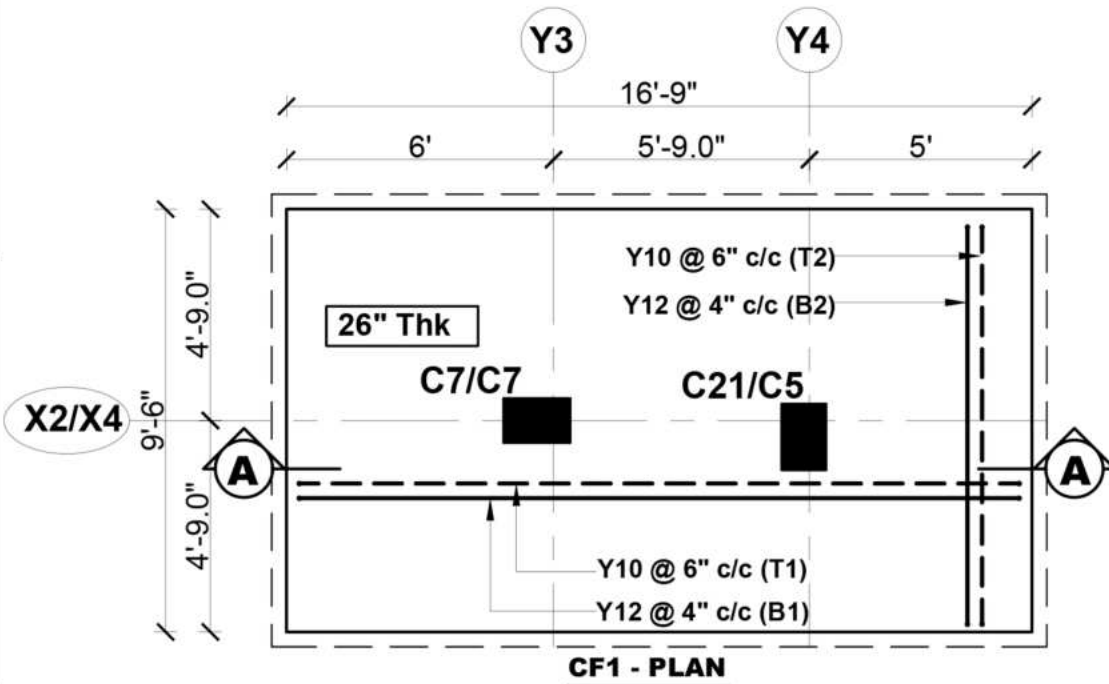
Structural Engineering, Civil, Planning & Project Management
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Ph: 9677 666 102 | 9066 622 951
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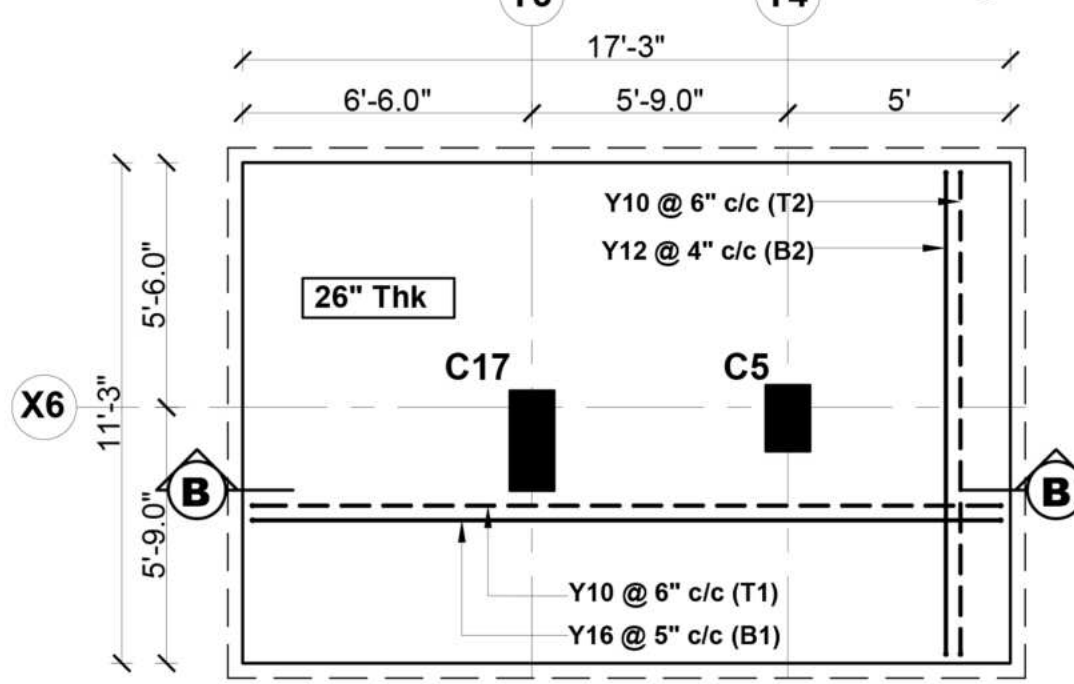
SECTION A-A



SECTION B-B



CF1 - PLAN



CF2 - PLAN



BUILDING

KeyPlan

Legend :

c/c	- Centre to Centre	CF	- Combined Footing
Eq.	- Equal	Ld	- Development Length
Typ.	- Typical	D	- Depth of Footing
---	- Bottom bar	A	- Shorter Span of Column
---	- Top bar	B	- Longer Span of Column
B	- Bottom rod		
T	- Top rod		

Notes:

- All dimensions are in Feet & Inches unless otherwise noted.
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for footing reinforcement - **2" (50mm)**
for footing side face reinforcement - **3" (75mm)**
- Development length of bars:
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(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4" Thk.**
- Footing layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/101**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 5.12.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/101c

Proposed Construction of Apartment Building for Metropole OG at Salem

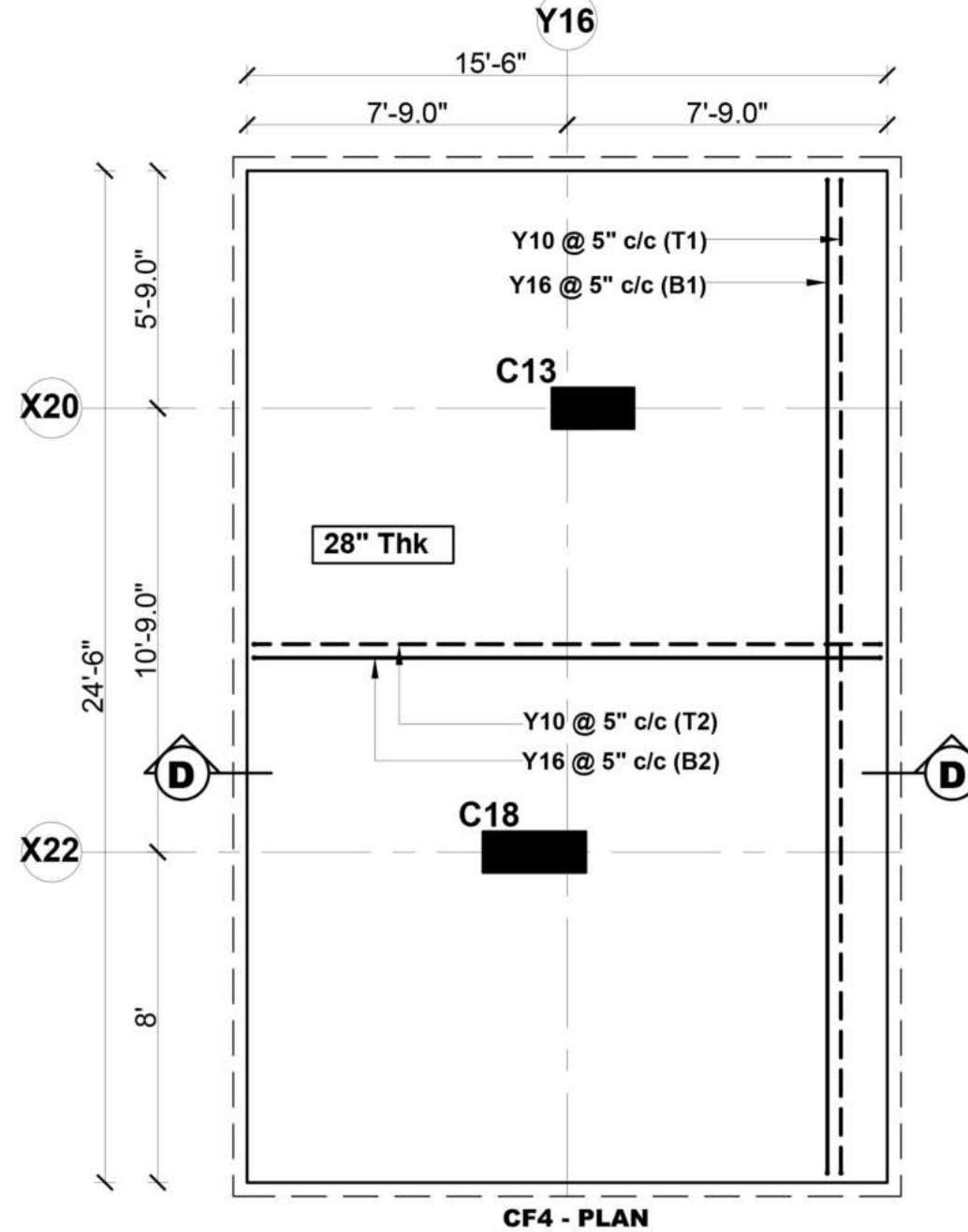
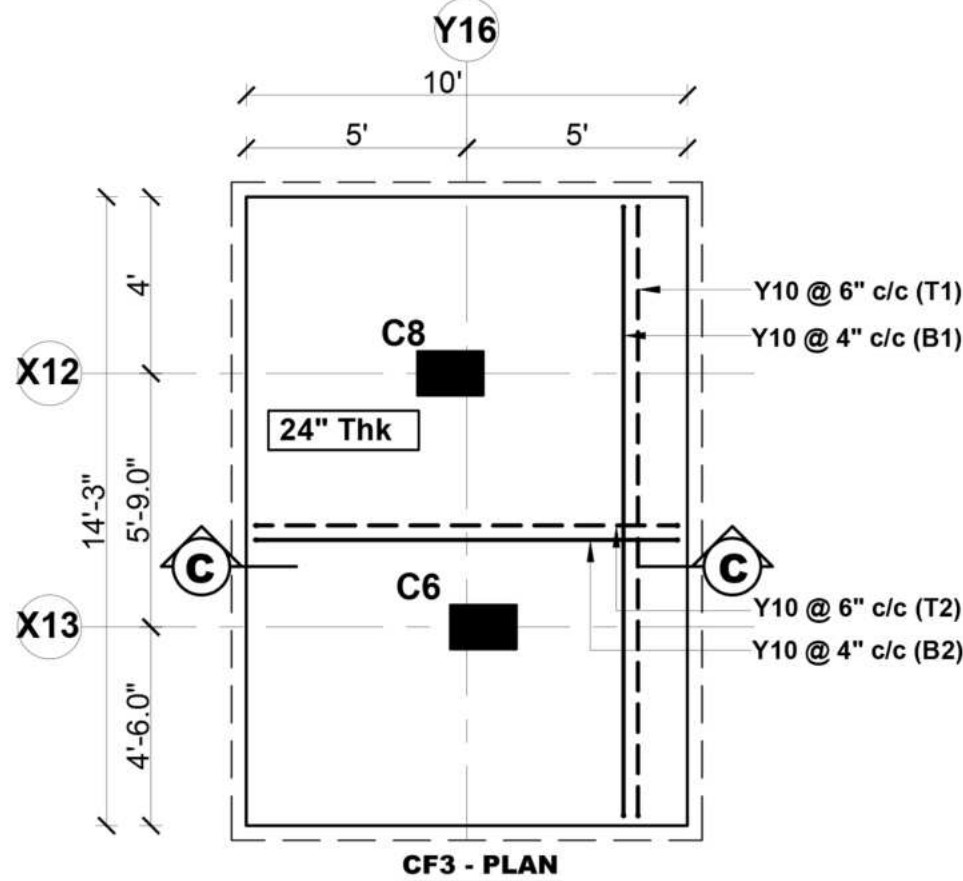
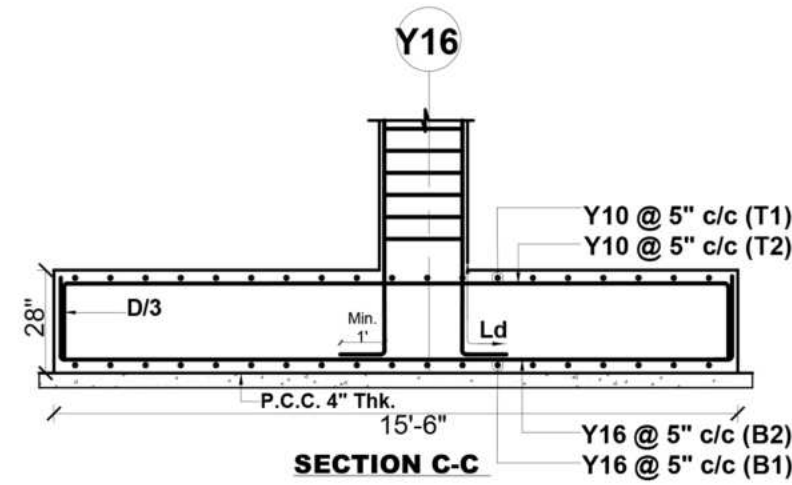
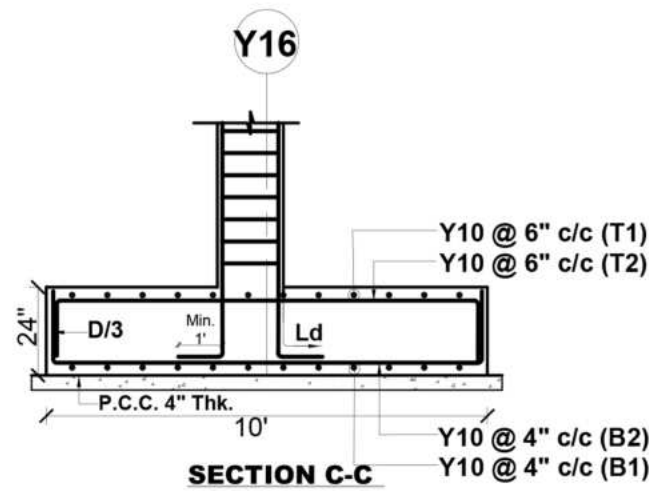
Title :

Footing Reinforcement Detail-3/11

Consultants :

MADURAA CONSULTANTS
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraaconsultants@gmail.com

N. Manivasagam
N. MANIVASAGAM, M.Tech(Struct), M.I.E
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Salem LPA Reg. No: 24/RSE-1/2024
216/17-4, KMS Garden, Lotus Nagar,
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BUILDING

Legend :

- | | |
|------------------------|----------------------------|
| c/c - Centre to Centre | CF - Combined Footing |
| Eq. - Equal | Ld - Development Length |
| Typ. - Typical | D - Depth of Footing |
| — - Bottom bar | A - Shorter Span of Column |
| — - Top bar | B - Longer Span of Column |
| B - Bottom rod | |
| T - Top rod | |

Notes:

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(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4" Thk.**
- Footing layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/101**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by

Date : 5.12.2024 Drawn by : K.P Designed by : S.M Appd.by : N.M

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/101d

Proposed Construction of Apartment Building for Metropole OG at Salem

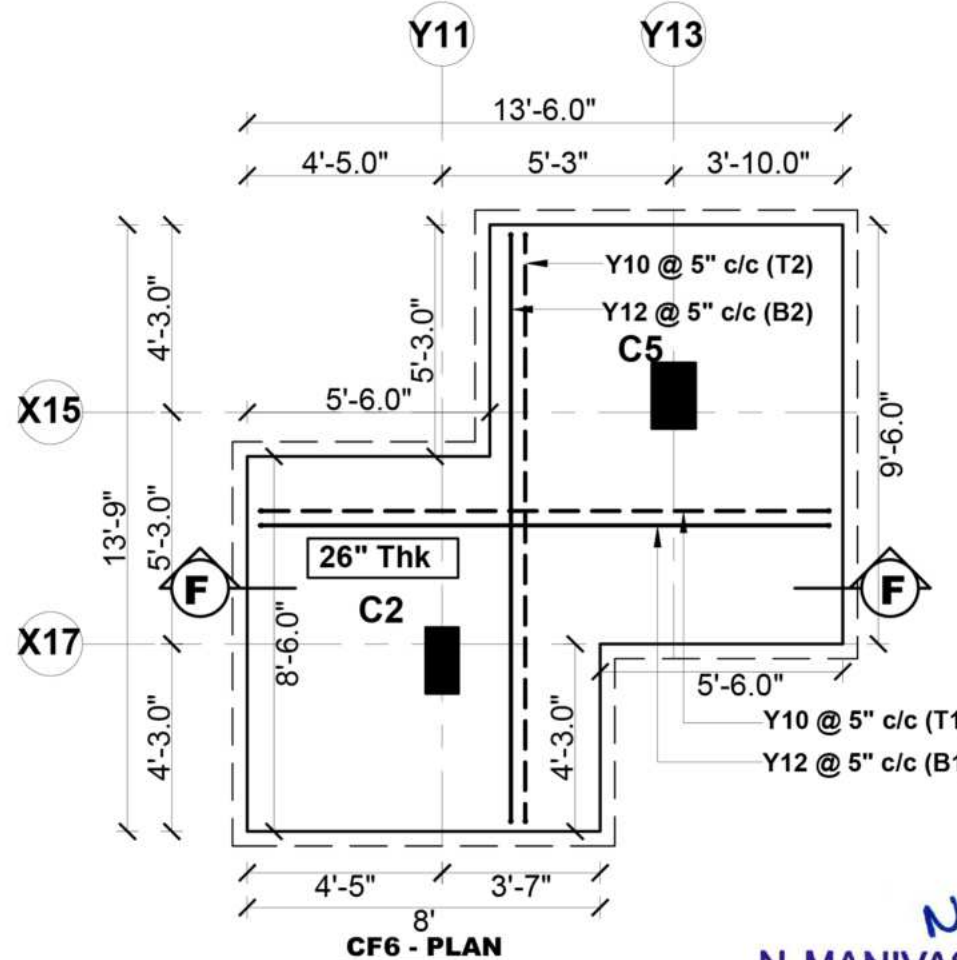
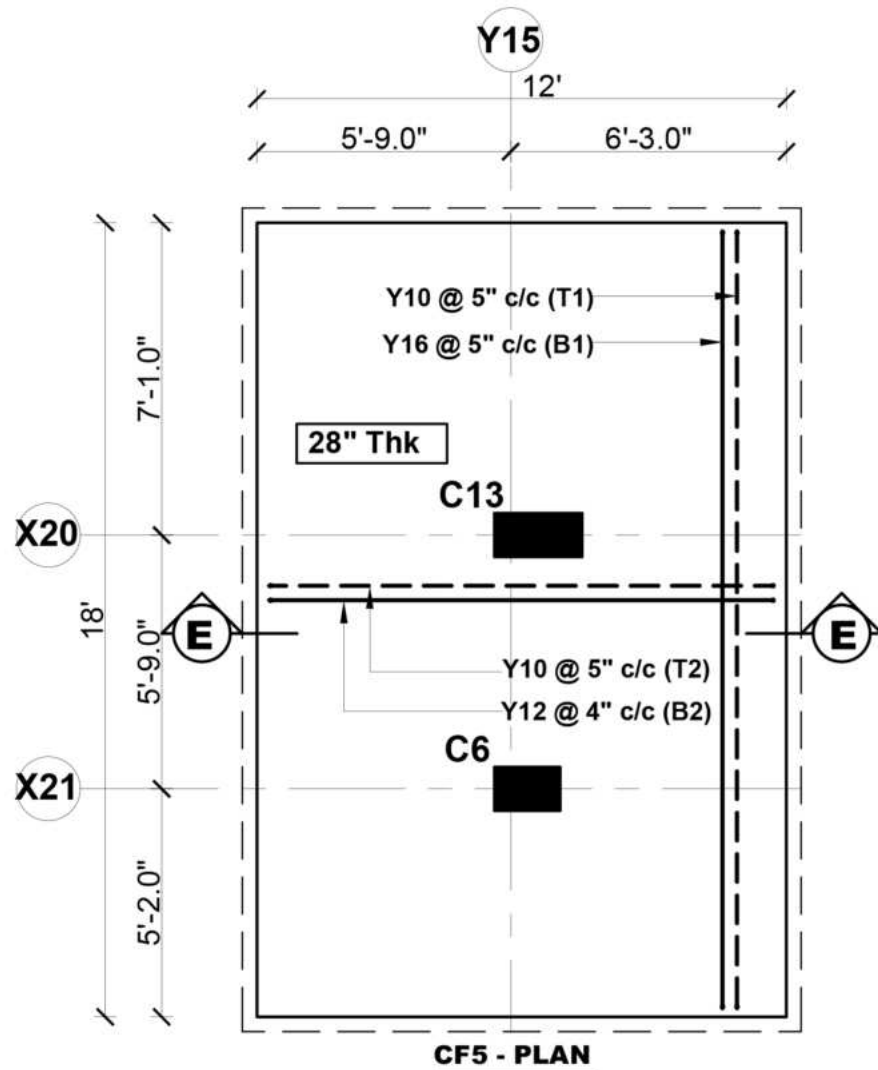
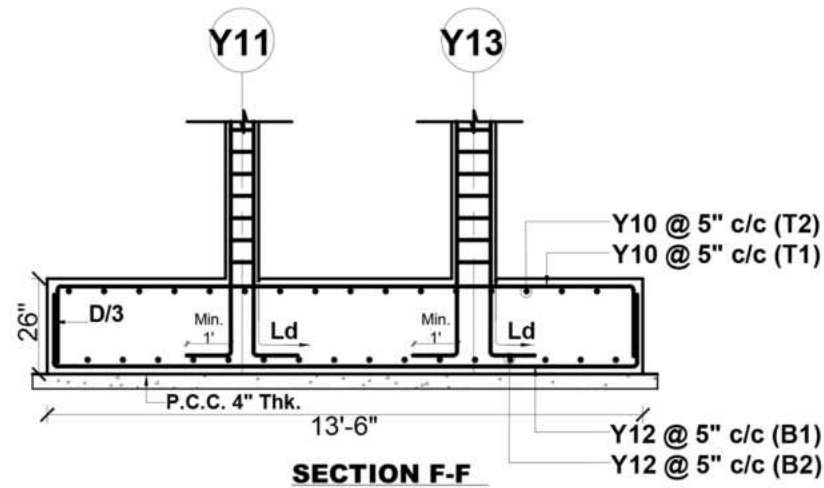
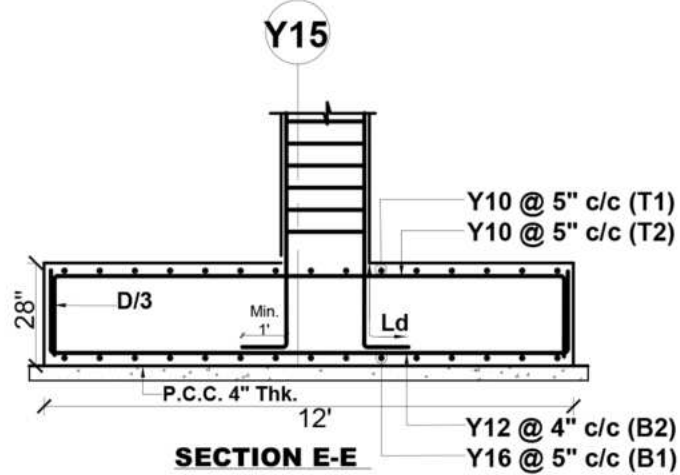
Title :

Footing Reinforcement Detail-4/11

Consultants :

MADURAA CONSULTANTS
Structural Engineering, Civil, Planning & Project Management
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N. Manivasagam
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SALEM-16. ☎:9677666102,9066622951



BUILDING

Legend :

c/c	- Centre to Centre	CF	- Combined Footing
Eq.	- Equal	Ld	- Development Length
Typ.	- Typical	D	- Depth of Footing
—	- Bottom bar	A	- Shorter Span of Column
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Notes:

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- P.C.C **4" Thk.**
- Footing layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/101**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 5.12.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/101e

Proposed Construction of Apartment Building for Metropole OG at Salem

Title :

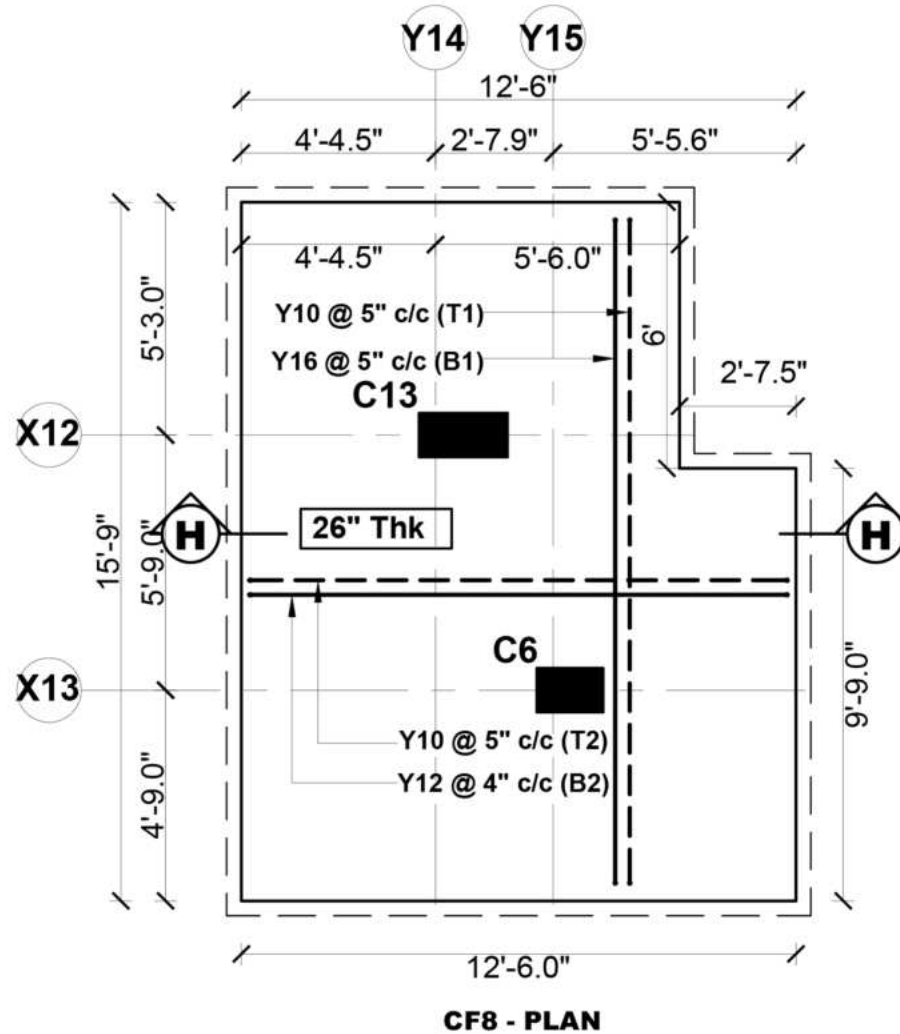
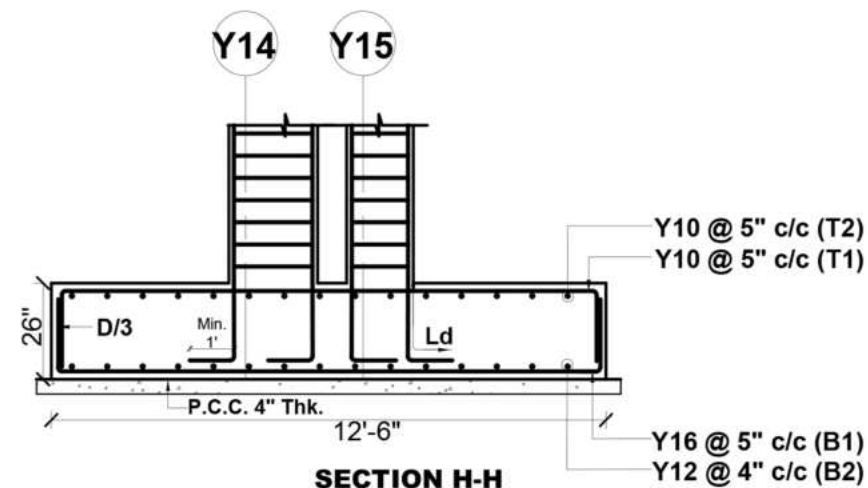
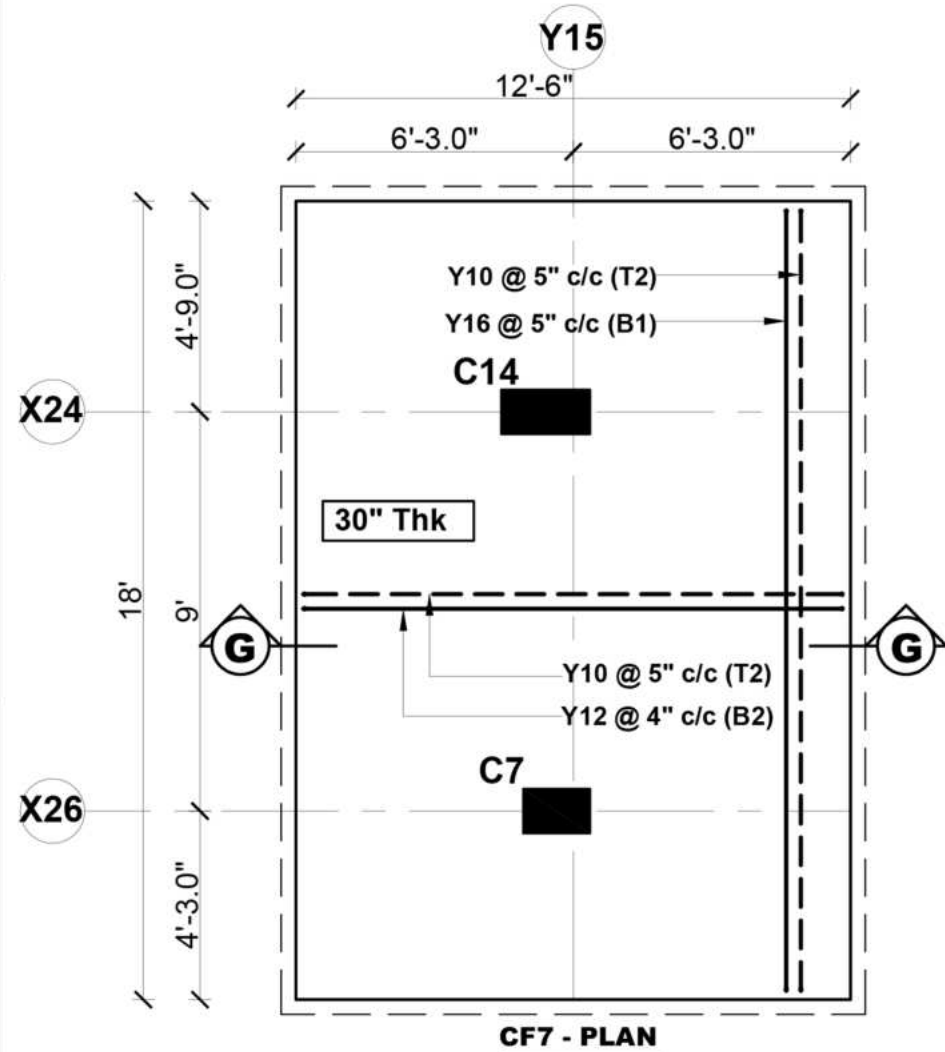
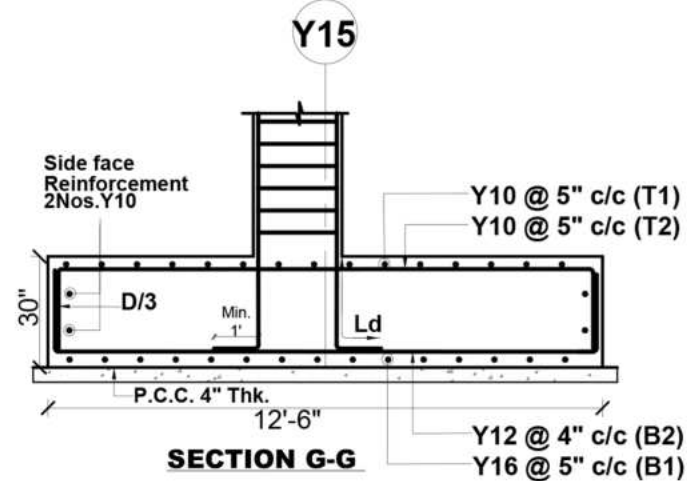
Footing Reinforcement Detail-5/11

Consultants :



MADURAA CONSULTANTS
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
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N. Manivasagam
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216/17-4, KMS Garden, Lotus Nagar,
SALEM-16. ©:9677666102, 9066622951



KeyPlan

BUILDING

Legend :

c/c	- Centre to Centre	CF	- Combined Footing
Eq.	- Equal	Ld	- Development Length
Typ.	- Typical	D	- Depth of Footing
—	- Bottom bar	A	- Shorter Span of Column
—	- Top bar	B	- Longer Span of Column
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- Wherever applicable, this drawing must be read along with the relevant architectural drawings.
- Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted.
- 'Y' Designate steel reinforcement diameter, and shall conform to IS-1786 - 2508, Fe 500D Grade with minimum yield strength of **500D N/mm²** having elongation of 16%.
- Safe bearing capacity of soil is **15T/m²** (As per Soil Report)
- Depth of foundation shall be **3m** from Lowest existing ground level (or) Depth upto Hard Strata (Whichever is more)
- Clear cover for column reinforcement - **1 1/2" (40mm)**
for footing reinforcement - **2" (50mm)**
for footing side face reinforcement - **3" (75mm)**
- Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4" Thk.**
- Footing layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/101**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd. by	Appd. by
Date : 5.12.2024	Drawn by : K.P	Designed by : S.M	Appd. by : N.M	

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/101f

Proposed Construction of Apartment Building for Metropole OG at Salem

Title :

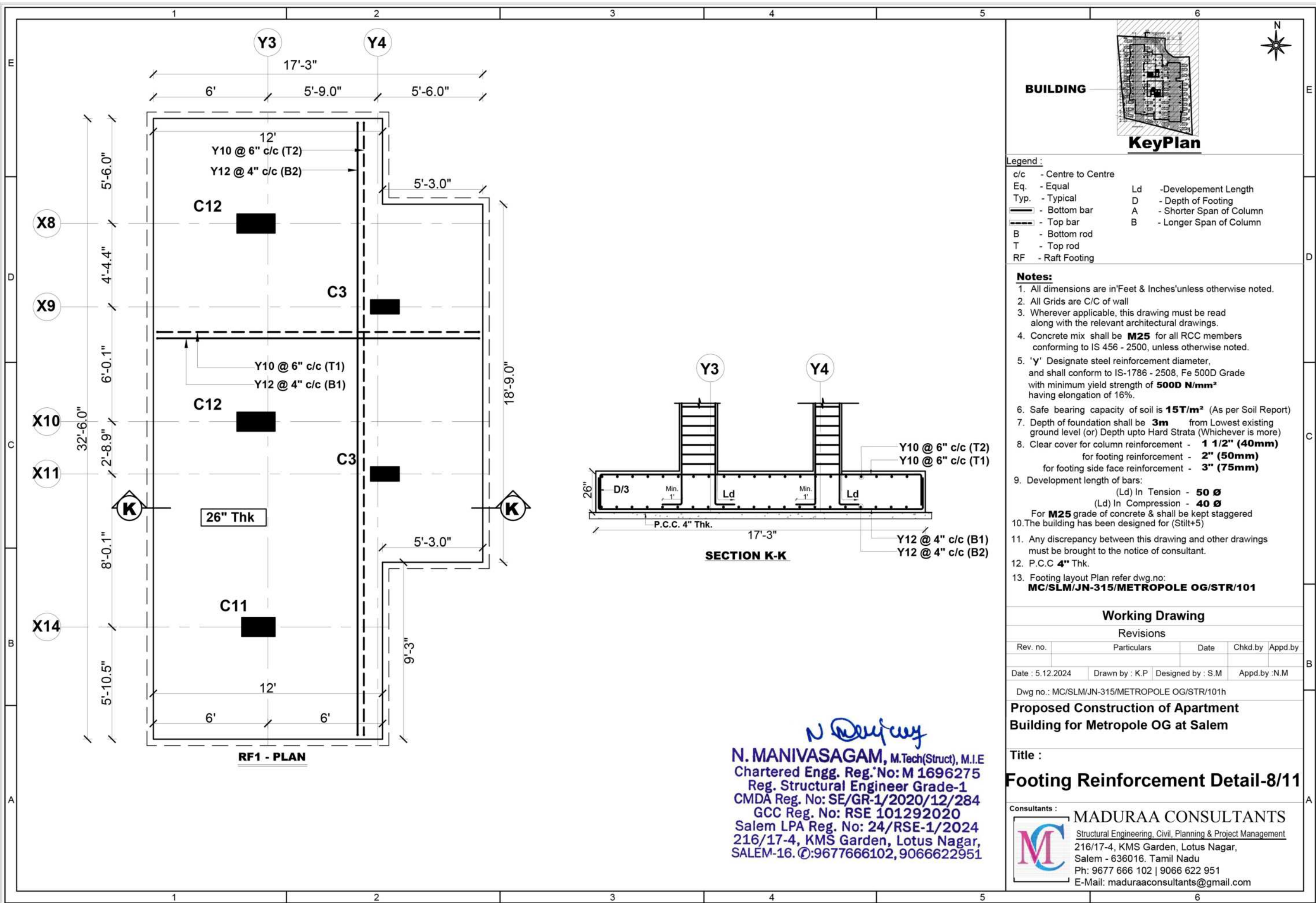
Footing Reinforcement Detail-6/11

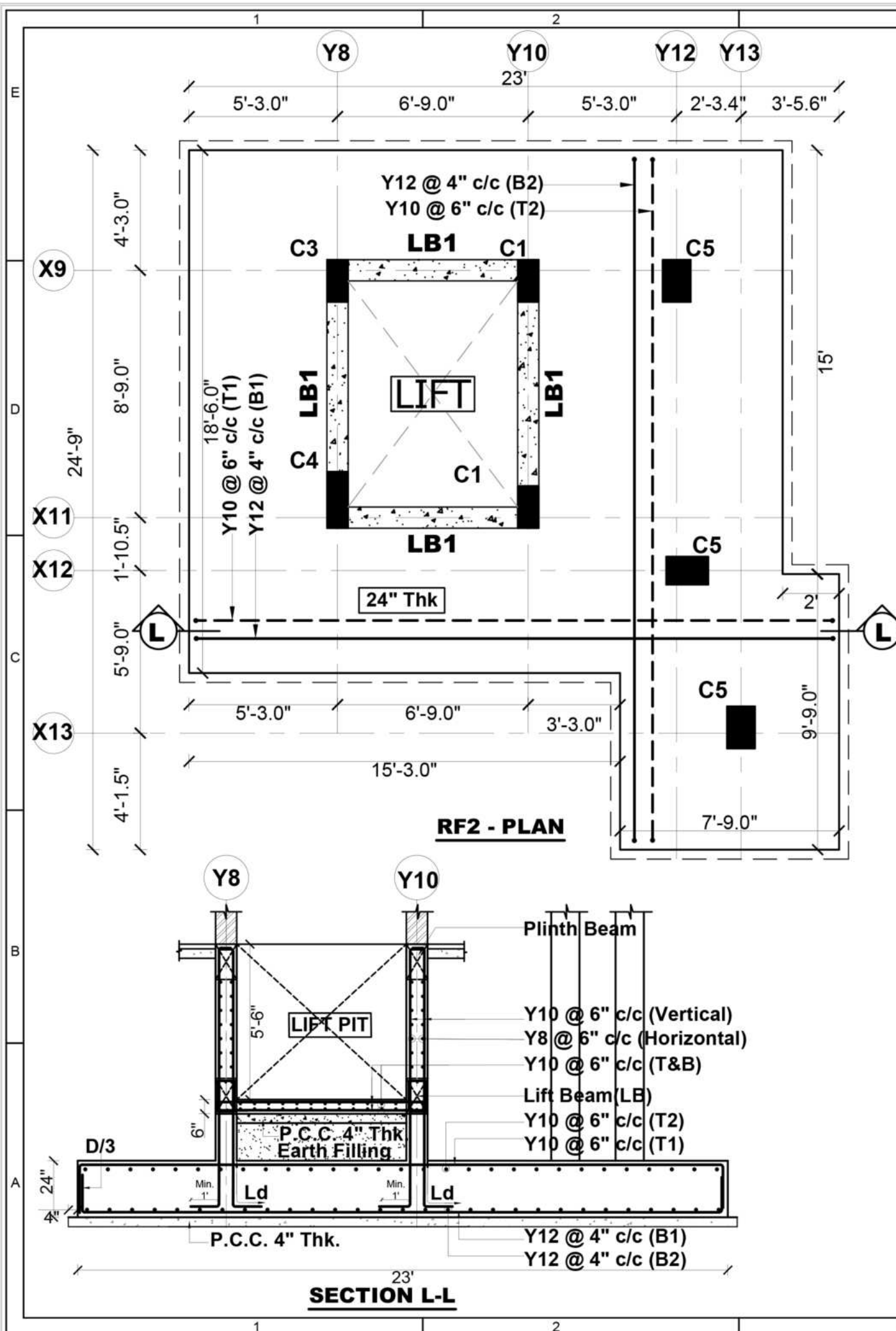
Consultants :

MADURAA CONSULTANTS
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraaconsultants@gmail.com

N. MANIVASAGAM, M.Tech(Struct), M.I.E
Chartered Engg. Reg. No: M 1696275
Reg. Structural Engineer Grade-1
CMDA Reg. No: SE/GR-1/2020/12/284
GCC Reg. No: RSE 101292020
Salem LPA Reg. No: 24/RSE-1/2024
216/17-4, KMS Garden, Lotus Nagar,
SALEM-16. ©:9677666102, 9066622951

N. MANIVASAGAM, M.Tech(Struct), M.I.E
Chartered Engg. Reg.*No: M 1696275
Reg. Structural Engineer Grade-1
CMDA Reg. No: SE/GR-1/2020/12/284
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216/17-4, KMS Garden, Lotus Nagar,
SALEM-16. ☎:9677666102, 9066622951





LIFT BEAM REINFORCEMENT DETAILS:

SL.NO	BEAM NAME	BEAM SIZE	REINFORCEMENT DETAIL		REINFORCEMENT OF STIRRUPS	
			Support Span	Mid Span	ST1	ST2
1.	LB1	0'9" x 1'3"	2-16# + 1-12# 	2-16# + 1-12# 	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups

N. MANIVASAGAM, M.Tech(Struct), M.I.E
 Chartered Engg. Reg. No: M 1696275
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 Salem LPA Reg. No: 24/RSE-1/2024
 216/17-4, KMS Garden, Lotus Nagar,
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KeyPlan

BUILDING

Legend :

c/c - Centre to Centre	Ld - Development Length
Eq. - Equal	D - Depth of Footing
Typ. - Typical	A - Shorter Span of Column
— - Bottom bar	B - Longer Span of Column
- - - - - Top bar	
B - Bottom rod	
T - Top rod	
RF - Raft Footing	

Notes:

- All dimensions are in Feet & Inches unless otherwise noted.
- All Grids are C/C of wall
- Wherever applicable, this drawing must be read along with the relevant architectural drawings.
- Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted.
- 'y' Designate steel reinforcement diameter, and shall conform to IS-1786 - 2508, Fe 500D Grade with minimum yield strength of **500D N/mm²** having elongation of 16%.
- Safe bearing capacity of soil is **15T/m²** (As per Soil Report)
- Depth of foundation shall be **3m** from Lowest existing ground level (or) Depth upto Hard Strata (Whichever is more)
- Clear cover for column reinforcement - **1 1/2" (40mm)**
for footing reinforcement - **2" (50mm)**
for footing side face reinforcement - **3" (75mm)**
- Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4" Thk.**
- Footing layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/101**

Working Drawing

Revisions				
Rev. no.	Particulars	Date	Chkd. by	Appd. by

Date : 5.12.2024 Drawn by : K.P Designed by : S.M Appd. by : N.M

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/101j

Proposed Construction of Apartment Building for Metropole OG at Salem

Title :

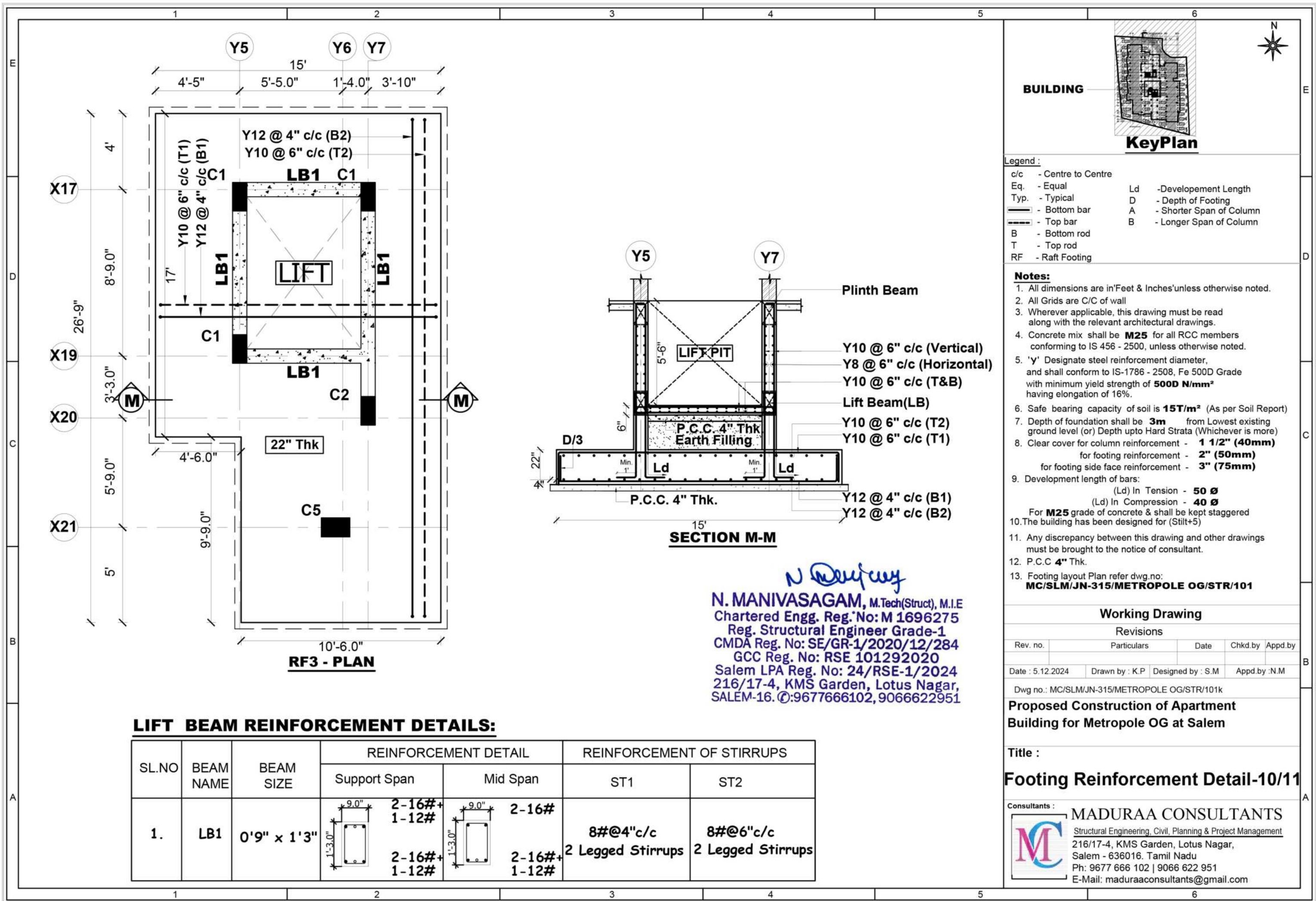
Footing Reinforcement Detail-9/11

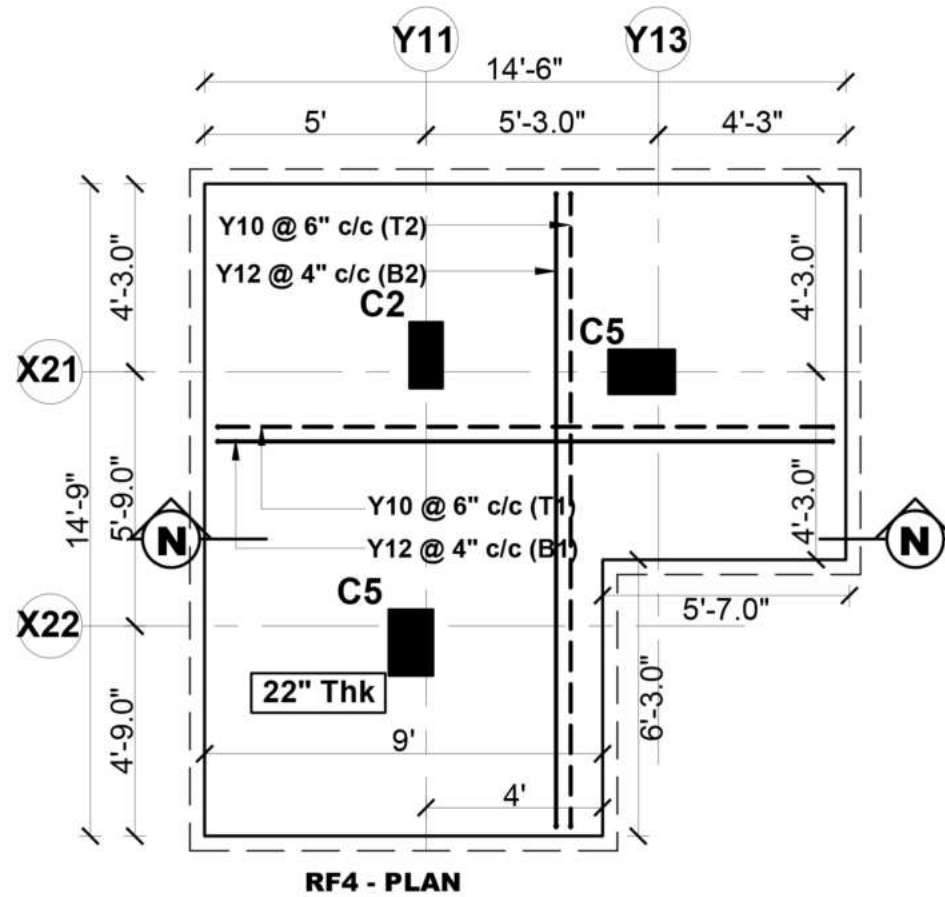
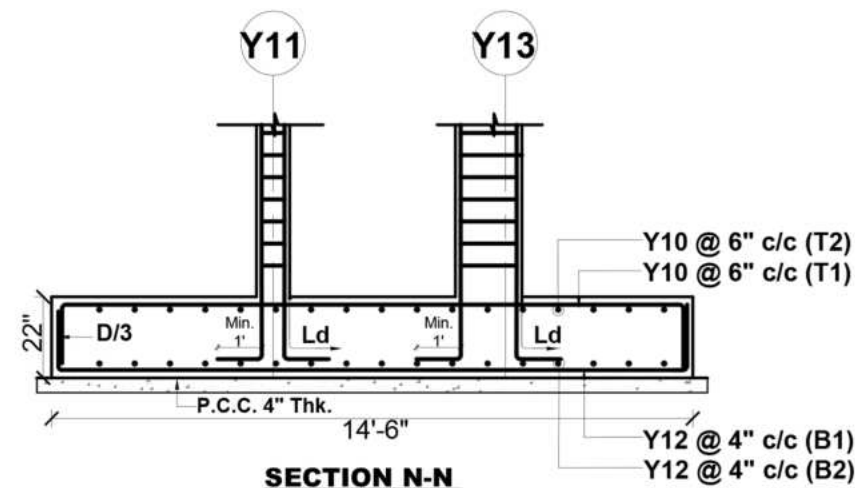
Consultants :

MADURAA CONSULTANTS

Structural Engineering, Civil, Planning & Project Management

216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraaconsultants@gmail.com





N. Manivasagam
N. MANIVASAGAM, M.Tech(Struct), M.I.E
 Chartered Engg. Reg. No: M 1696275
 Reg. Structural Engineer Grade-1
 CMDA Reg. No: SE/GR-1/2020/12/284
 GCC Reg. No: RSE 101292020
 Salem LPA Reg. No: 24/RSE-1/2024
 216/17-4, KMS Garden, Lotus Nagar,
 SALEM-16. @:9677666102, 9066622951



BUILDING

KeyPlan

Legend :

c/c	- Centre to Centre	Ld	-Development Length
Eq.	- Equal	D	- Depth of Footing
Typ.	- Typical	A	- Shorter Span of Column
—	- Bottom bar	B	- Longer Span of Column
—	- Top bar		
B	- Bottom rod		
T	- Top rod		
RF	- Raft Footing		

Notes:

- All dimensions are in Feet & Inches unless otherwise noted.
- All Grids are C/C of wall
- Wherever applicable, this drawing must be read along with the relevant architectural drawings.
- Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted.
- 'y' Designate steel reinforcement diameter, and shall conform to IS-1786 - 2508, Fe 500D Grade with minimum yield strength of **500D N/mm²** having elongation of 16%.
- Safe bearing capacity of soil is **15T/m²** (As per Soil Report)
- Depth of foundation shall be **3m** from Lowest existing ground level (or) Depth upto Hard Strata (Whichever is more)
- Clear cover for column reinforcement - **1 1/2" (40mm)**
for footing reinforcement - **2" (50mm)**
for footing side face reinforcement - **3" (75mm)**
- Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4" Thk.**
- Footing layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/101**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by

Date : 5.12.2024 Drawn by : K.P Designed by : S.M Appd.by : N.M

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/101m

**Proposed Construction of Apartment
Building for Metropole OG at Salem**

Title :

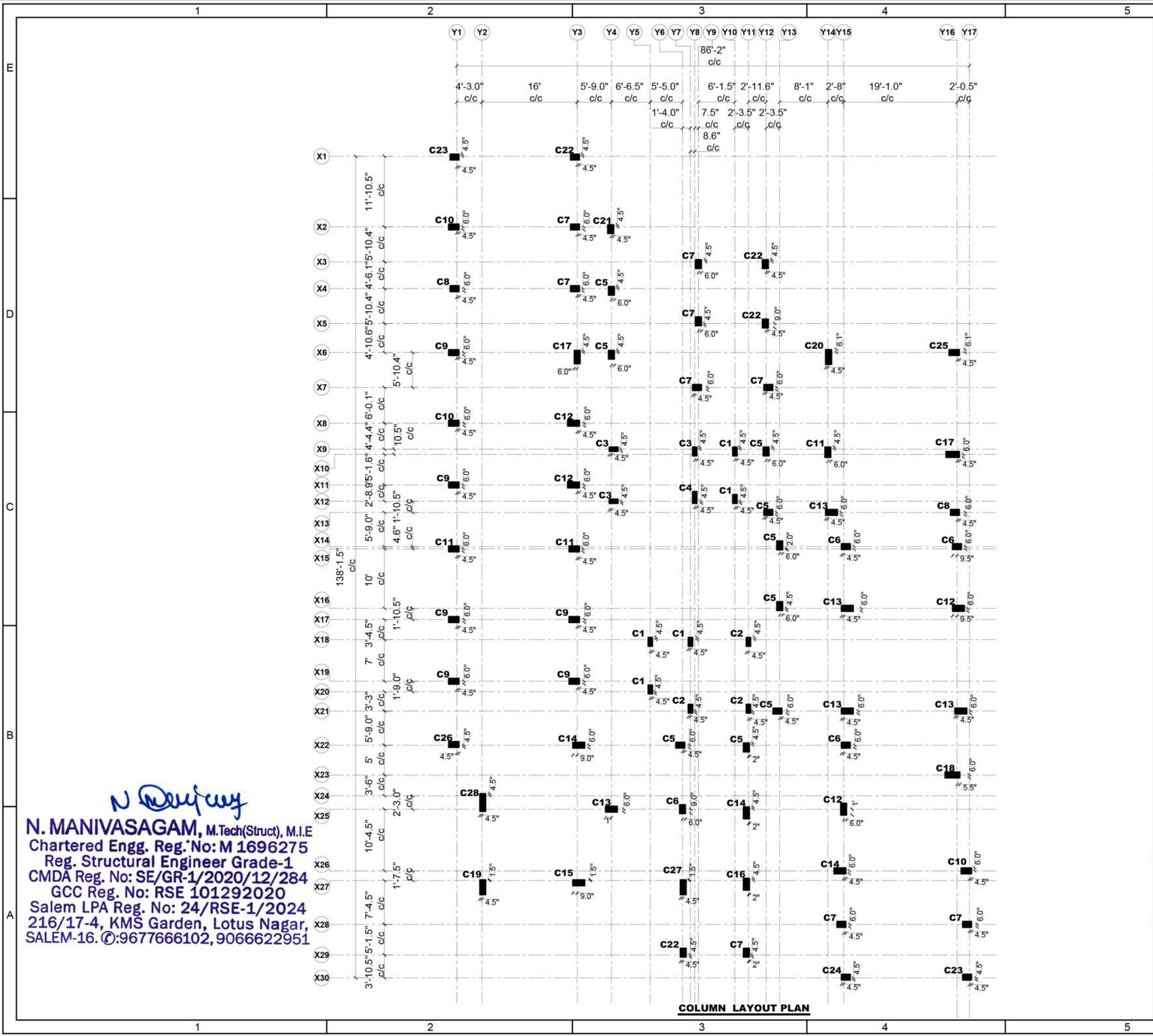
Footing Reinforcement Detail-11/11

Consultants :



MADURAA CONSULTANTS

Structural Engineering, Civil, Planning & Project Management
 216/17-4, KMS Garden, Lotus Nagar,
 Salem - 636016, Tamil Nadu
 Ph: 9677 666 102 | 9066 622 951
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BUILDING

Legend :
c/c - Centre to Centre
C - Column

- Notes:**
1. All dimensions are in Feet & Inches unless otherwise noted.
 2. All Grids are C/C of wall
 3. Wherever applicable, this drawing must be read along with the relevant architectural drawings.
 4. Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted.
 5. 'y' Designate steel reinforcement diameter, and shall conform to IS-1786 - 2508, Fe 500D Grade with minimum yield strength of **500D N/mm²** having elongation of 16%.
 6. Safe bearing capacity of soil is **15T/m²** (As per Soil Report)
 7. Depth of foundation shall be **3m** from Lowest existing ground level (or) Depth upto Hard Strata (Whichever is more)
 8. Clear cover for column reinforcement - **1 1/2" (40mm)**
for footing reinforcement - **2" (50mm)**
for footing side face reinforcement - **3" (75mm)**
 9. Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
 10. The building has been designed for (Stilt+5)
 11. Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
 12. P.C.C **4" Thk.**
 13. Column Reinforcement detail refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/102a**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 5.12.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/102

Proposed Construction of Apartment Building for Metropole OG at Salem

Title :

Column Layout Plan

Consultants :



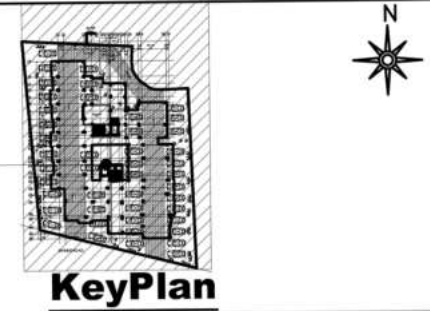
MADURAA CONSULTANTS
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraaconsultants@gmail.com

N. Manivasagam
N. MANIVASAGAM, M.Tech(Struct), M.I.E
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216/17-4, KMS Garden, Lotus Nagar,
SALEM-16. @:9677666102, 9066622951

COLUMN LAYOUT PLAN

COLUMN REINFORCEMENT DETAIL

Sl.no.	No. of Columns	Column Name	Column Sizes	Column Reinf.Detail	Column Reinf.Detail	Column Reinf.Detail	Column Reinf.Detail	Column Reinf.Detail	Lateral Ties		Lateral Ties
				(UP To Footing Lvl to Stilt Floor Roof Lvl)	(Stilt Floor Roof Lvl to First Floor Roof Lvl)	(First Floor Roof Lvl to Second Floor Roof Lvl)	(Second Floor Roof Lvl to Third Floor Roof Lvl)	(Third Floor Roof Lvl to Fifth Floor Roof Lvl)	Special Confining / Joint Reinforcement	Transverse Reinforcement	
1	5	C1	0'9" x 1'6"	9" •4-Y16+ •6-Y12	9" •4-Y16+ •6-Y12	9" •4-Y16+ •6-Y12	9" •4-Y16+ •6-Y12	9" •4-Y16+ •6-Y12	Y8-4"c/c	Y8-6"c/c	
2	3	C2	0'9" x 1'6"	9" •8-Y16	9" •8-Y16	9" •4-Y16+ •4-Y12	9" •4-Y16+ •4-Y12	9" •4-Y16+ •4-Y12	Y8-4"c/c	Y8-6"c/c	
3	3	C3	0'9" x 1'6"	9" •4-Y20+ •6-Y16	9" •4-Y20+ •6-Y16	9" •6-Y16+ •4-Y12	9" •6-Y16+ •4-Y12	9" •4-Y16+ •6-Y12	Y8-4"c/c	Y8-6"c/c	
4	1	C4	0'9" x 2'0"	9" •4-Y20+ •8-Y16	9" •4-Y20+ •8-Y16	9" •6-Y16+ •6-Y12	9" •6-Y16+ •6-Y12	9" •4-Y16+ •8-Y12	Y8-4"c/c	Y8-6"c/c	
5	9	C5	1'0" x 1'6" 0'9" x 1'6"	1' •6-Y16+ •4-Y12	9" •6-Y16+ •4-Y12	9" •4-Y16+ •6-Y12	9" •4-Y16+ •6-Y12	9" •4-Y16+ •6-Y12	Y8-4"c/c	Y8-6"c/c	
6	4	C6	1'0" x 1'6" 0'9" x 1'6"	1' •10-Y16	9" •10-Y16	9" •6-Y16+ •4-Y12	9" •6-Y16+ •4-Y12	9" •4-Y16+ •6-Y12	Y8-4"c/c	Y8-6"c/c	
7	9	C7	1'0" x 1'6" 0'9" x 1'6"	1' •4-Y20+ •6-Y16	9" •4-Y20+ •6-Y16	9" •6-Y16+ •4-Y12	9" •6-Y16+ •4-Y12	9" •4-Y16+ •6-Y12	Y8-4"c/c	Y8-6"c/c	



Legend :
c/c - Centre to Centre
C - Column

- Notes:**
- All dimensions are in Feet & Inches unless otherwise noted.
 - All Grids are C/C of wall
 - Wherever applicable, this drawing must be read along with the relevant architectural drawings.
 - Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted.
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(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
 - The building has been designed for (Stilt+5)
 - Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
 - P.C.C **4"** Thk.
 - Column layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/102**

Working Drawing

Revisions				
Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 5.12.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/102a

Proposed Construction of Apartment Building for Metropole OG at Salem

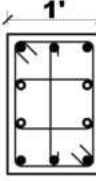
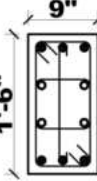
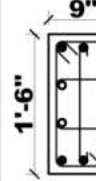
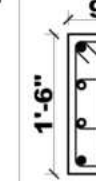
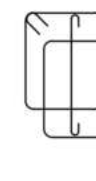
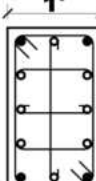
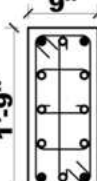
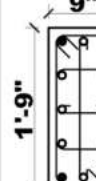
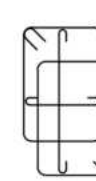
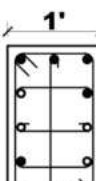
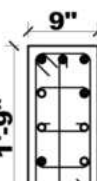
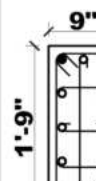
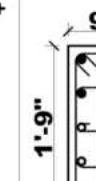
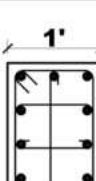
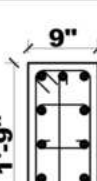
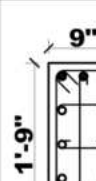
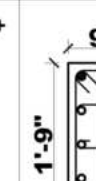
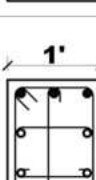
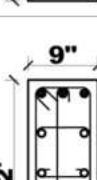
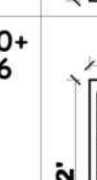
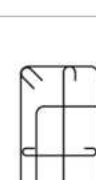
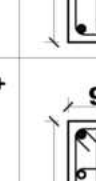
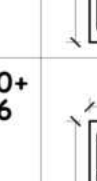
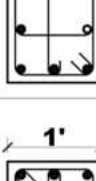
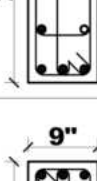
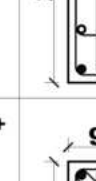
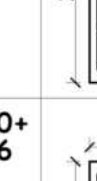
Title :

Column Reinforcement Detail-1/5

Consultants : **MADURAA CONSULTANTS**
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
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N Manivasagam
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216/17-4, KMS Garden, Lotus Nagar,
SALEM-16. ©:9677666102, 9066622951

COLUMN REINFORCEMENT DETAIL

Sl.no	No. of Columns	Column Name	Column Sizes	Column Reinf.Detail (UP To Footing Lvl to Stilt Floor Roof Lvl)	Column Reinf.Detail (Stilt Floor Roof Lvl to First Floor Roof Lvl)	Column Reinf.Detail (First Floor Roof Lvl to Second Floor Roof Lvl)	Column Reinf.Detail (Second Floor Roof Lvl to Third Floor Roof Lvl)	Column Reinf.Detail (Third Floor Roof Lvl to Fifth Floor Roof Lvl)	Lateral Ties		Lateral Ties
									Special Confining / Joint Reinforcement	Transverse Reinforcement	
8	2	C8	1'0" x 1'6" 0'9" x 1'6"	1' - 6" 	1' - 6" 	1' - 6" 	1' - 6" 	1' - 6" 	Y8-4"c/c	Y8-6"c/c	
9	6	C9	1'0" x 1'9" 0'9" x 1'9"	1' - 9" 	1' - 9" 	1' - 9" 	1' - 9" 	1' - 9" 	Y8-4"c/c	Y8-6"c/c	
10	3	C10	1'0" x 1'9" 0'9" x 1'9"	1' - 9" 	1' - 9" 	1' - 9" 	1' - 9" 	1' - 9" 	Y8-4"c/c	Y8-6"c/c	
11	3	C11	1'0" x 1'9" 0'9" x 1'9"	1' - 9" 	1' - 9" 	1' - 9" 	1' - 9" 	1' - 9" 	Y8-4"c/c	Y8-6"c/c	
12	4	C12	1'0" x 2'0" 0'9" x 2'0"	2' - 0" 	2' - 0" 	2' - 0" 	2' - 0" 	2' - 0" 	Y8-4"c/c	Y8-6"c/c	
13	5	C13	1'0" x 2'0" 0'9" x 2'0"	2' - 0" 	2' - 0" 	2' - 0" 	2' - 0" 	2' - 0" 	Y8-4"c/c	Y8-6"c/c	
14	3	C14	1'0" x 2'0" 0'9" x 2'0"	2' - 0" 	2' - 0" 	2' - 0" 	2' - 0" 	2' - 0" 	Y8-4"c/c	Y8-6"c/c	

BUILDING



Legend :

c/c - Centre to Centre
C - Column

Notes:

- All dimensions are in Feet & Inches unless otherwise noted.
- All Grids are C/C of wall
- Wherever applicable, this drawing must be read along with the relevant architectural drawings.
- Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted.
- 'Y' Designate steel reinforcement diameter, and shall conform to IS-1786 - 2508, Fe 500D Grade with minimum yield strength of **500D N/mm²** having elongation of 16%.
- Safe bearing capacity of soil is **15T/m²** (As per Soil Report)
- Depth of foundation shall be **3m** from Lowest existing ground level (or) Depth upto Hard Strata (Whichever is more)
- Clear cover for column reinforcement - **1 1/2" (40mm)**
for footing reinforcement - **2" (50mm)**
for footing side face reinforcement - **3" (75mm)**
- Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4"** Thk.
- Column layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/102**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 5.12.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/102b

Proposed Construction of Apartment Building for Metropole OG at Salem

Title :

Column Reinforcement Detail-2/5

Consultants :

MADURAA CONSULTANTS
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraaconsultants@gmail.com

N. MANIVASAGAM, M.Tech(Struct), M.I.E
Chartered Engg. Reg.No: M 1696275
Reg. Structural Engineer Grade-1
CMDA Reg. No: SE/GR-1/2020/12/284
GCC Reg. No: RSE 101292020
Salem LPA Reg. No: 24/RSE-1/2024
216/17-4, KMS Garden, Lotus Nagar,
SALEM-16. @:9677666102, 9066622951

COLUMN REINFORCEMENT DETAIL										
Sl.no.	No. of Columns	Column Name	Column Sizes	Column Reinf.Detail	Column Reinf.Detail	Column Reinf.Detail	Column Reinf.Detail	Column Reinf.Detail	Lateral Ties	
				(UP To Footing Lvl to Stilt Floor Roof Lvl)	(Stilt Floor Roof Lvl to First Floor Roof Lvl)	(First Floor Roof Lvl to Second Floor Roof Lvl)	(Second Floor Roof Lvl to Third Floor Roof Lvl)	(Third Floor Roof Lvl to Fifth Floor Roof Lvl)	Special Confining / Joint Reinforcement	Transverse Reinforcement
15	1	C15	1'0" x 2'0"		-----	-----	-----	-----	Y8-4"c/c	Y8-6"c/c
16	1	C16	1'0" x 2'0" 0'9" x 2'0"						Y8-4"c/c	Y8-6"c/c
17	2	C17	1'0" x 2'3" 0'9" x 2'3"						Y8-4"c/c	Y8-6"c/c
18	1	C18	1'0" x 2'6" 0'9" x 2'6"						Y8-4"c/c	Y8-6"c/c
19	1	C19	1'0" x 2'6" 0'9" x 2'6"						Y8-4"c/c	Y8-6"c/c
20	1	C20	1'0" x 2'6" 0'9" x 2'6"						Y8-4"c/c	Y8-6"c/c

KeyPlan

Legend :

c/c - Centre to Centre

C - Column

Notes:

- All dimensions are in Feet & Inches unless otherwise noted.
- All Grids are C/C of Wall.
- Wherever applicable, this drawing must be read along with the relevant architectural drawings.
- Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted.
- 'y' Designate steel reinforcement diameter, and shall conform to IS-1786 - 2508, Fe 500D Grade with minimum yield strength of **500D N/mm²** having elongation of 16%.
- Safe bearing capacity of soil is **15T/m²** (As per Soil Report)
- Depth of foundation shall be **3m** from Lowest existing ground level (or) Depth upto Hard Strata (Whichever is more)
- Clear cover for column reinforcement - **1 1/2" (40mm)**
for footing reinforcement - **2" (50mm)**
for footing side face reinforcement - **3" (75mm)**
- Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4"** Thk.
- Column layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/102**

Working Drawing

Revisions				
Rev. no.	Particulars	Date	Chkd.by	Appd.by

Date : 5.12.2024 Drawn by : K.P Designed by : S.M Appd.by : N.M

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/102c

Proposed Construction of Apartment Building for Metropole OG at Salem

Title :

Column Reinforcement Detail-3/5

Consultants : **MADURAA CONSULTANTS**

Structural Engineering, Civil, Planning & Project Management

216/17-4, KMS Garden, Lotus Nagar, Salem - 636016, Tamil Nadu

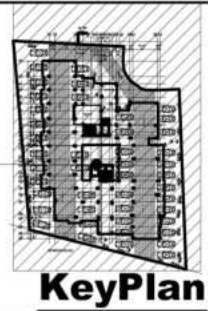
Ph: 9677 666 102 | 9066 622 951

E-Mail: maduraaconsultants@gmail.com

COLUMN REINFORCEMENT DETAIL

Sl.no.	No. of Columns	Column Name	Column Sizes	Column Reinf.Detail (UP To Footing Lvl to Stilt Floor Roof Lvl)	Column Reinf.Detail (Stilt Floor Roof Lvl to First Floor Roof Lvl)	Column Reinf.Detail (First Floor Roof Lvl to Second Floor Roof Lvl)	Column Reinf.Detail (Second Floor Roof Lvl to Third Floor Roof Lvl)	Column Reinf.Detail (Third Floor Roof Lvl to Fifth Floor Roof Lvl)	Lateral Ties		Lateral Ties
									Special Confining / Joint Reinforcement	Transverse Reinforcement	
26	1	C26	1'0" x 1'9" 0'9" x 1'9"						Y8-4"c/c	Y8-6"c/c	
27	1	C27	1'0" x 2'6" 0'9" x 2'6"						Y8-4"c/c	Y8-6"c/c	
28	1	C28	1'0" x 3'0" 0'9" x 3'0"						Y8-4"c/c	Y8-6"c/c	

BUILDING



Legend :
c/c - Centre to Centre
C - Column

Notes:

- All dimensions are in Feet & Inches unless otherwise noted.
- All Grids are C/C of wall
- Wherever applicable, this drawing must be read along with the relevant architectural drawings.
- Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted.
- 'Y' Designate steel reinforcement diameter, and shall conform to IS-1786 - 2508, Fe 500D Grade with minimum yield strength of **500D N/mm²** having elongation of 16%.
- Safe bearing capacity of soil is **15T/m²** (As per Soil Report)
- Depth of foundation shall be **3m** from Lowest existing ground level (or) Depth upto Hard Strata (Whichever is more)
- Clear cover for column reinforcement - **1 1/2" (40mm)**
for footing reinforcement - **2" (50mm)**
for footing side face reinforcement - **3" (75mm)**
- Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4"** Thk.
- Column layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/102**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 5.12.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/102c

Proposed Construction of Apartment Building for Metropole OG at Salem

Title :

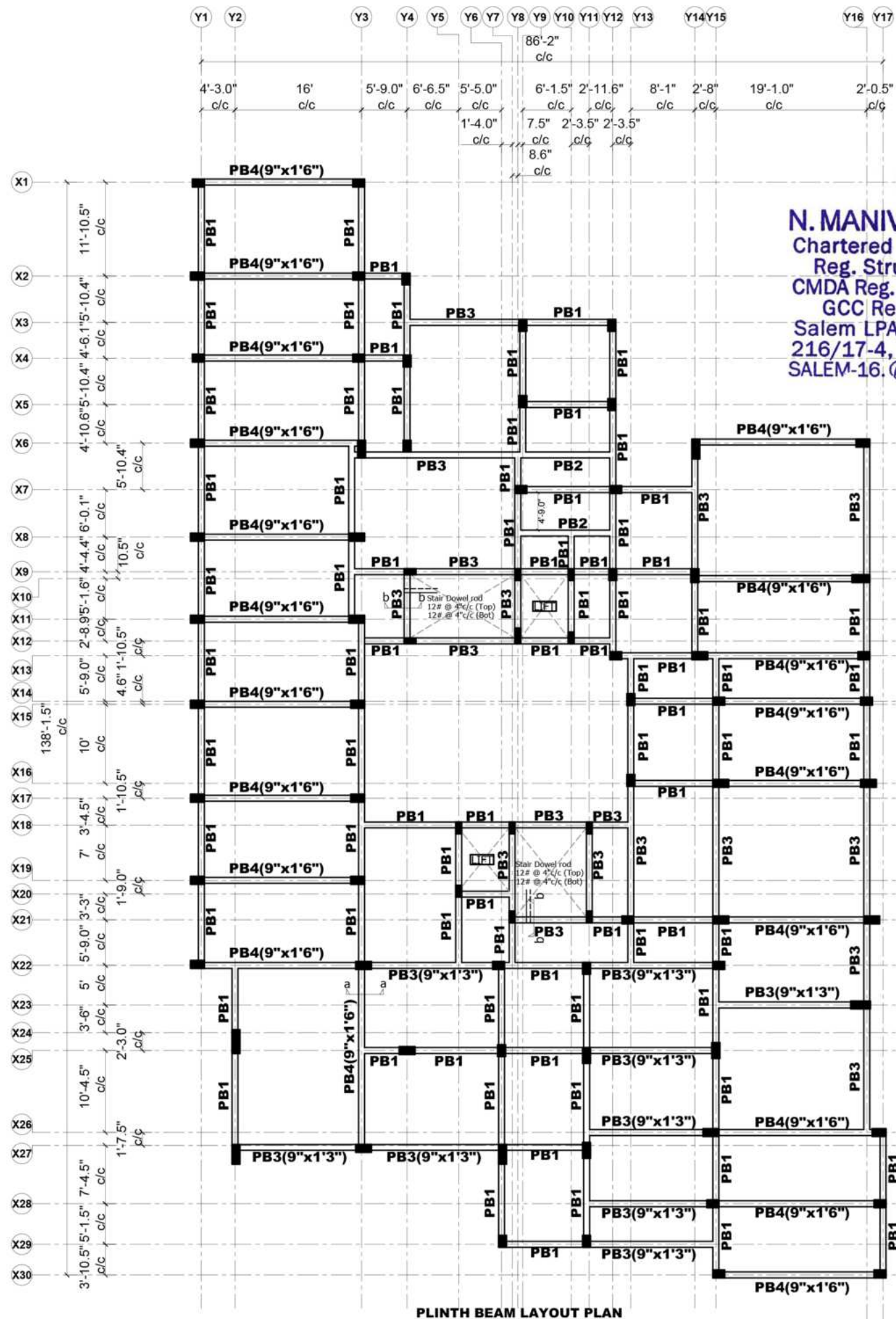
Column Reinforcement Detail-5/5

Consultants :

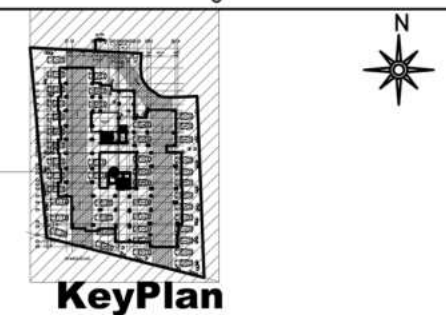


MADURAA CONSULTANTS
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraaconsultants@gmail.com

N. Manivasagam
N. MANIVASAGAM, M.Tech(Struct), M.I.E
Chartered Engg. Reg.No: M 1696275
Reg. Structural Engineer Grade-1
CMDA Reg. No: SE/GR-1/2020/12/284
GCC Reg. No: RSE 101292020
Salem LPA Reg. No: 24/RSE-1/2024
216/17-4, KMS Garden, Lotus Nagar,
SALEM-16. ©:9677666102, 9066622951



N. Manivasagam
N. MANIVASAGAM, M.Tech(Struct), M.I.E
 Chartered Engg. Reg. No: M 1696275
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 216/17-4, KMS Garden, Lotus Nagar,
 SALEM-16. @:9677666102, 9066622951



Legend :
 c/c - Centre to Centre
 PB - Plinth Beam

- Notes:**
- All dimensions are in Feet & Inches unless otherwise noted.
 - All Grids are C/C of wall
 - Wherever applicable, this drawing must be read along with the relevant architectural drawings.
 - Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted.
 - 'y' Designate steel reinforcement diameter, and shall conform to IS-1786 - 2508, Fe 500D Grade with minimum yield strength of **500D N/mm²** having elongation of 16%.
 - Safe bearing capacity of soil is **15T/m²** (As per Soil Report)
 - Depth of foundation shall be **3m** from Lowest existing ground level (or) Depth upto Hard Strata (Whichever is more)
 - Clear cover for Beam reinforcement - **1" (25mm)**
for Roof Slab reinforcement - **0.75" (20mm)**
 - Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
 - The building has been designed for (Stilt+5)
 - Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
 - P.C.C **4"** Thk.
 - Plinth Beam Reinforcement detail refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/103a**

Working Drawing

Revisions				
Rev. no.	Particulars	Date	Chkd. by	Appd. by
Date : 5.12.2024	Drawn by : K.P	Designed by : S.M	Appd. by : N.M	

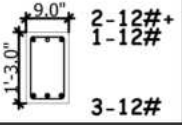
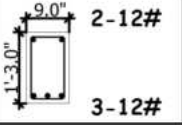
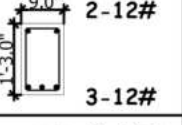
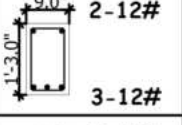
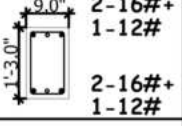
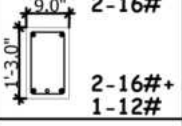
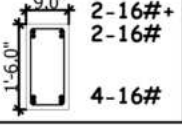
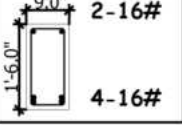
Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/103

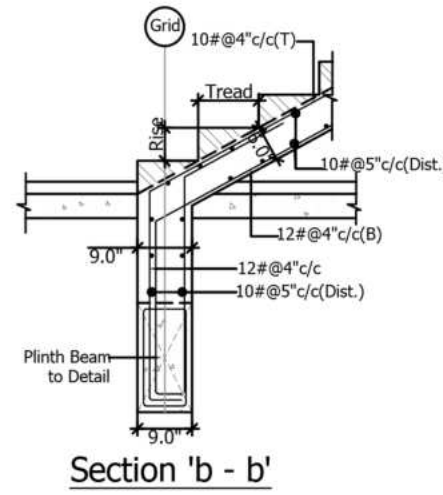
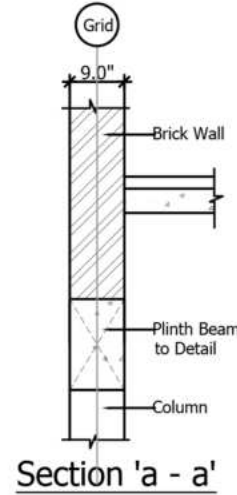
Proposed Construction of Apartment Building for Metropole OG at Salem

Title : **Plinth Beam Layout Plan**

Consultants : **MADURAA CONSULTANTS**
 Structural Engineering, Civil, Planning & Project Management
 216/17-4, KMS Garden, Lotus Nagar,
 Salem - 636016. Tamil Nadu
 Ph: 9677 666 102 | 9066 622 951
 E-Mail: maduraconsultants@gmail.com

PLINTH BEAM REINFORCEMENT DETAILS:

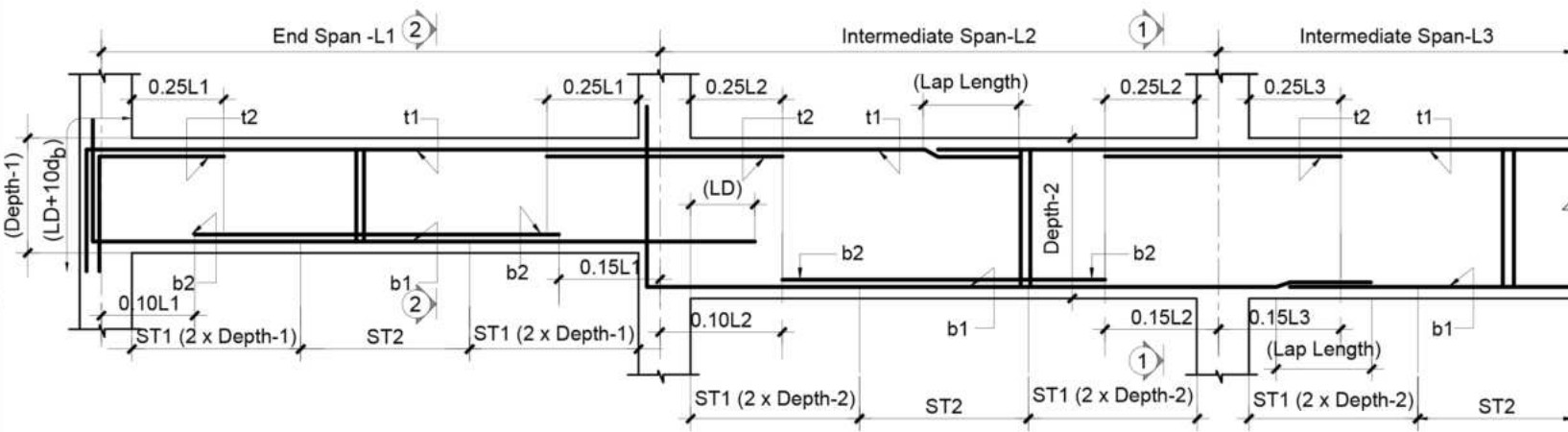
SL.NO	BEAM NAME	BEAM SIZE	REINFORCEMENT DETAIL		REINFORCEMENT OF STIRRUPS	
			Support Span	Mid Span	ST1	ST2
1.	PB1	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
2.	PB2	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
3.	PB3	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
4.	PB4	0'9" x 1'6"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups



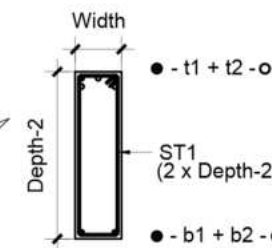
Section 'a - a'

Section 'b - b'

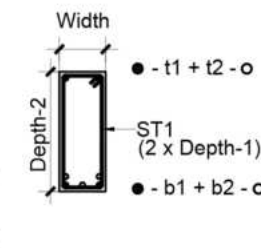
N. Manivasagam
N. MANIVASAGAM, M.Tech(Struct), M.I.E
 Chartered Engg. Reg. No: M 1696275
 Reg. Structural Engineer Grade-1
 CMDA Reg. No: SE/GR-1/2020/12/284
 GCC Reg. No: RSE 101292020
 Salem LPA Reg. No: 24/RSE-1/2024
 216/17-4, KMS Garden, Lotus Nagar,
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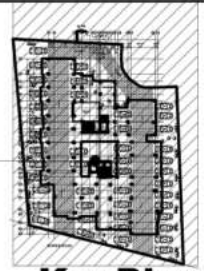
Reinforcement & Stirrups Detail (Varying Depth)



Section '1- 1'



Section '2- 2'



Key Plan

BUILDING

Legend :

c/c - Centre to Centre	ST1 - Stirrups at Support (2x Beam Depth)
Thk. - Thickness	ST2 - Stirrups at Beam Mid Span
PB - Plinth Beam	
T1 - Top Through Rod	
T2 - Top Extra Rod	
B1 - Bottom Through Rod	
B2 - Bottom Extra Rod	

Notes:

- All dimensions are in Feet & Inches unless otherwise noted.
- All Grids are C/C of wall
- Wherever applicable, this drawing must be read along with the relevant architectural drawings.
- Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted.
- 'y' Designate steel reinforcement diameter, and shall conform to IS-1786 - 2508, Fe 500D Grade with minimum yield strength of **500D N/mm²** having elongation of 16%.
- Safe bearing capacity of soil is **15T/m²** (As per Soil Report)
- Depth of foundation shall be **3m** from Lowest existing ground level (or) Depth upto Hard Strata (Whichever is more)
- Clear cover for Beam reinforcement - **1" (25mm)**
for Roof Slab reinforcement - **0.75" (20mm)**
- Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4"** Thk.
- Plinth Beam layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/103**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd. by	Appd. by
1				

Date : 5.12.2024 Drawn by : K.P. Designed by : S.M Appd. by : N.M

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/103a

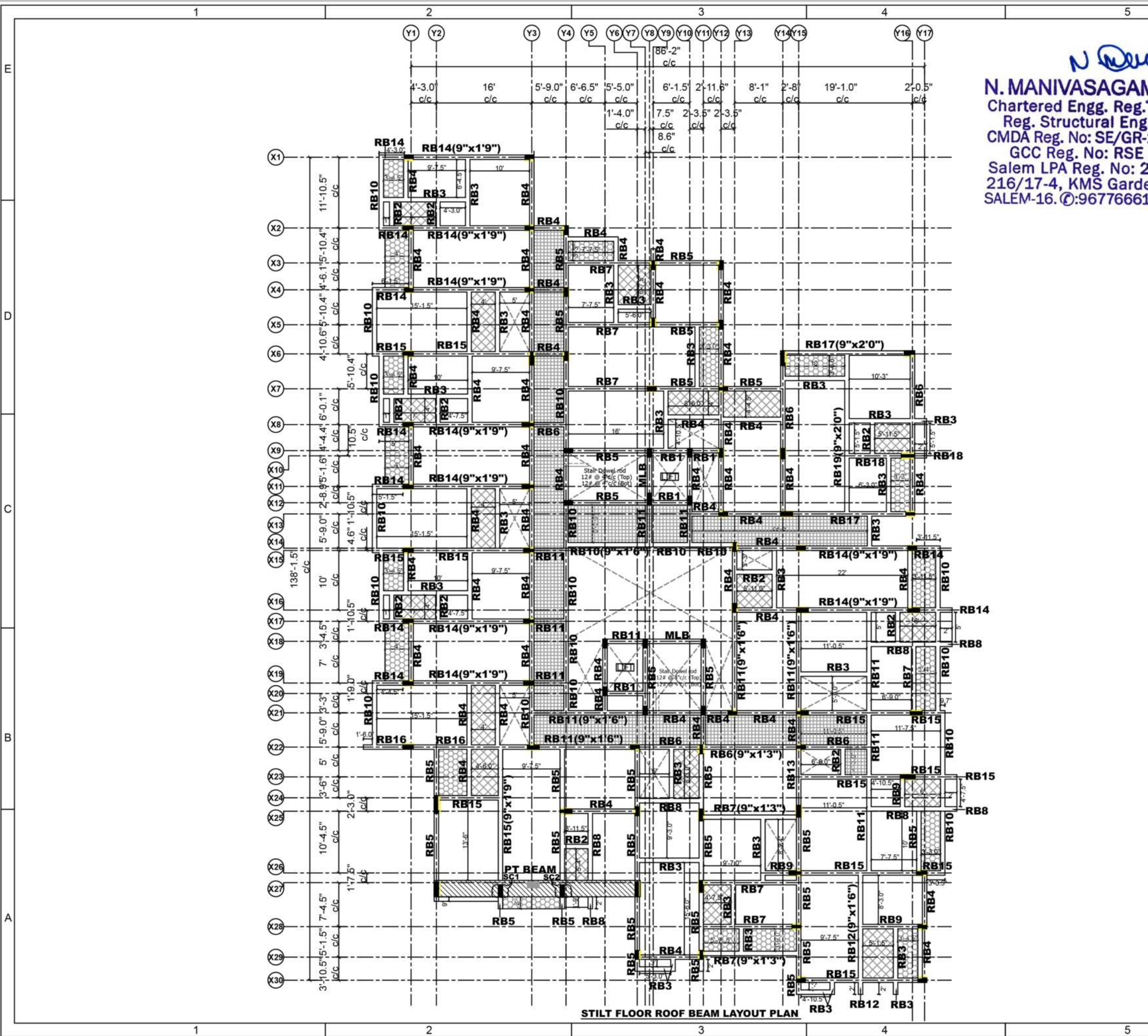
Proposed Construction of Apartment Building for Metropole OG at Salem

Title :

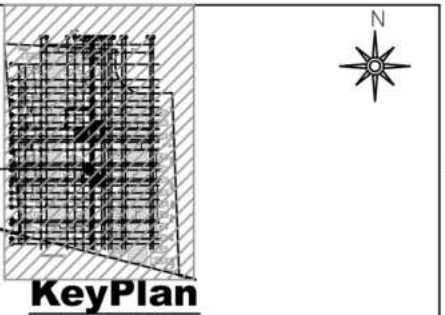
Plinth Beam Reinforcement Detail

Consultants :

MADURAA CONSULTANTS
 Structural Engineering, Civil, Planning & Project Management
 216/17-4, KMS Garden, Lotus Nagar,
 Salem - 636016, Tamil Nadu
 Ph: 9677 666 102 | 9066 622 951
 E-Mail: maduraaconsultants@gmail.com



N. Manivasagam
N. MANIVASAGAM, M.Tech (Struct), M.I.E
Chartered Engg. Reg. No: M 1696275
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CMDA Reg. No: SE/GR-1/2020/12/284
GCC Reg. No: RSE 101292020
Salem LPA Reg. No: 24/RSE-1/2024
216/17-4, KMS Garden, Lotus Nagar,
SALEM-16. ©:9677666102/906622951



Legend:
RB - Roof Beam
Toilet Sunken Slab By 9"
MLB - Mid Landing Beam
Beam & Slab Down By 3"
Slab Down By 3"
PT Beam

- Notes:**
1. All dimensions are in Feet & Inches unless otherwise noted.
 2. All Grids are C/C of wall
 3. Wherever applicable, this drawing must be read along with the relevant architectural drawings.
 4. Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted. PT Beam & Slab **M35**.
 5. 'Y' Designate steel reinforcement diameter, and shall conform to IS-1786 - 2508, Fe 500D Grade with minimum yield strength of **500D N/mm²** having elongation of 16%.
 6. Safe bearing capacity of soil is **15T/m²** (As per Soil Report)
 7. Depth of foundation shall be **3m** from Lowest existing ground level (or) Depth upto Hard Strata (Whichever is more)
 8. Clear cover for Beam reinforcement - **1" (25mm)** for Roof Slab reinforcement - **0.75" (20mm)**
 9. Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
 10. The building has been designed for (Stilt+5)
 11. Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
 12. P.C.C **4" Thk.**
 13. Stilt Floor Roof Beam Reinforcement detail refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/104a**

Working Drawing

Revisions				
Rev. no.	Particulars	Date	Chkd. by	Appd. by
Date : 18.4.2025	Drawn by : K.P	Designed by : S.M	Appd. by : N.M	

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/104

Proposed Construction of Apartment Building for Metropole OG at Salem

Title : **Stilt Floor Roof Beam Layout Plan**

Consultants : **MADURAA CONSULTANTS**
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraconsultants@gmail.com

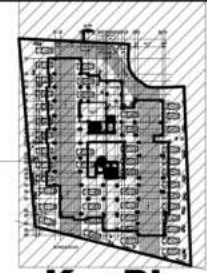
STILT FLOOR ROOF BEAM REINFORCEMENT DETAILS:

SL.NO	BEAM NAME	BEAM SIZE	REINFORCEMENT DETAIL		REINFORCEMENT OF STIRRUPS	
			Support Span	Mid Span	ST1	ST2
1.	RB1	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
2.	RB2	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
3.	RB3	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
4.	RB4	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
5.	RB5/MLB	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
6.	RB6	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
7.	RB7	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
8.	RB8	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
9.	RB9	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
10.	RB10	0'9" x 1'6"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups

STUB COLUMN REINFORCEMENT DETAIL

Sl.no.	No. of Columns	Column Name	Column Sizes	Column Reinf. Detail (Stilt floor Roof Lvl to Terrace floor Roof Lvl)	Lateral Ties		Lateral Ties	Remarks
					Special Confining / Joint Reinforcement	Transverse Reinforcement		
1	1	SC1	9"x2'0"		Y8-4"c/c	Y8-6"c/c		Upto Terrace floor Roof level
2	1	SC2	9"x2'0"		Y8-4"c/c	Y8-6"c/c		Upto Water tank top level

N. Manivasagam
N. MANIVASAGAM, M.Tech(Struct), M.I.E
Chartered Engg. Reg. No: M 1696275
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KeyPlan

BUILDING

Legend :

c/c	- Centre to Centre	ST1	- Stirrups at Support (2x Beam Depth)
Thk.	- Thickness	ST2	- Stirrups at Beam Mid Span
PB	- Plinth Beam		
T1	- Top Through Rod		
T2	- Top Extra Rod		
B1	- Bottom Through Rod		
B2	- Bottom Extra Rod		

Notes:

- All dimensions are in Feet & Inches unless otherwise noted.
- All Grids are C/C of wall
- Wherever applicable, this drawing must be read along with the relevant architectural drawings.
- Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted. PT Beam & Slab **M35**.
- 'Y' Designate steel reinforcement diameter, and shall conform to IS-1786 - 2508, Fe 500D Grade with minimum yield strength of **500D N/mm²** having elongation of 16%.
- Safe bearing capacity of soil is **15T/m²** (As per Soil Report)
- Depth of foundation shall be **3m** from Lowest existing ground level (or) Depth upto Hard Strata (Whichever is more)
- Clear cover for Beam reinforcement - **1" (25mm)**
for Roof Slab reinforcement - **0.75" (20mm)**
- Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4" Thk.**
- Stilt Floor Roof Beam layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/104**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 18.4.2025	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/104a

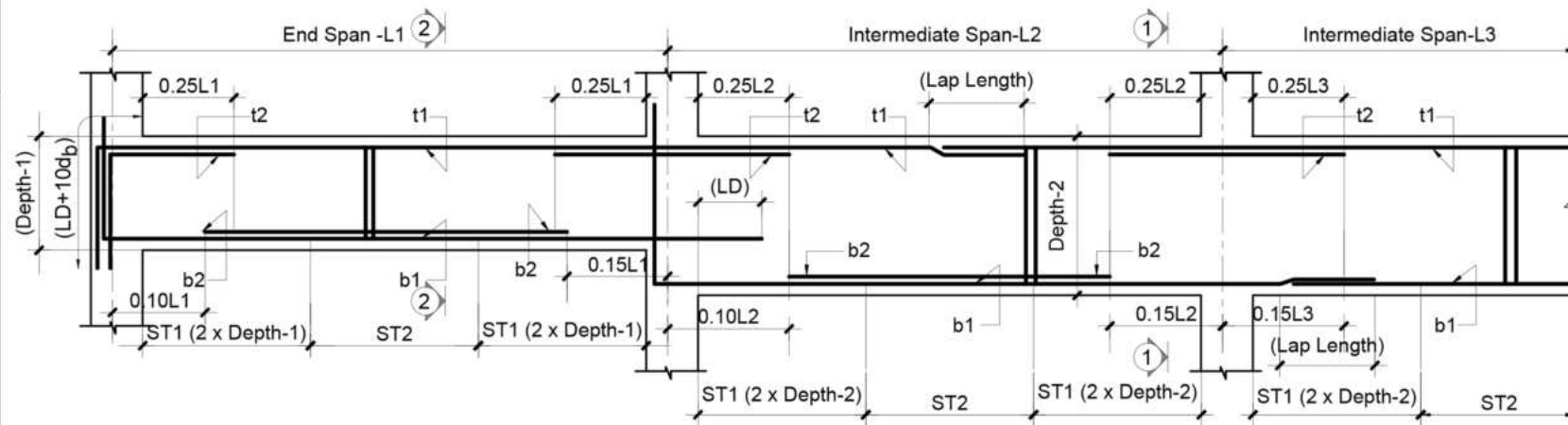
Proposed Construction of Apartment Building for Metropole OG at Salem

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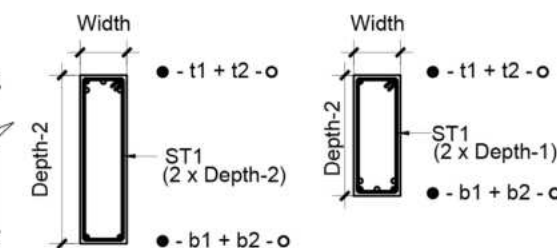
Stilt Floor Roof Beam Reinforcement Detail 1/2

Consultants :

MADURAA CONSULTANTS
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraaconsultants@gmail.com



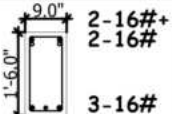
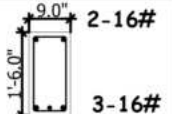
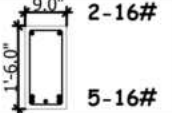
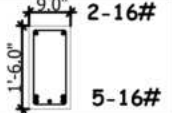
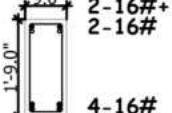
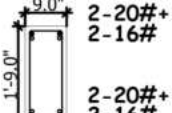
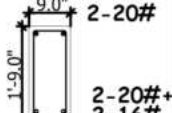
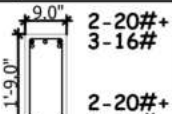
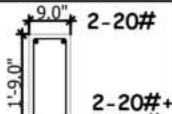
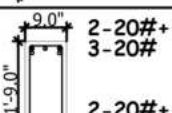
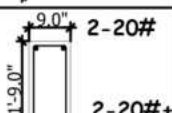
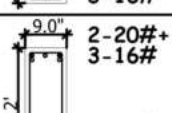
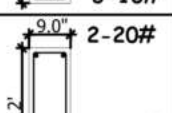
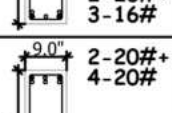
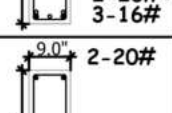
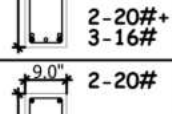
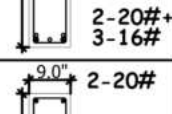
Reinforcement & Stirrups Detail (Varying Depth)



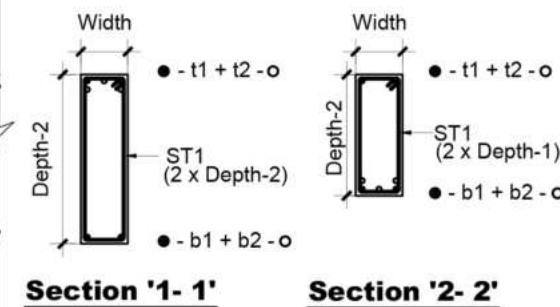
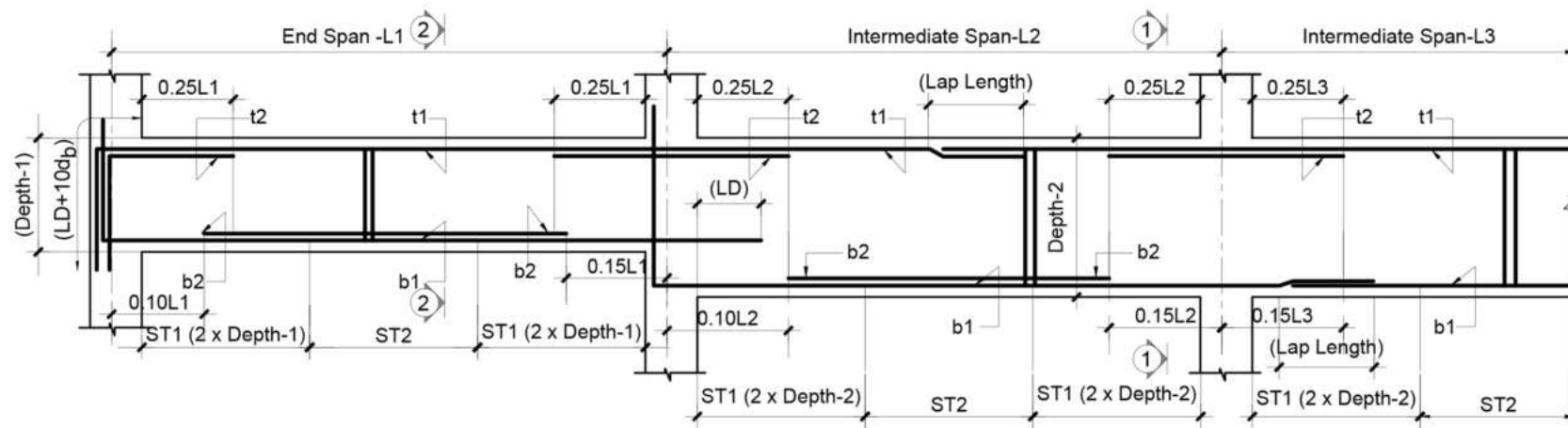
Section '1- 1'

Section '2- 2'

STILT FLOOR ROOF BEAM REINFORCEMENT DETAILS:

SL.NO	BEAM NAME	BEAM SIZE	REINFORCEMENT DETAIL		REINFORCEMENT OF STIRRUPS	
			Support Span	Mid Span	ST1	ST2
11.	RB11	0'9" x 1'6"	 2-16# 2-16# 3-16#	 2-16# 3-16#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
12.	RB12	0'9" x 1'6"	 2-16# 5-16#	 2-16# 5-16#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
13.	RB13	0'9" x 1'9"	 2-16# 2-16# 4-16#	 2-16# 4-16#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
14.	RB14	0'9" x 1'9"	 2-20# 2-16# 2-20# 2-16#	 2-20# 2-20# 2-16#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
15.	RB15	0'9" x 1'9"	 2-20# 3-16# 2-20# 2-16#	 2-20# 2-20# 2-16#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
16.	RB16	0'9" x 1'9"	 2-20# 3-20# 2-20# 3-16#	 2-20# 2-20# 3-16#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
17.	RB17	0'9" x 2'0"	 2-20# 3-16# 2-20# 3-16#	 2-20# 2-20# 3-16#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
18.	RB18	0'9" x 2'0"	 2-20# 4-20# 2-20# 3-16#	 2-20# 2-20# 3-16#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
19.	RB19	0'9" x 2'0"	 2-20# 6-20#	 2-20# 6-20#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups


N. MANIVASAGAM, M.Tech(Struct), M.I.E
Chartered Engg. Reg. No: M 1696275
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GCC Reg. No: RSE 101292020
Salem LPA Reg. No: 24/RSE-1/2024
216/17-4, KMS Garden, Lotus Nagar,
SALEM-16. ©:9677666102, 9066622951



BUILDING



Legend :
c/c - Centre to Centre
Thk. - Thickness
RB - Roof Beam
T1 - Top Through Rod
T2 - Top Extra Rod
B1 - Bottom Through Rod
B2 - Bottom Extra Rod
ST1 - Stirrups at Support (2x Beam Depth)
ST2 - Stirrups at Beam Mid Span

Notes:

- All dimensions are in Feet & Inches unless otherwise noted.
- All Grids are C/C of wall
- Wherever applicable, this drawing must be read along with the relevant architectural drawings.
- Concrete mix shall be **M25** for all RCC members conforming to IS 456 - 2500, unless otherwise noted. PT Beam & Slab **M35**.
- 'Y' Designate steel reinforcement diameter, and shall conform to IS-1786 - 2508, Fe 500D Grade with minimum yield strength of **500D N/mm²** having elongation of 16%.
- Safe bearing capacity of soil is **15T/m²** (As per Soil Report)
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for Roof Slab reinforcement - **0.75" (20mm)**
- Development length of bars:
(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
For **M25** grade of concrete & shall be kept staggered
- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4"** Thk.
- Stilt Floor Roof Beam layout Plan refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/104**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd. by	Appd. by
1				

Date : 18.4.2025 Drawn by : K.P. Designed by : S.M. Appd. by : N.M

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/104a

Proposed Construction of Apartment Building for Metropole OG at Salem

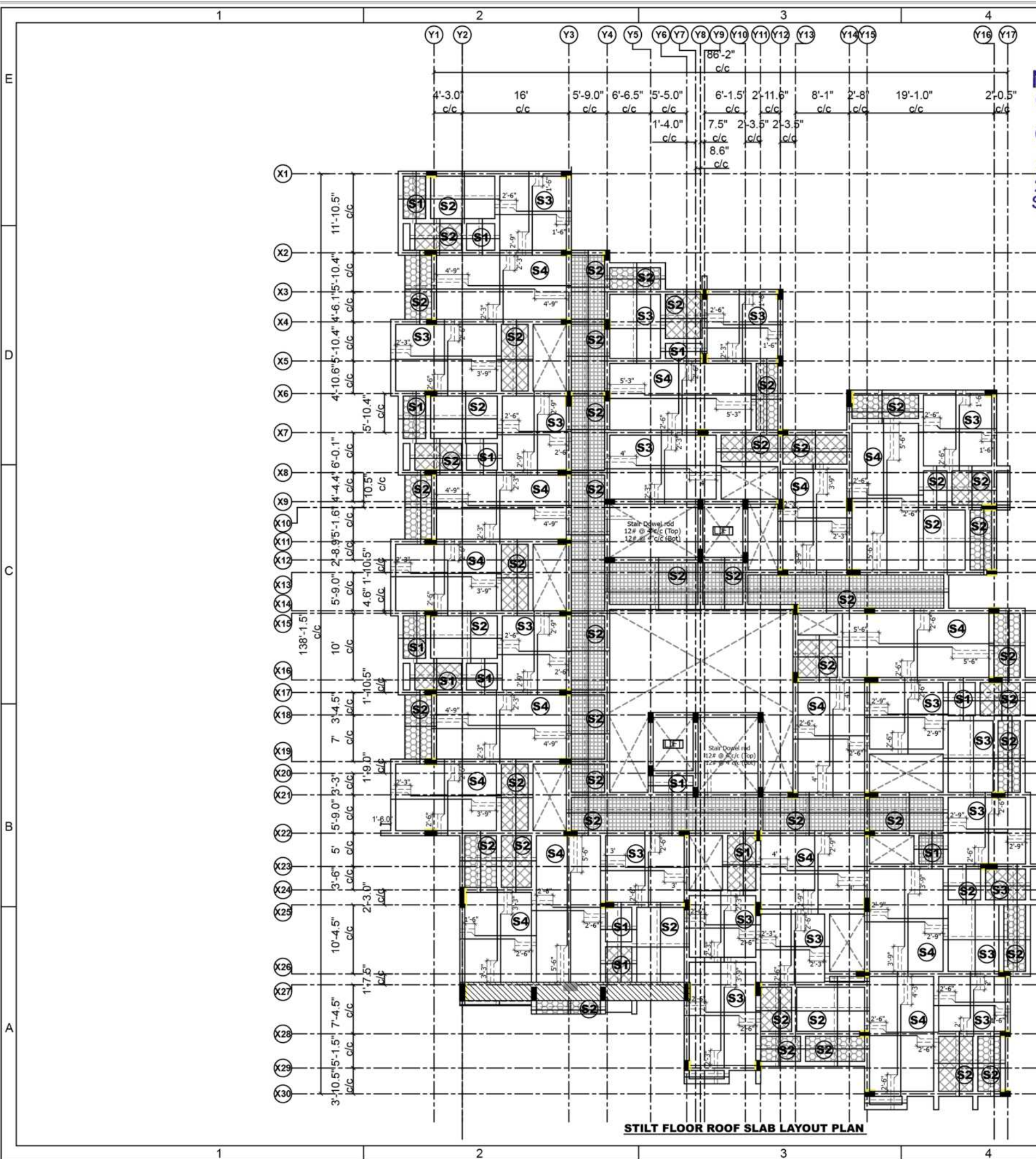
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Stilt Floor Roof Beam Reinforcement Detail 2/2

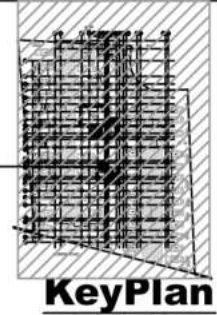
Consultants :



MADURAA CONSULTANTS
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
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Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraconsultants@gmail.com



N. Manivasagam
N. MANIVASAGAM, M.Tech(Struct), M.I.E
Chartered Engg. Reg. No: M 1696275
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- c/c - Centre to Centre
RB - Roof Beam
Toilet Sunken Slab By 9"
MLB - Mid Landing Beam
Beam & Slab Down By 3"
Slab Down By 3"
PT Beam

Notes:

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- P.C.C **4" Thk.**
- Stilt Floor Roof Slab Reinforcement detail refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/105a**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd by	Appd. by
Date : 18.4.2025	Drawn by : K.P	Designed by : S.M	Appd. by : N.M	

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/105

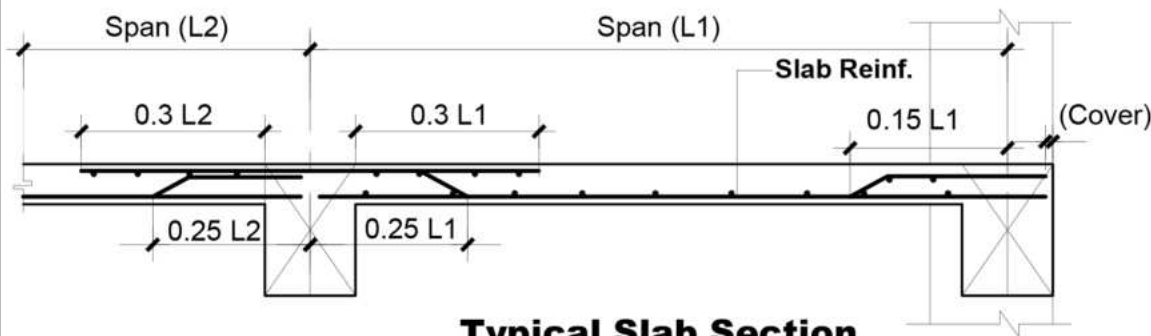
**Proposed Construction of Apartment
Building for Metropole OG at Salem**

Title : **Stilt Floor Roof Slab
Layout Plan**

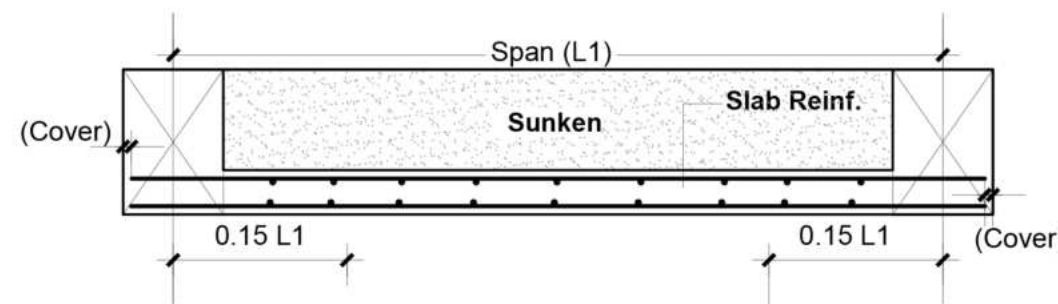
Consultants : **MADURAA CONSULTANTS**
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016, Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraconsultants@gmail.com

SCHEDULE FOR STILT FLOOR ROOF SLAB REINFORCEMENT DETAIL:-

Sl. NO	Slab Name	Type of Slab	Slab Thickness	Bottom Reinforcement		Top Reinforcement	
				Shorter Span(B1)	Longer Span(B2)	Shorter Span(T1)	Longer Span(T2)
1	S1	Two way	5"	8# @ 7"c/c	8# @ 7"c/c	8# @ 7"c/c	8# @ 7"c/c
2	S2	Two way	5"	8# @ 6"c/c	8# @ 7"c/c	8# @ 6"c/c	8# @ 7"c/c
3	S3	Two way	6"	8# @ 6"c/c	8# @ 6"c/c	8# @ 6"c/c	8# @ 6"c/c
4	S4	Two way	6"	8# @ 5"c/c	8# @ 6"c/c	8# @ 5"c/c	8# @ 6"c/c



Typical Slab Section



Typical Sunken Slab Section



KeyPlan

Legend :

c/c - Centre to Centre
RB - Roof Beam

Notes:

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(Ld) In Tension - **50 Ø**
(Ld) In Compression - **40 Ø**
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- The building has been designed for (Stilt+5)
- Any discrepancy between this drawing and other drawings must be brought to the notice of consultant.
- P.C.C **4"** Thk.
- Stilt Floor Roof Slab Reinforcement detail refer dwg.no: **MC/SLM/JN-315/METROPOLE OG/STR/105**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 18.4.2025	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-315/METROPOLE OG/STR/105a

Proposed Construction of Apartment Building for Metropole OG at Salem

Title :

Stilt Floor Roof Slab Reinforcement Detail

Consultants :

MADURAA CONSULTANTS
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
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N. Manivasagam
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