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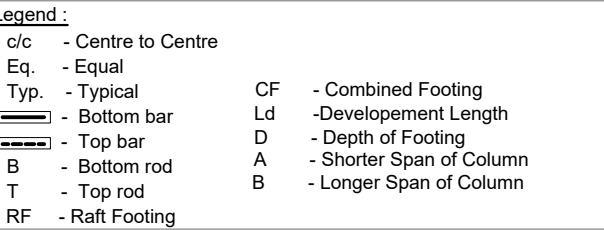
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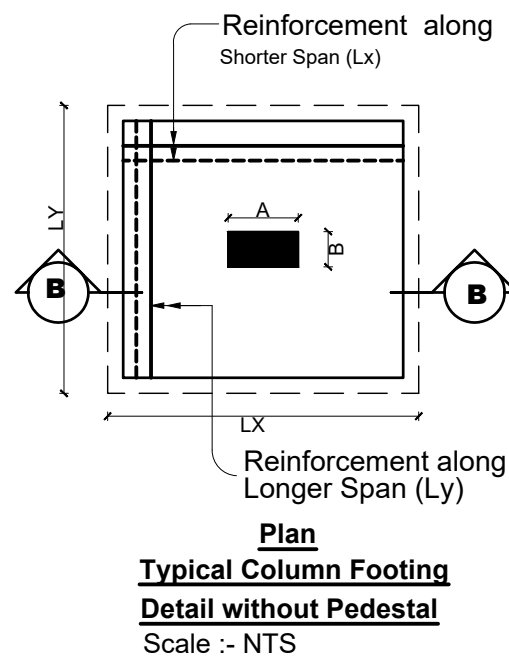
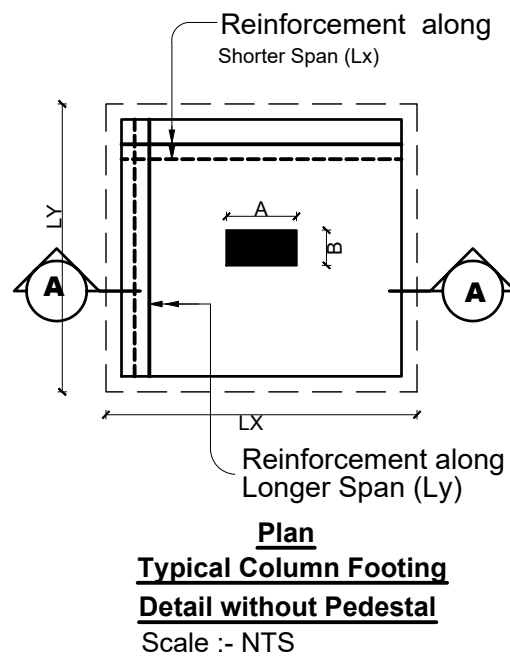
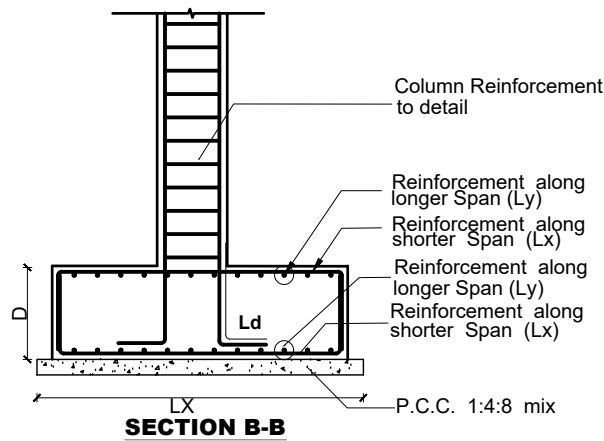
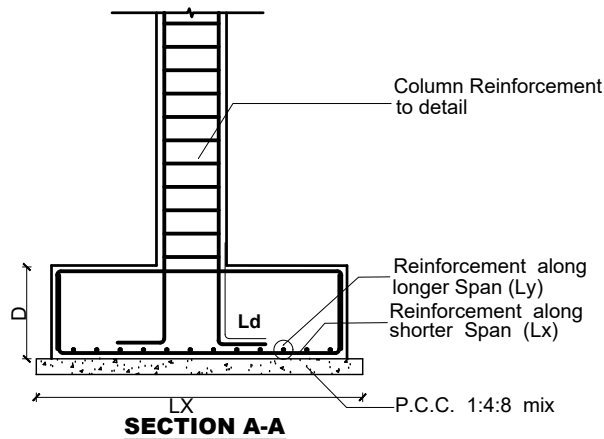
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					Along Shorter Span (Lx)	Along Longer Span (Ly)	Along Shorter Span (Lx)	Along Longer Span (Ly)
1.	2	F1	6'0" X 6'6"	18"	Y10 @ 5"c/c	Y10 @ 5"c/c	-	-
2.	1	F2	6'6" X 7'0"	18"	Y10 @ 5"c/c	Y10 @ 5"c/c	-	-
3.	3	F3	7'0" X 7'6"	20"	Y10 @ 5"c/c	Y10 @ 5"c/c	-	-
4.	4	F4	7'6" X 8'0"	22"	Y10 @ 4"c/c	Y10 @ 4"c/c	-	-
5.	2	F5	8'0" X 8'6"	24"	Y10 @ 4"c/c	Y10 @ 4"c/c	-	-
6.	6	F6	8'6" X 9'0"	26"	Y12 @ 6"c/c	Y12 @ 6"c/c	-	-
7.	8	F7	9'0" X 9'6"	26"	Y12 @ 5"c/c	Y12 @ 5"c/c	-	-
8.	4	F8	9'6" X 10'0"	28"	Y12 @ 5"c/c	Y12 @ 5"c/c	-	-
9.	1	F9	10'0" X 10'6"	28"	Y12 @ 5"c/c	Y12 @ 5"c/c	-	-
10.	1	F10	10'6" X 11'0"	30"	Y12@ 4"c/c	Y12@ 4"c/c	Y10 @ 6"c/c	Y10 @ 6"c/c
11.	6	F11	11'0" X 11'6"	30"	Y16@ 6"c/c	Y16@ 6"c/c	Y10 @ 6"c/c	Y10 @ 6"c/c
12.	1	CF1	9'0" X 13'0"	22"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101c			
13.	1	RF3	REFERPLAN	24"	For Footing Layout & Reinforcement Detail Refer Dwg No:101 To 101d			



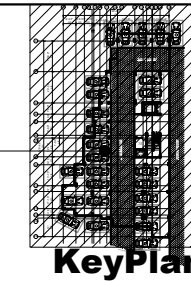
- | Working Drawing | | | | |
|--|----------------|-------------------|--------------|---------|
| Revisions | | | | |
| Rev. no. | Particulars | Date | Chkd.by | Appd.by |
| Date : 26.03.2024 | Drawn by : K.P | Designed by : S.M | Appd.by :N.M | |
| Dwg no.: MC/SLM/JN-269/SUNDARAM/STR/101a | | | | |

Title : **Footing Reinforcement Detail-1/4**

Consultants : **MADURAA CONSULTANTS**
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 Salem - 636016. Tamil Nadu
 Ph: 9677 666 102 | 9066 622 951
 E-Mail: maduraaconsultants@gmail.com



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:

- 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 **20T/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-269/SUNDARAM/STR/101**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 26.03.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-269/SUNDARAM/STR/101b

Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

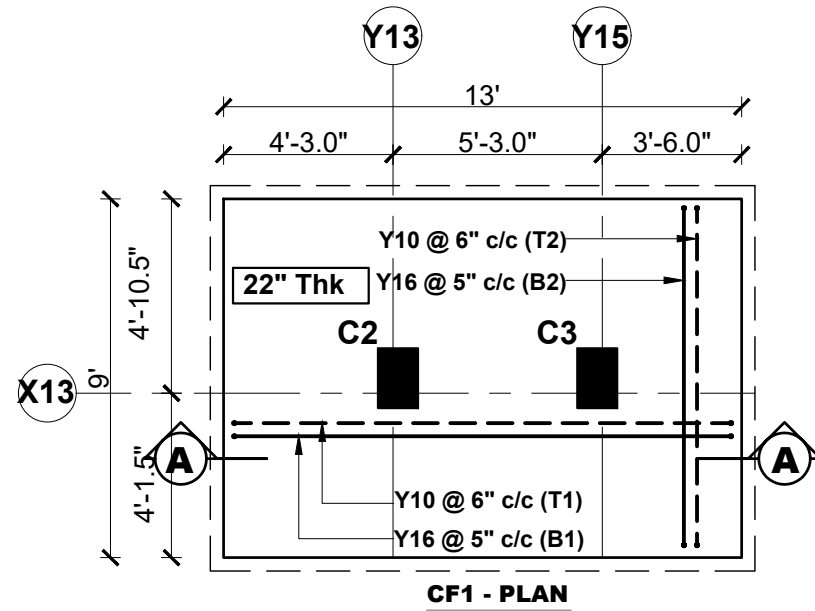
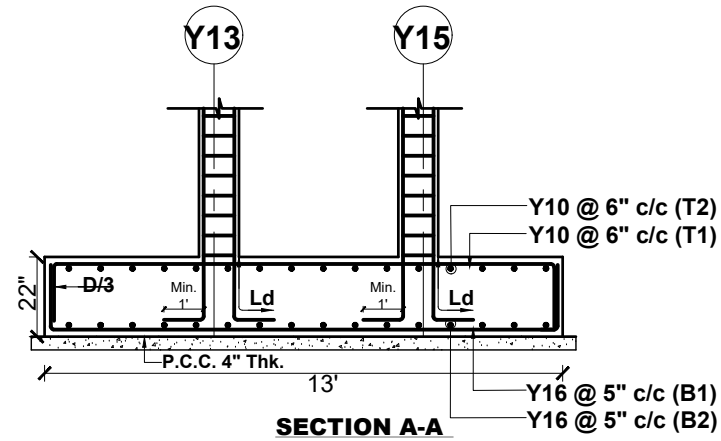
Title :

Footing Reinforcement Detail-2/4

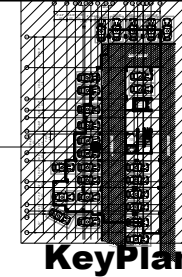
Consultants :



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Salem - 636016. Tamil Nadu
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E-Mail: maduraconsultants@gmail.com



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:

- 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 **20T/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-269/SUNDARAM/STR/101**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 26.03.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-269/SUNDARAM/STR/101c

Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title :

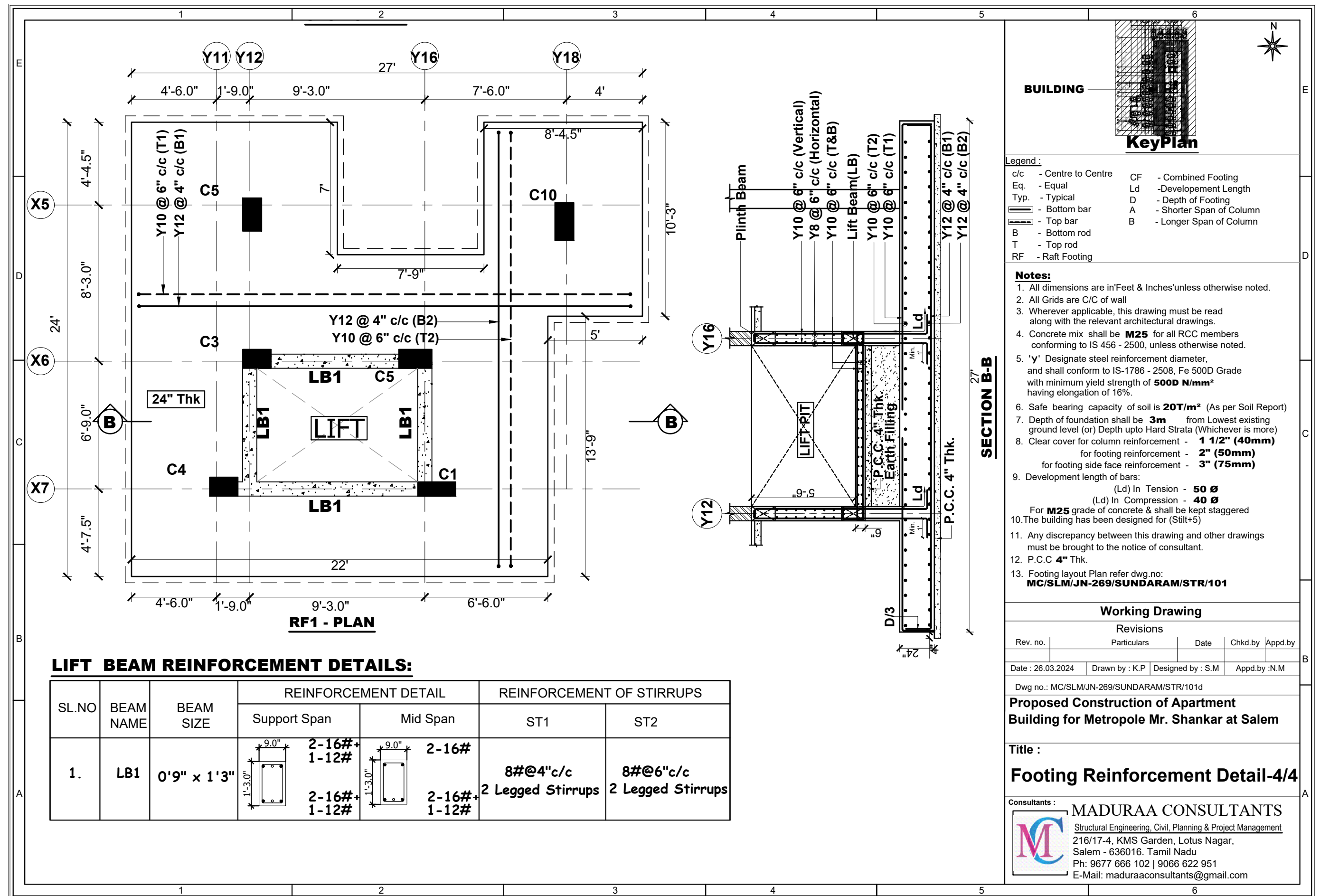
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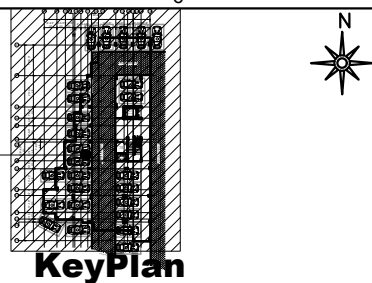
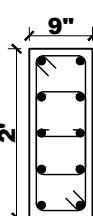
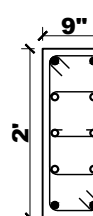
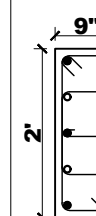
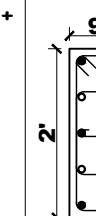
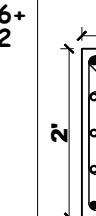
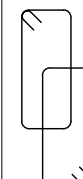
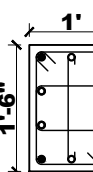
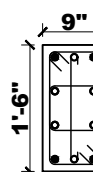
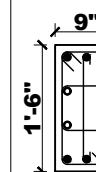
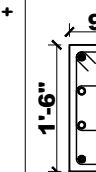
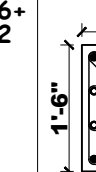
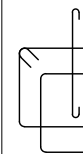
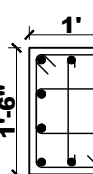
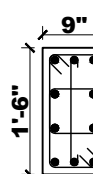
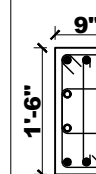
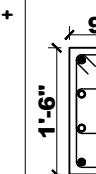
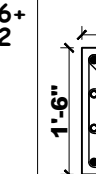
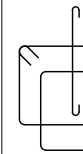
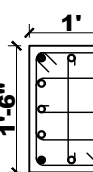
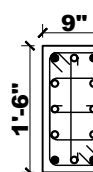
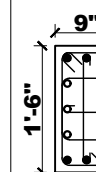
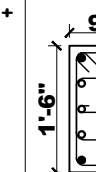
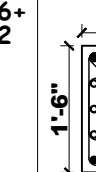
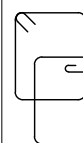
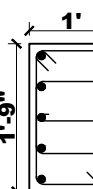
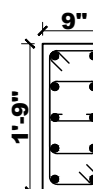
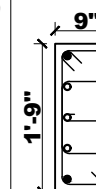
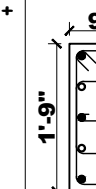
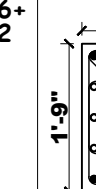
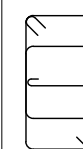
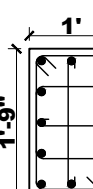
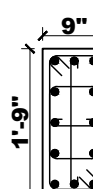
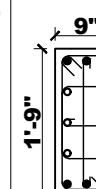
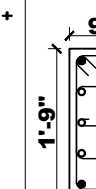
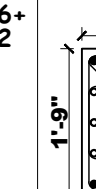
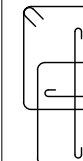
Consultants :



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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	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	1	C1	0'9" x 2'0"						Y8-4"c/c	Y8-6"c/c					
2	8	C2	1'0" x 1'6" 0'9" x 1'6"						Y8-4"c/c	Y8-6"c/c					
3	6	C3	1'0" x 1'6" 0'9" x 1'6"						Y8-4"c/c	Y8-6"c/c					
4	4	C4	1'0" x 1'6" 0'9" x 1'6"						Y8-4"c/c	Y8-6"c/c					
5	8	C5	1'0" x 1'9" 0'9" x 1'9"						Y8-4"c/c	Y8-6"c/c					
6	1	C6	1'0" x 1'9" 0'9" x 1'9"						Y8-4"c/c	Y8-6"c/c					
Working Drawing											Revisions				
Rev. no.											Particulars		Date	Chkd.by	Appd.by
Date : 26.03.2024											Drawn by : K.P		Designed by : S.M	Appd.by : N.M	
Dwg no.: MC/SLM/JN-269/SUNDARAM/STR/102a											Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem				
Title :											Column Reinforcement Detail-1/3				
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	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	
7	2	C7	1'0" x 1'9" 0'9" x 1'9"						Y8-4"c/c	Y8-6"c/c	
8	2	C8	1'0" x 2'0" 0'9" x 2'0"						Y8-4"c/c	Y8-6"c/c	
9	1	C9	1'0" x 2'0" 0'9" x 2'0"						Y8-4"c/c	Y8-6"c/c	
10	4	C10	1'0" x 2'0" 0'9" x 2'0"						Y8-4"c/c	Y8-6"c/c	
11	4	C11	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 **20T/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-269/SUNDARAM/STR/102**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 26.03.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-269/SUNDARAM/STR/102b

Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title :

Column Reinforcement Detail-2/3

Consultants :

MADURAA CONSULTANTS
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
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E-Mail: maduraaconsultants@gmail.com

COLUMN REINFORCEMENT DETAIL										Lateral Ties		Lateral Ties
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)	Special Confining / Joint Reinforcement	Transverse Reinforcement		
12	1	C12	1'0" x 2'6" 0'9" x 2'6"						Y8-4"c/c	Y8-6"c/c		
13	1	C13	1'0" x 2'6" 0'9" x 2'6"						Y8-4"c/c	Y8-6"c/c		
14	1	C14	1'0" x 2'6" 0'9" x 2'6"						Y8-4"c/c	Y8-6"c/c		
15	2	C15	1'0" x 2'3" 0'9" x 2'3"						Y8-4"c/c	Y8-6"c/c		

Key Plan

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 **20T/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-269/SUNDARAM/STR/102**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 26.03.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-269/SUNDARAM/STR/102c

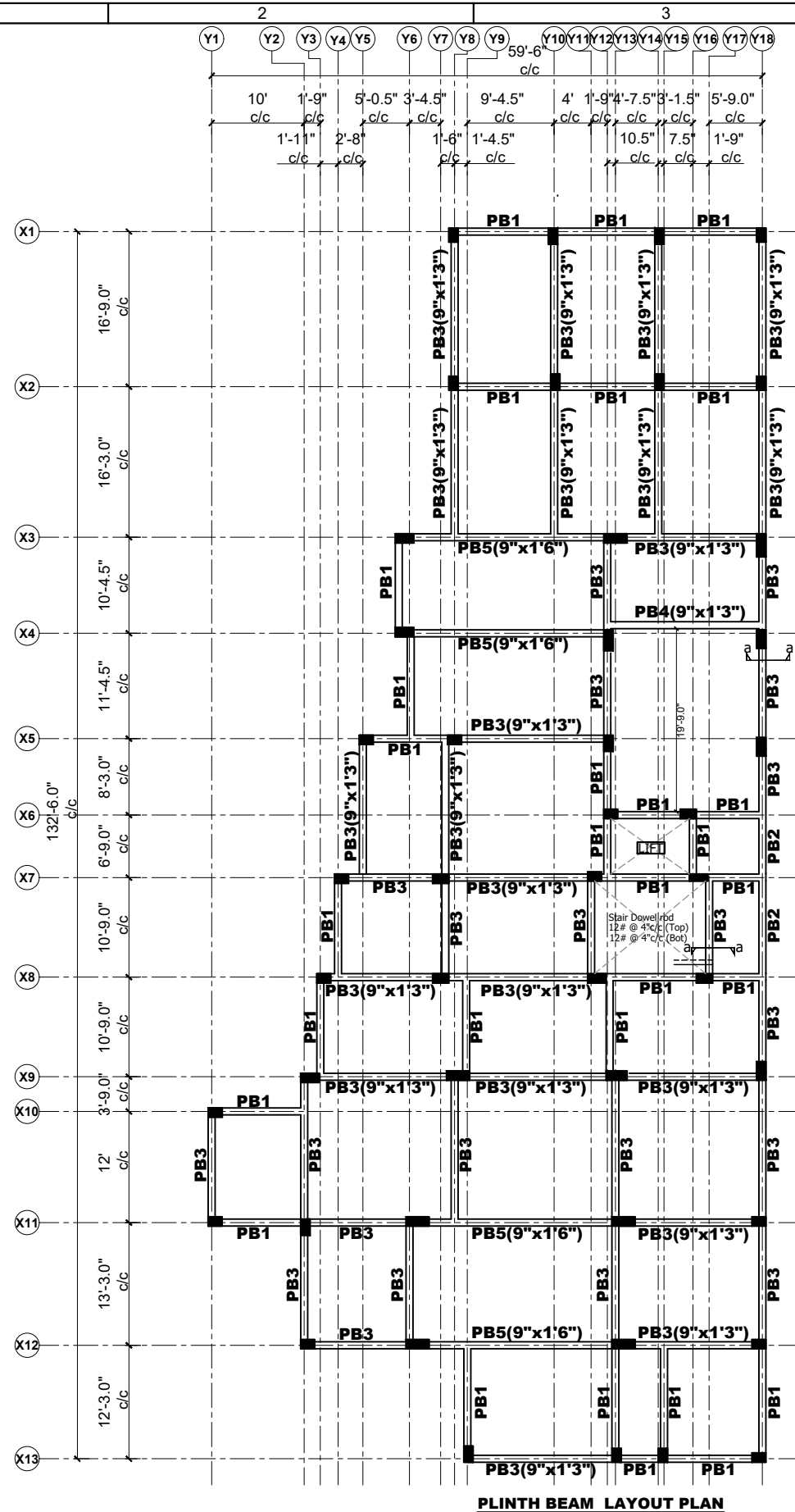
Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title :

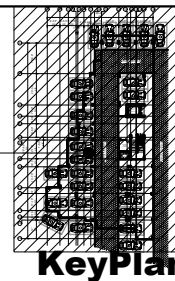
Column Reinforcement Detail-3/3

Consultants :

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E-Mail: maduraaconsultants@gmail.com



BUILDING



Legend :

c/c - Centre to Centre
PB - Plinth 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.
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 **20T/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. Plinth Beam Reinforcement detail refer dwg.no: **MC/SLM/JN-269/SUNDARAM/STR/103a**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 26.03.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-269/SUNDARAM/STR/103

Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title :

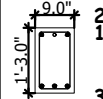
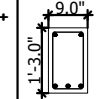
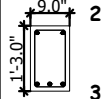
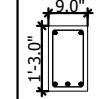
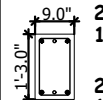
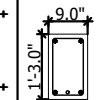
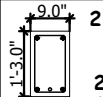
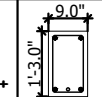
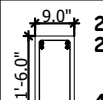
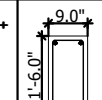
Plinth Beam Layout Plan

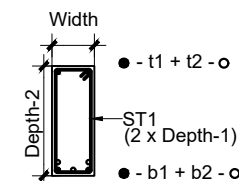
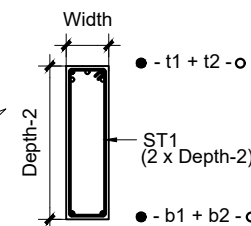
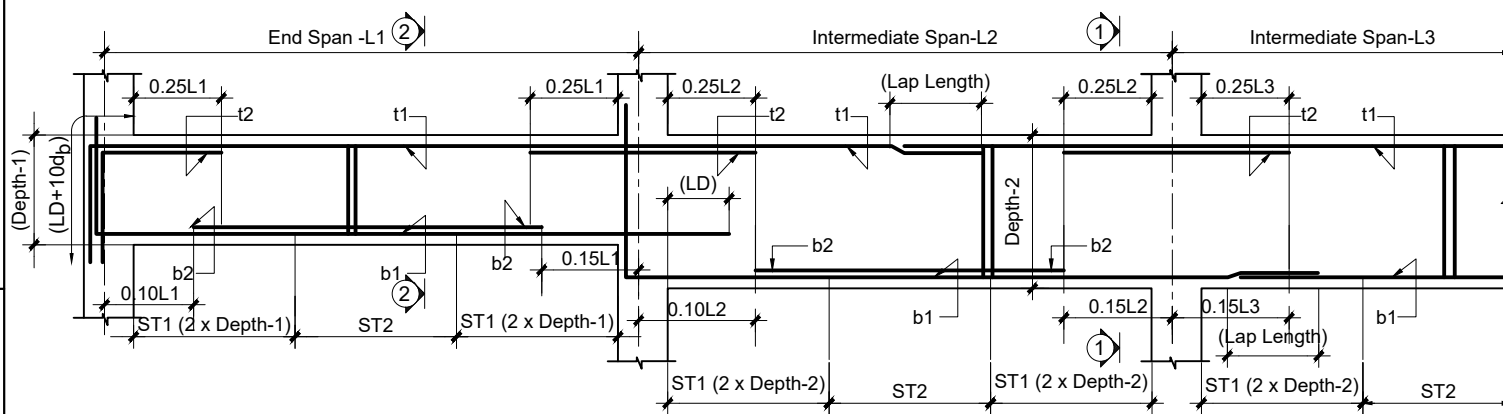
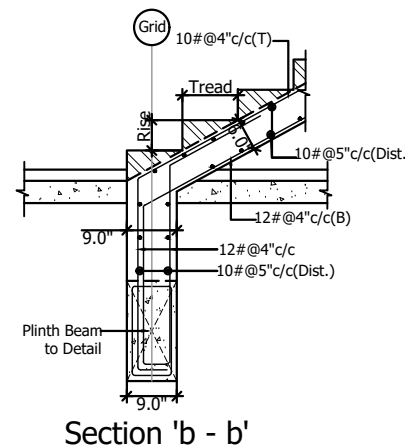
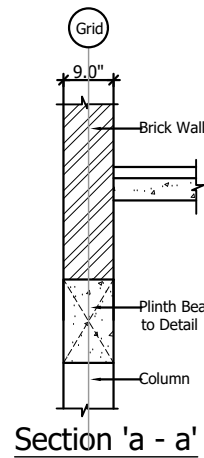
Consultants :



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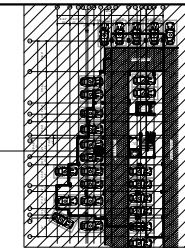
SL.NO	BEAM NAME	BEAM SIZE	REINFORCEMENT DETAIL		REINFORCEMENT OF STIRRUPS	
			Support Span	Mid Span	ST1	ST2
1.	PB1	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
2.	PB2	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
3.	PB3	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
4.	PB4	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
5.	PB5	0'9" x 1'6"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups



Section '1- 1'

Section '2- 2

Reinforcement & Stirrups Detail (Varying Depth)



KeyPlan



BUILDING

Legend :

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

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 **20T/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. Plinth Beam layout Plan refer dwg.no:
MC/SLM/JN-269/SUNDARAM/STR/103

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
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Date : 26.03.2024	Drawn by : K.P	Designed by : S.M	Appd.by :N.M	

Dwg no.: MC/SLM/JN-269/SUNDARAM/STR/103a

Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title :

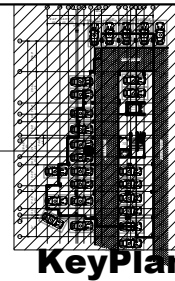
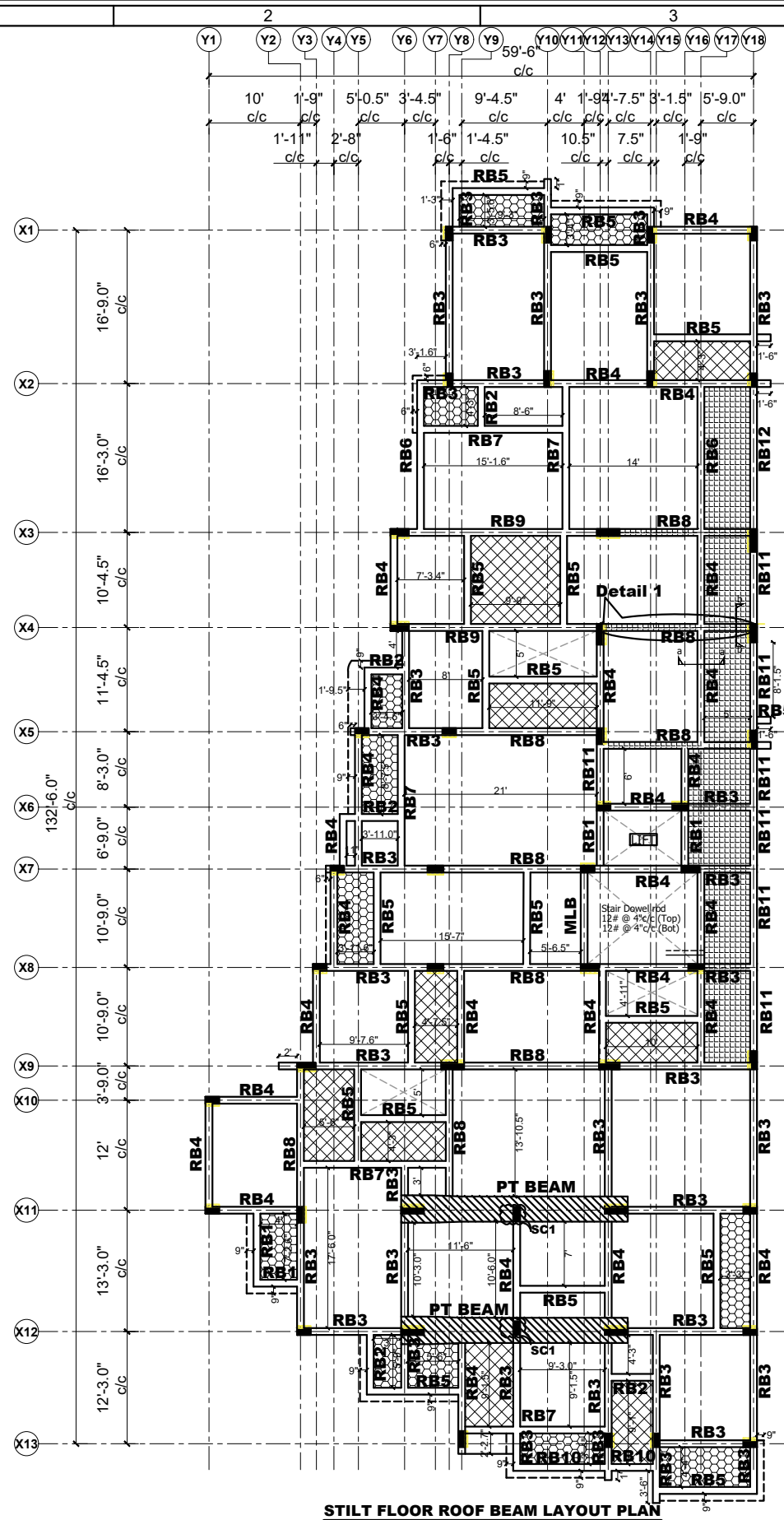
Plinth Beam Reinforcement Detail

Consultants :	
----------------------	--

— MADURAA CONSULTANTS



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BUILDING

- Legend :**
- 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"
- 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 **20T/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 Reinforcement detail refer dwg.no: **MC/SLM/JN-269/SHANKAR/STR/104a**

Working Drawing

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

Date : 16.07.2024 Drawn by : K.P Designed by : S.M Appd. by : N.M

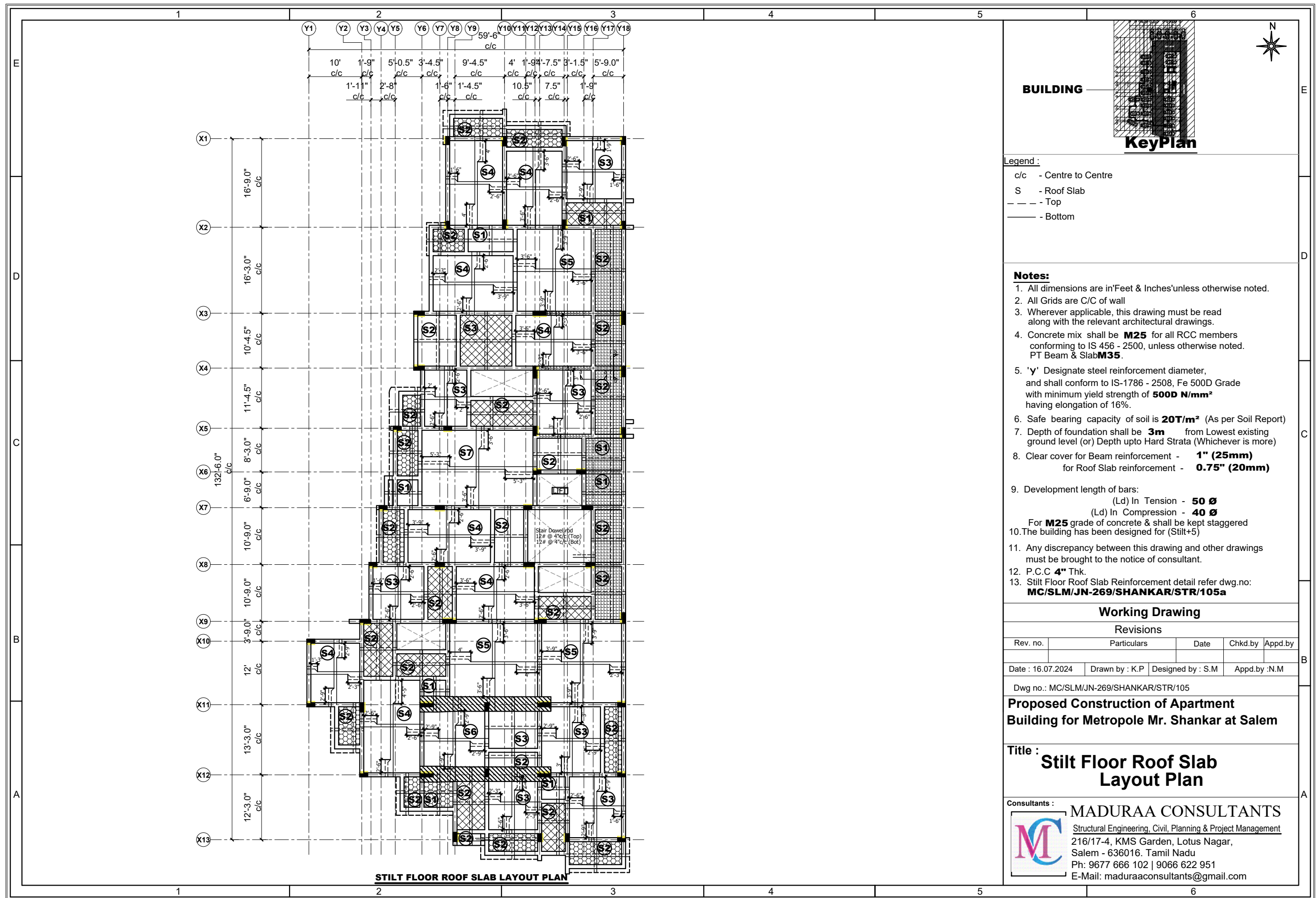
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Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title : Stilt Floor Roof Beam Layout Plan

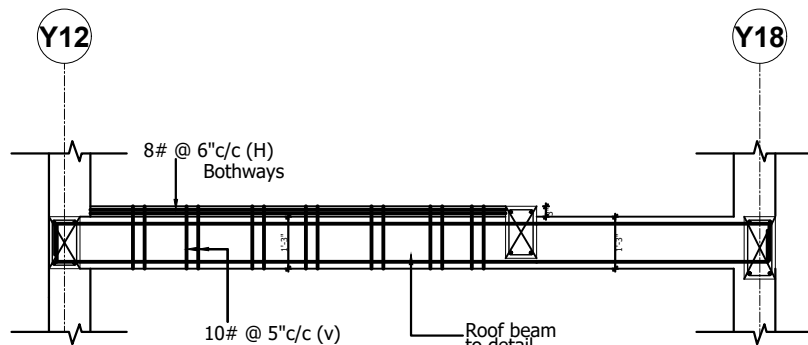
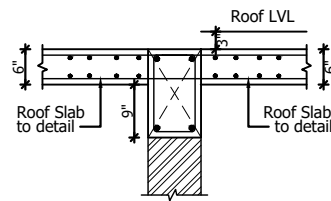
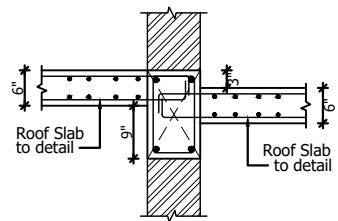
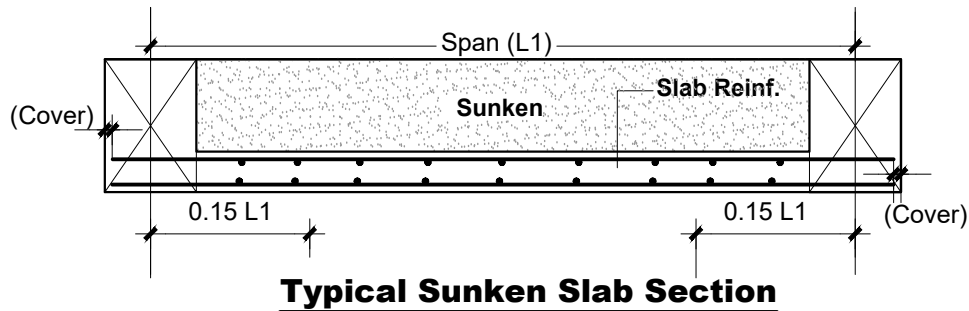
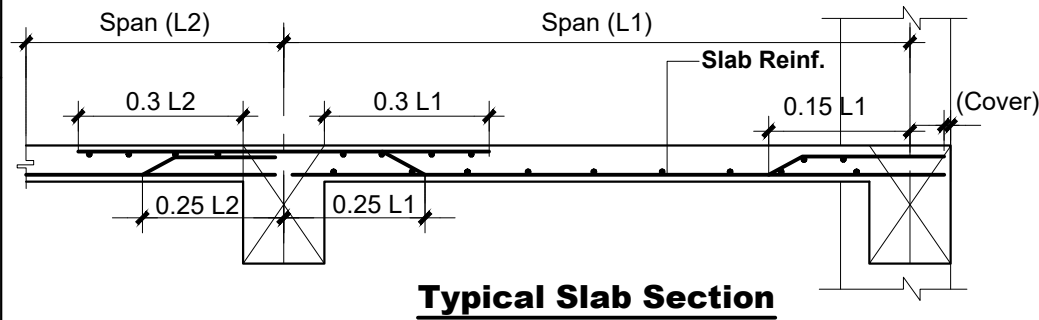
Consultants : **MADURAA CONSULTANTS**

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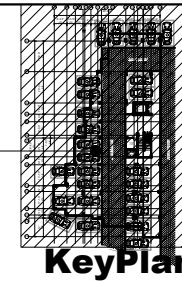


SCHEDULE FOR STILT FLOOR ROOF SLAB REINFORCEMENT DETAIL:-

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
5	S5	Two way	6"	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c
6	S6	Two way	6"	8# @ 5"c/c	8# @ 5"c/c	8# @ 5"c/c	8# @ 5"c/c
7	S7	Two way	6"	10# @ 5"c/c	10# @ 6"c/c	10# @ 5"c/c	10# @ 6"c/c



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

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 **20T/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 Slab layout Plan refer dwg.no: **MC/SLM/JN-269/SHANKAR/STR/105**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 16.07.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-269/SHANKAR/STR/105a

Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title :

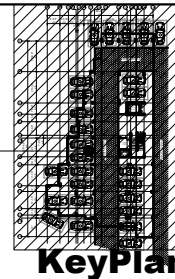
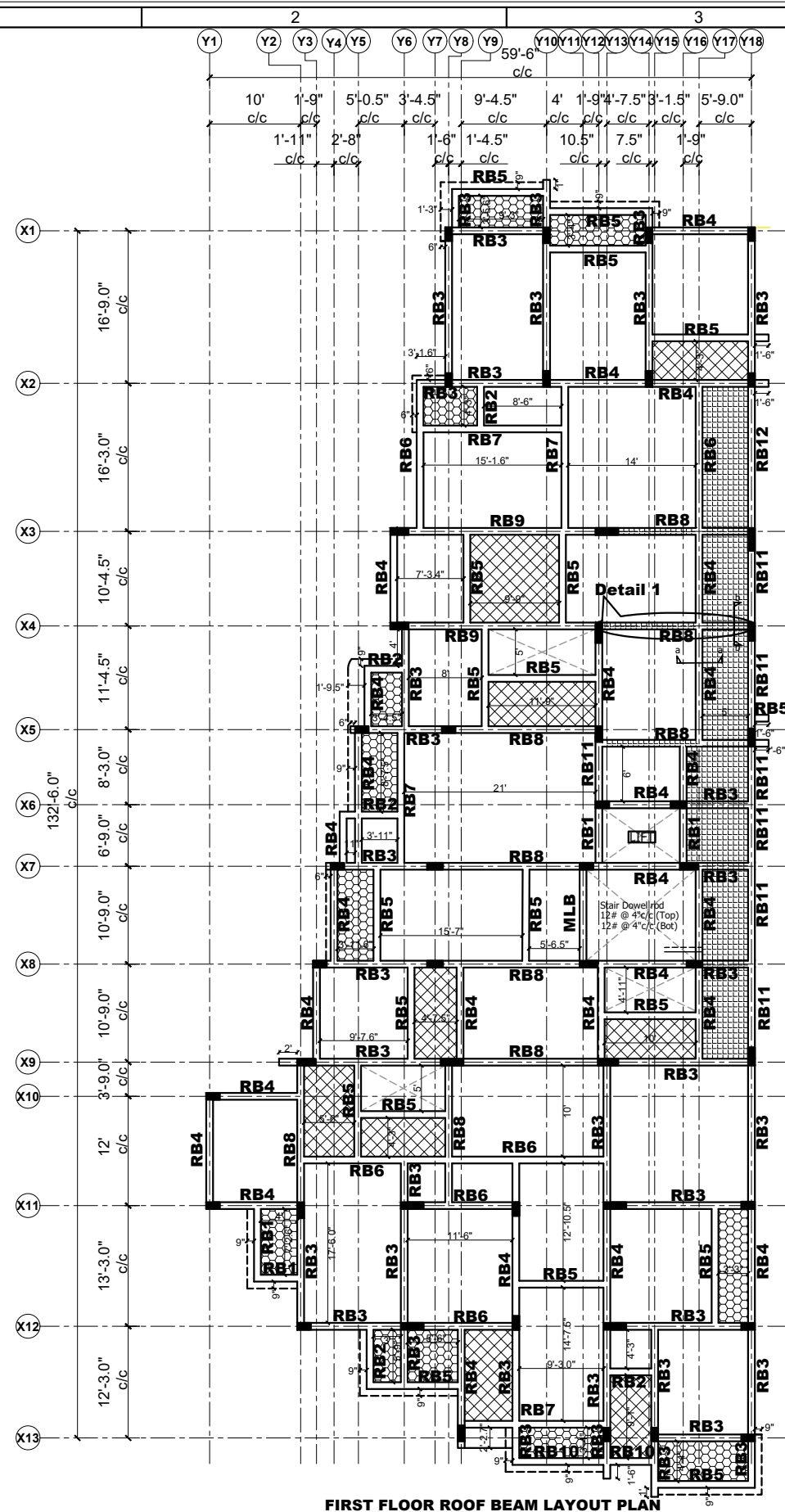
Stilt Floor Roof Slab Reinforcement Detail

Consultants :



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E-Mail: maduraaconsultants@gmail.com



BUILDING

Legend :

Legend:
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"

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 **20T/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. First Floor Roof Beam Reinforcement detail refer dwg.no: **MC/SLM/JN-269/SHANKAR/STR/106a**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
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Date : 16.07.2024	Drawn by : K.P	Designed by : S.M	Appd.by :N.M
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Dwg no.: MC/SLM/JN-269/SHANKAR/STR/106

Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title :

First Floor Roof Beam Layout Plan

Consultants :	
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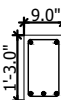
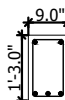
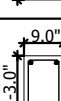
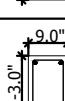
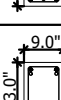
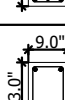
216/17-4 KMS Garden Lotus Nagar

Salem - 636016, Tamil Nadu

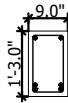
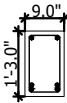
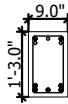
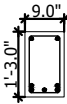
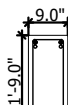
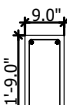
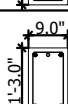
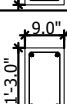
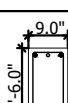
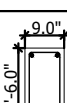
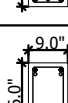
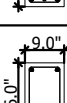
Ph: 9677 666 102 | 9066 622 951

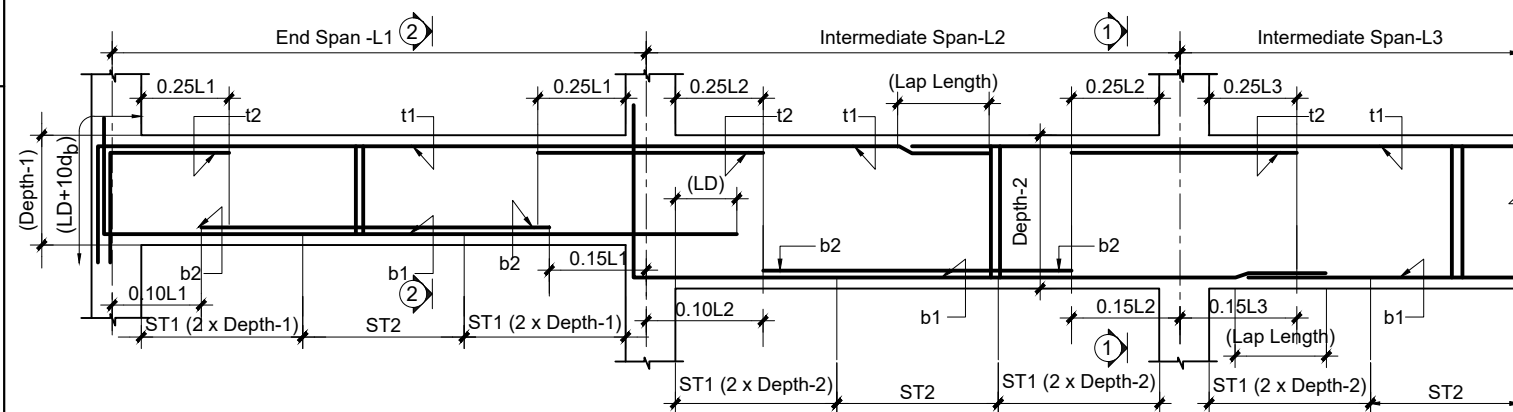
— E-Mail: maduraaconsultants@gmail.com

FIRST FLOOR ROOF BEAM REINFORCEMENT DETAILS:

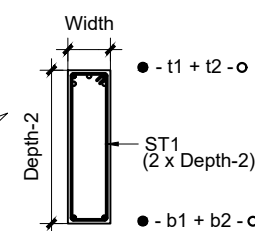
SL.NO	BEAM NAME	BEAM SIZE	REINFORCEMENT DETAIL		REINFORCEMENT OF STIRRUPS	
			Support Span	Mid Span	ST1	ST2
1.	RB1	0'9" x 1'3"	 2-12# + 1-12# 3-12#	 2-12# 3-12#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
2.	RB2	0'9" x 1'3"	 2-12# 3-12#	 2-12# 3-12#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
3.	RB3/ MLB	0'9" x 1'3"	 2-16# + 2-16# 3-16#	 2-16# 3-16#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
4.	RB4	0'9" x 1'3"	 2-16# + 1-12# 2-16# + 1-12#	 2-16# 2-16# + 1-12#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
5.	RB5	0'9" x 1'3"	 2-12# 2-16# + 1-12#	 2-12# 2-16# + 1-12#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
6.	RB6	0'9" x 1'3"	 2-16# + 2-16# 4-16#	 2-16# 4-16#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups

FIRST FLOOR ROOF BEAM REINFORCEMENT DETAILS:

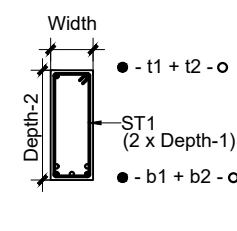
SL.NO	BEAM NAME	BEAM SIZE	REINFORCEMENT DETAIL		REINFORCEMENT OF STIRRUPS	
			Support Span	Mid Span	ST1	ST2
7.	RB7	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
8.	RB8	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
9.	RB9	0'9" x 1'9"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
10.	RB10	0'9" x 1'3"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
11.	RB11	0'9" x 1'6"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
12.	RB12	0'9" x 1'6"			8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups



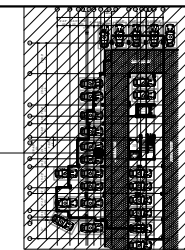
Reinforcement & Stirrups Detail (Varying Depth)



Section '1- 1'



Section '2- 2'



KeyPlan



BUILDING

Legend :

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

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 **20T/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. First Floor Roof Beam layout Plan refer dwg.no:
MC/SLM/JN-269/SHANKAR/STR/106

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 16.07.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-269/SHANKAR/STR/106a

Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title :

First Floor Roof Beam Reinforcement Detail

Consultants :	
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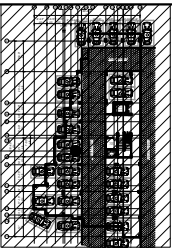


— MADURAA CONSULTANTS

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Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraaconsultants@gmail.com

SCHEDULE FOR FIRST 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
5	S5	Two way	6"	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c
6	S6	Two way	6"	8# @ 5"c/c	8# @ 5"c/c	8# @ 5"c/c	8# @ 5"c/c
7	S7	Two way	6"	10# @ 5"c/c	10# @ 6"c/c	10# @ 5"c/c	10# @ 6"c/c



Key Plan

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.
- '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 **20T/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.
- First Floor Roof Slab layout Plan refer dwg.no: **MC/SLM/JN-269/SHANKAR/STR/107**

Working Drawing

Revisions

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

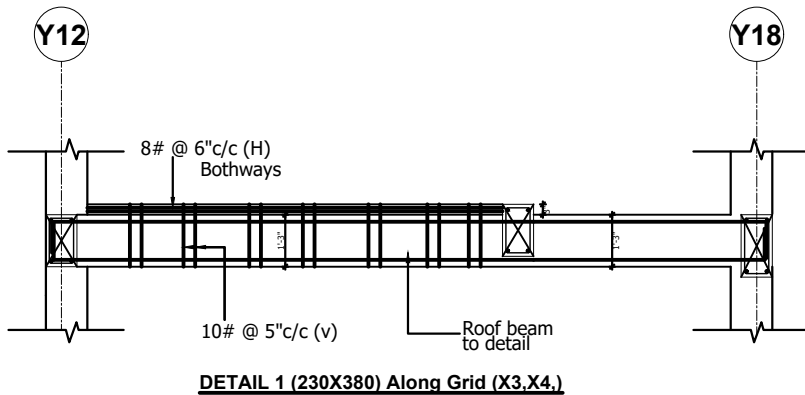
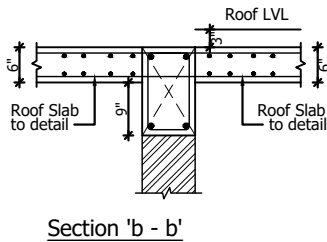
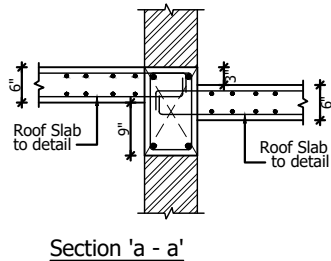
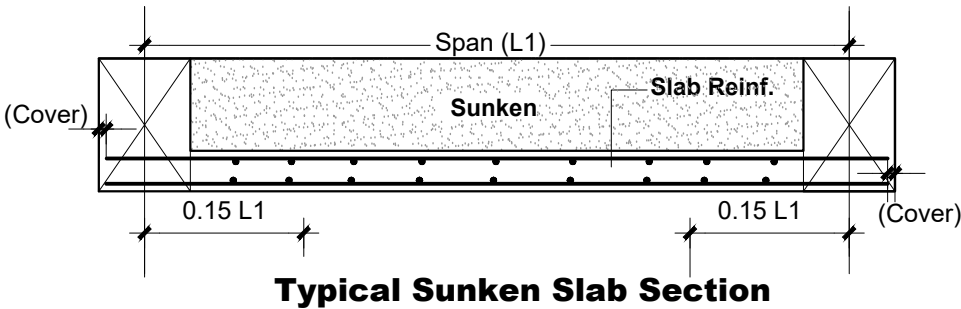
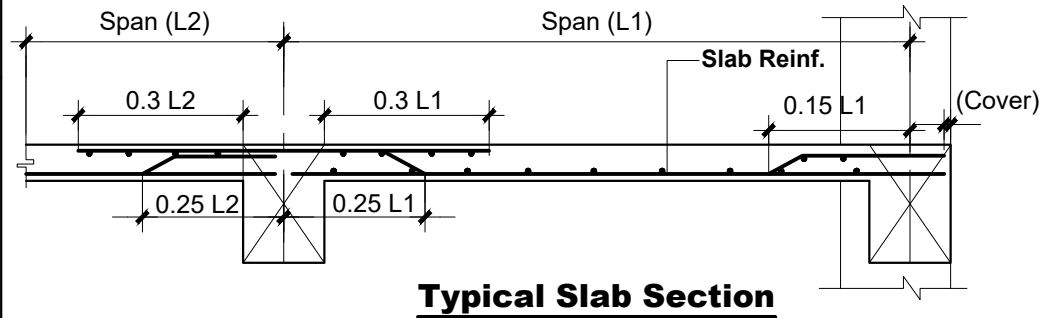
Date : 16.07.2024 Drawn by : K.P Designed by : S.M Appd.by : N.M

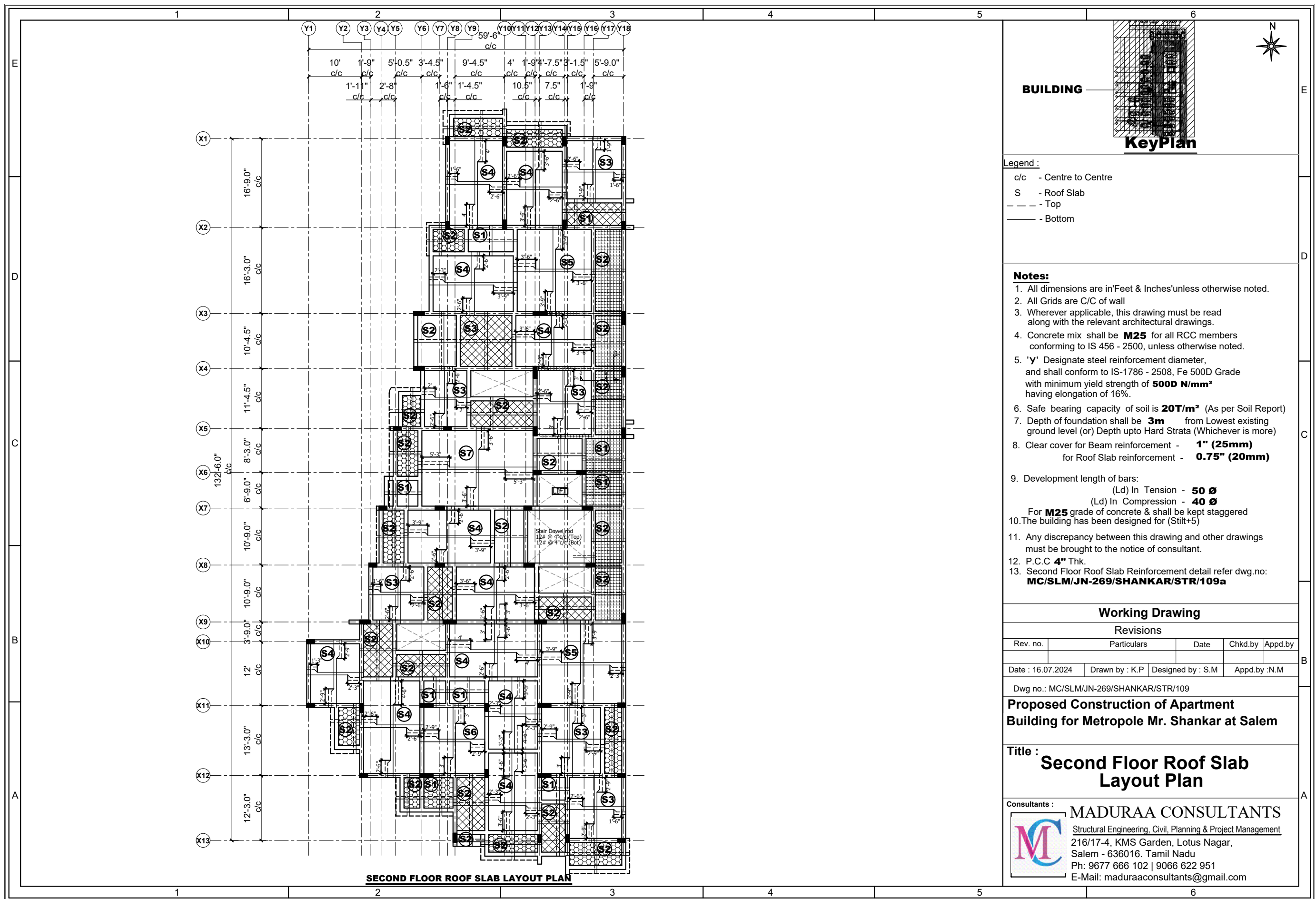
Dwg no.: MC/SLM/JN-269/SHANKAR/STR/107a

Proposed Construction of Apartment
Building for Metropole Mr. Shankar at Salem

Title :
**First Floor Roof Slab
Reinforcement Detail**

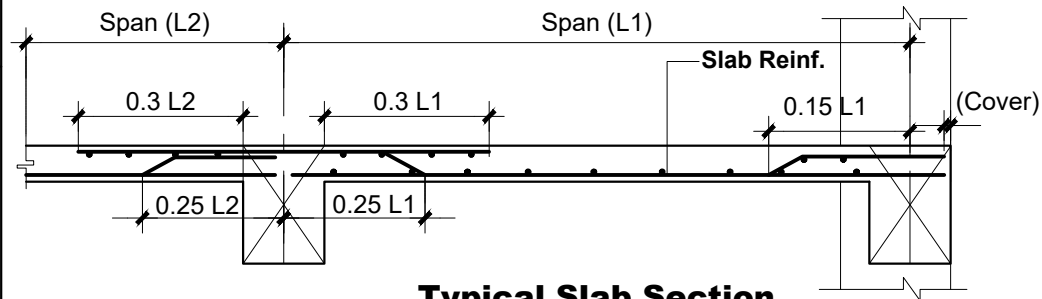
Consultants :
MADURAA CONSULTANTS
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216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraaconsultants@gmail.com



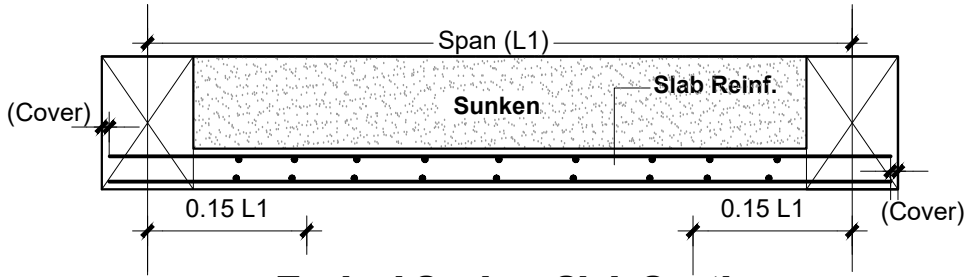


SCHEDULE FOR SECOND FLOOR ROOF SLAB REINFORCEMENT DETAIL:-

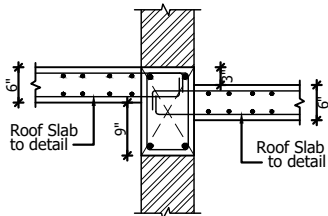
Sl. NO	Slab Name	Type of Slab	Slab Thickness	Bottom Reinforcement		Top Reinforcement	
				Shorter Span(B1)	Longer Span(B2)	Shorter Span(T1)	Longer Span(T2)
1	S1	Two way	5"	8# @ 7"c/c	8# @ 7"c/c	8# @ 7"c/c	8# @ 7"c/c
2	S2	Two way	5"	8# @ 6"c/c	8# @ 7"c/c	8# @ 6"c/c	8# @ 7"c/c
3	S3	Two way	6"	8# @ 6"c/c	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
5	S5	Two way	6"	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c
6	S6	Two way	6"	8# @ 5"c/c	8# @ 5"c/c	8# @ 5"c/c	8# @ 5"c/c
7	S7	Two way	6"	10# @ 5"c/c	10# @ 6"c/c	10# @ 5"c/c	10# @ 6"c/c



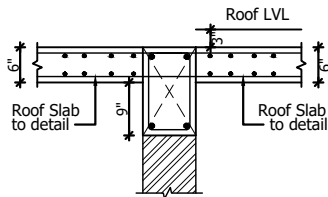
Typical Slab Section



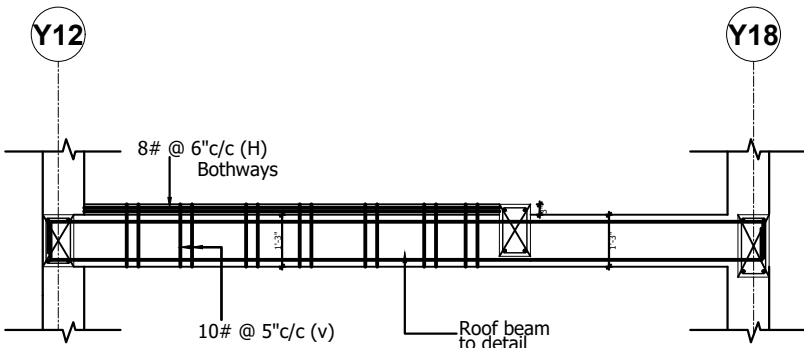
Typical Sunken Slab Section



Section 'a - a'

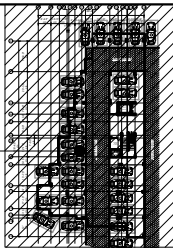


Section 'b - b'



DETAIL 1 (230X380) Along Grid (X3,X4.)

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

- 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 **20T/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.
 - Second Floor Roof Slab layout Plan refer dwg.no: **MC/SLM/JN-269/SHANKAR/STR/109**

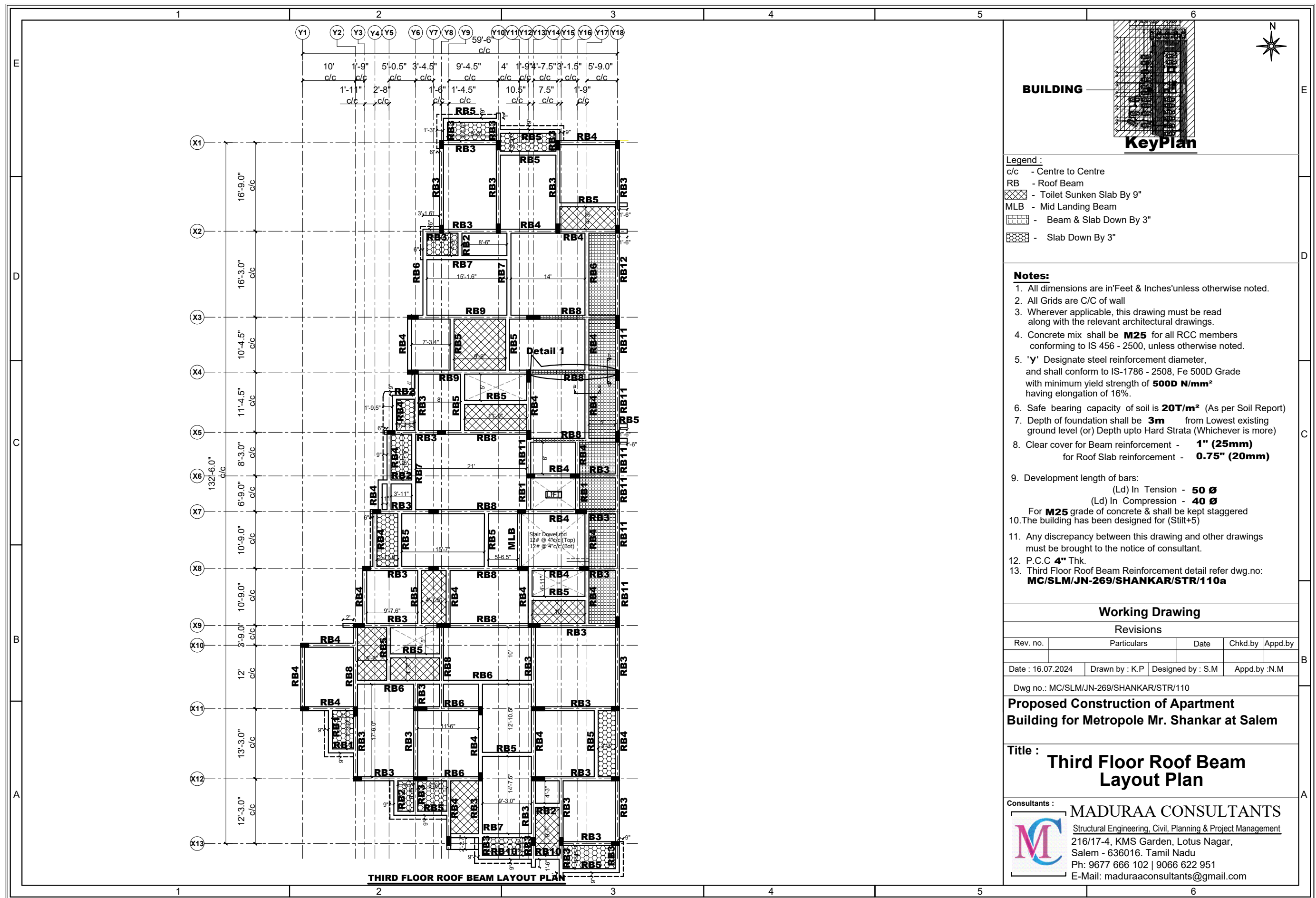
Working Drawing

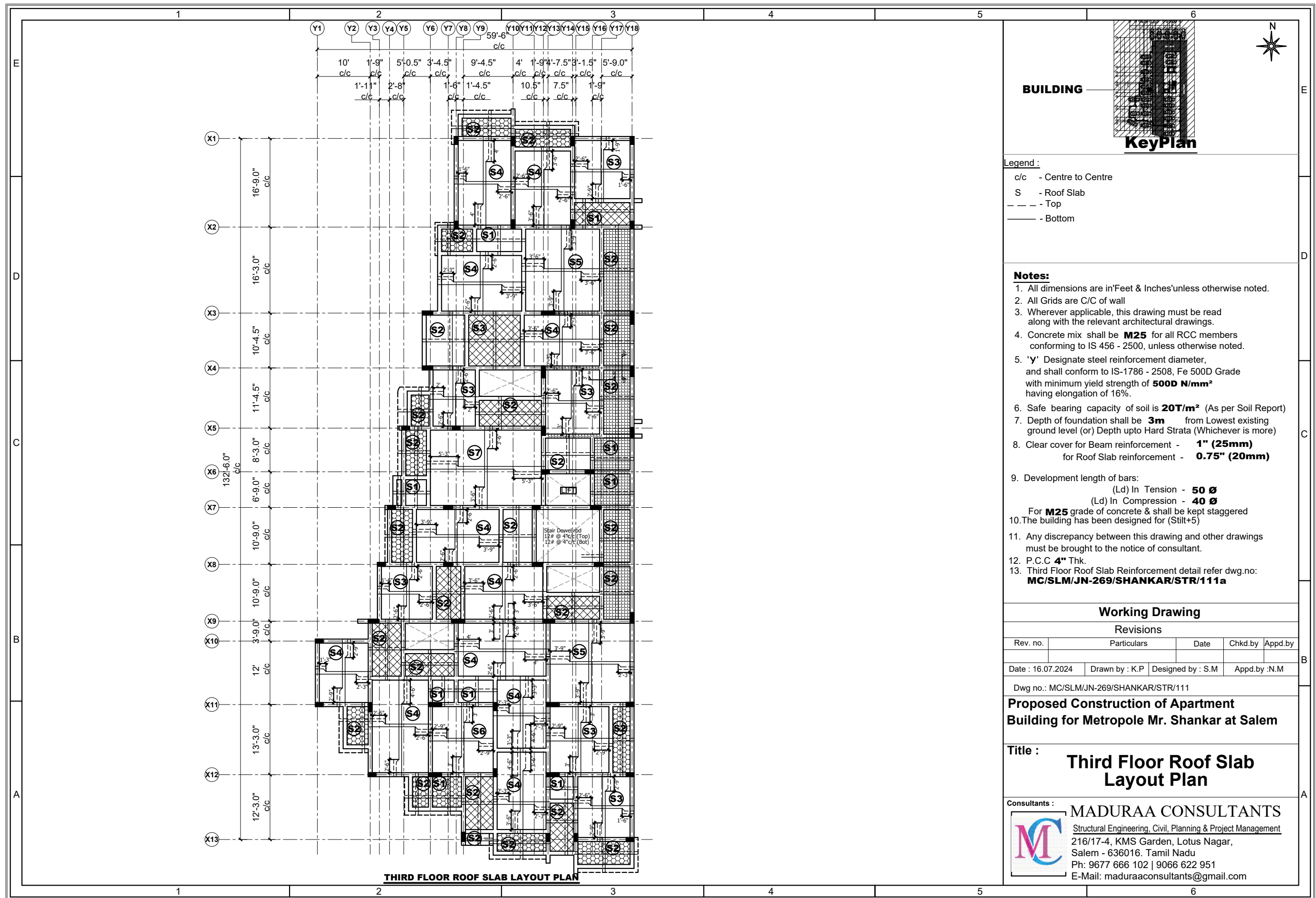
Revisions				
Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 16.07.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-269/SHANKAR/STR/109a
Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title : **Second Floor Roof Slab Reinforcement Detail**

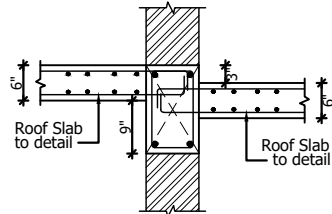
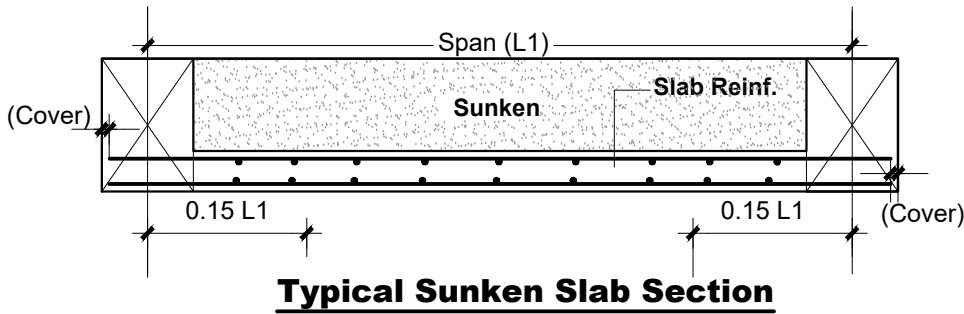
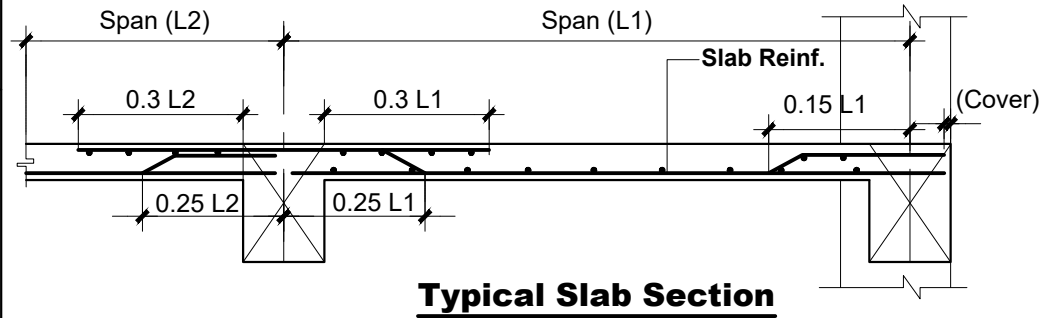
Consultants : **MADURAA CONSULTANTS**
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraaconsultants@gmail.com



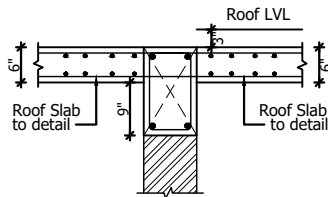


SCHEDULE FOR THIRD FLOOR ROOF SLAB REINFORCEMENT DETAIL:-

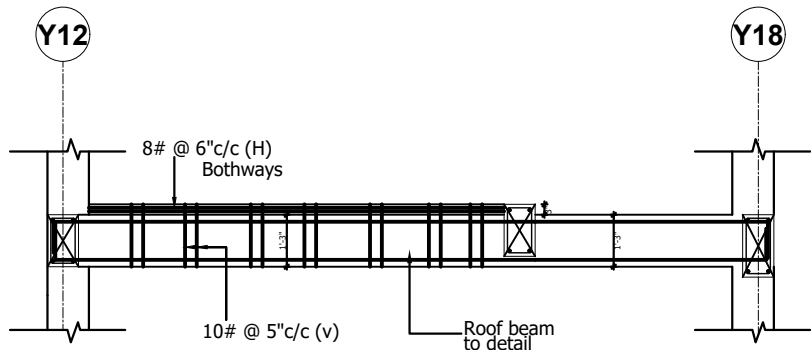
Sl. NO	Slab Name	Type of Slab	Slab Thickness	Bottom Reinforcement		Top Reinforcement	
				Shorter Span(B1)	Longer Span(B2)	Shorter Span(T1)	Longer Span(T2)
1	S1	Two way	5"	8# @ 7"c/c	8# @ 7"c/c	8# @ 7"c/c	8# @ 7"c/c
2	S2	Two way	5"	8# @ 6"c/c	8# @ 7"c/c	8# @ 6"c/c	8# @ 7"c/c
3	S3	Two way	6"	8# @ 6"c/c	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
5	S5	Two way	6"	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c
6	S6	Two way	6"	8# @ 5"c/c	8# @ 5"c/c	8# @ 5"c/c	8# @ 5"c/c
7	S7	Two way	6"	10# @ 5"c/c	10# @ 6"c/c	10# @ 5"c/c	10# @ 6"c/c



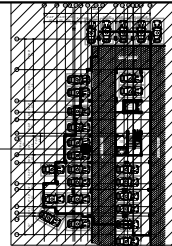
Section 'a - a'



Section 'b - b'



DETAIL 1 (230X380) Along Grid (X3,X4.)



KeyPlan

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

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 **20T/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.
- Third Floor Roof Slab layout Plan refer dwg.no: **MC/SLM/JN-269/SHANKAR/STR/111**

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 16.07.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-269/SHANKAR/STR/111

Proposed Construction of Apartment
Building for Metropole Mr. Shankar at Salem

Title :
**Third Floor Roof Slab
Reinforcement Detail**

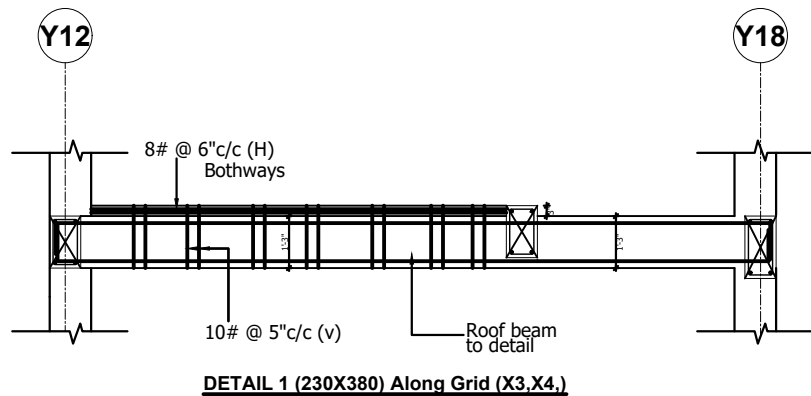
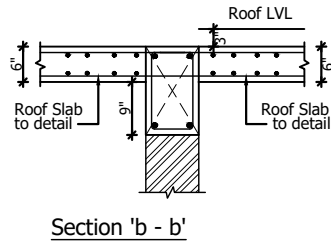
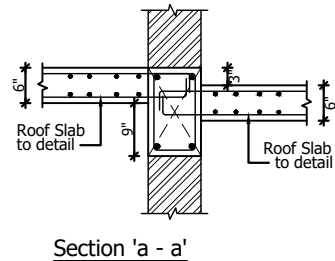
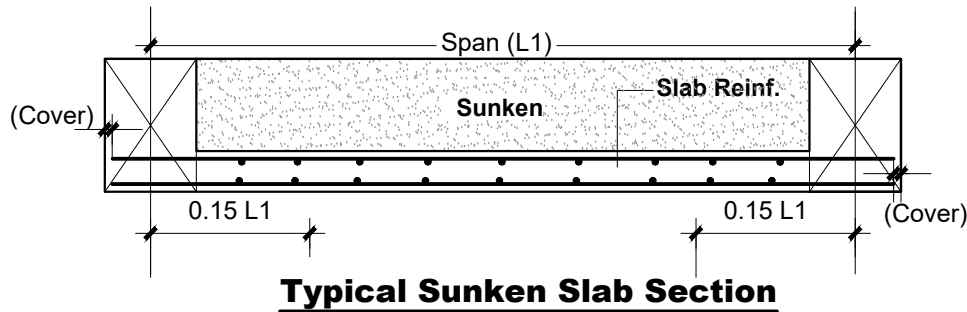
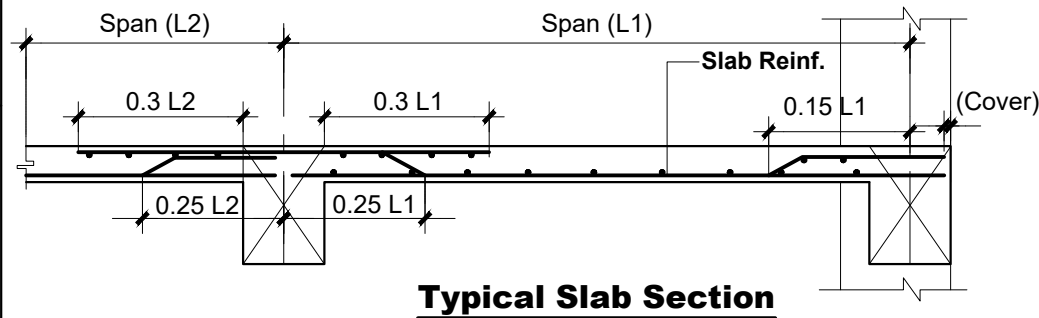
Consultants :
MADURAA CONSULTANTS
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
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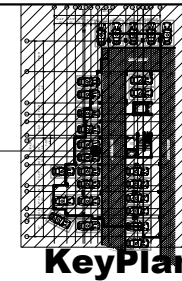
Structural Engineering, Civil, Planning & Project Management
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Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
E-Mail: maduraaconsultants@gmail.com

SCHEDULE FOR FOURTH 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
5	S5	Two way	6"	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c
6	S6	Two way	6"	8# @ 5"c/c	8# @ 5"c/c	8# @ 5"c/c	8# @ 5"c/c
7	S7	Two way	6"	10# @ 5"c/c	10# @ 6"c/c	10# @ 5"c/c	10# @ 6"c/c



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

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 **20T/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.
- Fourth Floor Roof Slab layout Plan refer dwg.no: **MC/SLM/JN-269/SHANKAR/STR/113**

Working Drawing

Revisions

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

Date : 16.07.2024 Drawn by : K.P Designed by : S.M Appd.by : N.M

Dwg no.: MC/SLM/JN-269/SHANKAR/STR/113

Proposed Construction of Apartment
Building for Metropole Mr. Shankar at Salem

Title :

Fourth Floor Roof Slab
Reinforcement Detail

Consultants :

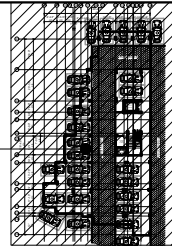


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E-Mail: maduraaconsultants@gmail.com

TERRACE 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	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 1'9"			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



Key Plan

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.
- '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 **20T/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.
- Terrace Floor Roof Beam layout Plan refer dwg.no: **MC/SLM/JN-269/SHANKAR/STR/114**

Working Drawing

Revisions

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

Dwg no.: MC/SLM/JN-269/SHANKAR/STR/114a

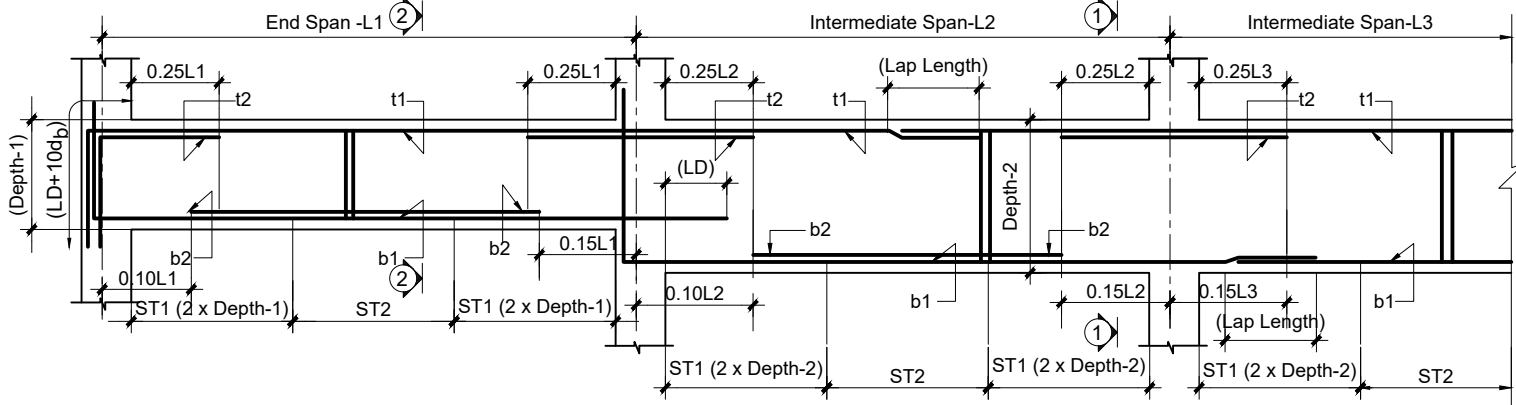
Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title :

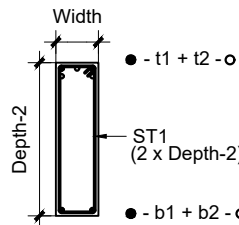
Terrace Floor Roof Beam Reinforcement Detail

Consultants :

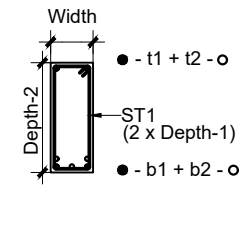
MADURAA CONSULTANTS
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Salem - 636016. Tamil Nadu
Ph: 9677 666 102 | 9066 622 951
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Reinforcement & Stirrups Detail (Varying Depth)



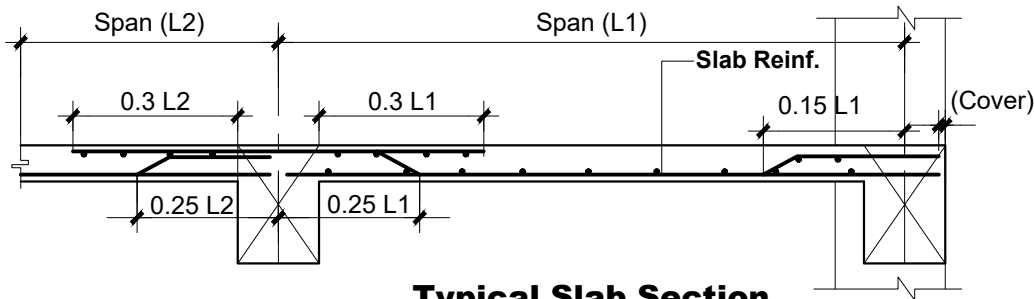
Section '1- 1'



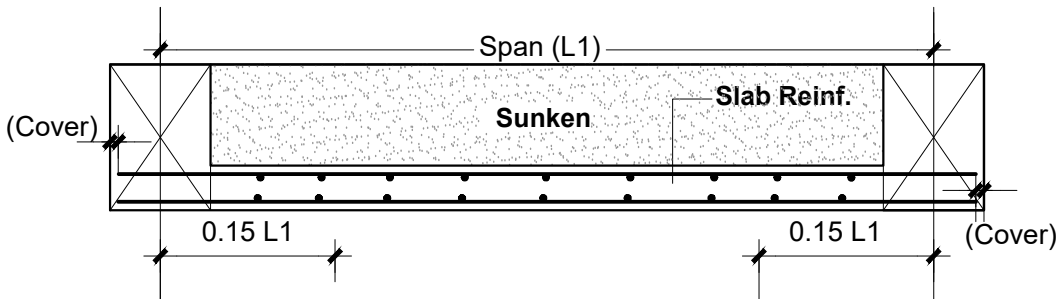
Section '2- 2'

SCHEDULE FOR TERRACE 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# @ 5"c/c	8# @ 5"c/c	8# @ 5"c/c	8# @ 5"c/c
4	S4	Two way	6"	8# @ 5"c/c	8# @ 6"c/c	8# @ 5"c/c	8# @ 6"c/c
5	S5	Two way	6"	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c
6	S6	Two way	6"	10# @ 5"c/c	10# @ 6"c/c	10# @ 5"c/c	10# @ 6"c/c

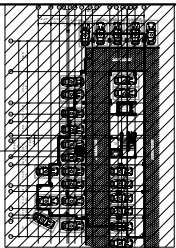


Typical Slab Section



Typical Sunken Slab Section

BUILDING



KeyPlan

Legend :	ST1 - Stirrups at Support
c/c - Centre to Centre	(2x Beam Depth)
Thk. - Thickness	ST2 - Stirrups at Beam Mid Span
RB - Roof 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 **20T/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.
- Terrace Floor Roof Slab layout Plan refer dwg.no: **MC/SLM/JN-269/SHANKAR/STR/115**

Working Drawing

Revisions

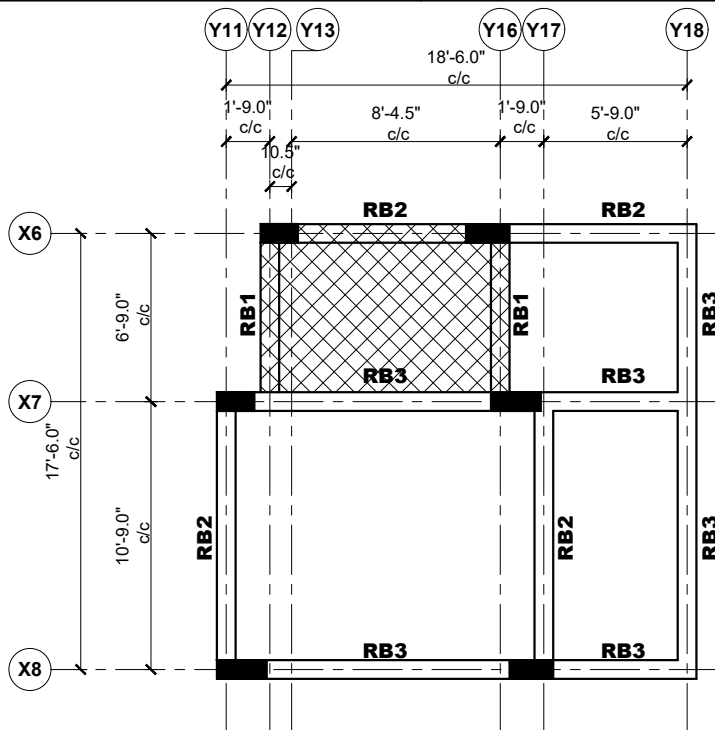
Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 9.10.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-269/SHANKAR/STR/115

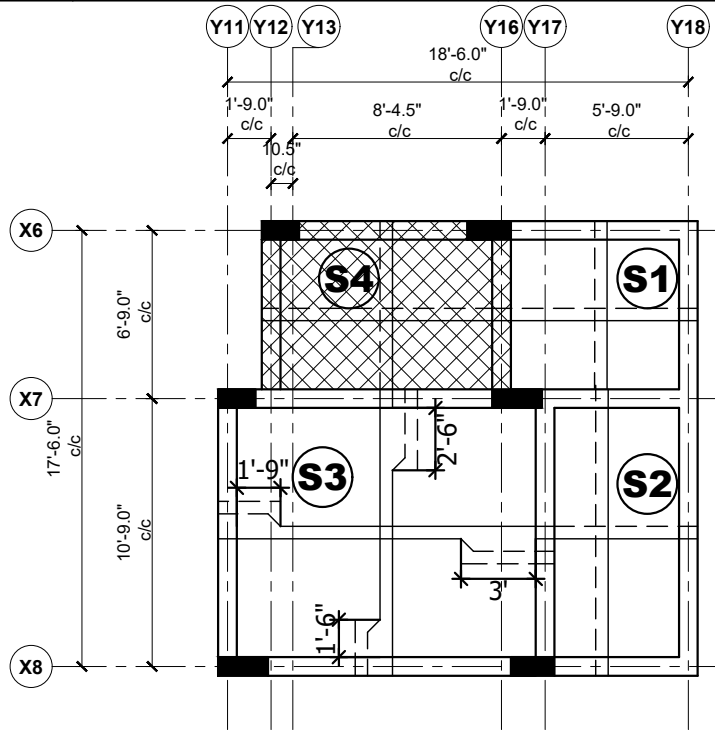
Proposed Construction of Apartment
Building for Metropole Mr. Shankar at Salem

Title :
**Terrace Floor Roof Slab
Reinforcement Detail**

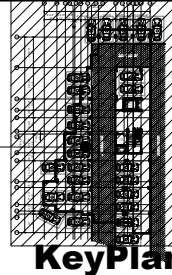
Consultants :
MADURAA CONSULTANTS
Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
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HEAD ROOM & MACHINE ROOM BEAM LAYOUT PLAN



HEAD ROOM & MACHINE ROOM BEAM LAYOUT PLAN



BUILDING

- Legend :**
- | | | | |
|------|-------------------------|-------|---------------------------------------|
| c/c | - Centre to Centre | ST1 | - Stirrups at Support (2x Beam Depth) |
| Thk. | - Thickness | ST2 | - Stirrups at Beam Mid Span |
| RB | - Roof Beam | S | - Roof Slab |
| T1 | - Top Through Rod | - - - | - Top |
| T2 | - Top Extra Rod | — | - Bottom |
| B1 | - Bottom Through Rod | | |
| B2 | - Bottom Extra Rod | | |
| ▨ | - Lift Machine Room LVL | | |

- 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 **20T/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.**

HEAD ROOM & MACHINE ROOM 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"	 2-12# + 1-12#	 2-12#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
2.	RB2	0'9" x 1'3"	 2-16# + 1-12#	 2-16#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups
3.	RB3	0'9" x 1'3"	 2-16# + 1-12#	 2-16#	8#@4"c/c 2 Legged Stirrups	8#@6"c/c 2 Legged Stirrups

SCHEDULE FOR HEAD ROOM & MACHINE ROOM 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	6"	8# @ 7"c/c	8# @ 7"c/c	8# @ 7"c/c	8# @ 7"c/c
2	S2	Two way	6"	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"	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c	10# @ 6"c/c

Working Drawing

Revisions

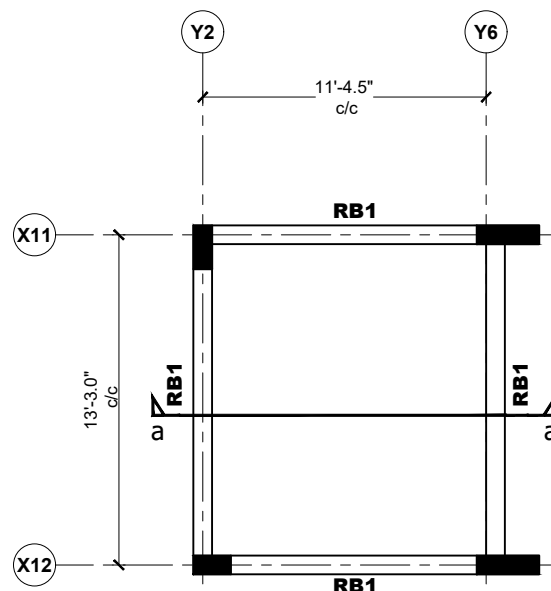
Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 23.11.2024	Drawn by : K.P	Designed by : S.M	Appd.by : N.M	

Dwg no.: MC/SLM/JN-269/SHANKAR/STR/116

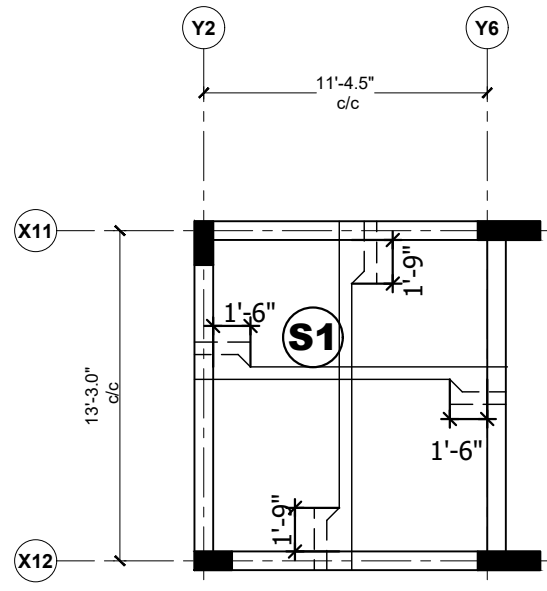
Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title :
Head & Machine Room Beam & Slab Reinforcement Detail

Consultants :
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Structural Engineering, Civil, Planning & Project Management
216/17-4, KMS Garden, Lotus Nagar,
Salem - 636016. Tamil Nadu
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WATER TANK COVER BEAM LAYOUT PLAN



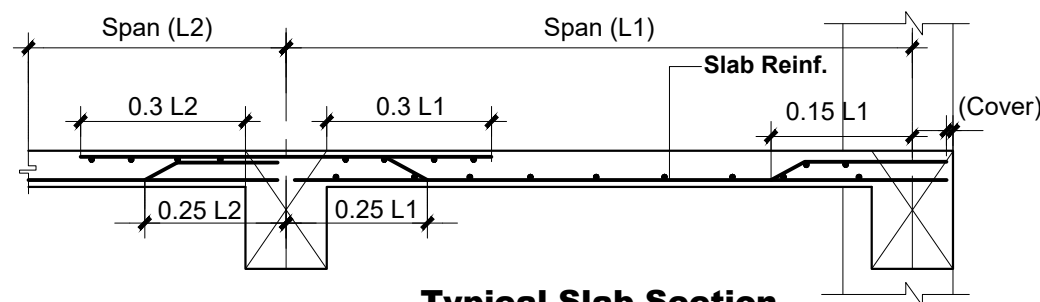
WATER TANK COVER SLAB LAYOUT PLAN

WATER TANK COVER BEAM REINFORCEMENT DETAILS:

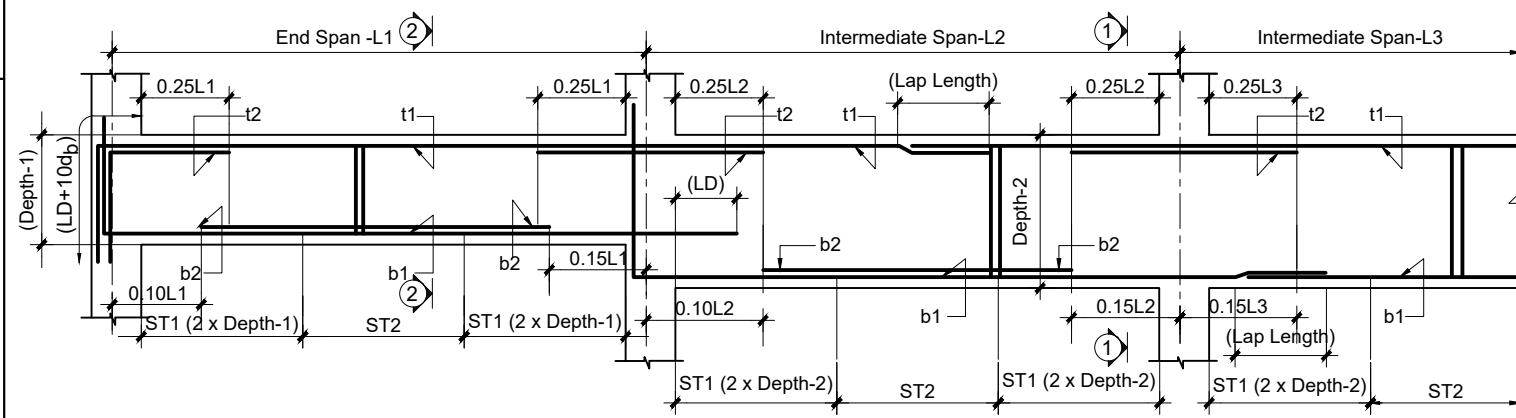
SL.NO	BEAM NAME	BEAM SIZE	REINFORCEMENT DETAIL		REINFORCEMENT OF STIRRUPS	
			Support Span	Mid Span	ST1	ST2
1.	RB1	0'9" x 1'3"			8# @ 4" c/c 2 Legged Stirrups	8# @ 6" c/c 2 Legged Stirrups

SCHEDULE FOR WATER TANK COVER SLAB REINFORCEMENT DETAIL:-

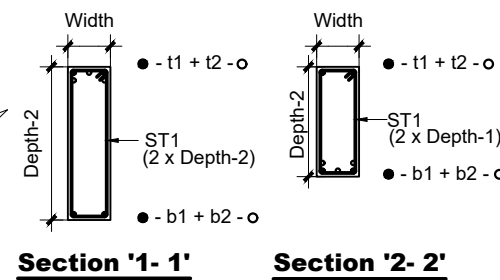
Sl. NO	Slab Name	Type of Slab	Slab Thickness	Bottom Reinforcement		Top Reinforcement	
				Shorter Span(B1)	Longer Span(B2)	Shorter Span(T1)	Longer Span(T2)
1	S1	Two way	6"	8# @ 5" c/c	8# @ 5" c/c	8# @ 5" c/c	8# @ 5" c/c



Typical Slab Section



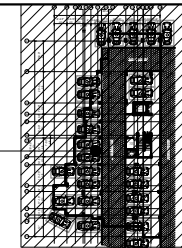
Reinforcement & Stirrups Detail (Varying Depth)



Section '1-1'

Section '2-2'

BUILDING



Key Plan

Legend :

c/c - Centre to Centre	ST1 - Stirrups at Support (2x Beam Depth)
Thk. - Thickness	ST2 - Stirrups at Beam Mid Span
RB - Roof Beam	S - Roof Slab
T1 - Top Through Rod	--- - Top
T2 - Top Extra Rod	— - Bottom
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 **20T/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.

Working Drawing

Revisions

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

Date : 23.11.2024 Drawn by : K.P. Designed by : S.M. Appd. by : N.M

Dwg no.: MC/SLM/JN-269/SHANKAR/STR/118

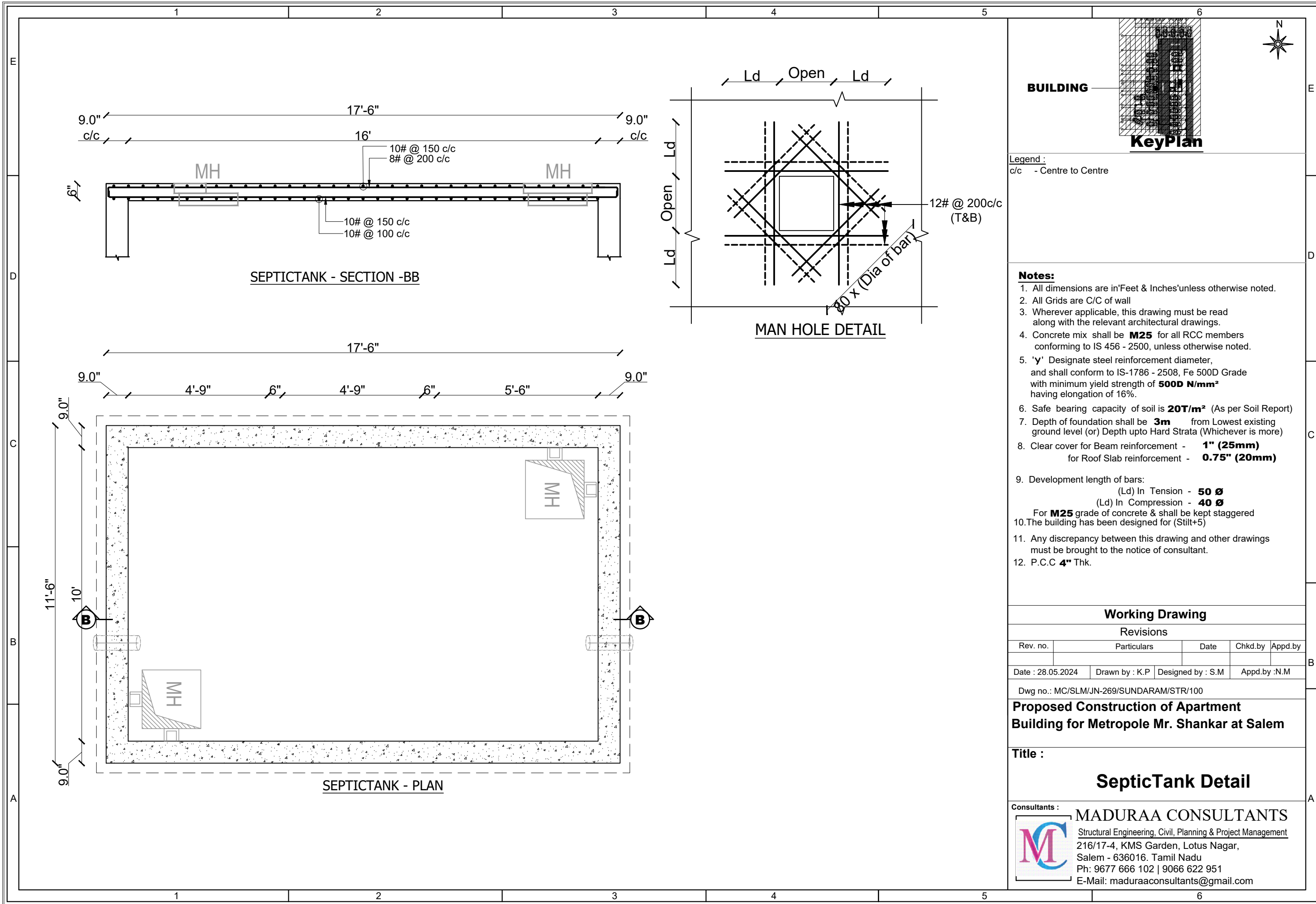
Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title :

Water Tank Cover Beam & Slab 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



BUILDING

KeyPlan

Legend :
c/c - Centre to Centre

- 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 **20T/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 ϕ**
(Ld) In Compression - **40 ϕ**
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.

Working Drawing

Revisions

Rev. no.	Particulars	Date	Chkd.by	Appd.by
Date : 28.05.2024	Drawn by : K.P	Designed by : S.M	Appd.by :N.M	

Dwg no.: MC/SLM/JN-269/SUNDARAM/STR/100

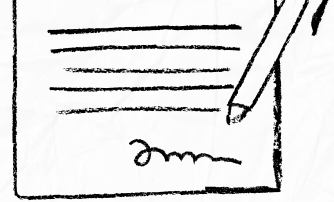
Proposed Construction of Apartment Building for Metropole Mr. Shankar at Salem

Title :

SepticTank Detail

Consultants :

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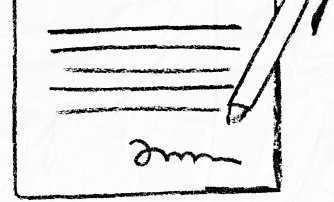
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