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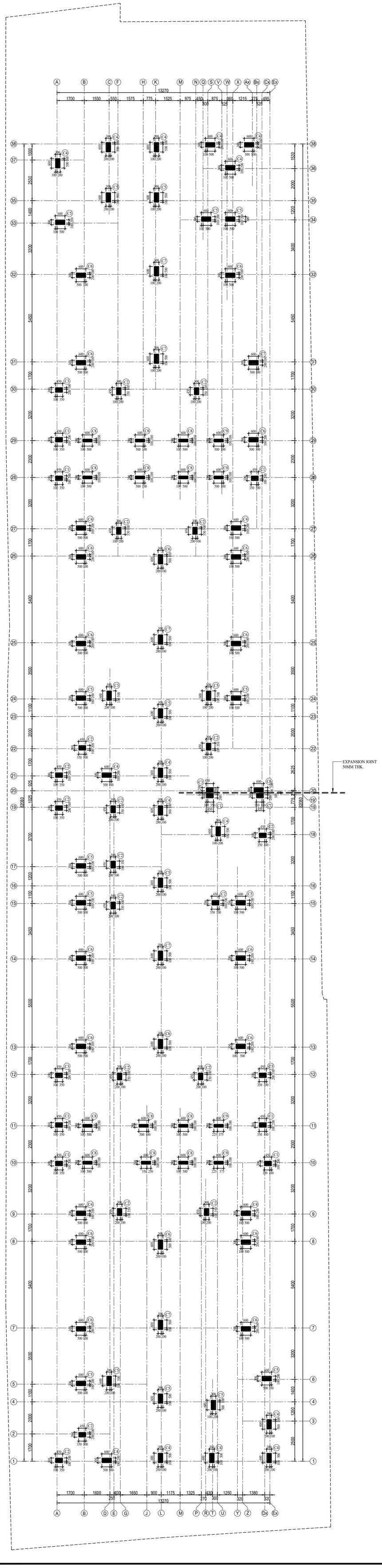
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OMR Thoraipakkam,
Chennai, India

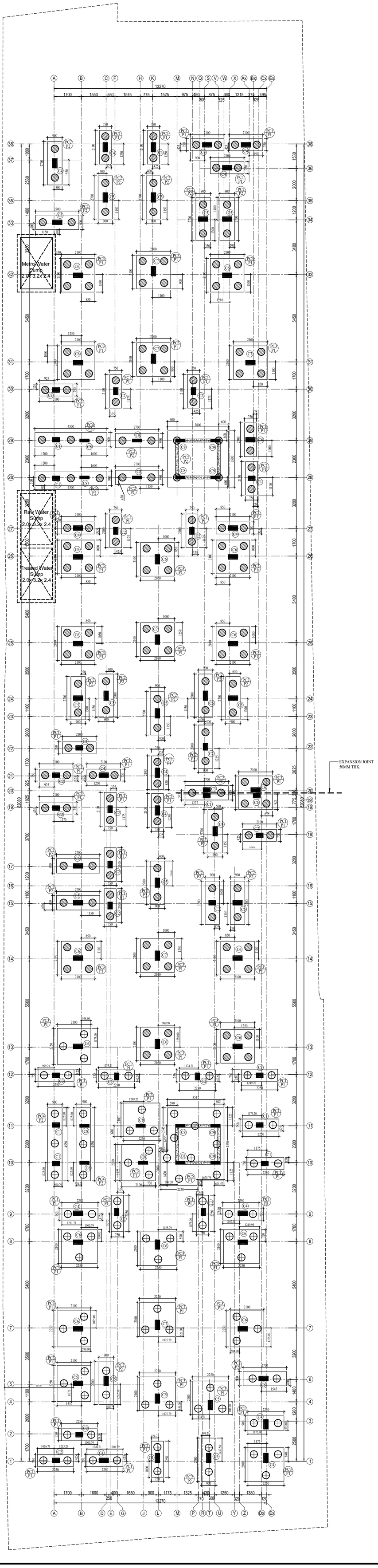
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GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

GOOD FOR CONSTRUCTION

REV:	DESCRIPTION:	BY:	DATE:
02	LIFT GRID 10 &11 - PILE REVISED	RM	30-09-24
01	AS PER SITE - PILE REVISED	RM	21-09-24

DRAWING NO : 1286-ST-S-01 DATE : 20-09-2024

CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

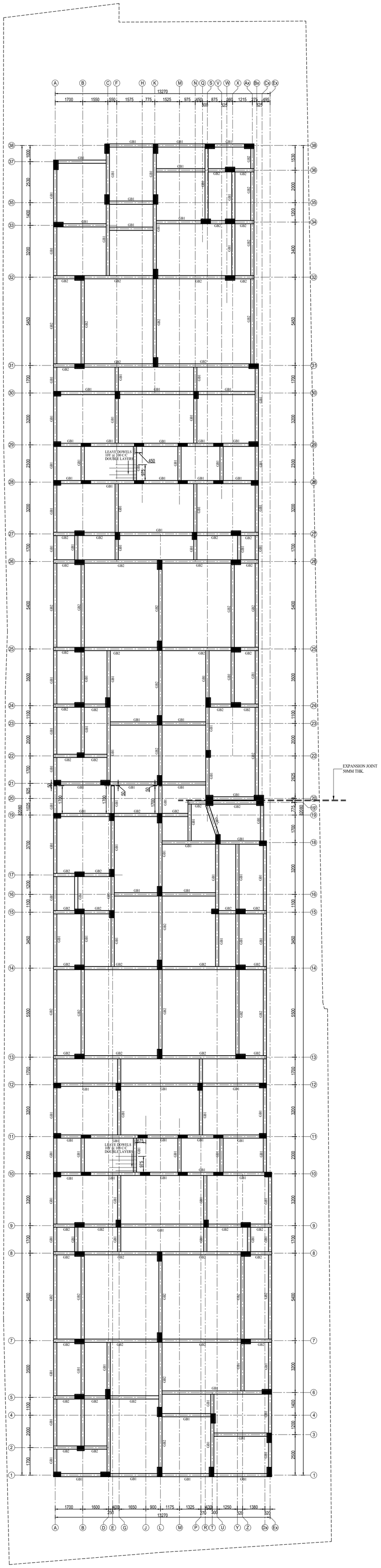
DRAWING TITLE:
COLUMN CENTER LINE & FOUNDATION LAYOUT

N

STRUCTURAL CONSULTANT:

AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 85	DRAWN BY	NPK
SHEET SIZE	A0	APPROVED BY	AKR
DESIGNED BY		I.R.ARUNKUMAAR	



GENERAL NOTES :

1) All Dimensions are in Millimeters
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   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
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4) Clear cover :
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   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
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6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

GOOD FOR CONSTRUCTION

REV:	DESCRIPTION:	BY:	DATE:
R1	GENERALLY REVISED	SETHU	09-11-2024

DRAWING NO : 1286-ST-S-04 | DATE : 28-10-2024

CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
GRADE BEAM LAYOUT

N

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
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email : akr@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 85	DRAWN BY	SETHU
SHEET SIZE	A0	APPROVED BY	AKR
DESIGNED BY		I.R.ARUNKUMAAR	

COLUMN DETAILS

TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C1	300 x 450 Stilt floor	300 / 450	● 8-16Y+ ⊗ 4-12Y		8Y @ 150C/C (Tn) 8Y @ 100C/C (Ts)
	200 x 450 First floor	200 / 450	● 8-16Y		
	200 x 450 Second floor	200 / 450	● 4-16Y+ ○ 4-12Y		
	200 x 450 Upper floors	200 / 450	● 8-12Y		
C2	300 x 450 Stilt floor	300 / 450	● 4-20Y+ ○ 4-16Y+ ⊗ 4-12Y		8Y @ 150C/C (Tn) 8Y @ 100C/C (Ts)
	200 x 450 First floor	200 / 450	● 4-20Y+ ○ 4-16Y		
	200 x 450 Second floor	200 / 450	● 4-20Y+ ○ 4-16Y		
	200 x 450 Third floor	200 / 450	● 8-16Y		
	200 x 450 Fourth floor	200 / 450	● 4-16Y+ ○ 4-12Y		
	200 x 450 Upper floors	200 / 450	● 8-12Y		
C3	300 x 450 Stilt floor	300 / 450	● 8-20Y+ ⊗ 4-12Y		8Y @ 150C/C (Tn) 8Y @ 100C/C (Ts)
	200 x 450 First floor	200 / 450	● 8-20Y		
	200 x 450 Second floor	200 / 450	● 4-20Y+ ○ 4-16Y		
	200 x 450 Third floor	200 / 450	● 8-16Y		
	200 x 450 Fourth floor	200 / 450	● 4-16Y+ ○ 4-12Y		

COLUMN DETAILS

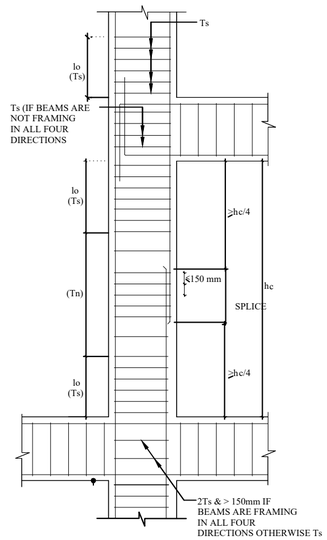
TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C3	200 x 450 Upper floors	200 / 450	● 8-12Y		8Y @ 150C/C (Tn) 8Y @ 100C/C (Ts)
C4	300 x 600 Stilt floor	300 / 600	● 10-16Y+ ⊗ 5-16Y		8Y @ 150C/C (Tn) 8Y @ 100C/C (Ts)
	200 x 600 First floor	200 / 600	● 10-16Y		
	200 x 600 Second floor	200 / 600	● 4-16Y+ ○ 6-12Y		
	200 x 600 Third floor	200 / 600	● 4-16Y+ ○ 6-12Y		
	200 x 600 Upper floors	200 / 600	● 10-12Y		
C5	300 x 600 Stilt floor	300 / 600	● 4-20Y+ ○ 6-16Y+ ⊗ 5-16Y		8Y @ 150C/C (Tn) 8Y @ 100C/C (Ts)
	200 x 600 First floor	200 / 600	● 4-20Y+ ○ 6-16Y+		
	200 x 600 Second floor	200 / 600	● 4-20Y+ ○ 6-16Y		
	200 x 600 Third floor	200 / 600	● 10-16Y		
	200 x 600 Fourth floor	200 / 600	● 4-16Y+ ○ 6-12Y		
	200 x 600 Upper floors	200 / 600	● 10-12Y		

COLUMN DETAILS

TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C6	300 x 600 Stilt floor	300 / 600	● 10-20Y+ ⊗ 5-16Y		8Y @ 150C/C (Tn) 8Y @ 100C/C (Ts)
	200 x 600 First floor	200 / 600	● 10-20Y		
	200 x 600 Second floor	200 / 600	● 4-20Y+ ○ 6-16Y		
	200 x 600 Third floor	200 / 600	● 10-16Y		
	200 x 600 Fourth floor	200 / 600	● 4-16Y+ ○ 6-12Y		
	200 x 600 Upper floors	200 / 600	● 10-12Y		
C7	300 x 600 Stilt floor	300 / 600	● 12-20Y+ ⊗ 6-16Y		8Y @ 150C/C (Tn) 8Y @ 100C/C (Ts)
	200 x 600 First floor	200 / 600	● 12-20Y		
	200 x 600 Second floor	200 / 600	● 12-16Y		
	200 x 600 Third floor	200 / 600	● 4-16Y+ ○ 8-12Y		
	200 x 600 Upper floors	200 / 600	● 12-12Y		
C8	200 x 600 Stilt floor	200 / 600	● 10-20Y		8Y @ 150C/C (Tn) 8Y @ 100C/C (Ts)
	200 x 600 First floor	200 / 600	● 4-20Y+ ○ 6-16Y		

COLUMN DETAILS

TYPE	SIZE	CROSS SECTION	MAIN ROD	TIES PROFILE	LATERAL TIES
C8	200 x 600 Second floor	200 / 600	● 10-16Y		8Y @ 150C/C (Tn) 8Y @ 100C/C (Ts)
	200 x 600 Upper floors	200 / 600	● 10-12Y		
C9	200 x 600 Stilt floor	200 / 600	● 4-20Y+ ○ 6-16Y		8Y @ 150C/C (Tn) 8Y @ 100C/C (Ts)
	200 x 600 First floor	200 / 600	● 10-16Y		
	200 x 600 Second floor	200 / 600	● 4-16Y+ ○ 6-12Y		
	200 x 600 Upper floors	200 / 600	● 10-12Y		



COLUMN AND JOINT DETAILING

NOTES REGARDING DUCTILITY DETAILING:-

lo : DISTANCE FOR WHICH SPECIAL CONFINING REINFORCEMENT TO BE PROVIDED SHALL NOT BE LESS THAN
a) LARGER LATERAL DIMENSION OF THE MEMBER
b) 1/6 OF CLEAR SPAN OF THE MEMBER
c) 450mm

Ld : DEVELOPMENT LENGHT OF BAR IN TENSION
Ld FOR Fe500 GRADE STEEL and M30 is 46 Ø / WHERE Ø IS THE DIAMETRE OF THE BAR.

d : EFFECTIVE DEPTH OF BEAM

Ts : SPECIAL CONFINING REINFORCEMENT. THE SPACING OF STIRRUPS SHALL NOT EXCEED 1/4 OF MINIMUM MEMBER DIMENSION BUT NEED NOT BE LESS THAN 75mm NOR MORE THAN 100mm

Tn : NORMAL LATERAL REINFORCEMENT. THE SPACING OF STIRRUPS SHALL NOT EXCEED HALF THE LEAST LATERAL DIMENSION OF THE COLUMN.

LAP SPLICES SHALL NOT BE PROVIDED,
a) WITHIN A JOINT
b) WITHIN A DISTANCE OF 2d FROM JOINT FACE &
c) WITHIN A QUARTER LENGTH OF MEMBER FROM JOINT.
d) NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED AT ONE SECTION

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30 (Minimum cement content for Grade M30 = 400 Kg/m³) Concrete Grade for Pilecap, Column, Beam & Slab: M 25 (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500 Confirming to I S 1786-1985
4) Clear cover : Pile = 50, Pile cap Top = 50, Pile cap Bottom = 100, Column Cover to the Main Reinforcement =40, R.C.C Wall = 25, Beam=25, Slab=20
5) Lap length Compression (Column) : 45 Ø Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

GOOD FOR CONSTRUCTION

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-02 | DATE : 20-09-2024

CLIENT:
M/S. JONES FOUNDATION

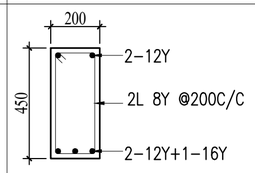
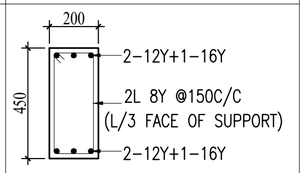
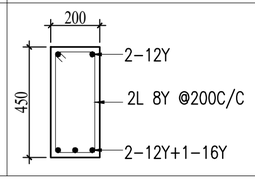
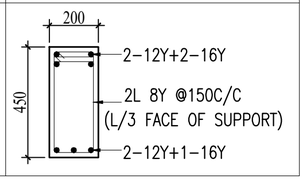
PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

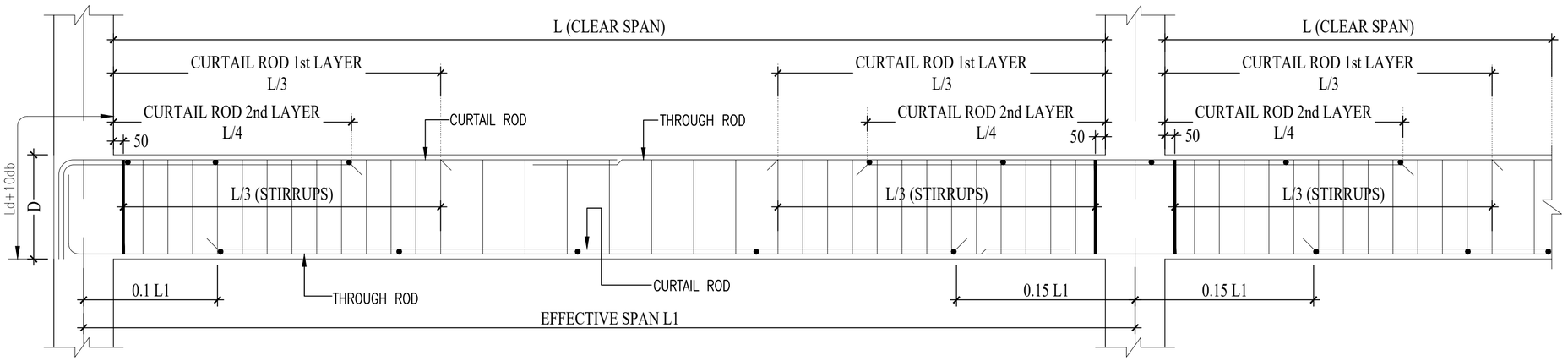
DRAWING TITLE:
COLUMN DETAILS

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
N0.10, 9th STREET,
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CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 55	DRAWN BY	NPK
SHEET SIZE	A2	APPROVED BY	AKR
DESIGNED BY			I.R.ARUNKUMAAR

GRADE BEAM DETAILS

Type	Size BxD	AT MIDSPAN	AT SUPPORT
GB1	200x450		
GB2	200x450		



TYPICAL L.S OF BEAM

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
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9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow
    architectural drawing dimensions only.
11) No changes shall be made without the
    Concern of the structural consultant.

GOOD FOR CONSTRUCTION

REV:	DESCRIPTION:	BY:	DATE:
R2	GENERALLY REVISED	SETHU	11-11-2024
R1	GENERALLY REVISED	SETHU	09-11-2024

DRAWING NO : 1286-ST-S-05 | DATE : 28-10-2024

CLIENT:
M/S. JONES FOUNDATION

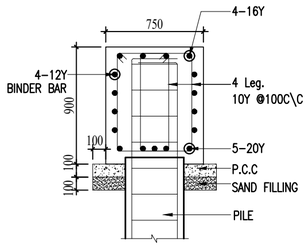
PROJECT TITLE:
PROPOSED CONSTUCTION OF
APARTMENT BUILDING AT
PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
GRADE BEAM DETAILS

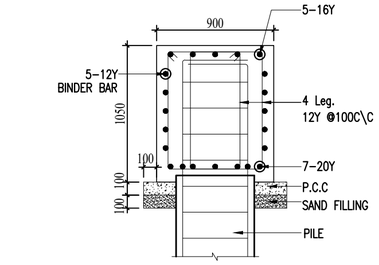
STRUCTURAL CONSULTANT:

AKR CONSULTANTS
Er.I.R.ARUNKUMAAR,M.E.,M.I.E.
AKR CONSULTANTS
NO.10, 9th STREET,
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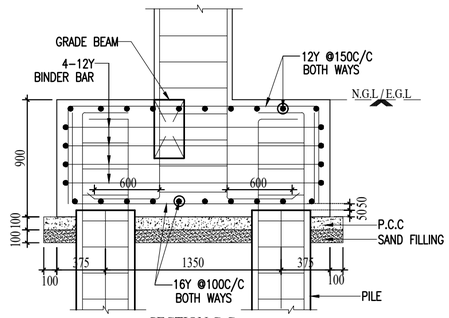
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SHEET SIZE	A3	APPROVED BY	AKR
DESIGNED BY		I.R.ARUNKUMAAR	



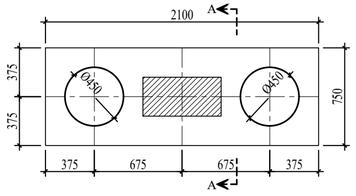
SECTION A-A



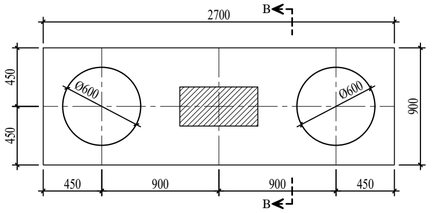
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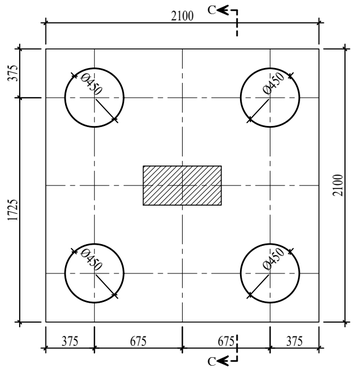
SECTION C-C



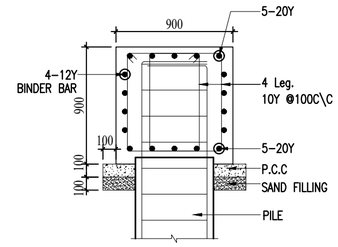
DETAIL OF PILE CAP - PC1/P1



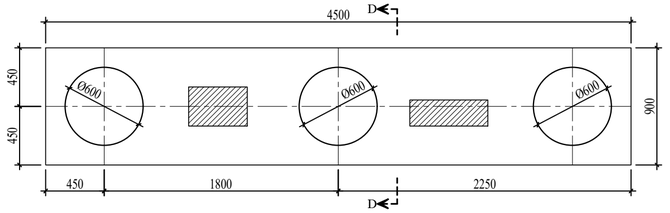
DETAIL OF PILE CAP - PC2/P2



DETAIL OF PILE CAP - PC3/P1



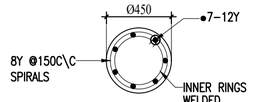
SECTION D-D



DETAIL OF PILE CAP - PC4/P2

BORED PILE DETAILS (P1)

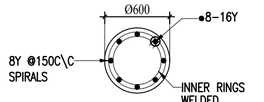
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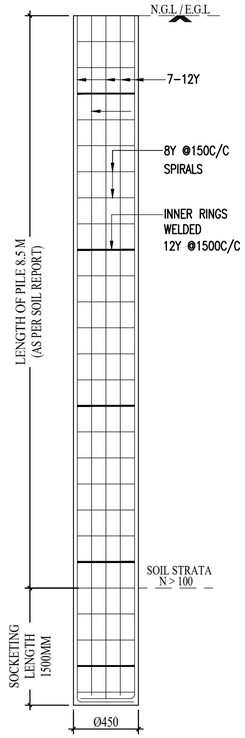
C.S DETAIL OF PILE - P1

BORED PILE DETAILS (P2)

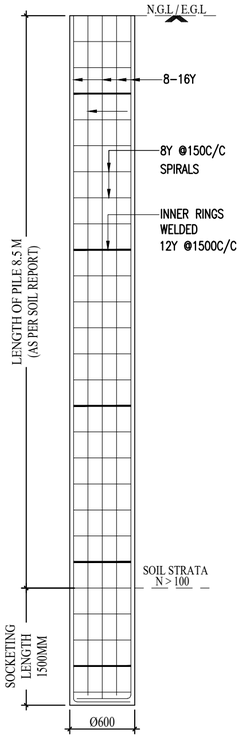
(600 MM DIA)



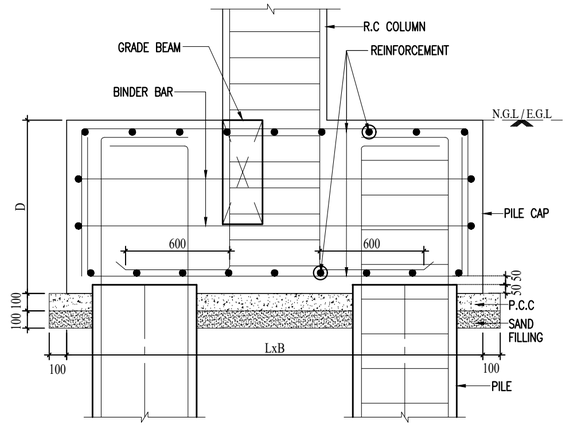
C.S DETAIL OF PILE - P2



PILE DETAIL - P1



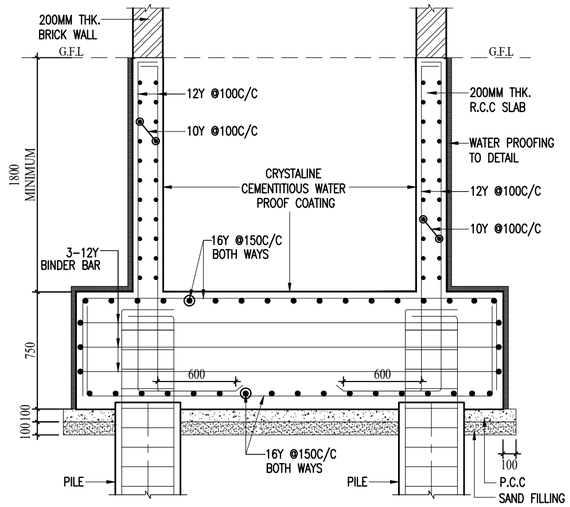
PILE DETAIL - P2



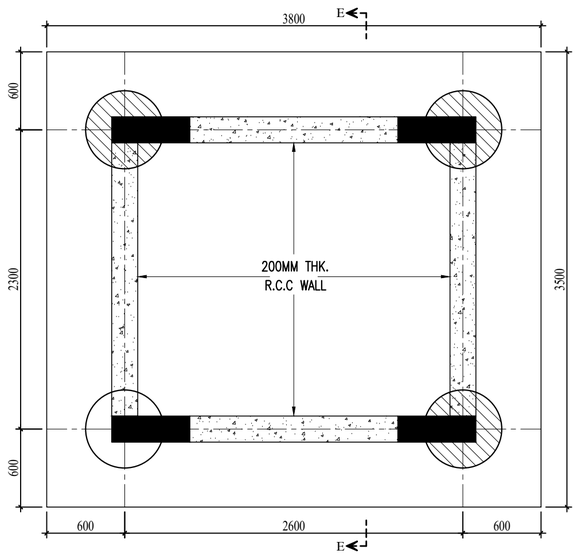
TYPICAL PILE CAP DETAIL

PILE NOTES :-

BORED CAST IN SITU END BEARING PILE DRIVEN BY DIRECT BOREDMUD CIRCULATION METHOD (DMC),
BORING TERMINATED AT A DEPTH WHERE 'N' VALUE IN SPT TEST IS MORE THAN 100 FOR
AND AN EXTRA BORING FOR MINIMUM 1.5 TIMES OF DIA. OF PILE BEYOND ABOVE LEVEL IN THE HARD STRATA.
APPROX. LENGTH OF PILE SHALL BE 10.00M . CONCRETING FOR THE PILE SHALL BE DONE USING THE TREMIE PIPE IN THE SHAFT FOR PROPER PLACING AND COMPACTION OF CONCRETE. THE DESIGN SAFE LOADS FOR THE PILES ARE AS PILES SHALL BE DONE FOR 2.0 TIMES THE DESIGN SAFE LOAD AND ROUTINE LOAD TEST ON WORKING PILES SHALL BE DONE FOR 1.5 TIMES THE DESIGN SAFE LOAD OR FOR 12MM SETTLEMENT WHICH EVER IS MINIMUM AS PER THE IS 2911 (PART IV).
SAFE LOAD FOR 450 DIA. PILE = 450kN.
SAFE LOAD FOR 600 DIA. PILE = 600kN.



SECTION F-F



DETAIL OF PILE CAP - PC5/P2

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
(Minimum cement content for Grade M30 = 400 Kg/m³)
Concrete Grade for Pilecap, Column, Beam & Slab: M 25
(Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
Confirming to I S 1786-1985
4) Clear cover :
Pile = 50,
Pile cap Top = 50,
Pile cap Bottom = 100,
Column Cover
to the Main Reinforcement =40,
R.C.C Wall = 25,
Beam=25,
Slab=20
5) Lap length
Compression (Column) : 45 Ø
Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

GOOD FOR CONSTRUCTION

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-03 | DATE : 20-09-2024

CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

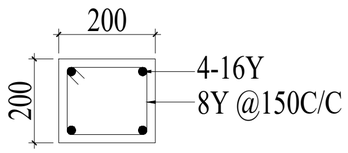
DRAWING TITLE:
PILE & PILE CAP DETAILS

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 50	DRAWN BY	NPK
SHEET SIZE	A2	APPROVED BY	AKR
DESIGNED BY		I.R.ARUNKUMAAR	

GROUND FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
GRB1	200x450	2-12Y 8Y @200C/C 2-16Y+ 1-12Y	2-12Y+2-16Y 8Y @100C/C 2-16Y+ 1-12Y
GRB2	200x450	2-12Y 8Y @200C/C 2-12Y+ 1-16Y	2-12Y+2-16Y 8Y @100C/C 2-12Y+ 1-16Y
GRB3	200x450	2-16Y 8Y @200C/C 2-12Y+ 1-16Y	2-16Y+2-25Y 8Y @100C/C 2-12Y+ 1-16Y
GRB4	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y 8Y @200C/C 3-12Y
GRB5	200x375	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y 8Y @150C/C 2-16Y
GRB6	200x450	2-20Y+2-25Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y
GRB7	REFER L.S		
GRB8	REFER L.S		
GRB9	200x450	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y
GRB10	REFER L.S		
GRB11	REFER L.S		
GRB12	200x600	2-20Y+2-25Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y



DETAIL OF NFC

GROUND FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
GRB13	200x450	2-20Y 8Y @200C/C 2-16Y+2-20Y	2-20Y+2-20Y 8Y @100C/C 2-16Y
GRB14	200x600	2-25Y+2-25Y 10Y @100C/C 2-16Y+1-20Y	2-25Y+2-25Y 10Y @100C/C 2-16Y+1-20Y
GRB15	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y 8Y @150C/C 2-16Y
GRB16	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y+2-16Y 8Y @100C/C 2-16Y
GRB17	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y+1-16Y 8Y @100C/C 2-16Y
GRB18	200x450	2-12Y 8Y @200C/C 2-16Y+2-16Y	2-12Y 8Y @150C/C 2-16Y
GRB19	200x450	2-20Y+2-20Y 8Y @200C/C 2-16Y+1-12Y	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y
GRB20	200x450	2-16Y 8Y @200C/C 3-16Y	2-16Y+2-16Y 8Y @100C/C 3-16Y
GRB21	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y 8Y @200C/C 2-12Y+1-16Y
GRB22	200x450	2-16Y 8Y @200C/C 2-12Y+2-16Y	2-16Y+2-16Y 8Y @100C/C 2-12Y+2-16Y

GROUND FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
GRB23	200x450	2-16Y 8Y @200C/C 2-16Y+2-16Y	2-16Y+2-25Y 8Y @100C/C 2-16Y
GRB24	200x525	2-20Y 8Y @200C/C 3-16Y	2-20Y+2-25Y 8Y @100C/C 3-16Y
GRB25	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y+2-16Y 8Y @100C/C 2-12Y+1-16Y
GRB26	200x450	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y+2-16Y 8Y @100C/C 2-16Y+1-16Y
GRB27	200x450	2-20Y+2-20Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y
GRB28	200x450	2-20Y 8Y @200C/C 3-20Y	2-20Y+2-20Y 8Y @100C/C 3-20Y
GRB29	200x300	2-12Y 8Y @100C/C 3-16Y	2-12Y 8Y @100C/C 3-16Y
GRB30	200x450	2-16Y 8Y @200C/C 2-20Y+1-16Y	2-16Y+2-20Y 8Y @100C/C 2-20Y+1-16Y
GRB31	200x275	2-12Y 8Y @150C/C 2-12Y	2-12Y 8Y @150C/C 2-12Y
GRB32	200x600	2-16Y 8Y @200C/C 2-20Y+1-20Y	2-16Y+2-20Y 8Y @100C/C 2-20Y
GRB33	200x450	2-16Y 8Y @200C/C 2-20Y+2-20Y	2-16Y+2-20Y 8Y @100C/C 2-20Y

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-08 | DATE : 19-02-2025

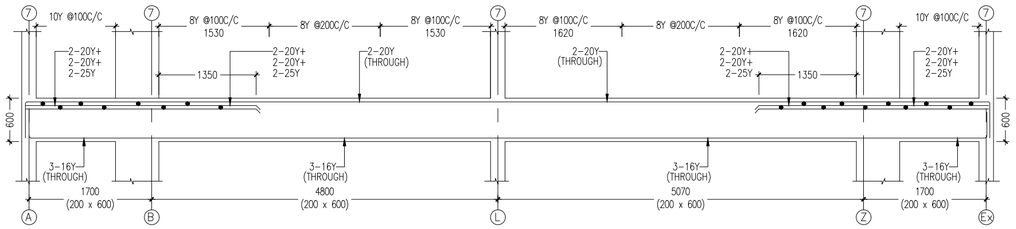
CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

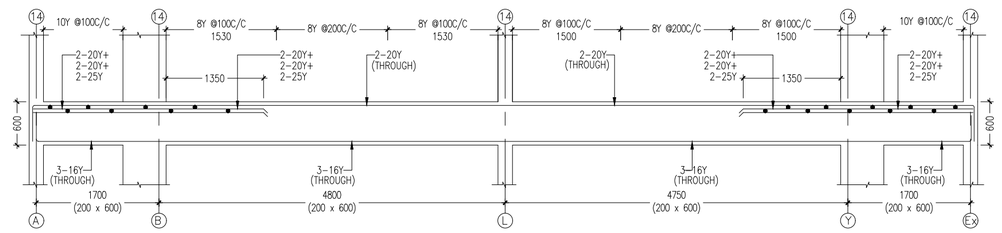
DRAWING TITLE:
GROUND FLOOR ROOF BEAM DETAILS
SHEET (01 OF 03)

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

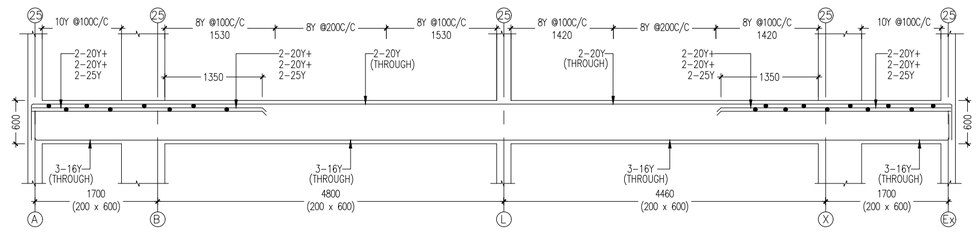
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SHEET SIZE	A2	APPROVED BY	AKR
DESIGNED BY		AKR	



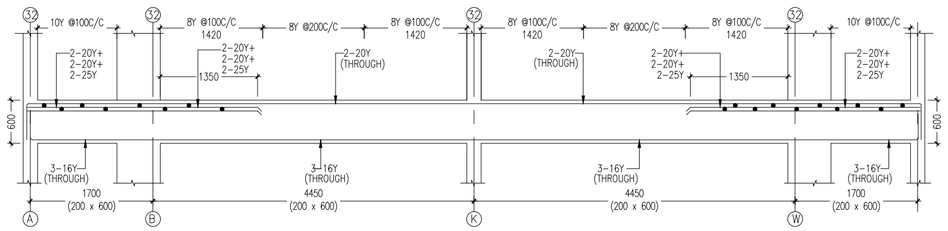
L.S DETAIL OF BEAM -GRB7



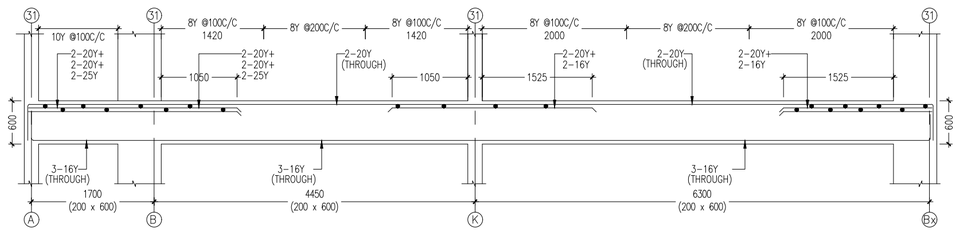
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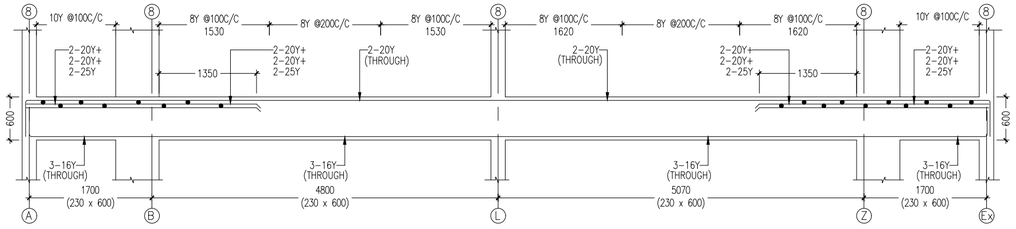
L.S DETAIL OF BEAM -GRB7b



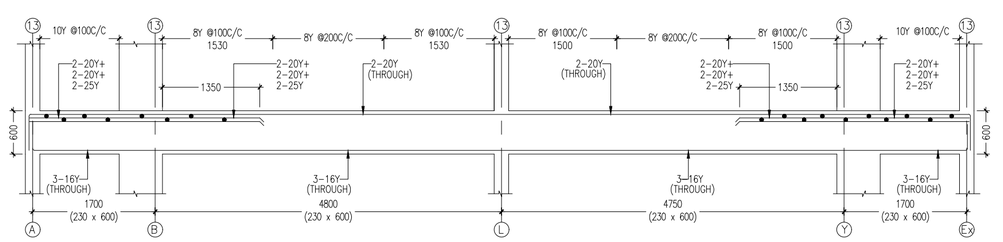
L.S DETAIL OF BEAM -GRB7c



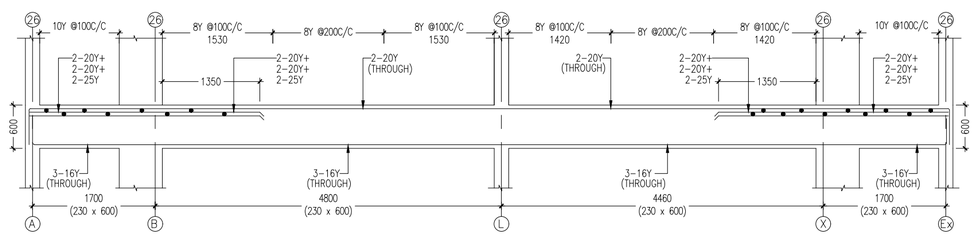
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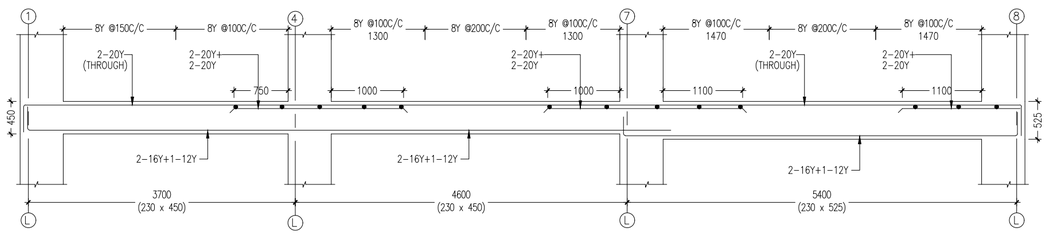
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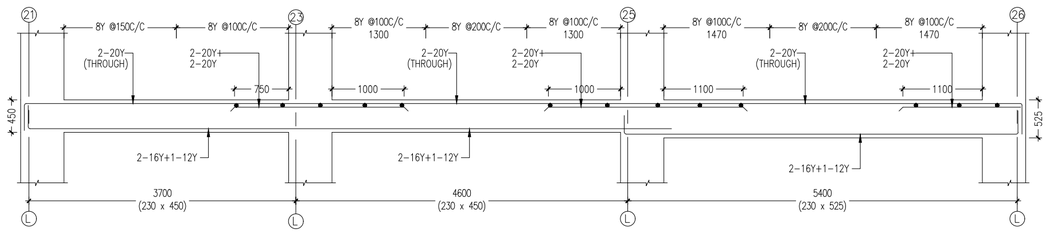
L.S DETAIL OF BEAM -GRB8a



L.S DETAIL OF BEAM -GRB8b



L.S DETAIL OF BEAM -GRB10



L.S DETAIL OF BEAM -GRB10a

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-09 | DATE : 19-02-2025

CLIENT:
M/S. JONES FOUNDATION

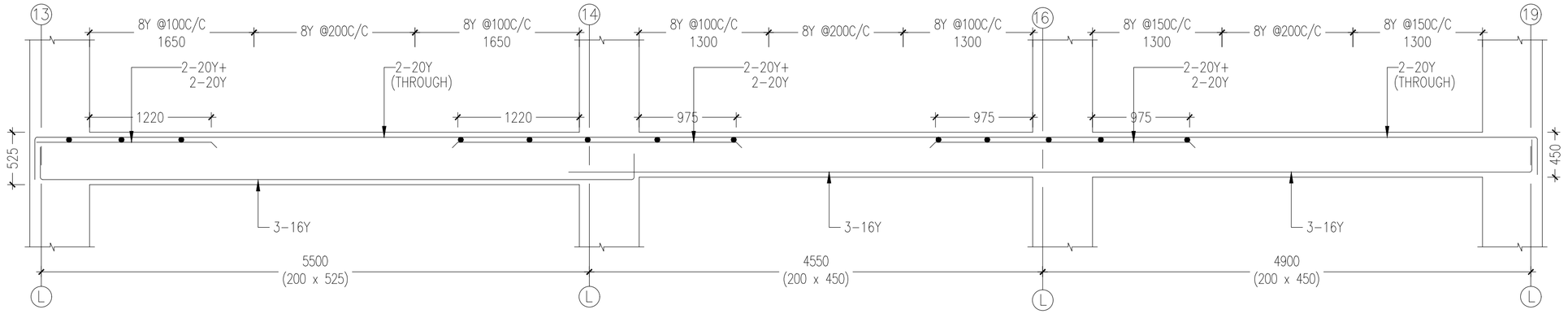
PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
GROUND FLOOR ROOF BEAM DETAILS
SHEET (02 OF 03)

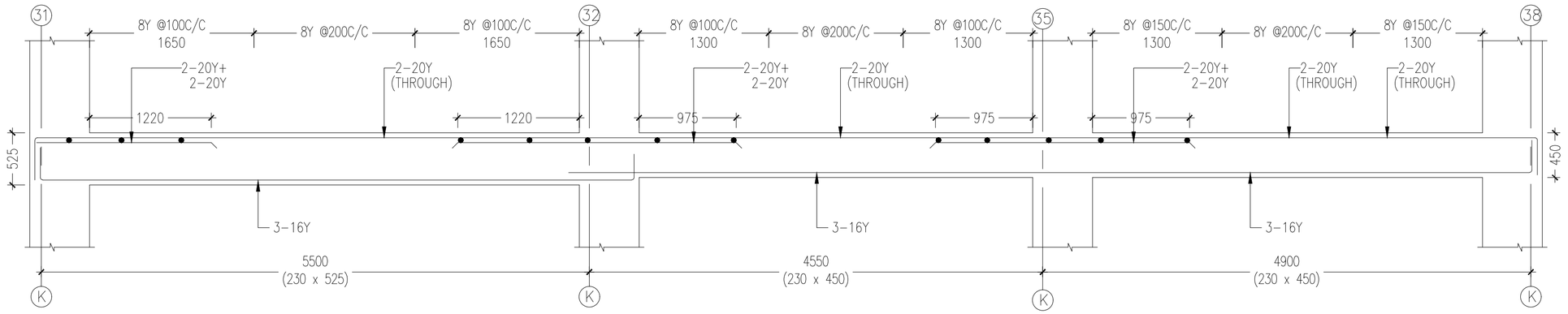
STRUCTURAL CONSULTANT:

AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

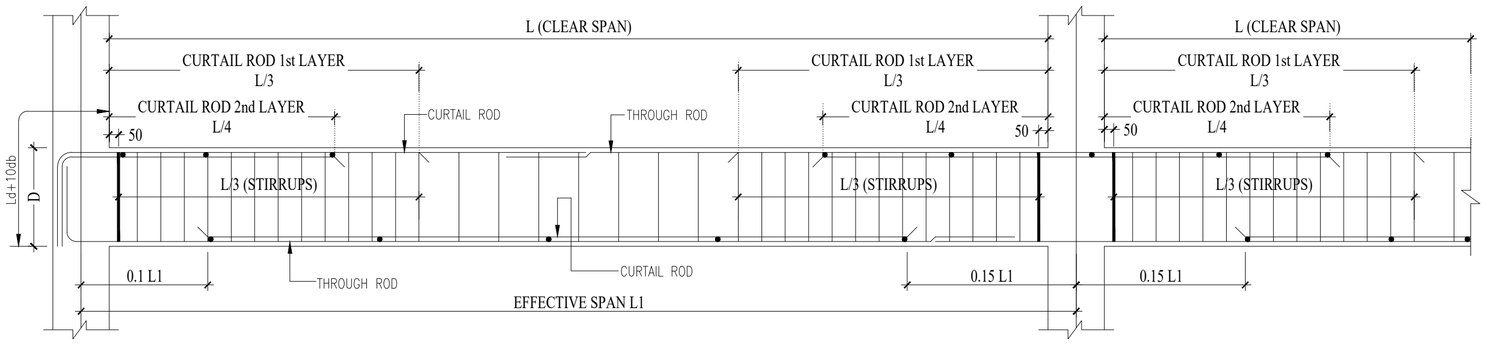
SCALE	1 : 85	DRAWN BY	NPK
SHEET SIZE	A3	APPROVED BY	AKR
DESIGNED BY		AKR	



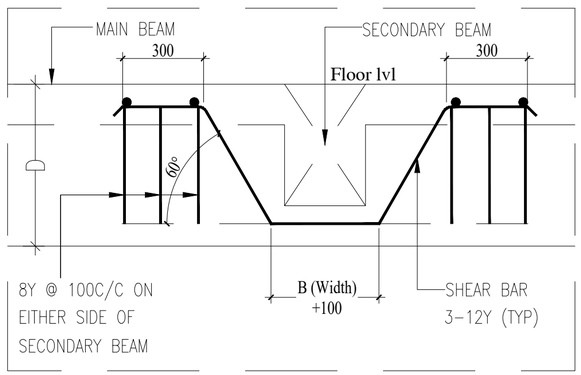
L.S DETAIL OF BEAM -GRB11



L.S DETAIL OF BEAM -GRB11a



TYPICAL L.S OF BEAM



TYPICAL SHEAR REINFORCEMENT DETAILS

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-10 | DATE : 19-02-2025

CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
GROUND FLOOR ROOF BEAM DETAILS
SHEET (03 OF 03)

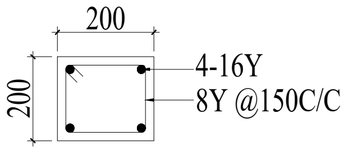
STRUCTURAL CONSULTANT:

AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
N0.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 75	DRAWN BY	NPK
SHEET SIZE	A3	APPROVED BY	AKR
DESIGNED BY		AKR	

FIRST FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB1	200x450	2-12Y 8Y @200C/C 2-16Y+ 1-12Y	2-12Y+2-16Y 8Y @100C/C 2-16Y+ 1-12Y
FRB2	200x450	2-12Y 8Y @200C/C 2-12Y+ 1-16Y	2-12Y+2-16Y 8Y @100C/C 2-12Y+ 1-16Y
FRB3	200x450	2-16Y 8Y @200C/C 2-12Y+ 1-16Y	2-16Y+2-25Y 8Y @100C/C 2-12Y+ 1-16Y
FRB4	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y 8Y @200C/C 3-12Y
FRB5	200x375	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y 8Y @150C/C 2-16Y
FRB6	200x450	2-20Y+2-25Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y
FRB7	REFER L.S		
FRB8	REFER L.S		
FRB9	200x450	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y
FRB10	REFER L.S		
FRB11	REFER L.S		
FRB12	200x600	2-20Y+2-25Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y



DETAIL OF NFC

FIRST FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB13	200x450	2-20Y 8Y @200C/C 2-16Y+2-20Y	2-20Y+2-20Y 8Y @100C/C 2-16Y
FRB14	200x600	2-25Y+2-25Y 10Y @100C/C 2-16Y+1-20Y	2-25Y+2-25Y 10Y @100C/C 2-16Y+1-20Y
FRB15	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y 8Y @150C/C 2-16Y
FRB16	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y+2-16Y 8Y @100C/C 2-16Y
FRB17	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y+1-16Y 8Y @100C/C 2-16Y
FRB18	200x450	2-12Y 8Y @200C/C 2-16Y+2-16Y	2-12Y 8Y @150C/C 2-16Y
FRB19	200x450	2-20Y+2-20Y 8Y @200C/C 2-16Y+1-12Y	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y
FRB20	200x450	2-16Y 8Y @200C/C 3-16Y	2-16Y+2-16Y 8Y @100C/C 3-16Y
FRB21	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y 8Y @200C/C 2-12Y+1-16Y
FRB22	200x450	2-16Y 8Y @200C/C 2-12Y+2-16Y	2-16Y+2-16Y 8Y @100C/C 2-12Y+2-16Y

FIRST FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB23	200x450	2-16Y 8Y @200C/C 2-16Y+2-16Y	2-16Y+2-25Y 8Y @100C/C 2-16Y
FRB24	200x525	2-20Y 8Y @200C/C 3-16Y	2-20Y+2-25Y 8Y @100C/C 3-16Y
FRB25	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y+2-16Y 8Y @100C/C 2-12Y+1-16Y
FRB26	200x450	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y+2-16Y 8Y @100C/C 2-16Y+1-16Y
FRB27	200x450	2-20Y+2-20Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y
FRB28	200x450	2-20Y 8Y @200C/C 3-20Y	2-20Y+2-20Y 8Y @100C/C 3-20Y
FRB29	200x300	2-12Y 8Y @100C/C 3-16Y	2-12Y 8Y @100C/C 3-16Y
FRB30	200x450	2-16Y 8Y @200C/C 2-20Y+1-16Y	2-16Y+2-20Y 8Y @100C/C 2-20Y+1-16Y
FRB31	200x275	2-12Y 8Y @150C/C 2-12Y	2-12Y 8Y @150C/C 2-12Y
FRB32	200x600	2-16Y 8Y @200C/C 2-20Y+1-20Y	2-16Y+2-20Y 8Y @100C/C 2-20Y
FRB33	200x450	2-16Y 8Y @200C/C 2-20Y+2-20Y	2-16Y+2-20Y 8Y @100C/C 2-20Y

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-11 | DATE : 19-02-2025

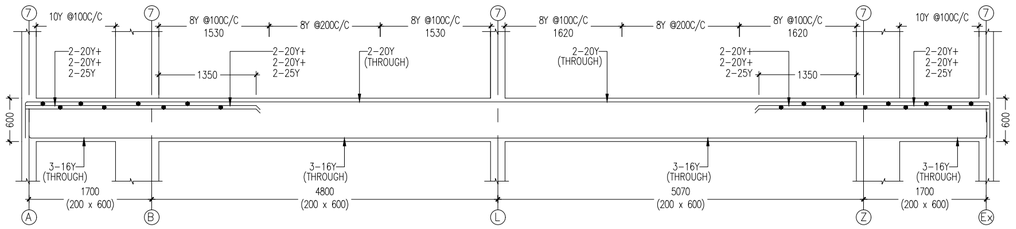
CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

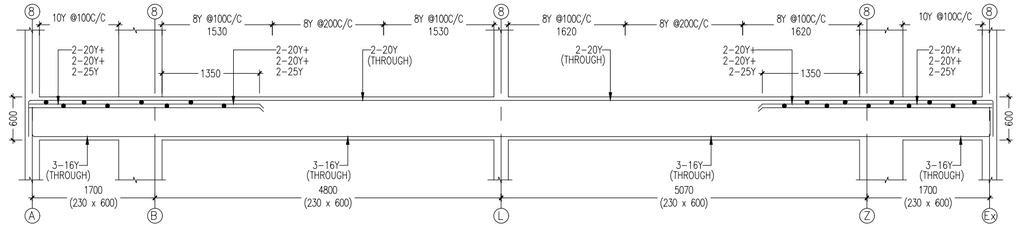
DRAWING TITLE:
FIRST FLOOR ROOF BEAM DETAILS
SHEET (01 OF 03)

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

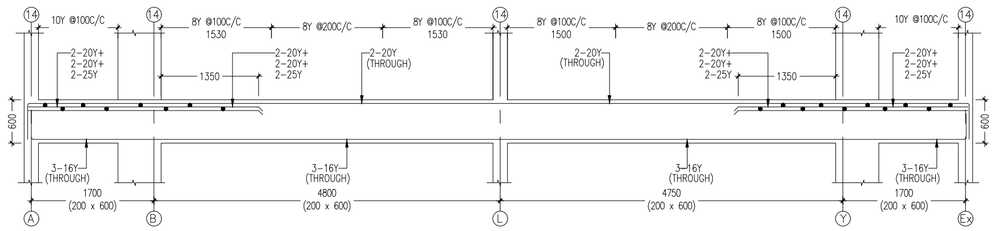
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SHEET SIZE	A2	APPROVED BY	AKR
DESIGNED BY		AKR	



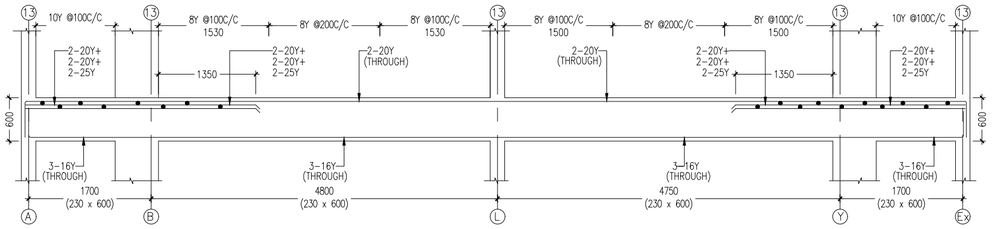
L.S DETAIL OF BEAM -FRB7



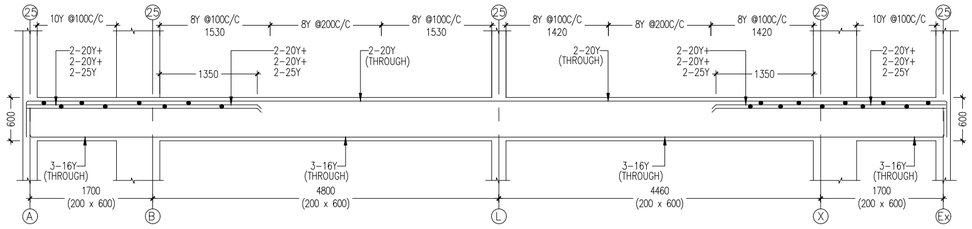
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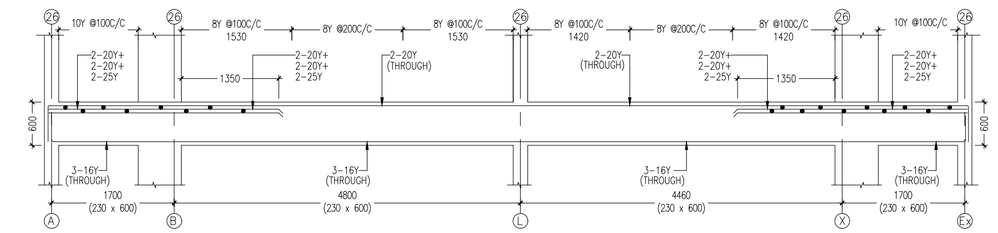
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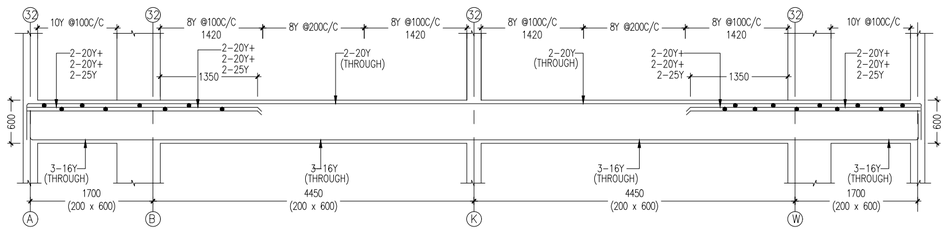
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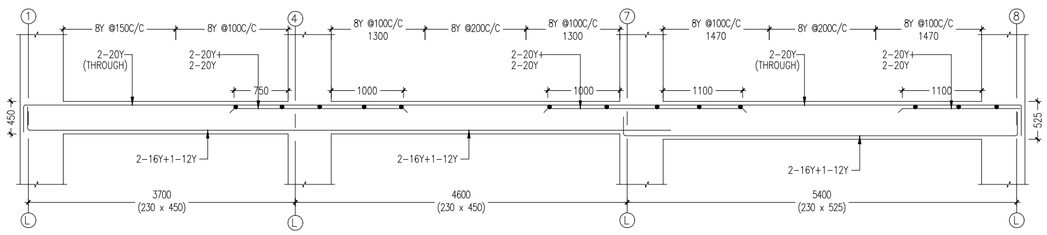
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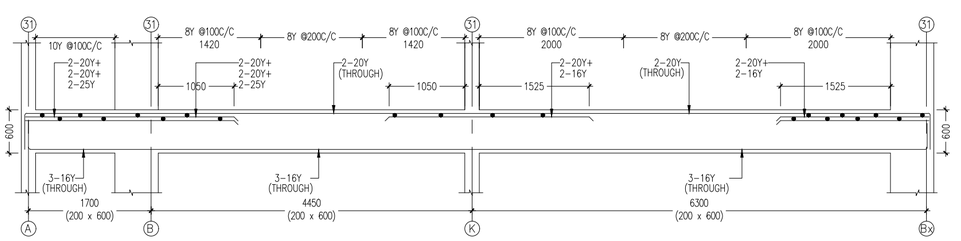
L.S DETAIL OF BEAM -FRB8b



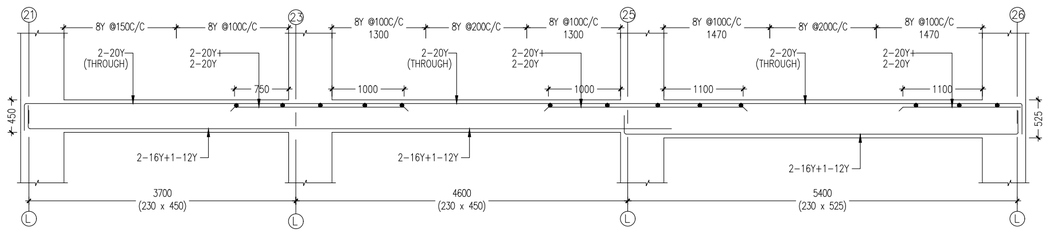
L.S DETAIL OF BEAM -FRB7c



L.S DETAIL OF BEAM -FRB10



L.S DETAIL OF BEAM -FRB8c



L.S DETAIL OF BEAM -FRB10a

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-12 | DATE : 19-02-2025

CLIENT:
M/S. JONES FOUNDATION

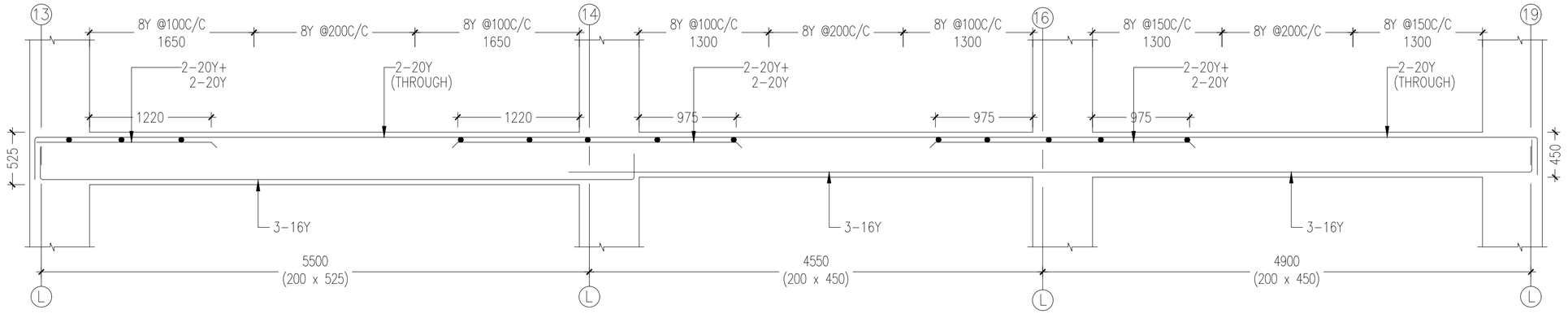
PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
FIRST FLOOR ROOF BEAM DETAILS
SHEET (02 OF 03)

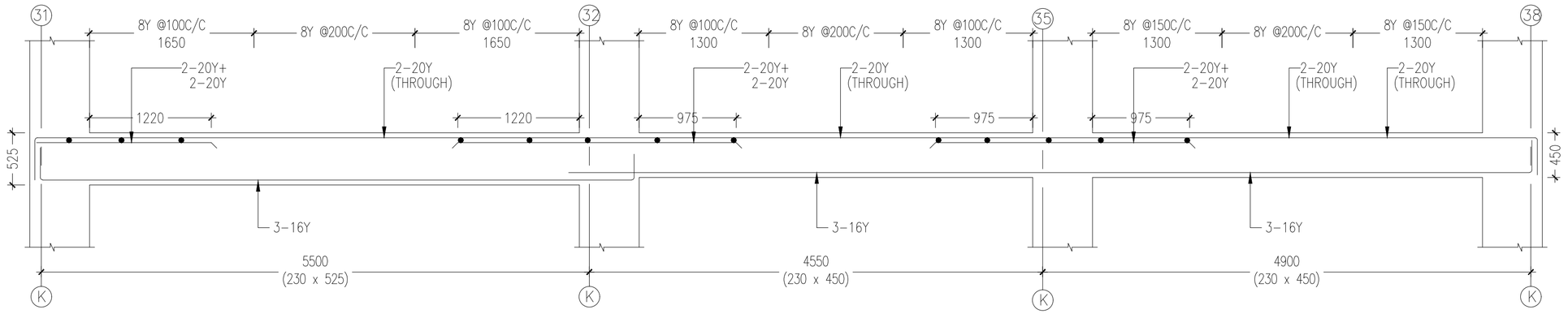
STRUCTURAL CONSULTANT:

AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

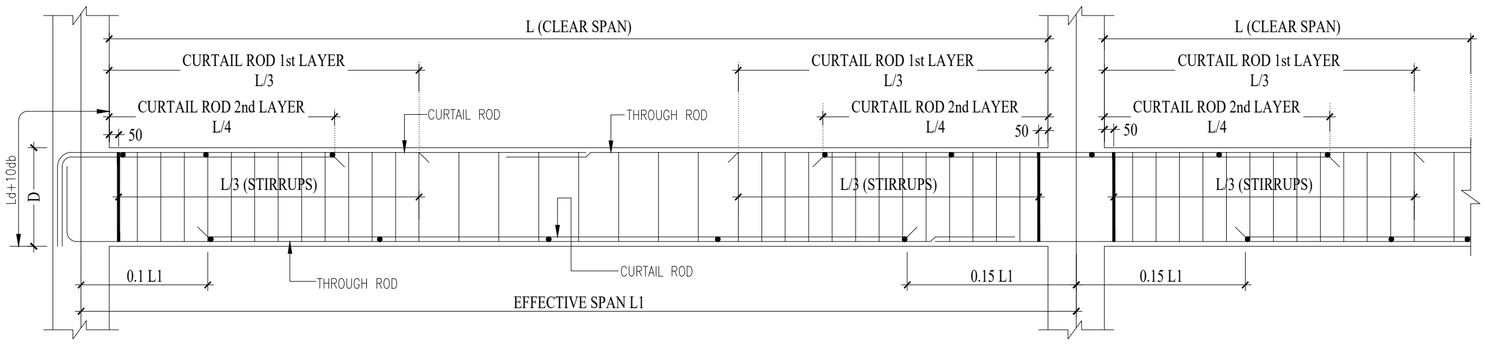
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SHEET SIZE	A3	APPROVED BY	AKR
DESIGNED BY		AKR	



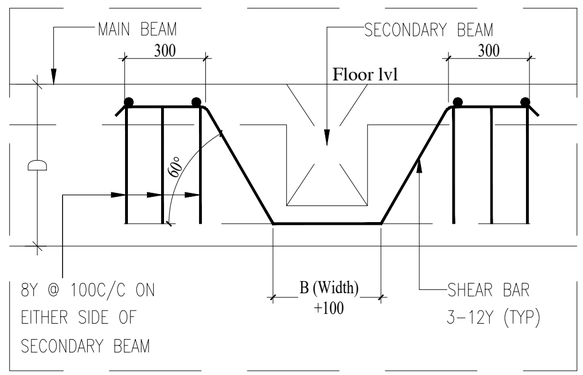
L.S DETAIL OF BEAM -FRB11



L.S DETAIL OF BEAM -FRB11a



TYPICAL L.S OF BEAM



TYPICAL SHEAR REINFORCEMENT DETAILS

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-13 | DATE : 19-02-2025

CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
FIRST FLOOR ROOF BEAM DETAILS
SHEET (03 OF 03)

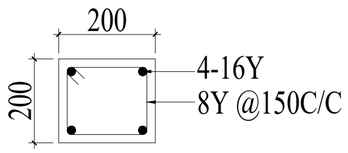
STRUCTURAL CONSULTANT:

AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
N0.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 75	DRAWN BY	NPK
SHEET SIZE	A3	APPROVED BY	AKR
DESIGNED BY		AKR	

SECOND FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
SRB1	200x450	2-12Y 8Y @200C/C 2-16Y+ 1-12Y	2-12Y+2-16Y 8Y @100C/C 2-16Y+ 1-12Y
SRB2	200x450	2-12Y 8Y @200C/C 2-12Y+ 1-16Y	2-12Y+2-16Y 8Y @100C/C 2-12Y+ 1-16Y
SRB3	200x450	2-16Y 8Y @200C/C 2-12Y+ 1-16Y	2-16Y+2-25Y 8Y @100C/C 2-12Y+ 1-16Y
SRB4	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y 8Y @200C/C 3-12Y
SRB5	200x375	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y 8Y @150C/C 2-16Y
SRB6	200x450	2-20Y+2-25Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y
SRB7	REFER L.S		
SRB8	REFER L.S		
SRB9	200x450	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y
SRB10	REFER L.S		
SRB11	REFER L.S		
SRB12	200x600	2-20Y+2-25Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y



DETAIL OF NFC

SECOND FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
SRB13	200x450	2-20Y 8Y @200C/C 2-16Y+2-20Y	2-20Y+2-20Y 8Y @100C/C 2-16Y
SRB14	200x600	2-25Y+2-25Y 10Y @100C/C 2-16Y+1-20Y	2-25Y+2-25Y 10Y @100C/C 2-16Y+1-20Y
SRB15	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y 8Y @150C/C 2-16Y
SRB16	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y+2-16Y 8Y @100C/C 2-16Y
SRB17	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y+1-16Y 8Y @100C/C 2-16Y
SRB18	200x450	2-12Y 8Y @200C/C 2-16Y+2-16Y	2-12Y 8Y @150C/C 2-16Y
SRB19	200x450	2-20Y+2-20Y 8Y @200C/C 2-16Y+1-12Y	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y
SRB20	200x450	2-16Y 8Y @200C/C 3-16Y	2-16Y+2-16Y 8Y @100C/C 3-16Y
SRB21	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y 8Y @200C/C 2-12Y+1-16Y
SRB22	200x450	2-16Y 8Y @200C/C 2-12Y+2-16Y	2-16Y+2-16Y 8Y @100C/C 2-12Y+2-16Y

SECOND FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
SRB23	200x450	2-16Y 8Y @200C/C 2-16Y+2-16Y	2-16Y+2-25Y 8Y @100C/C 2-16Y
SRB24	200x525	2-20Y 8Y @200C/C 3-16Y	2-20Y+2-25Y 8Y @100C/C 3-16Y
SRB25	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y+2-16Y 8Y @100C/C 2-12Y+1-16Y
SRB26	200x450	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y+2-16Y 8Y @100C/C 2-16Y+1-16Y
SRB27	200x450	2-20Y+2-20Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y
SRB28	200x450	2-20Y 8Y @200C/C 3-20Y	2-20Y+2-20Y 8Y @100C/C 3-20Y
SRB29	200x300	2-12Y 8Y @100C/C 3-16Y	2-12Y 8Y @100C/C 3-16Y
SRB30	200x450	2-16Y 8Y @200C/C 2-20Y+1-16Y	2-16Y+2-20Y 8Y @100C/C 2-20Y+1-16Y
SRB31	200x275	2-12Y 8Y @150C/C 2-12Y	2-12Y 8Y @150C/C 2-12Y
SRB32	200x600	2-16Y 8Y @200C/C 2-20Y+1-20Y	2-16Y+2-20Y 8Y @100C/C 2-20Y
SRB33	200x450	2-16Y 8Y @200C/C 2-20Y+2-20Y	2-16Y+2-20Y 8Y @100C/C 2-20Y

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-15 | DATE : 19-02-2025

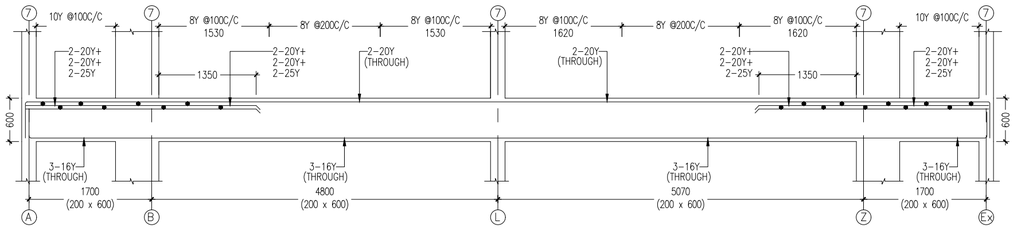
CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

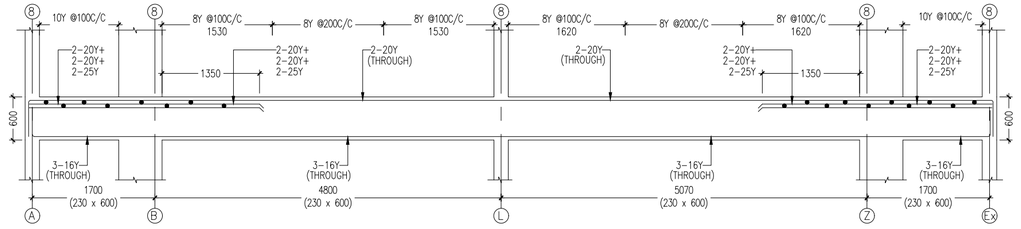
DRAWING TITLE:
SECOND FLOOR ROOF BEAM DETAILS
SHEET (01 OF 03)

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

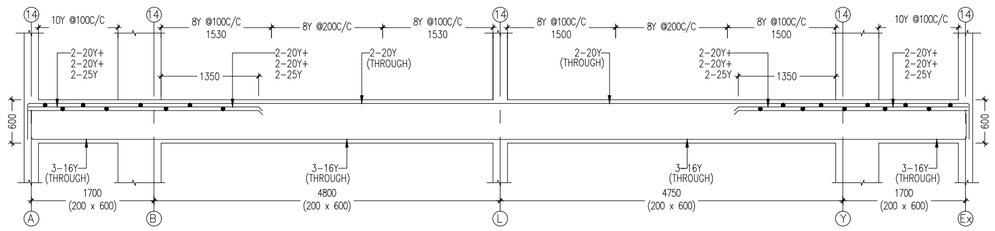
SCALE	1 : 60	DRAWN BY	RISWANA
SHEET SIZE	A2	APPROVED BY	AKR
DESIGNED BY		AKR	



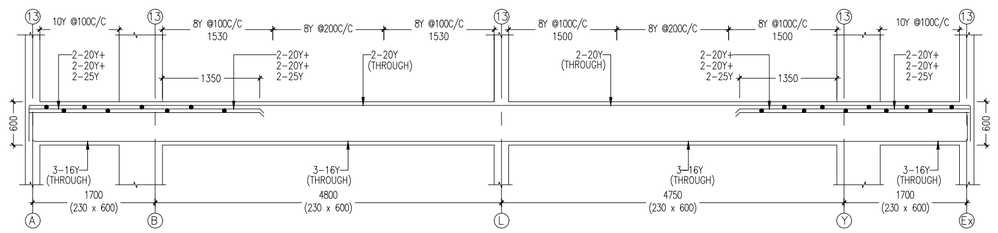
L.S DETAIL OF BEAM -SRB7



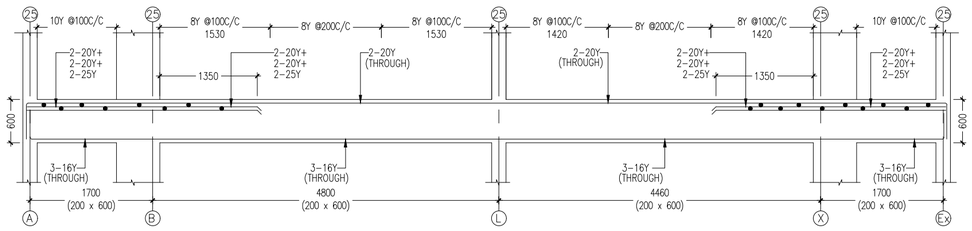
L.S DETAIL OF BEAM -SRB8



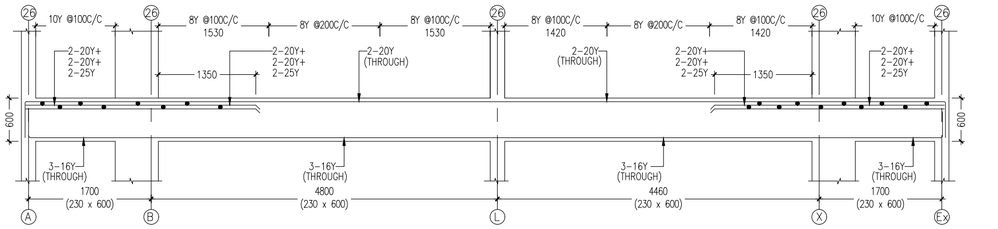
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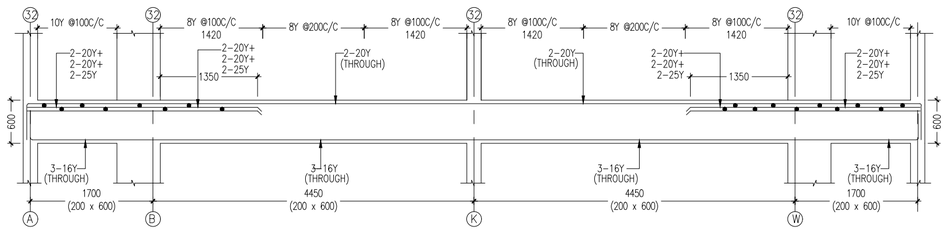
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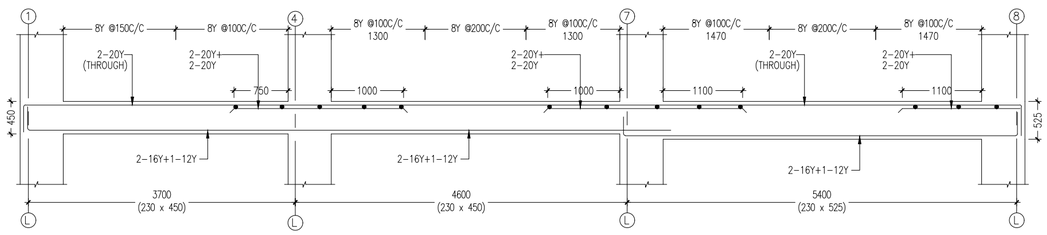
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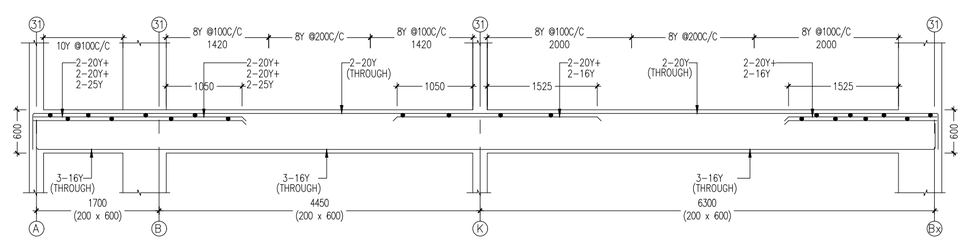
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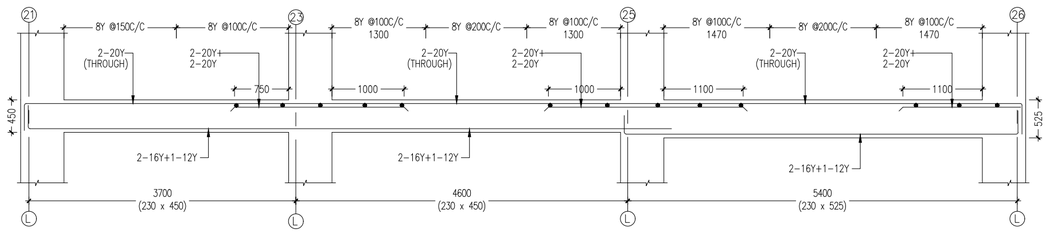
L.S DETAIL OF BEAM -SRB7c



L.S DETAIL OF BEAM -SRB10



L.S DETAIL OF BEAM -SRB8c



L.S DETAIL OF BEAM -SRB10a

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
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5) Lap length
   Compression (Column) : 45 Ø
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9) Development length for Ld-47 Ø
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FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-16 | DATE : 19-02-2025

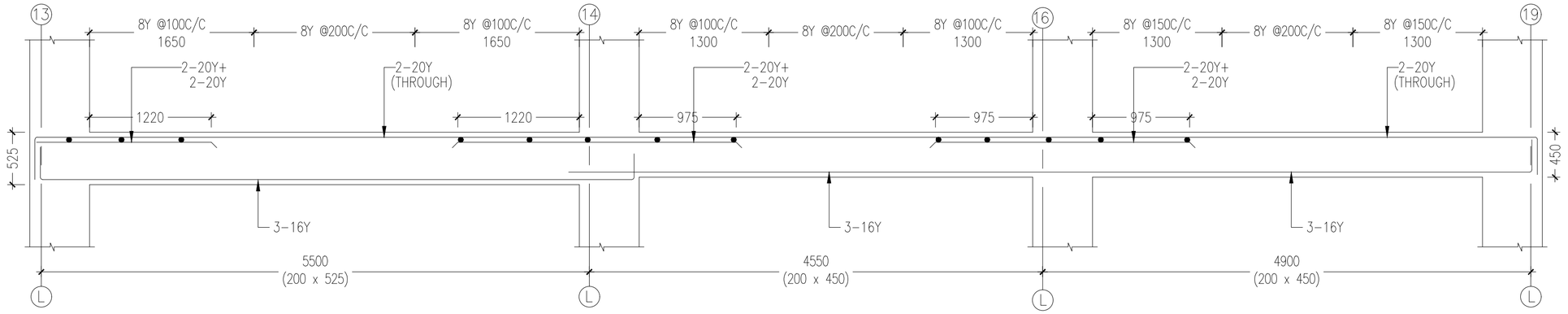
CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

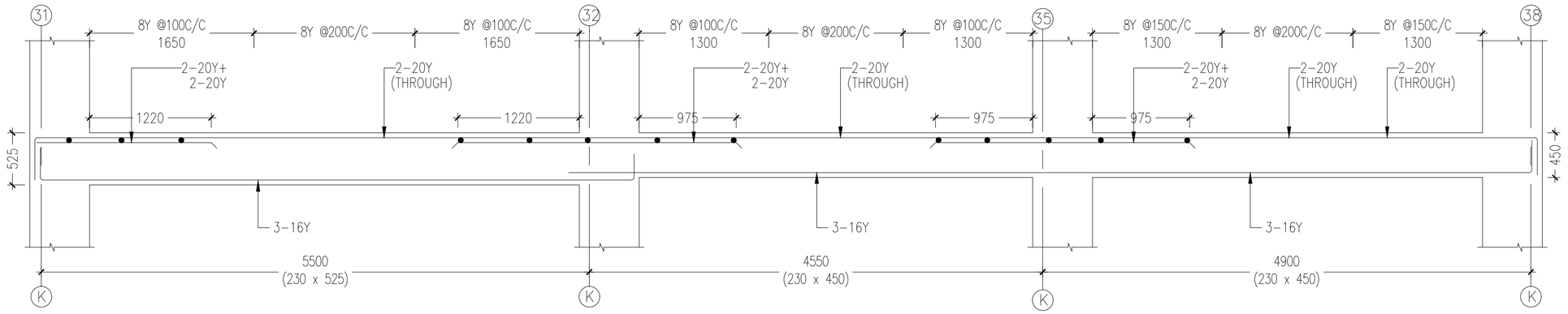
DRAWING TITLE:
SECOND FLOOR ROOF BEAM DETAILS
SHEET (02 OF 03)

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
NO.10, 9th STREET,
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CHENNAI - 600078.
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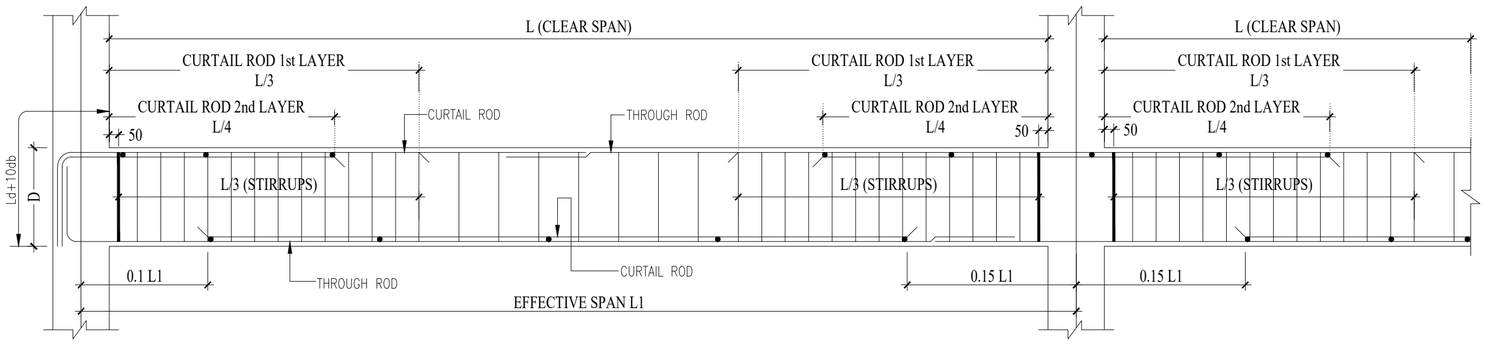
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SHEET SIZE	A3	APPROVED BY	AKR
DESIGNED BY		AKR	



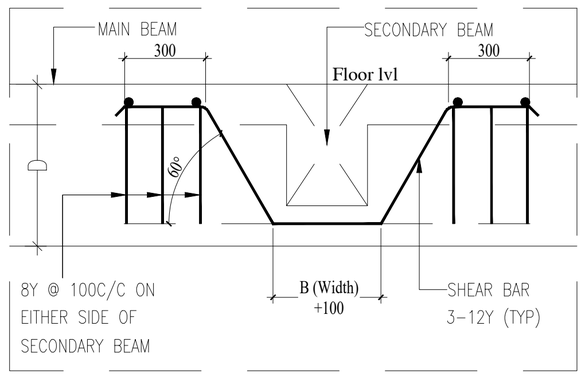
L.S DETAIL OF BEAM -SRB11



L.S DETAIL OF BEAM -SRB11a



TYPICAL L.S OF BEAM



TYPICAL SHEAR REINFORCEMENT DETAILS

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-17 | DATE : 19-02-2025

CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
SECOND FLOOR ROOF BEAM DETAILS
SHEET (03 OF 03)

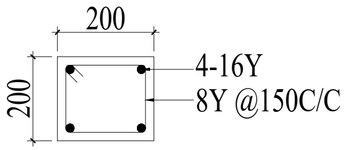
STRUCTURAL CONSULTANT:

AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
N0.10, 9th STREET,
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email : akr@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 75	DRAWN BY	NPK
SHEET SIZE	A3	APPROVED BY	AKR
DESIGNED BY		AKR	

THIRD FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
TRB1	200x450	2-12Y 8Y @200C/C 2-16Y+ 1-12Y	2-12Y+2-16Y 8Y @100C/C 2-16Y+ 1-12Y
TRB2	200x450	2-12Y 8Y @200C/C 2-12Y+ 1-16Y	2-12Y+2-16Y 8Y @100C/C 2-12Y+ 1-16Y
TRB3	200x450	2-16Y 8Y @200C/C 2-12Y+ 1-16Y	2-16Y+2-25Y 8Y @100C/C 2-12Y+ 1-16Y
TRB4	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y 8Y @200C/C 3-12Y
TRB5	200x375	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y 8Y @150C/C 2-16Y
TRB6	200x450	2-20Y+2-25Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y
TRB7	REFER L.S		
TRB8	REFER L.S		
TRB9	200x450	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y
TRB10	REFER L.S		
TRB11	REFER L.S		
TRB12	200x600	2-20Y+2-25Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y



DETAIL OF NFC

THIRD FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
TRB13	200x450	2-20Y 8Y @200C/C 2-16Y+2-20Y	2-20Y+2-20Y 8Y @100C/C 2-16Y
TRB14	200x600	2-25Y+2-25Y 10Y @100C/C 2-16Y+1-20Y	2-25Y+2-25Y 10Y @100C/C 2-16Y+1-20Y
TRB15	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y 8Y @150C/C 2-16Y
TRB16	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y+2-16Y 8Y @100C/C 2-16Y
TRB17	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y+1-16Y 8Y @100C/C 2-16Y
TRB18	200x450	2-12Y 8Y @200C/C 2-16Y+2-16Y	2-12Y 8Y @150C/C 2-16Y
TRB19	200x450	2-20Y+2-20Y 8Y @200C/C 2-16Y+1-12Y	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y
TRB20	200x450	2-16Y 8Y @200C/C 3-16Y	2-16Y+2-16Y 8Y @100C/C 3-16Y
TRB21	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y 8Y @200C/C 2-12Y+1-16Y
TRB22	200x450	2-16Y 8Y @200C/C 2-12Y+2-16Y	2-16Y+2-16Y 8Y @100C/C 2-12Y+2-16Y

THIRD FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
TRB23	200x450	2-16Y 8Y @200C/C 2-16Y+2-16Y	2-16Y+2-25Y 8Y @100C/C 2-16Y
TRB24	200x525	2-20Y 8Y @200C/C 3-16Y	2-20Y+2-25Y 8Y @100C/C 3-16Y
TRB25	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y+2-16Y 8Y @100C/C 2-12Y+1-16Y
TRB26	200x450	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y+2-16Y 8Y @100C/C 2-16Y+1-16Y
TRB27	200x450	2-20Y+2-20Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y
TRB28	200x450	2-20Y 8Y @200C/C 3-20Y	2-20Y+2-20Y 8Y @100C/C 3-20Y
TRB29	200x300	2-12Y 8Y @100C/C 3-16Y	2-12Y 8Y @100C/C 3-16Y
TRB30	200x450	2-16Y 8Y @200C/C 2-20Y+1-16Y	2-16Y+2-20Y 8Y @100C/C 2-20Y+1-16Y
TRB31	200x275	2-12Y 8Y @150C/C 2-12Y	2-12Y 8Y @150C/C 2-12Y
TRB32	200x600	2-16Y 8Y @200C/C 2-20Y+1-20Y	2-16Y+2-20Y 8Y @100C/C 2-20Y
TRB33	200x450	2-16Y 8Y @200C/C 2-20Y+2-20Y	2-16Y+2-20Y 8Y @100C/C 2-20Y

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-18 | DATE : 19-02-2025

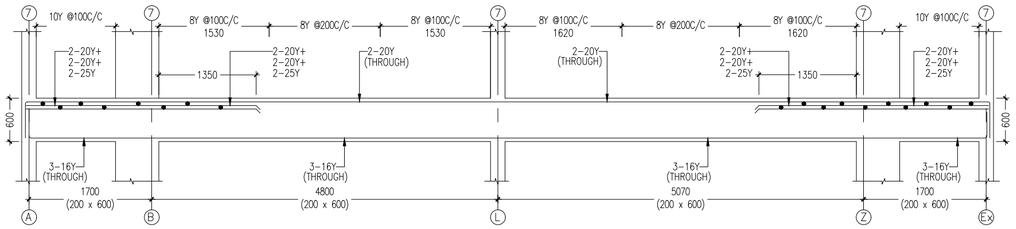
CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

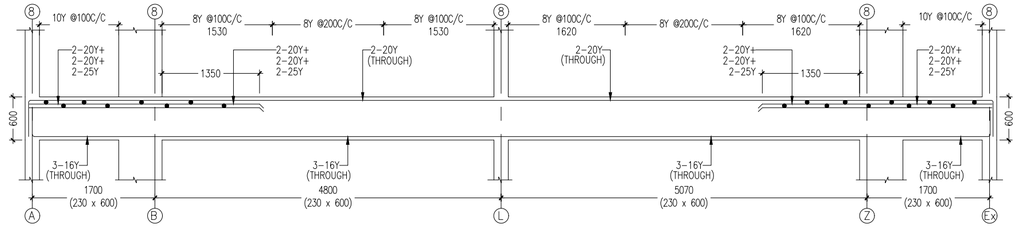
DRAWING TITLE:
FOURTH FLOOR ROOF BEAM DETAILS
SHEET (01 OF 03)

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

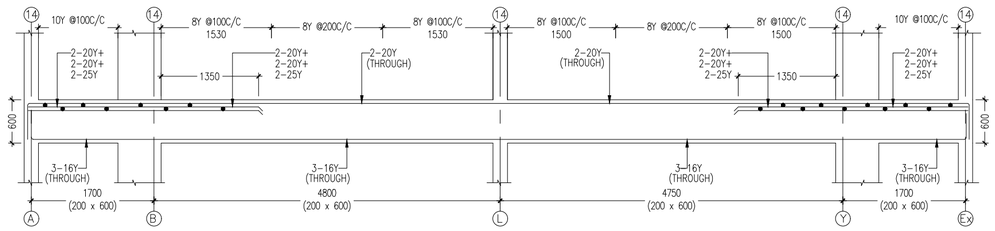
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SHEET SIZE	A2	APPROVED BY	AKR
DESIGNED BY		AKR	



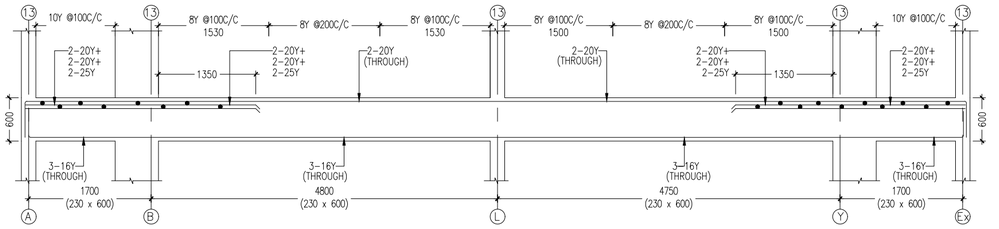
L.S DETAIL OF BEAM -TRB7



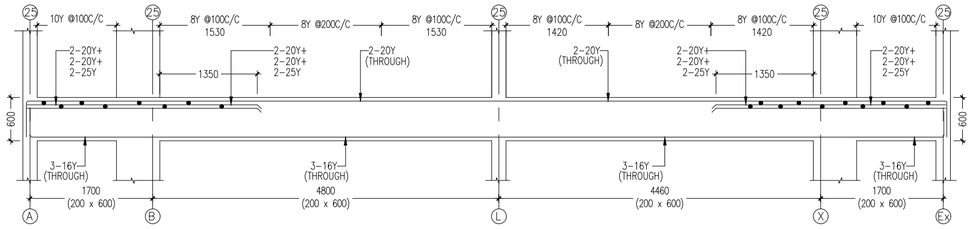
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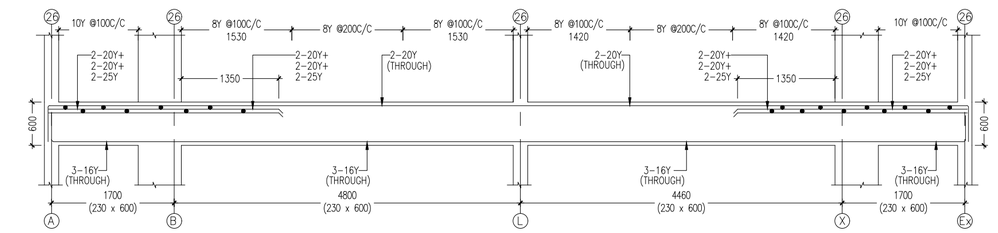
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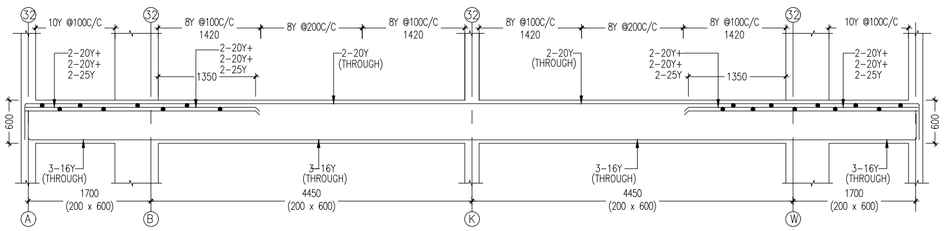
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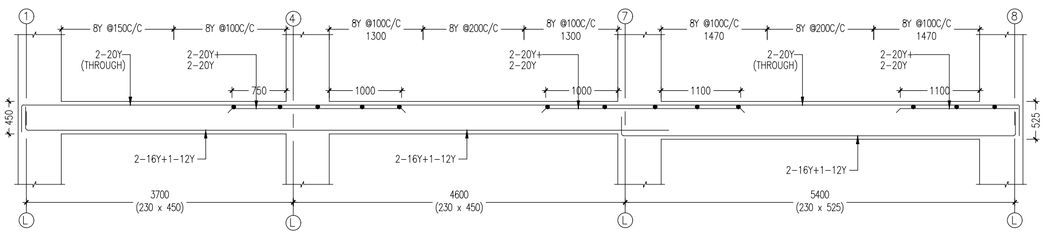
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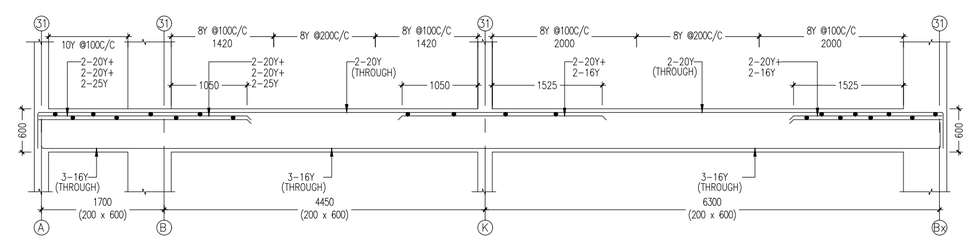
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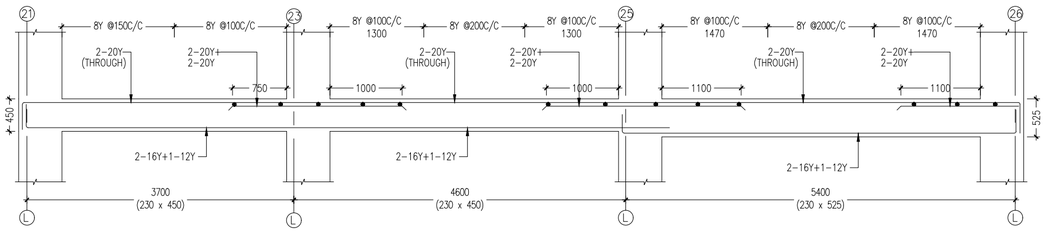
L.S DETAIL OF BEAM -TRB7c



L.S DETAIL OF BEAM -TRB10



L.S DETAIL OF BEAM -TRB8c



L.S DETAIL OF BEAM -TRB10a

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-19 | DATE : 19-02-2025

CLIENT:
M/S. JONES FOUNDATION

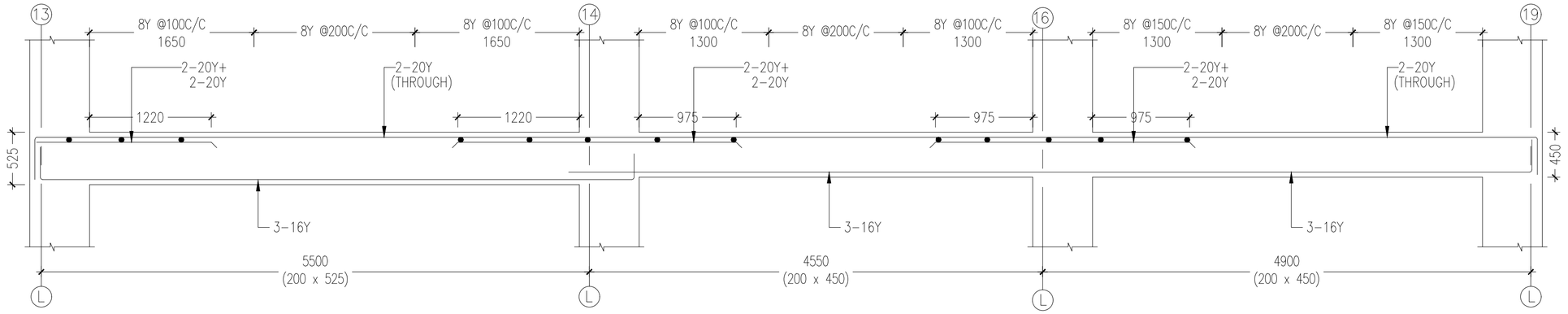
PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
THIRD FLOOR ROOF BEAM DETAILS
SHEET (02 OF 03)

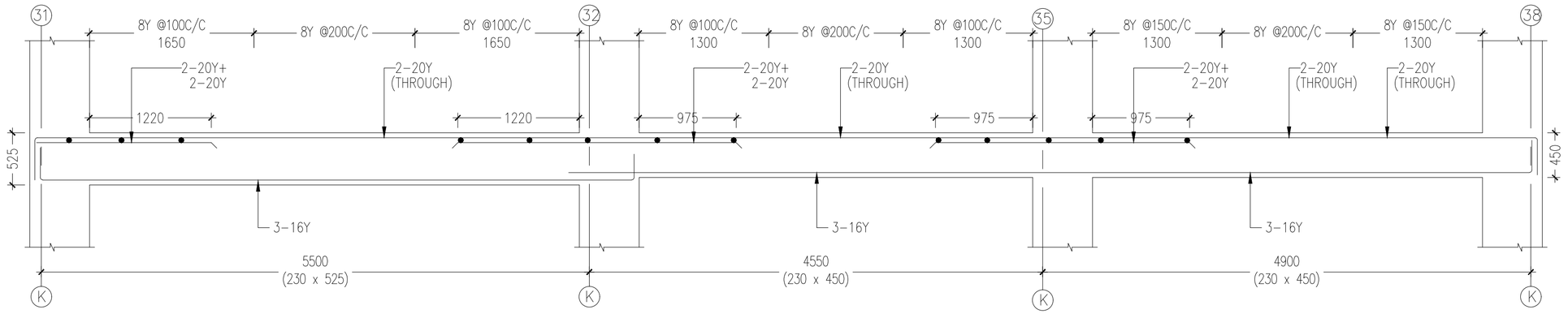
STRUCTURAL CONSULTANT:

AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

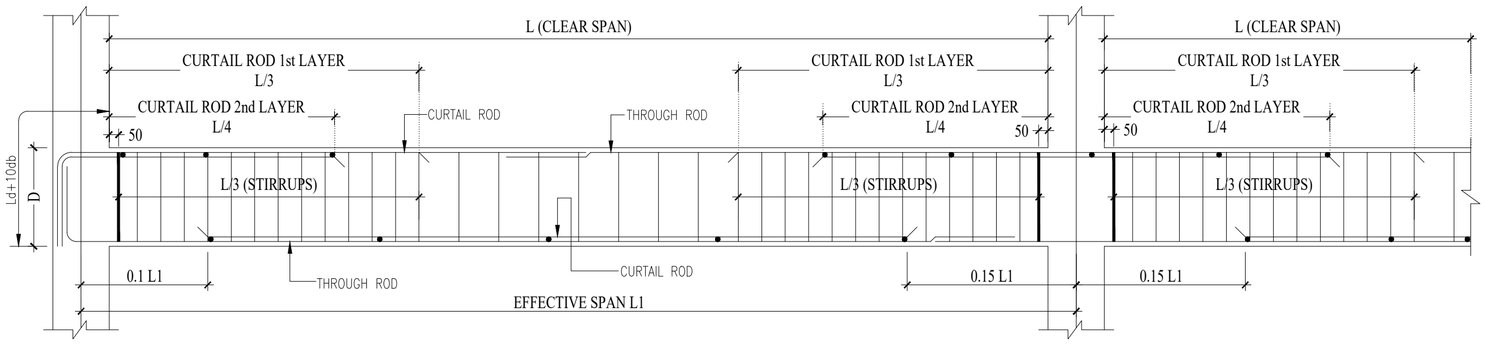
SCALE	1 : 85	DRAWN BY	NPK
SHEET SIZE	A3	APPROVED BY	AKR
DESIGNED BY		AKR	



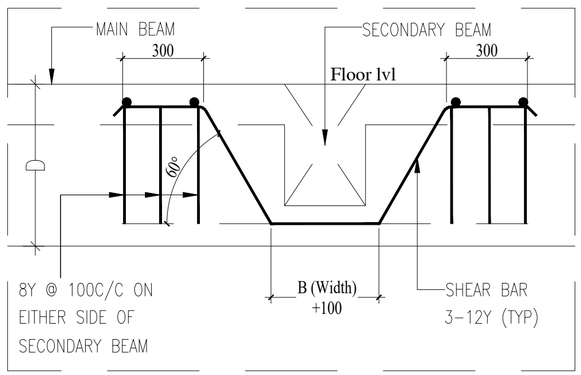
L.S DETAIL OF BEAM -TRB11



L.S DETAIL OF BEAM -TRB11a



TYPICAL L.S OF BEAM



TYPICAL SHEAR REINFORCEMENT DETAILS

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
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   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-20 | DATE : 19-02-2025

CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
THIRD FLOOR ROOF BEAM DETAILS
SHEET (03 OF 03)

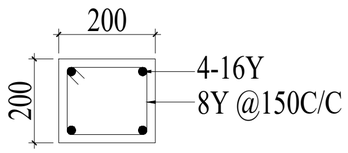
STRUCTURAL CONSULTANT:

AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
N0.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
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email : akr@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 75	DRAWN BY	NPK
SHEET SIZE	A3	APPROVED BY	AKR
DESIGNED BY		AKR	

FOURTH FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB1	200x450	2-12Y 8Y @200C/C 2-16Y+ 1-12Y	2-12Y+2-16Y 8Y @100C/C 2-16Y+ 1-12Y
FRB2	200x450	2-12Y 8Y @200C/C 2-12Y+ 1-16Y	2-12Y+2-16Y 8Y @100C/C 2-12Y+ 1-16Y
FRB3	200x450	2-16Y 8Y @200C/C 2-12Y+ 1-16Y	2-16Y+2-25Y 8Y @100C/C 2-12Y+ 1-16Y
FRB4	200x450	2-12Y 8Y @200C/C 3-12Y	2-12Y 8Y @200C/C 3-12Y
FRB5	200x375	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y 8Y @150C/C 2-16Y
FRB6	200x450	2-20Y+2-25Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y
FRB7	REFER L.S		
FRB8	REFER L.S		
FRB9	200x450	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y
FRB10	REFER L.S		
FRB11	REFER L.S		
FRB12	200x600	2-20Y+2-25Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y



DETAIL OF NFC

FOURTH FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB13	200x450	2-20Y 8Y @200C/C 2-16Y+2-20Y	2-20Y+2-20Y 8Y @100C/C 2-16Y
FRB14	200x600	2-25Y+2-25Y 10Y @100C/C 2-16Y+1-20Y	2-25Y+2-25Y 10Y @100C/C 2-16Y+1-20Y
FRB15	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y 8Y @150C/C 2-16Y
FRB16	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y+2-16Y 8Y @100C/C 2-16Y
FRB17	200x450	2-16Y 8Y @200C/C 2-16Y+1-16Y	2-16Y+1-16Y 8Y @100C/C 2-16Y
FRB18	200x450	2-12Y 8Y @200C/C 2-16Y+2-16Y	2-12Y 8Y @150C/C 2-16Y
FRB19	200x450	2-20Y+2-20Y 8Y @200C/C 2-16Y+1-12Y	2-20Y+2-20Y 8Y @100C/C 2-16Y+1-12Y
FRB20	200x450	2-16Y 8Y @200C/C 3-16Y	2-16Y+2-16Y 8Y @100C/C 3-16Y
FRB21	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y 8Y @200C/C 2-12Y+1-16Y
FRB22	200x450	2-16Y 8Y @200C/C 2-12Y+2-16Y	2-16Y+2-16Y 8Y @100C/C 2-12Y+2-16Y

FOURTH FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB23	200x450	2-16Y 8Y @200C/C 2-16Y+2-16Y	2-16Y+2-25Y 8Y @100C/C 2-16Y
FRB24	200x525	2-20Y 8Y @200C/C 3-16Y	2-20Y+2-25Y 8Y @100C/C 3-16Y
FRB25	200x450	2-16Y 8Y @200C/C 2-12Y+1-16Y	2-16Y+2-16Y 8Y @100C/C 2-12Y+1-16Y
FRB26	200x450	2-12Y 8Y @200C/C 2-16Y+1-16Y	2-12Y+2-16Y 8Y @100C/C 2-16Y+1-16Y
FRB27	200x450	2-20Y+2-20Y 10Y @100C/C 3-16Y	2-20Y+2-25Y 10Y @100C/C 3-16Y
FRB28	200x450	2-20Y 8Y @200C/C 3-20Y	2-20Y+2-20Y 8Y @100C/C 3-20Y
FRB29	200x300	2-12Y 8Y @100C/C 3-16Y	2-12Y 8Y @100C/C 3-16Y
FRB30	200x450	2-16Y 8Y @200C/C 2-20Y+1-16Y	2-16Y+2-20Y 8Y @100C/C 2-20Y+1-16Y
FRB31	200x275	2-12Y 8Y @150C/C 2-12Y	2-12Y 8Y @150C/C 2-12Y
FRB32	200x600	2-16Y 8Y @200C/C 2-20Y+1-20Y	2-16Y+2-20Y 8Y @100C/C 2-20Y
FRB33	200x450	2-16Y 8Y @200C/C 2-20Y+2-20Y	2-16Y+2-20Y 8Y @100C/C 2-20Y

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-22 | DATE : 19-02-2025

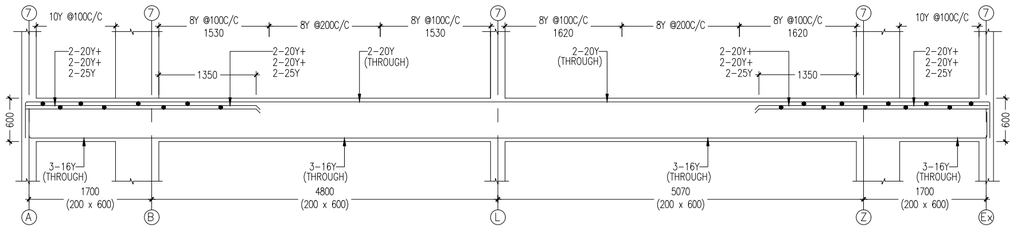
CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

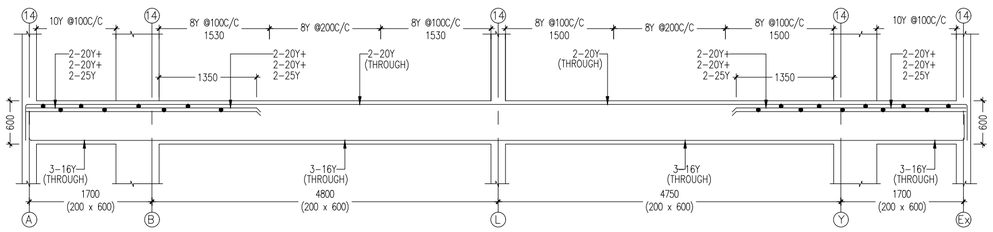
DRAWING TITLE:
FOURTH FLOOR ROOF BEAM DETAILS
SHEET (01 OF 03)

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

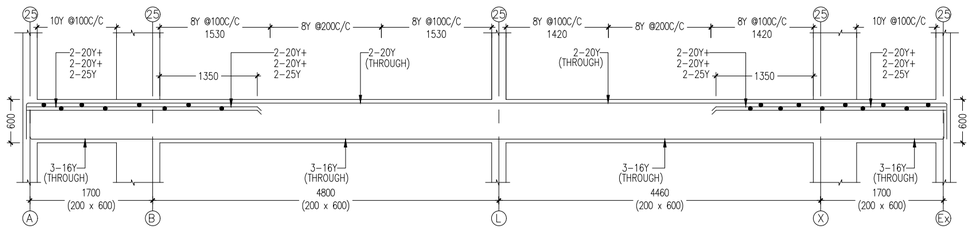
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SHEET SIZE	A2	APPROVED BY	AKR
DESIGNED BY		AKR	



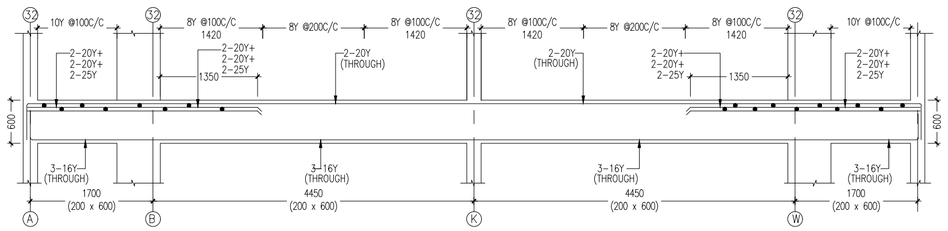
L.S DETAIL OF BEAM -FRB7



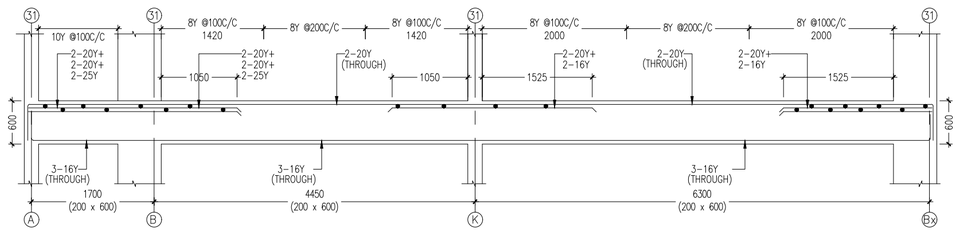
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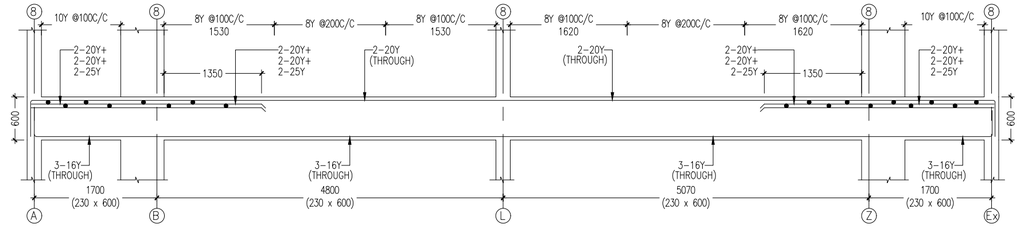
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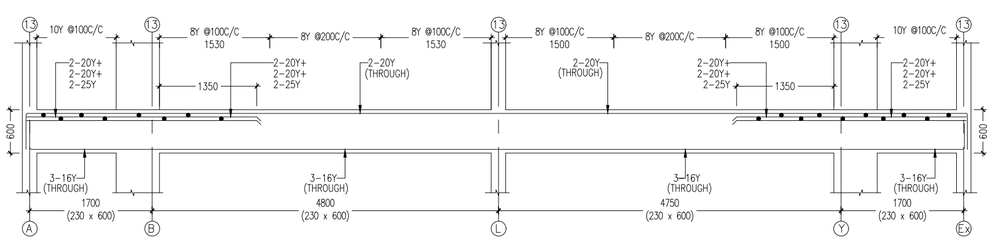
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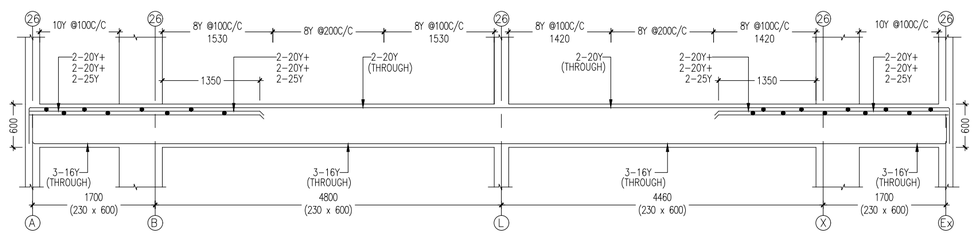
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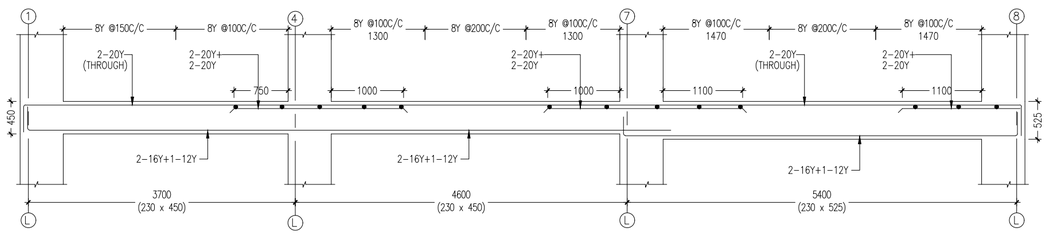
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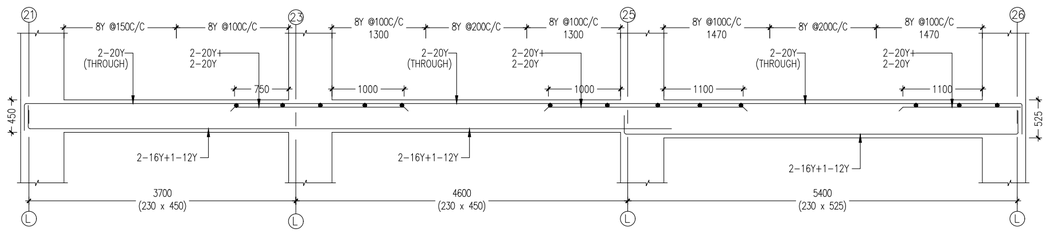
L.S DETAIL OF BEAM -FRB8a



L.S DETAIL OF BEAM -FRB8b



L.S DETAIL OF BEAM -FRB10



L.S DETAIL OF BEAM -FRB10a

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-23 | DATE : 19-02-2025

CLIENT:
M/S. JONES FOUNDATION

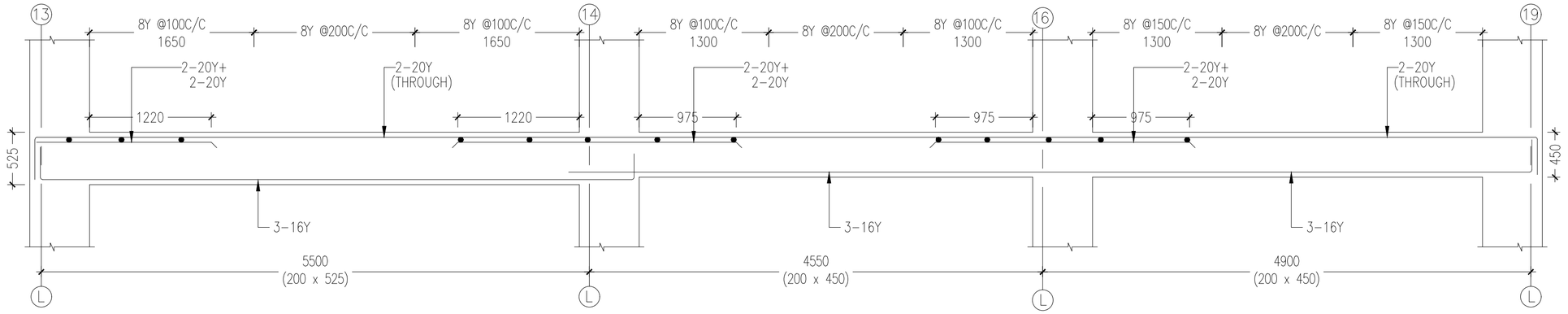
PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
FOURTH FLOOR ROOF BEAM DETAILS
SHEET (02 OF 03)

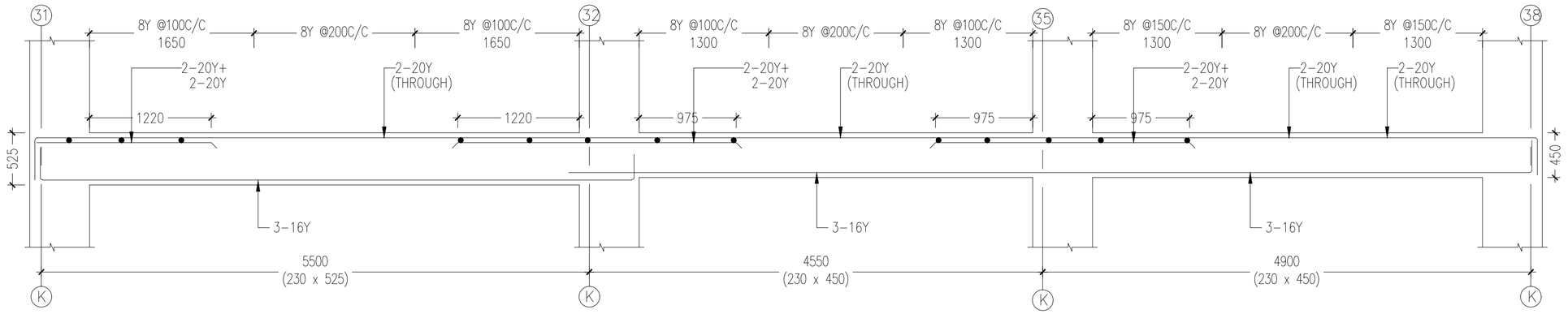
STRUCTURAL CONSULTANT:

AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

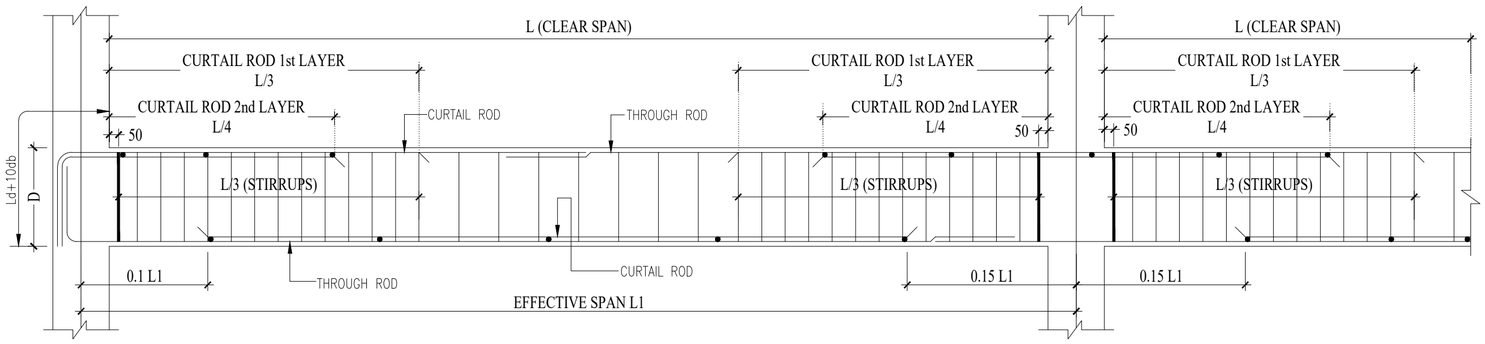
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SHEET SIZE	A3	APPROVED BY	AKR
DESIGNED BY		AKR	



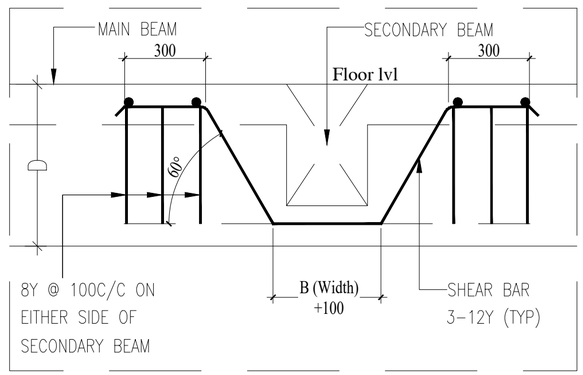
L.S DETAIL OF BEAM -FRB11



L.S DETAIL OF BEAM -FRB11a



TYPICAL L.S OF BEAM



TYPICAL SHEAR REINFORCEMENT DETAILS

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-24 | DATE : 19-02-2025

CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
FOURTH FLOOR ROOF BEAM DETAILS
SHEET (03 OF 03)

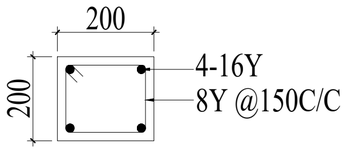
STRUCTURAL CONSULTANT:

AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
N0.10, 9th STREET,
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email : akr@akrconsultants.com
Mob : +91 9994160046

SCALE	1 : 75	DRAWN BY	NPK
SHEET SIZE	A3	APPROVED BY	AKR
DESIGNED BY		AKR	

FIFTH FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB1	200x450	200 / 450 / 2-12Y / 8Y @200C/C / 2-16Y+ 1-12Y	200 / 450 / 2-12Y+2-16Y / 8Y @100C/C / 2-16Y+ 1-12Y
FRB2	200x450	200 / 450 / 2-12Y / 8Y @200C/C / 2-12Y+ 1-16Y	200 / 450 / 2-12Y+2-16Y / 8Y @100C/C / 2-12Y+ 1-16Y
FRB3	200x450	200 / 450 / 2-16Y / 8Y @200C/C / 2-12Y+ 1-16Y	200 / 450 / 2-16Y+2-25Y / 8Y @100C/C / 2-12Y+ 1-16Y
FRB4	200x450	200 / 450 / 2-12Y / 8Y @200C/C / 3-12Y	200 / 450 / 2-12Y / 8Y @200C/C / 3-12Y
FRB5	200x375	200 / 375 / 2-12Y / 8Y @200C/C / 2-16Y+1-16Y	200 / 375 / 2-12Y / 8Y @150C/C / 2-16Y
FRB6	200x450	200 / 450 / 2-20Y+2-25Y / 10Y @100C/C / 3-16Y	200 / 450 / 2-20Y+2-25Y / 10Y @100C/C / 3-16Y
FRB7	REFER L.S		
FRB8	REFER L.S		
FRB9	200x450	200 / 450 / 2-20Y+2-20Y / 8Y @100C/C / 2-16Y+1-12Y	200 / 450 / 2-20Y+2-20Y / 8Y @100C/C / 2-16Y+1-12Y
FRB10	REFER L.S		
FRB11	REFER L.S		
FRB12	200x600	200 / 600 / 2-20Y+2-25Y / 10Y @100C/C / 3-16Y	200 / 600 / 2-20Y+2-25Y / 10Y @100C/C / 3-16Y



DETAIL OF NFC

FIFTH FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB13	200x450	200 / 450 / 2-20Y / 8Y @200C/C / 2-16Y+2-20Y	200 / 450 / 2-20Y+2-20Y / 8Y @100C/C / 2-16Y
FRB14	200x600	200 / 600 / 2-25Y+2-25Y / 10Y @100C/C / 2-16Y+1-20Y	200 / 600 / 2-25Y+2-25Y / 10Y @100C/C / 2-16Y+1-20Y
FRB15	200x450	200 / 450 / 2-16Y / 8Y @200C/C / 2-16Y+1-16Y	200 / 450 / 2-16Y / 8Y @150C/C / 2-16Y
FRB16	200x450	200 / 450 / 2-16Y / 8Y @200C/C / 2-16Y+1-16Y	200 / 450 / 2-16Y+2-16Y / 8Y @100C/C / 2-16Y
FRB17	200x450	200 / 450 / 2-16Y / 8Y @200C/C / 2-16Y+1-16Y	200 / 450 / 2-16Y+1-16Y / 8Y @100C/C / 2-16Y
FRB18	200x450	200 / 450 / 2-12Y / 8Y @200C/C / 2-16Y+2-16Y	200 / 450 / 2-12Y / 8Y @150C/C / 2-16Y
FRB19	200x450	200 / 450 / 2-20Y+2-20Y / 8Y @200C/C / 2-16Y+1-12Y	200 / 450 / 2-20Y+2-20Y / 8Y @100C/C / 2-16Y+1-12Y
FRB20	200x450	200 / 450 / 2-16Y / 8Y @200C/C / 3-16Y	200 / 450 / 2-16Y+2-16Y / 8Y @100C/C / 3-16Y
FRB21	200x450	200 / 450 / 2-16Y / 8Y @200C/C / 2-12Y+1-16Y	200 / 450 / 2-16Y / 8Y @200C/C / 2-12Y+1-16Y
FRB22	200x450	200 / 450 / 2-16Y / 8Y @200C/C / 2-12Y+2-16Y	200 / 450 / 2-16Y+2-16Y / 8Y @100C/C / 2-12Y+2-16Y

FIFTH FLOOR ROOF BEAM DETAILS

TYPE	SIZE BxD	AT MIDSPAN	AT SUPPORT
FRB23	200x450	200 / 450 / 2-16Y / 8Y @200C/C / 2-16Y+2-16Y	200 / 450 / 2-16Y+2-25Y / 8Y @100C/C / 2-16Y
FRB24	200x525	200 / 525 / 2-20Y / 8Y @200C/C / 3-16Y	200 / 525 / 2-20Y+2-25Y / 8Y @100C/C / 3-16Y
FRB25	200x450	200 / 450 / 2-16Y / 8Y @200C/C / 2-12Y+1-16Y	200 / 450 / 2-16Y+2-16Y / 8Y @100C/C / 2-12Y+1-16Y
FRB26	200x450	200 / 450 / 2-12Y / 8Y @200C/C / 2-16Y+1-16Y	200 / 450 / 2-12Y+2-16Y / 8Y @100C/C / 2-16Y+1-16Y
FRB27	200x450	200 / 450 / 2-20Y+2-20Y / 10Y @100C/C / 3-16Y	200 / 450 / 2-20Y+2-25Y / 10Y @100C/C / 3-16Y
FRB28	200x450	200 / 450 / 2-20Y / 8Y @200C/C / 3-20Y	200 / 450 / 2-20Y+2-20Y / 8Y @100C/C / 3-20Y
FRB29	200x300	200 / 300 / 2-12Y / 8Y @100C/C / 3-16Y	200 / 300 / 2-12Y / 8Y @100C/C / 3-16Y
FRB30	200x450	200 / 450 / 2-16Y / 8Y @200C/C / 2-20Y+1-16Y	200 / 450 / 2-16Y+2-20Y / 8Y @100C/C / 2-20Y+1-16Y
FRB31	200x275	200 / 275 / 2-12Y / 8Y @150C/C / 2-12Y	200 / 275 / 2-12Y / 8Y @150C/C / 2-12Y
FRB32	200x600	200 / 600 / 2-16Y / 8Y @200C/C / 2-20Y+1-20Y	200 / 600 / 2-16Y+2-20Y / 8Y @100C/C / 2-20Y
FRB33	200x450	200 / 450 / 2-16Y / 8Y @200C/C / 2-20Y+2-20Y	200 / 450 / 2-16Y+2-20Y / 8Y @100C/C / 2-20Y

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
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   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
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9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

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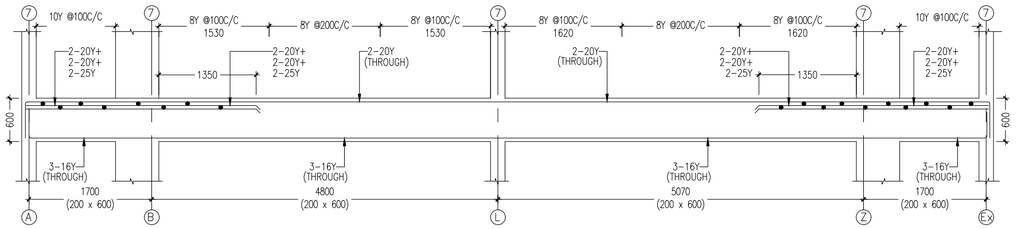
CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

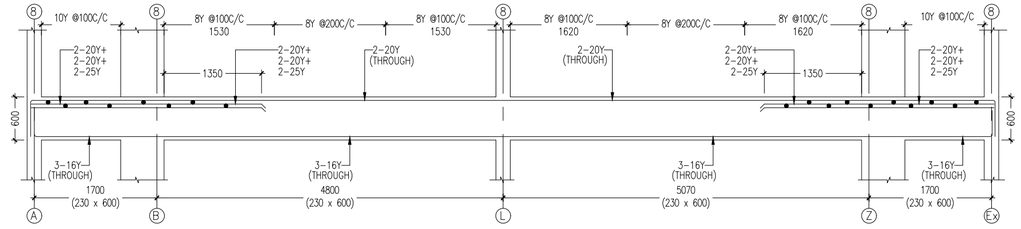
DRAWING TITLE:
FIFTH FLOOR ROOF BEAM DETAILS
SHEET (01 OF 03)

STRUCTURAL CONSULTANT:
AKR CONSULTANTS
Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
M/s. AKR CONSULTANTS,
NO.10, 9th STREET,
2nd SECTOR, K.K.NAGAR
CHENNAI - 600078.
email : akr@akrconsultants.com
Mob : +91 9994160046

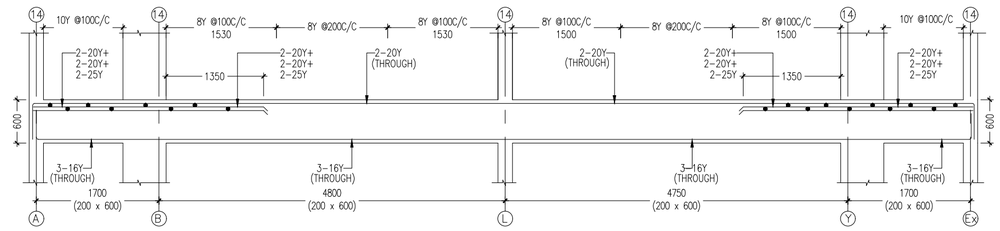
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SHEET SIZE	A2	APPROVED BY	AKR
DESIGNED BY		AKR	



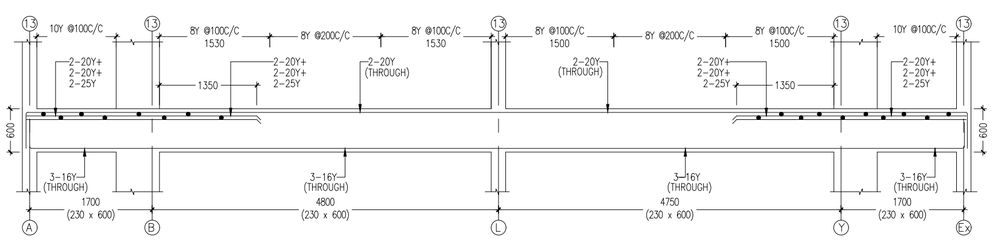
L.S DETAIL OF BEAM -FRB7



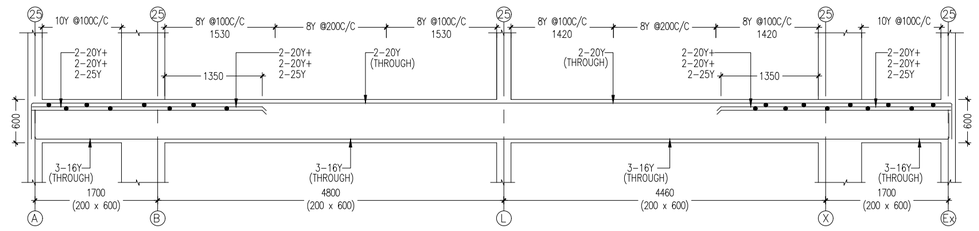
L.S DETAIL OF BEAM -FRB8



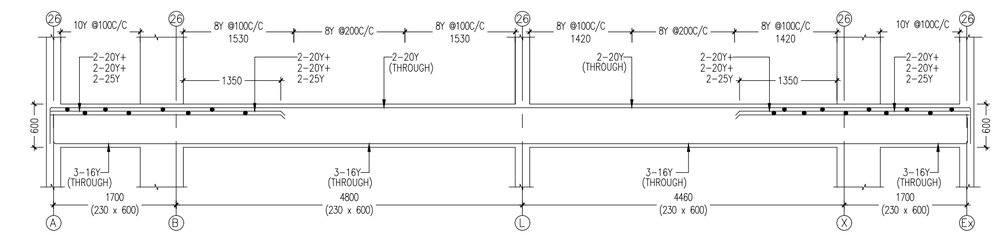
L.S DETAIL OF BEAM -FRB7a



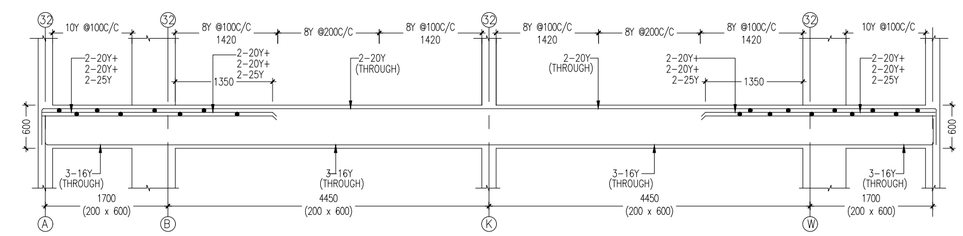
L.S DETAIL OF BEAM -FRB8a



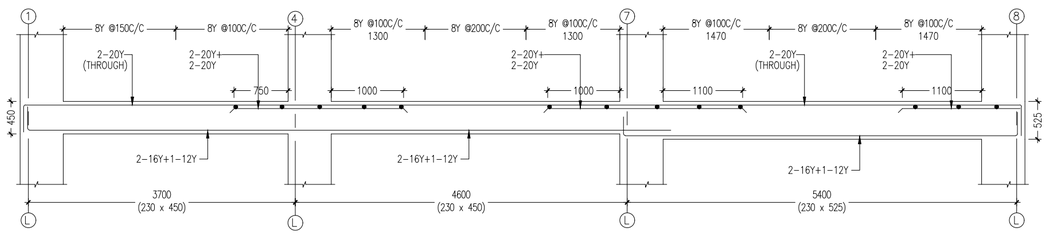
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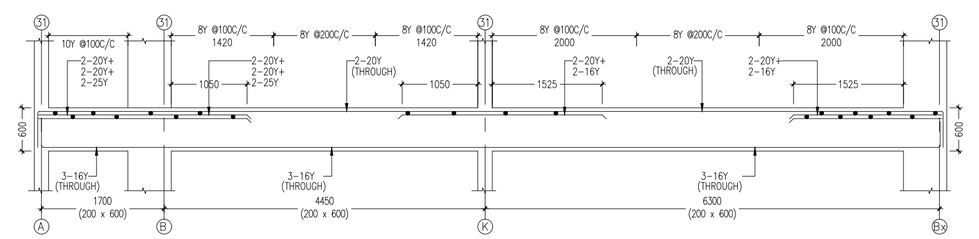
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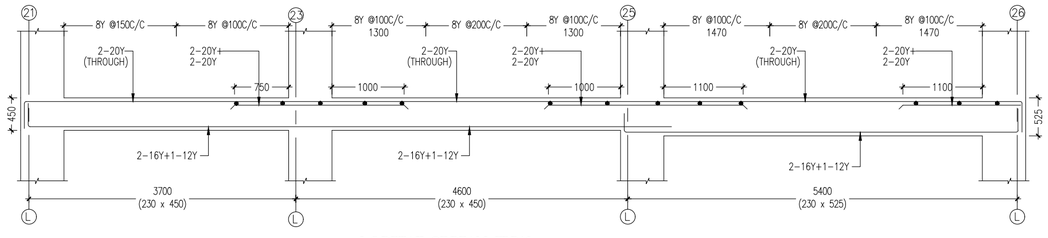
L.S DETAIL OF BEAM -FRB7c



L.S DETAIL OF BEAM -FRB10



L.S DETAIL OF BEAM -FRB8c



L.S DETAIL OF BEAM -FRB10a

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-26 | DATE : 19-02-2025

CLIENT:
M/S. JONES FOUNDATION

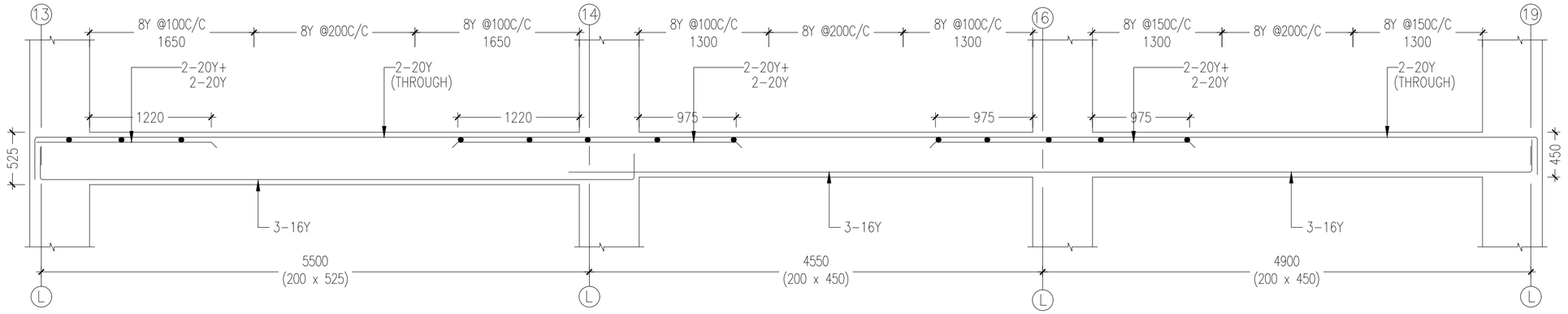
PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
FIFTH FLOOR ROOF BEAM DETAILS
SHEET (02 OF 03)

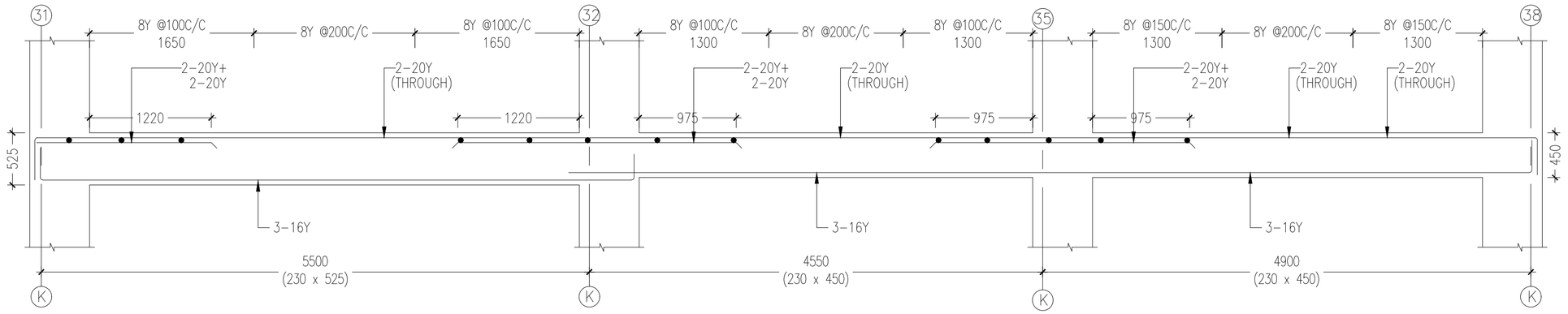
STRUCTURAL CONSULTANT:

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Er.I.R. ARUNKUMAAR,M.E.,M.I.E.,
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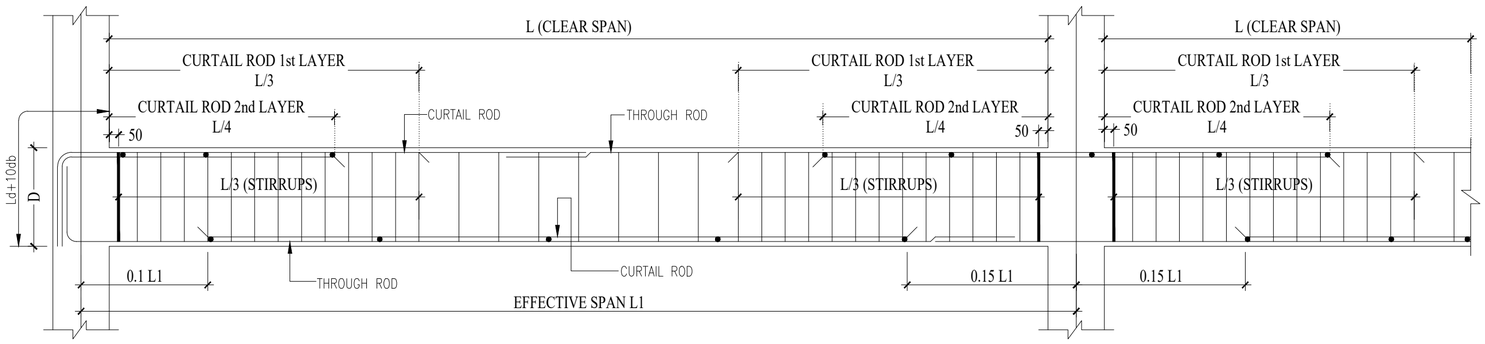
SCALE	1 : 85	DRAWN BY	NPK
SHEET SIZE	A3	APPROVED BY	AKR
DESIGNED BY		AKR	



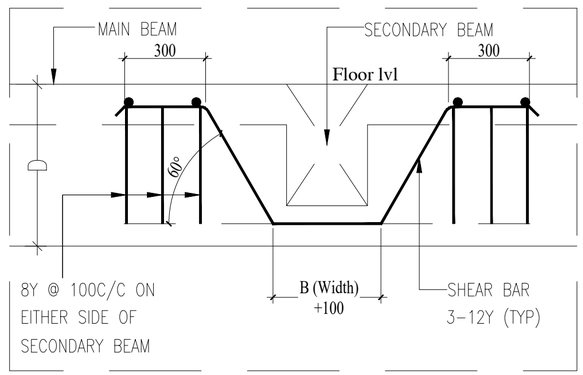
L.S DETAIL OF BEAM -FRB11



L.S DETAIL OF BEAM -FRB11a



TYPICAL L.S OF BEAM



TYPICAL SHEAR REINFORCEMENT DETAILS

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:

DRAWING NO : 1286-ST-S-27 | DATE : 19-02-2025

CLIENT:
M/S. JONES FOUNDATION

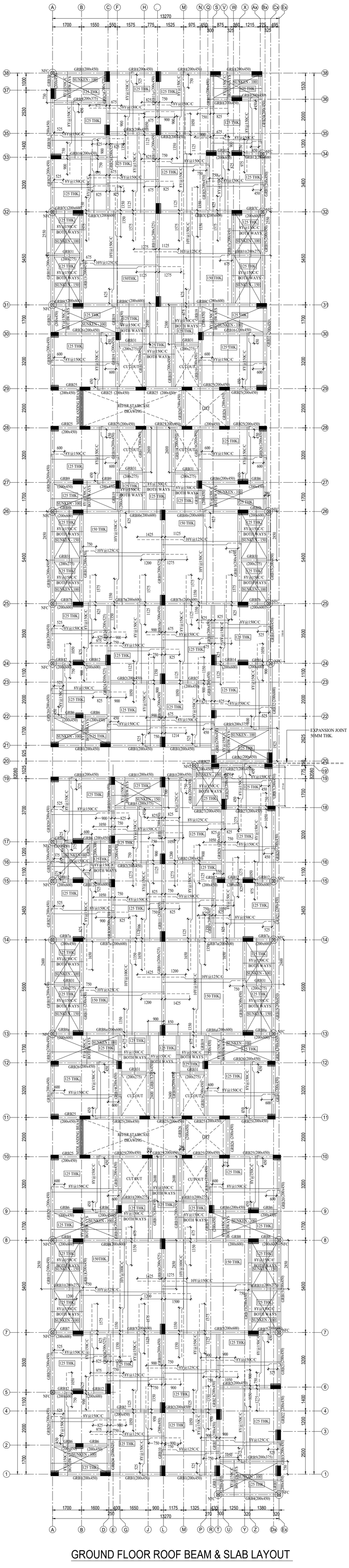
PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
FIFTH FLOOR ROOF BEAM DETAILS
SHEET (03 OF 03)

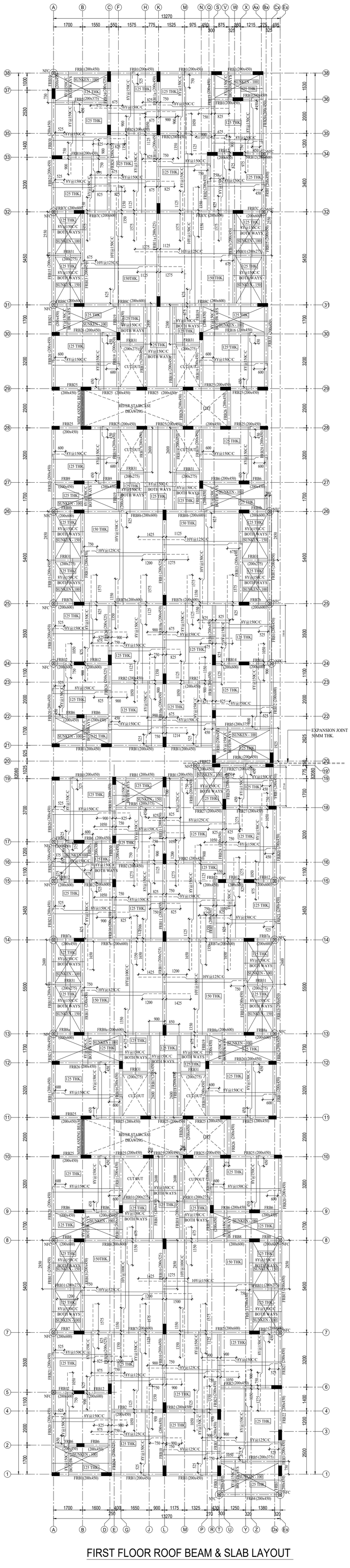
STRUCTURAL CONSULTANT:

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SCALE	1 : 75	DRAWN BY	NPK
SHEET SIZE	A3	APPROVED BY	AKR
DESIGNED BY		AKR	



GROUND FLOOR ROOF BEAM & SLAB LAYOUT



FIRST FLOOR ROOF BEAM & SLAB LAYOUT

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:
DRAWING NO : 1286-ST-S-07		DATE : 19-02-2025	

CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

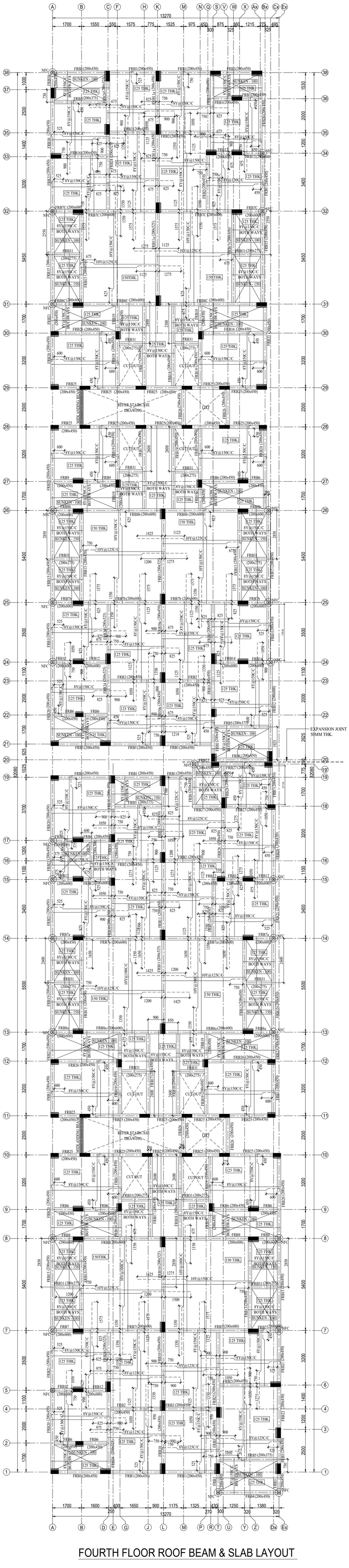
DRAWING TITLE:
GROUND AND FIRST FLOOR ROOF BEAM LAYOUT & DETAILS

N

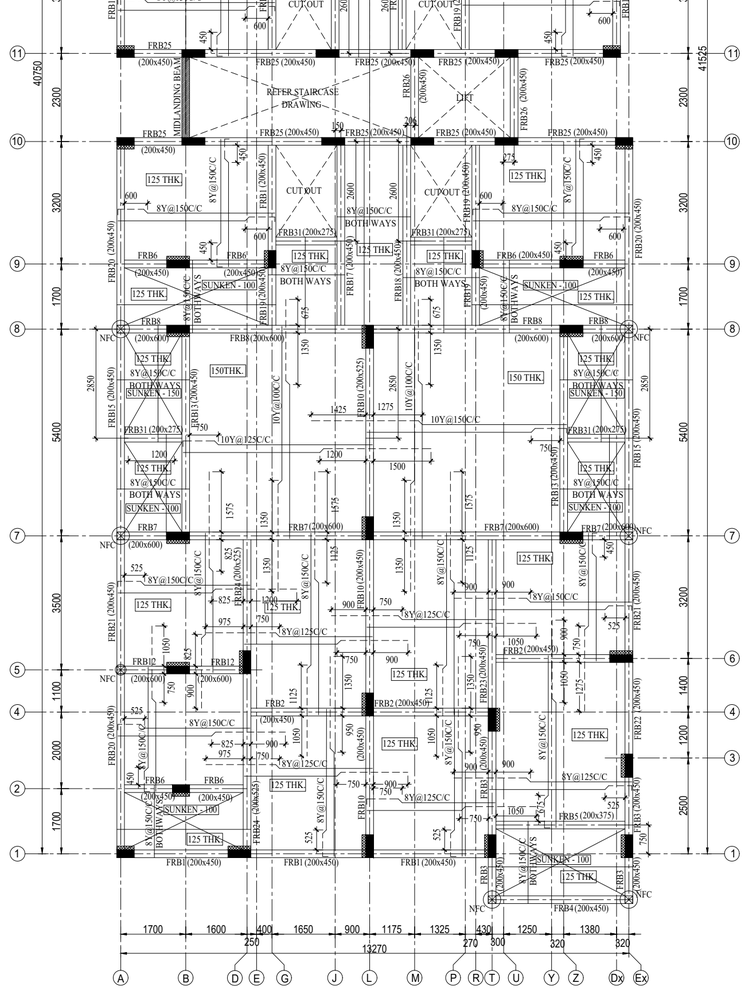
STRUCTURAL CONSULTANT:

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SCALE	1 : 85	DRAWN BY	RISWANA
SHEET SIZE	A0	APPROVED BY	AKR
DESIGNED BY		AKR	



FOURTH FLOOR ROOF BEAM & SLAB LAYOUT



FIFTH FLOOR ROOF BEAM & SLAB LAYOUT

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:
DRAWING NO : 1286-ST-S-21		DATE : 19-02-2025	

CLIENT:
M/S. JONES FOUNDATION

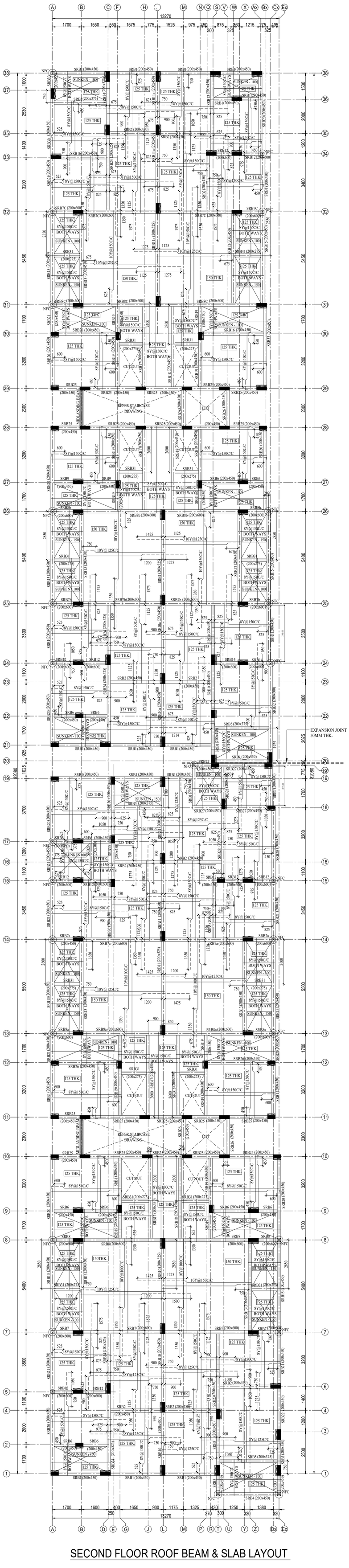
PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
FOURTH AND FIFTH FLOOR ROOF BEAM LAYOUT & DETAILS

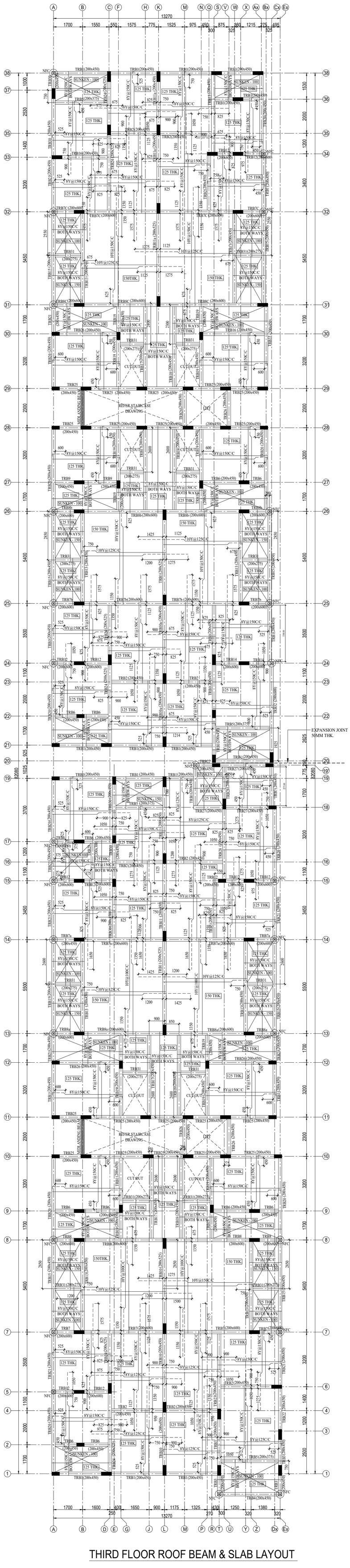
N

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SCALE	1 : 85	DRAWN BY	RISWANA
SHEET SIZE	A0	APPROVED BY	AKR
DESIGNED BY		AKR	



SECOND FLOOR ROOF BEAM & SLAB LAYOUT



THIRD FLOOR ROOF BEAM & SLAB LAYOUT

GENERAL NOTES :

1) All Dimensions are in Millimeters
2) Concrete Grade for Pile: M 30
   (Minimum cement content for Grade M30 = 400 Kg/m³)
   Concrete Grade for Pilecap, Column, Beam & Slab: M 25
   (Minimum cement content for Grade M 25 = 340 Kg/m³)
3) Steel Grade : Fe-500
   Confirming to I S 1786-1985
4) Clear cover :
   Pile = 50,
   Pile cap Top = 50,
   Pile cap Bottom = 100,
   Column Cover
   to the Main Reinforcement =40,
   R.C.C Wall = 25,
   Beam=25,
   Slab=20
5) Lap length
   Compression (Column) : 45 Ø
   Tension (Beam & Slab) : 57 Ø
6) The column center should coincide with center of footing.
7) Provide spacer bar at every 900 intervals
8) The Foundation and Columns are designed for Stilt+5 floors+Headroom&OHT only
9) Development length for Ld-47 Ø
10) Do not scale this drawing and follow architectural drawing dimensions only.
11) No changes shall be made without the Concern of the structural consultant.

FOR APPROVAL

REV:	DESCRIPTION:	BY:	DATE:
DRAWING NO : 1286-ST-S-14		DATE : 19-02-2025	

CLIENT:
M/S. JONES FOUNDATION

PROJECT TITLE:
PROPOSED CONSTUCTION OF APARTMENT BUILDING AT PADMAVATHY NAGAR, VELACHERY

DRAWING TITLE:
SECOND AND THIRD FLOOR ROOF BEAM LAYOUT & DETAILS

N

STRUCTURAL CONSULTANT:

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SCALE	1 : 85	DRAWN BY	RISWANA
SHEET SIZE	A0	APPROVED BY	AKR
DESIGNED BY		AKR	

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Certified EC, Patta, legal opinions, property verification, due diligence, litigation solutions, and legal heir certificates.

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Property Valuation & Cost Estimation

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Ownership, Compliance & Legal Verification

Encumbrance Certificate (EC) Search, Find Your SRO, Temple Property Check, WAQF Property Check, View Patta/Chitta, View FMB, Patta Analyzer, EC Analyzer

Zoning & Land Use Analysis

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

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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