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OFFICE OF THE EXECUTIVE ENGINEER.
STRUCTURAL QUALITY CONTROL
WING,
TAMILNADU URBAN HABITAT
DEVELOPMENT BOARD,
KAMARAJAR SALAI,
CHENNAI-05

STABILITY CERTIFICATE

This is to Certify that the Construction of 500 tenements at Gandhi Nagar scheme T.S.No.4, 4A of, Block No.7, 8 of Ayanavaram Village, Ayanavaram Taluk, Chennai District, Tamil Nadu which is structurally designed for G + 4 Floors assuming the live load of 200 kg/m^2 as per IS 875 are designed as per IS 456 Grade of Concrete will be M30 for Foundation M40 for Structural Precast members. The structure is also designed for the Seismic zone as per IS code. The structure design is Safe, Good, and Sound.

14/11/2024
Executive Engineer (A/c)

G. MAHENDIRAN, M.E.,
ASSISTANT EXECUTIVE ENGINEER
REGISTRATION No: SE/I/2024/4/0071
Registered Structural Engineer Grade-I (SE-I)
Tamil Nadu Urban Habitat Development Board
No. 5, Kamarajar Salai, Chennai-600 005.

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PILE LAYOUT-BLOCK-1&2

SCALE 1 : 200

Sd/- xxx
Chief Engineer
// True Copy //
5/3/2024
EXECUTIVE ENGINEER (I/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

28/2/24
Dr. K.P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025

MERAKI STRUCTURE COIMBATORE

REV.	DESCRIPTION	DATE
R0	ISSUED FOR APPROVAL	23-01-2024

CLIENT: TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD, No. 5 Kamarajar Salai, Chennai - 600005, Tamil Nadu. Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR: RAMALINGAM CONSTRUCTION COMPANY PVT LTD, #175/2 South State Bank Nagar, Chettipalayam, Erode - 638002, Tamil Nadu. Tel: 0424 2282369, Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT: METAPHOR Architects Private Limited

STRUCTURAL CONSULTANT: MERAKI STRUCTURE, COIMBATORE, TAMIL NADU 641035

PROJECT: PLAN SHOWING THE PROPOSED RECONSTRUCTION OF 08 BLOCKS - (G+4) FLOORS WITH 500 RESIDENTIAL UNITS AT **GANDHI NAGAR BLOCK-1&2** IN T.S.NO.4 OF BLOCK NO.7 AND T.S.NO.4A OF BLOCK NO. 8, AYANAVARAM VILLAGE, PURASAVAKAM PERAMBUR TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

PILE LAYOUT_BLOCK-1&2

PAPER SIZE:	A3
DRAWN DATE:	23-01-2024
PROJECT NO:	MS23035_GN-1&2
SHEET NO:	P001

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GENERAL NOTE & INFORMATIONS FOR STRUCTURE

1. GENERAL :

1.1 ALL DIMENSIONS ARE IN mm. UNLESS NOTED OTHERWISE (U.N.O)

1.2 FOLLOW WRITTEN DIMENSIONS ONLY AND DO NOT SCALE THE DRAWING.

1.3 DESIGN DEPARTMENT NOT RESPONSIBLE FOR ANY MISMATCHINGWRONG DETAILS FOLLOWED AT SITE OTHER THAN DETAILS BY STRUCTURAL DRAWINGS.

1.4 THE STRUCTURE IS DESIGNED AS LISTED BELOW :
GROUND FLOOR +4 FLOORS

2. ANY DISCREPANCY BETWEEN ARCHITECTURAL, MEP, SERVICES & STRUCTURAL DRAWING SHALL BE INTIMATED TO THIS OFFICE AND GOT RECONCILED BEFORE EXECUTION.

3. WATER USED FOR CONSTRUCTION PURPOSE SHALL BE AS PER RELEVANT CLAUSE OF I.S. 456: 2000.

4. NO CONCRETE SHALL BE CAST AT A TEMP. ABOVE 38°C & BELOW 10°C. UNLESS SPECIAL PRECAUTIONS AS PER RELEVANT I.S. CODES ARE TAKEN.

5. FOLLOW IS CODES RULES AS TO STIRRUPS, COLUMN TIES AND ANCHORAGES. DETAILS OF WEB REINFORCEMENT AND ANCHORAGES MUST BE CARRIED OUT ACCORDINGLY, UNLESS NOTED OTHERWISE (U.N.O).

6. ALL STEEL REINFORCEMENT SHALL BE OF HIGH YIELD STRENGTH TMT BARS CONFIRMING TO I.S.1786 WITH MIN. YIELD STRESS 0.2% PROOF STRESS OF 500 N PER SQ.mm. (GRADE Fe 500) MIN. ELONGATION ~~14.5%~~ 16% and Fe 550D Min elongation 14.5% Grade Fe 500D

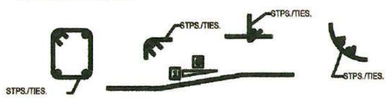
7. DISTANCE OF 1st STIRRUP FROM EDGE OF COLUMN LINE/BEAM LINE SHALL BE 50mm MAX.

8. NO PENETRATION OF PIPES/DUCTS & CONDUITS ALLOWED IN STRUCTURAL MEMBERS UNLESS EXPLICITLY SHOWN ON THE DRAWINGS.

9. EXPANSION JOINT NOT PROVIDED. THERMAL ANALYSIS IS PERFORMED.

10. ALL PREEMBEDDED PIPES SHALL BE PREFERABLY WITHOUT JOINTS AND OF MATERIAL THAT WILL BE DURABLE & NOT CORRODE OR LEAK OVER THE LIFE SPAN OF THE STRUCTURE TO PROVIDE CERTIFICATE OF QUALITY/TESTS ETC. AS APPLICABLE TO THE ENGINEER ON RECORD.

11. TYP. BARS AT SPLICES SHALL BE BENT OVER AT A SLOPE NO STEEPER THAN 1:6 (MAX.) TO AVOID EXTENSION BARS (SEE FIGURE BELOW) TIES DETAIL IN BEAM/WALLS/ COLUMN SHALL BE AS FOLLOWS.



12. DRAWING IS INTENDED FOR STABILITY OF COMPLETED STRUCTURE (CONTD.) SITE TEAM IS RESPONSIBLE FOR STABILITY DURING CONSTRUCTION.

13. SITE/ERECTION TEAM SHALL FAMILIARIZE HIMSELF WITH ALL TYPICAL DETAILS OF THE PROJECT. DISCREPANCIES WITH PARTICULAR DETAILS SHALL BROUGHT TO THE ATTENTION OF DESIGN - INCHARGE OF WORKS PRIOR TO EXECUTION.

14. ALL MATERIALS SHALL BE CLEAN, RUST FREE AND STRAIGHTENED IF NECESSARY BEFORE BEING WORKED.

15. SUNKEN AREA MUST BE FILLED WITH LIGHT WEIGHT MATERIALS ONLY

16. LOADS CONSIDERED FOR ALL THE PERIPHERY WALLS ARE SOLID BLOCK WORKS WHERE THE INTERNAL WALLS ARE LIGHT WEIGHT AAC BLOCKS

17. LIFT AND STAIRCASE WALLS ARE OF RC STRUCTURAL WALLS UPTO THE PLINTH LEVEL

2. CRITERIA FOR DESIGN OF STRUCTURE :

2.1 THE CONCRETE DESIGN IS BASED ON IS : 456-2000. REAFFIRMED 2021

2.2 SUPER IMPOSED DEAD LOADS ARE BASED ON
IS : 875 (Part 01)-1987

2.3 LIVE LOADS ARE BASED ON
IS : 875 (Part 02)-1987

Live Loads :
1. Hall&kitchen = 2 kN/m2
2. Corridor = 3 kN/m2
3. Staircase = 3 kN/m2
4. Sunken = 1.5 kN/m2
5. Toilet = 2 kN/m2

2.4 WIND LOADS ARE BASED ON
IS : 875 (PART 03)-2015

a) Basic wind speed at 10.0m height for CHENNAI	}	: 50 m/sec.
b) Risk co-efficent for general structure, 50 years mean return period (k1)	}	: 1.0
c) Terrain, height & structure size factor (k2)	}	: 1.09
d) Topography factor (k3)	}	: 1.0
e) Cyclonic factor (k4)	}	: 1.0

2.5 SEISMIC LOADS ARE BASED ON
IS : 1893 (Part 01)-2016

a) Town/City		: CHENNAI
b) Seismic Zone		: III
c) Zone factor (Z) (Low intensity)	}	: 0.16
d) Importance factor (I) (Not an important building)	}	: 1.20
e) Response Reduction Factor (R), with SMRF	}	: 5.00

2.5 SNOW LOAD NOT CONSIDERED FOR DESIGN OF STRUCTURE.

2.6 SPECIAL LOADS LIKE EXPLOSIONS, FALLING OF AIRCRAFT, VIBRATION DUE TO EQUIPMENTS ON STRUCTURE NOT BEEN ACCOUNTED FOR DESIGN OF STRUCTURES

3. SOIL DATA & WATER TABLE :

3.1 SAFE LOAD CARRYING CAPACITY OF BORED CAST-IN SITU PILES RESTING IN COMPLETELY WEATHERED SOFT ROCK IS AS FOLLOWS FOR 450mm DIA PILE
VERTICAL LOAD CARRYING CAPACITY - 690kN
PULL OUT CAPACITY - 350kN
LATERAL LOAD CARRYING CAPACITY - 51kN

3.2 GRADE OF CONCRETE :- FOR SUPER STRUCTURE [BEAM,COLUMN,WALL,SLAB] - M40
FOR SUB-STRUCTURE [PILE,PILE CAP,PLINTH & GRADE BEAM] - M30

3.3 SOIL REPORT NO:~~07-2021~~ CUBE Soil report dt. 24.08.2022

4. REINFORCING STEEL :

4.1 ALL REINFORCEMENT STEEL SHALL CONFORM TO IS:1786 -1985
HAVING MIN. YIELD STRENGTH OF 415/500/550 N/sq.mm

5. LAPPING(SUB-STRUCTURE) :

5.1 HOOPS SHALL BE PROVIDED OVER THE ENTIRE SPLICE LENGTH AT A SPACING NOT EXCEEDING 150MM.

5.2 THE LAP LENGTH SHALL NOT BE LESS THAN BAR DEVELOPMENT LENGTH IN TENSION.

5.3. NOT MORE THAN HALF OF TOTAL COL. BARS SHALL BE LAPPED AT ANY SECTION.
LAPS SHALL BE STAGGERED AND AVOIDED AT THE PLACES OF MAX. STRESS. A LAP SHALL BE CONSIDERED STAGGERED IF THE CENTRE TO CENTRE DISTANCE OF THE LAP IS NOT LESS THAN 1.3 TIMES THE DEVELOPMENT LENGTH AS MENTIONED ELSEWHERE IN THESE NOTES.

5.4 THE LAP SHALL NOT BE PROVIDED

a. WITHIN THE JOINT

b. WITHIN A DISTANCE OF 2d FROM JOINT FACE

c. WITH IN A QUARTER LENGTH OF MEMBER WHERE FLEXURAL YIELDING MAY GENERALLY OCCUR UNDER THE EFFECT OF EARTH QUAKE FORCE.

d. NOT MORE THAN 50% OF BARS SPLICED AT ONE SECTION

e. USE OF WELD SPLICES & MECHANICAL CONNECTIONS SHALL BE USED AS PER I.S 456-2000.

6. CLEAR COVER TO MAIN REINFORCEMENT :

6.1 NOMINAL COVER TO MEET 2 Hours FIRE RESISTANCE

PILE	:	60mm
PILE CAP	:	60mm
FOOTING	:	50mm
RAFT TOP	:	75mm
RAFT BOTTOM	:	75mm
RAFT SIDES	:	75mm
LINTELS	:	20mm
BEAMS	:	30mm
COLUMNS	:	40mm
SLABS	:	25mm

60 mm

6.2 NOMINAL COVER TO MEET DURABILITY REQUIREMENTS

EXPOSURE	:	NOMINAL CONCRETE COVER NOT LESS THAN
MILD	:	20mm
MODERATE	:	30mm
SEVERE	:	45mm
VERY SEVERE	:	50mm
EXTREME	:	75mm

6.3 P.V.C. COVER BLOCKS OF APPROVED MAKE SHALL BE USED IN CONCRETE.

7. DEVELOPMENT AND ANCHORAGE LENGTHS :

7.1 THE FOLLOWING DEVELOPMENT LENGTHS SHALL BE PROVIDED FOR REINFORCEMENT IN MM.

FOR 'T'	BAR IN TENSION M30 45.31Ø	BAR IN COMPRESSION M30 36.25Ø	BAR IN TENSION M40 35.77Ø	BAR IN COMPRESSION M40 28.62Ø
8	363	290	286	229
10	453	363	358	286
12	544	435	429	343
16	725	580	572	458
20	906	725	715	572
25	1133	906	894	715
32	1450	1160	1145	916
40	1813	1450	1431	1145

DEVELOPMENT LENGTH Ld IS GIVEN BY

(i) For Tension Bars: $Ld = \frac{\emptyset \times \sigma_s}{4 \times \tau_{bd}}$

(ii) For Compression Bars: $Ld = \frac{\emptyset \times \sigma_s}{4 \times 1.25 \times \tau_{bd}}$

Ø = Dia of bar
σ_s = Stress in the bar i.e., 0.87f_y.
f_y= characteristic strength of reinforcement.
τ_{bd}= Design Bond Stress as per clauses 26.2.1.1-IS 456 : 2000.

For deformed bars conforming to IS 1786 those values shall be increased by 60 percent.

7.2 LAPS FOR REINFORCEMENT IN COMPRESSION SHALL BE ACCOUNTED ONLY AS STRAIGHT LENGTHS AND NO HOOKS OR BENDS ARE ACCOUNTED FOR COMPRESSION LAPS OR ANCHORAGES.

7.3 STANDARD HOOKS OR BENDS SHALL BE PROVIDED WHERE NECESSARY IN TENSION REINFORCEMENTS IN BEAMS, COLUMNS, SLABS, ETC.
FOR BUNDLED BAR (2 BARS 1.1Ld,3 BARS 1.2Ld AND 4 BARS 1.33Ld).

7.4 ALL SPLICE (LAPS) FOR COLUMN REINFORCEMENTS SHALL BE PROVIDED ONLY AT THE TOP OF EACH FLOOR LEVEL UNLESS OTHERWISE SHOWN ON DRAWINGS AND SHALL NOT BE MORE THAN 8% STEEL.

7.5 LAPS SHALL BE STAGGERED AS INDICATED IN DRAWINGS.

8. WATER PROOFING

8.1 WATER PROOFING SHALL BE DONE FOR : OVERHEAD TANK, TOILET SLABS, TERRACE, AS PER TENDER SPECIFICATIONS.

9. CONSTRUCTION JOINTS

9.1 SLABS : AT MIDDLE ONE THIRD OF THE SPAN.

9.2 BEAMS : AT MIDDLE ONE THIRD OF THE SPAN. IF ANY CROSS BEAMS ARE LOCATED IN THIS REGION THE JOINT SHALL BE LOCATED TWO TIMES THE WIDTH OF THE BEAM AWAY FROM THE BEAM.

9.3 RETAINING WALL : AT THE JUNCTION OF THE WALL AND FOOTING WITH A KEY JOINT AND AT MIDDLE OF VERTICAL SPAN, VERTICAL JOINTS TO BE AVOIDED.

9.4 RAFT SLAB : AT MIDDLE ONE THIRD OF THE SPAN.

9.5 GENERAL : CONSTRUCTION JOINTS SHALL BE STRAIGHT

9.6 CANTILEVERS : CONSTRUCTION JOINT SHALL NOT BE PROVIDED IN CANTILEVERS.

10. ADMIXTURE

10.1 CONCRETE ADMIXTURES OF APPROVED MAKE SHALL BE USED TO IMPROVE WORKABILITY AND STRENGTH AS PER TENDER SPECIFICATIONS.

10.2 CONCRETE ADMIXTURES OF APPROVED MAKE SHALL BE USED FOR WATER PROOFING AS PER TENDER SPECIFICATIONS.

11. LIST OF I.S CODES :

11.1 IS : 456-2000 CODE OF PRACTICE FOR PLAIN AND REINFORCED CONCRETE. (REAFFIRMED 2021)
11.2 IS : 800-2007 CODE OF PRACTICE FOR GENERAL CONSTRUCTION IN STEEL. (REAFFIRMED 2017)
11.3 IS : 875 (Part-01 & Part-02 -1987) IMPOSED LOADS (REAFFIRMED 2018)
11.4 IS : 875 (Part-03 - 2015) WIND LOADS. (REAFFIRMED 2020)
11.5 IS : 1893-2016 CODE OF PRACTICE FOR EARTH QUAKE RESISTANT DESIGN OF STRUCTURES. (REAFFIRMED 2021)
11.6 IS : 13920-2016 DUCTILE DESIGN & DETAILING OF REINFORCED CONCRETE STRUCTURES -SUBJECTED TO SEISMIC FORCES .(REAFFIRMED 2021)
11.7 IS: 816 CODE OF PRACTICE FOR USE OF METAL ARC WELDING FOR GENERAL CONSTRUCTION IN MILD STEEL.
11.8 IS: 806 CODE OF PRACTICE FOR USE OF STEEL TUBES IN GENERAL BUILDING CONSTRUCTION.
11.9 IS: 7205 SAFETY CODE FOR ERECTION OF STRUCTURAL STEEL WORKS.
11.10 SP 6 (PART 1) STRUCTURAL STEEL SECTIONS.
11.11 IS : 1904-1986 CODE OF PRACTICE FOR DESIGN AND CONSTRUCTION OF FOUNADATIONS IN SOILS GENERAL REQUIREMENTS. (REAFFIRMED 2020)
11.12 IS : 3414-1968 CODE OF PRACTICE FOR DESIGN AND INSTALLATION OF JOINTS IN BUILDINGS. (REAFFIRMED 2000)
11.13 IS : 3370 (PART-I,II&IV) CODE OF PRACTICE FOR CONCRETE STRUCTURES FOR STORAGE OF LIQUIDS.
11.14 IS : 10262-2009 CODE FOR CONCRETE MIX PROPORTIONING- GUIDELINES.
11.15 SP 16 DESIGN AID FOR REINFORCED CONCRETE.
11.16 SP 24 EXPLANATORY HANDBOOK ON INDIAN STANDARDS CODE FOR PLAIN AND REINFORCED CONCRETE STRUCTURES.
11.17 SP 34 HANDBOOK ON CONCRETE REINFORCEMENT AND DETAILING.

Sd/- xxx
Chief Engineer
// True copy //
5/2/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

28/2.24
Dr. K.P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

MERAKI STRUCTURE COIMBATORE

REV.	DESCRIPTION	DATE
R0	ISSUED FOR APPROVAL	23-01-2024

CLIENT:
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
No. 5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR
RAMALINGAM CONSTRUCTION COMPANY PVT LTD
#175/2 South State Bank Nagar,
Chettipalayam,Erode - 638002,Tamil Nadu.
Tel: 0424 2282380,Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT
METAPHOR Architects Private Limited
SF-C6,2nd Floor, Iruppapir Phat, Chennai - 27.
Tel:+91 44 4353 1541 | arkavishnu@gmail.com

STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

PROJECT:
PLAN SHOWING THE PROPOSED RECONSTRUCTION OF 08 BLOCKS - (G+4) FLOORS WITH 500 RESIDENTIAL UNITS AT **GANDHI NAGAR BLOCK-1&2** IN T.S.NO.4 OF BLOCK NO.7 AND T.S.NO.4A OF BLOCK NO. 8, AYANAVARAM VILLAGE, PURASAVAKAM PERAMBUR TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: GENERAL NOTES

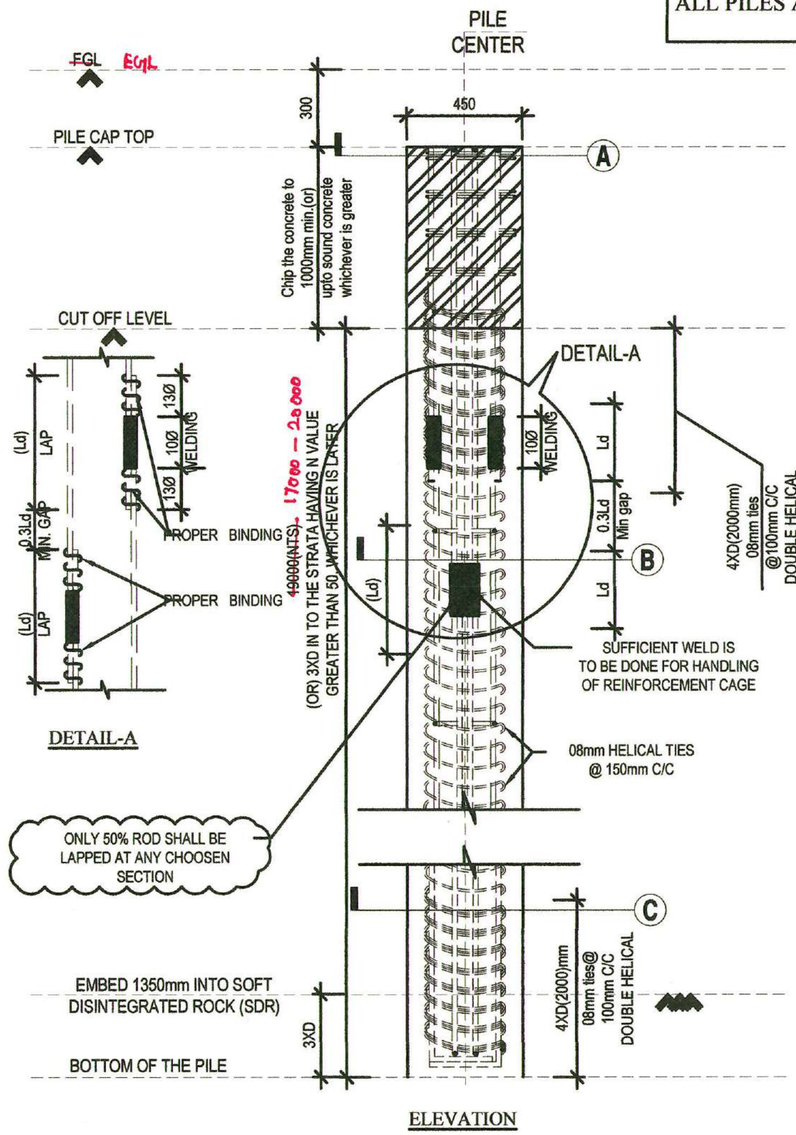
PAPER SIZE:	A3
DRAWN DATE:	23-01-2024
PROJECT NO:	MS23035_GN-1&2
SHEET NO:	S002

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GENERAL NOTE:

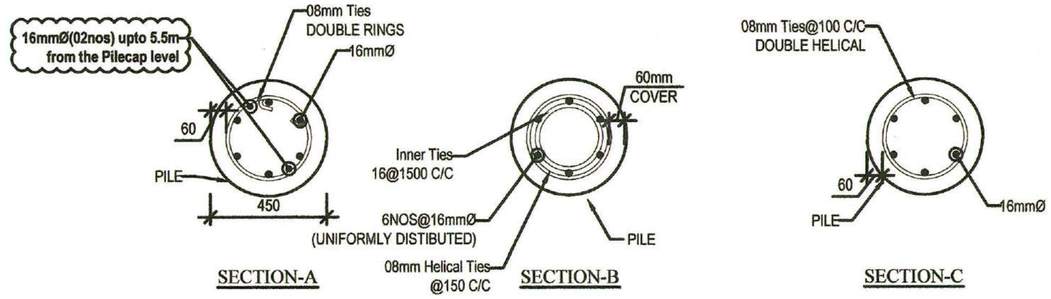
1. Ø - DIA. OF THE BAR(16mm)
2. D - DIA. OF THE PILE
3. Ld - ~~48~~ 50*DIA OF THE BAR

ALL PILES ARE 450MM DIAMETER



DETAIL-A

ELEVATION



PILE SECTION

SCALE 1:25

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE SPECIFIED.
2. DRAWING SHOULD NOT BE SCALED, FOLLOW FIGURED DIMENSIONS.
3. ANY DISCREPANCY IN DRAWING SHALL BE BRING TO NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
4. THIS DRAWING SHOULD BE READ ALONG WITH THE RELEVANT ARCHITECTURAL DRAWING.
5. IF THERE IS ANY REVISION IN DRAWING, FURTHER CONSTRUCTION SHALL BE EXECUTED AS PER THE LATEST REVISED DRAWING, ON THE ISSUE OF LATEST REVISION.
6. GRADE OF STEEL SHALL BE Fe500D/550D ,
   GRADE OF CONCRETE
   FOR SUPER STRUCTURE [BEAM,COLUMN,WALL,SLAB] - M40
   FOR SUB-STRUCTURE [PILE,PILE CAP,PLINTH & GRADE BEAM] - M30
7. CLEAR COVER FOR

PILE	:60mm
PILECAP	~~:60mm~~ 60 mm
COLUMN	:40mm
BEAM	~~:25mm~~ 30 mm
SLAB	~~:20mm~~ 25 mm

8. LAP LENGTH OF BARS : 48Ø [M30],36Ø [M40]
   AT COLUMN LAPPING PROVIDE 100mm SPACING OF TIES.
9. IN CASE OF BEAM REINFORCEMENT, NO LAPPING SHALL BE ALLOWED IN FOLLOWING PLACES
   (a) TOP ROD NEAR COLUMN, L/4 ON EITHER SIDES OF COLUMN
   (b) TOP ROD OF CANTILEVER BEAM ALONG THE LENGTH AND ALSO DEVELOPMENT LENGTH, BEYOND COLUMN
   (c) BOTTOM ROD AT MID SPAN OF BEAM
10. REMOVAL OF SHUTTERING / FORM WORK

(a)	COLUMN	: 24 HOURS
(b)	BEAM SIDES	: 24 HOURS
(c)	BEAM BOTTOM	: LESS THAN 6M SPAN : 14 DAYS
		: MORE THAN 6M SPAN : 28 DAYS
(d)	SLAB	: LESS THAN 6M SPAN : 14 DAYS
		: MORE THAN 6M SPAN : 28 DAYS

HOWEVER 7 DAYS STRENGTH OF CONCRETE SHOULD BE 65% OF THE TARGET STRENGTH, TO REMOVE FORM WORK.

11. THIS BUILDING IS DESIGNED FOR GROUND + 4 FLOORS
12. AS PER SOIL REPORT PILE FOUNDATION IS ADOPTED.
13. AAC BLOCKS TO BE USED FOR ALL MASONRY WORKS. in Super Structure
    Flyash Bricks to be used for masonry work below basement.

SAFE LOAD CARRYING CAPACITY OF **BORED CAST-IN SITU PILES** RESTING IN COMPLETELY WEATHERED SOFT ROCK IS AS FOLLOWS FOR **450mm DIA PILE**

VERTICAL LOAD CARRYING CAPACITY	- 690kN
PULL OUT CAPACITY	- 350kN
LATERAL LOAD CARRYING CAPACITY	- 51kN

SOIL REPORT NO: ~~GT-2661~~ CUBE soil report dt. 24.08.2022

Sd/- xxx
Chief Engineer
// True Copy //
5/3/2024
EXECUTIVE ENGINEER (I/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

25.2.24
Dr. K.P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025

MERAKI STRUCTURE COIMBATORE

PILE SECTION-BLOCK-1&2

REV.	DESCRIPTION	DATE
R0	ISSUED FOR APPROVAL	23-01-2024

CLIENT: TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD, No. 5 Kamarajar Salai, Chennai - 600005,Tamil Nadu. Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR: RAMALINGAM CONSTRUCTION COMPANY PVT LTD, #17/52 South State Bank Nagar, Chettipalayam,Erode - 638002,Tamil Nadu. Tel: 0424 2262369,Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT: METAPHOR Architects Private Limited

STRUCTURAL CONSULTANT: MERAKI STRUCTURE, COIMBATORE, TAMIL NADU 641035

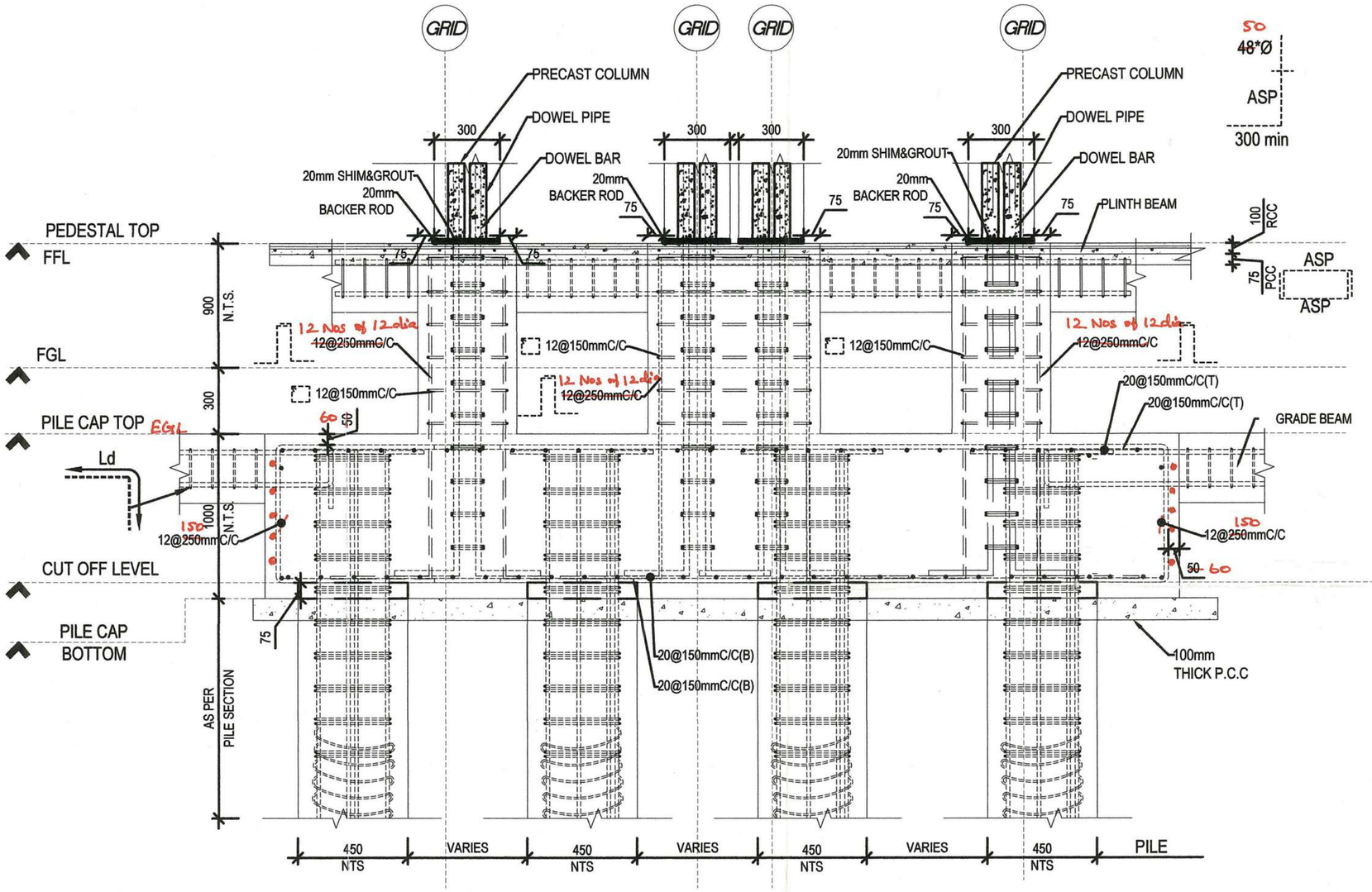
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: PILE SECTION LAYOUT BLOCK-1&2

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PROJECT NO:	MS23035_GN-1&2
SHEET NO:	P002

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PC-3-PILE CAP SECTION

SCALE 1:35

18/5/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

PILECAP SECTION-BLOCK-1&2

12.24
Dr. K.P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

MERAKI STRUCTURE COIMBATORE

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COMPREHENSIVE CONSULTANT: METAPHOR Architects Private Limited, 02/P2L2nd Floor, Mugappair West, Chennai - 37, Tel:+91 44 4355 1341 | info.metaphor@gmail.com

STRUCTURAL CONSULTANT: MERAKI STRUCTURE, COIMBATORE, TAMIL NADU 641035

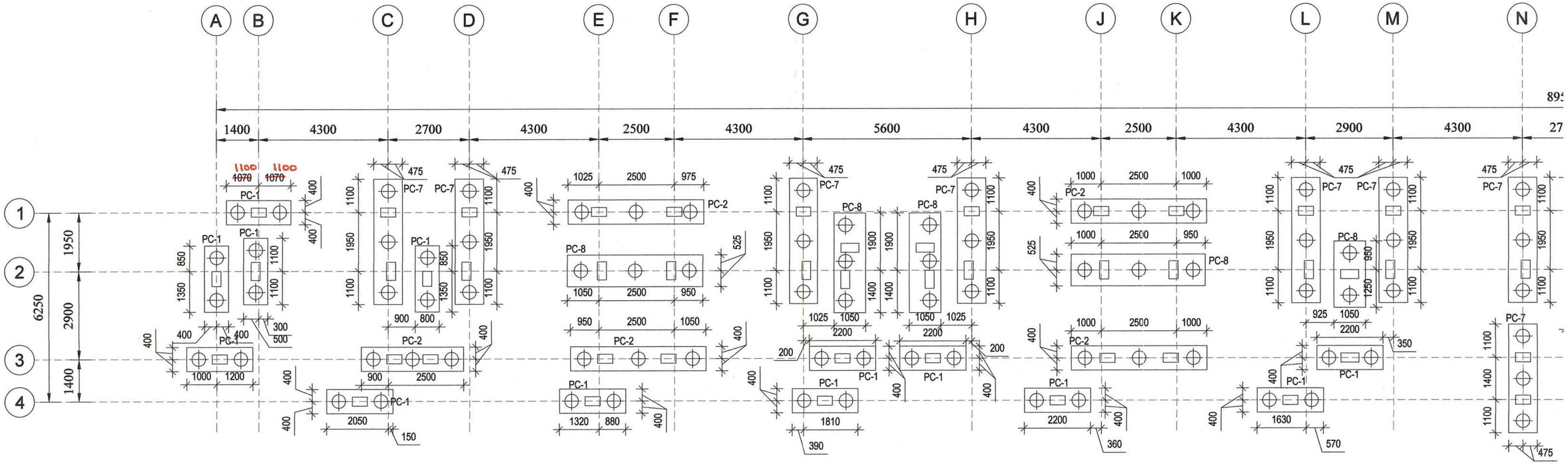
PROJECT: PLAN SHOWING THE PROPOSED RECONSTRUCTION OF 08 BLOCKS - (G+4) FLOORS WITH 500 RESIDENTIAL UNITS AT **GANDHI NAGAR BLOCK-1&2** IN T.S.NO.4 OF BLOCK NO.7 AND T.S.NO.4A OF BLOCK NO. 8, AYANAVARAM VILLAGE, PURASAVAKAM PERAMBUR TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

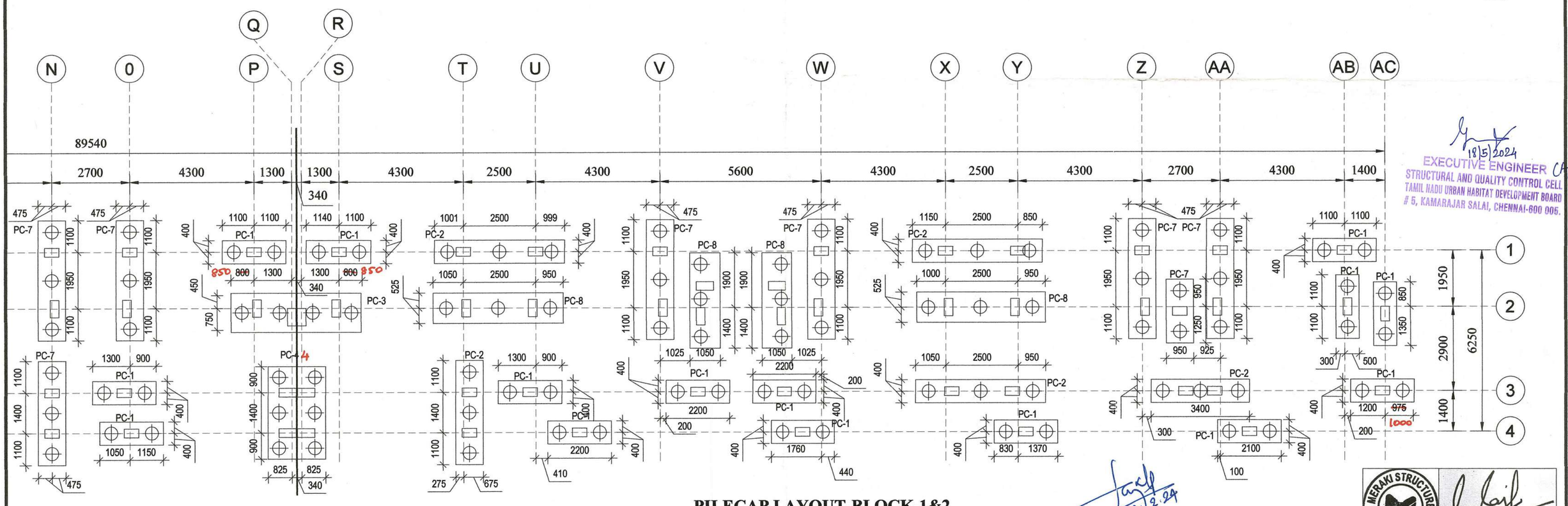
DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: PILECAP SECTION LAYOUT-BLOCK-1&2

PAPER SIZE:	A3
DRAWN DATE:	23-01-2024
PROJECT NO:	MS23035_GN-1&2
SHEET NO:	P005

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EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.
18/5/2024

PILECAP LAYOUT-BLOCK-1&2

SCALE 1 : 200

Dr. K.P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai-600 025.
28/2/24

MERAKI STRUCTURE COIMBATORE

R0	ISSUED FOR APPROVAL	23-01-2024
REV.	DESCRIPTION	DATE

CLIENT:
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
No.5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR
RAMALINGAM CONSTRUCTION COMPANY PVT LTD
#175/2 South State Bank Nagar,
Chatipalayam,Erode - 638002,Tamil Nadu.
Tel: 0424 2282389,Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT
METAPHOR Architects Private Limited
82/FOL2nd Floor, Mayajaal Vasi, Chennai - 37.
Tel:+91 44 4353 1341 | info.metaphor@gmail.com

STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

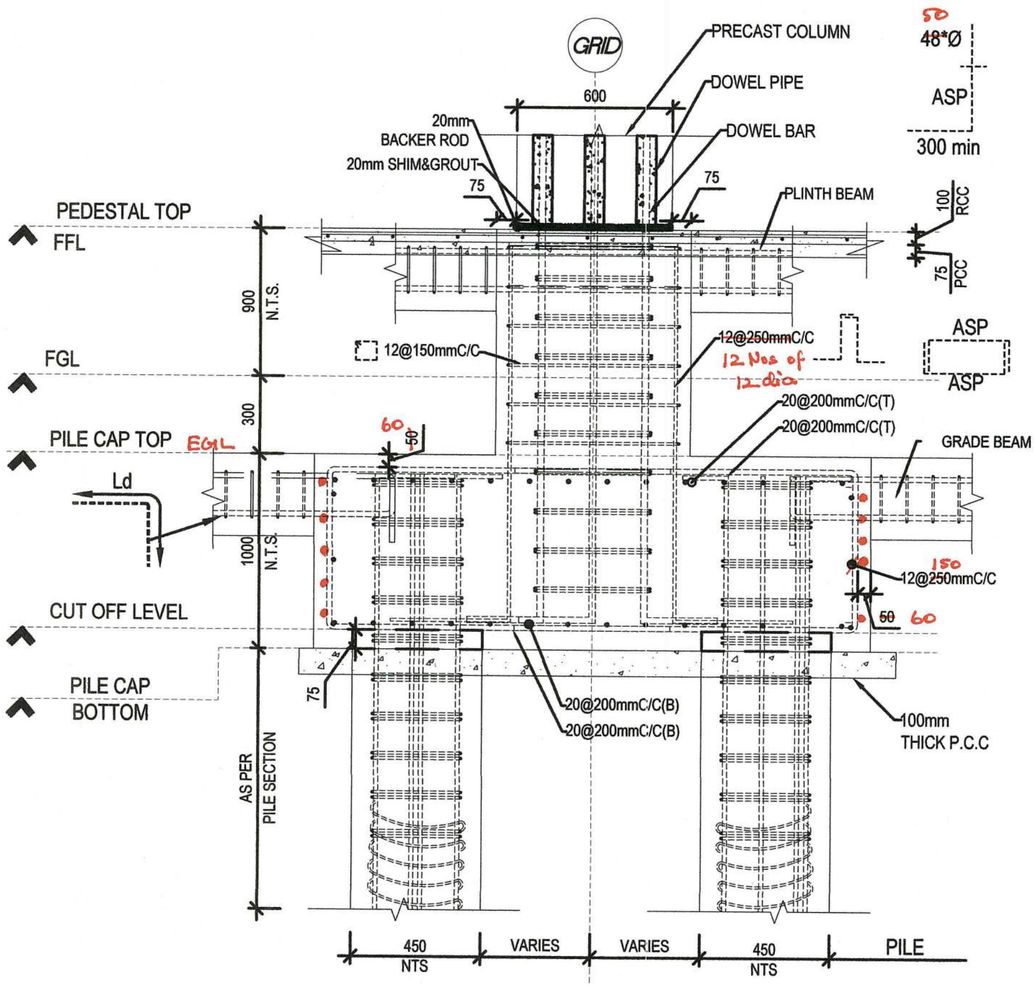
PROJECT:
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MRY	SK	SJS	SJS
DRAWN	DESIGN	CHECKED	APPROVED

TITLE: PILECAP LAYOUT_BLOCK-1&2

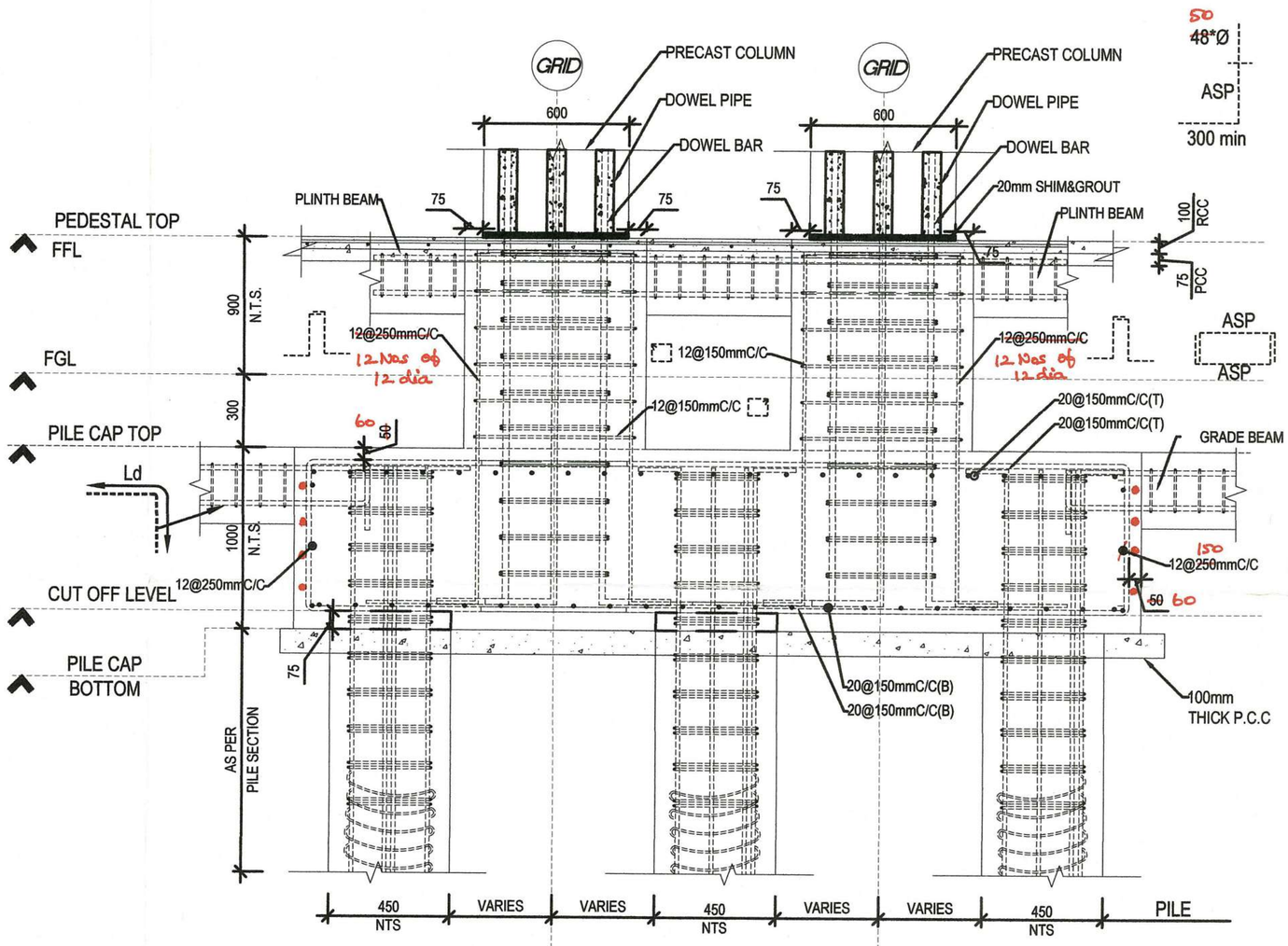
PAPER SIZE:	A3
DRAWN DATE:	23-01-2024
PROJECT NO:	MS23035_GN-1&2
SHEET NO:	P003

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PC-1-PILE CAP SECTION

SCALE 1:35



PC-2-PILE CAP SECTION

SCALE 1:35

18/5/2024.
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

PILECAP SECTION-BLOCK-1&2

28/2/24
Dr. K.P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna Univ. sity, Chennai - 600 025.

MERAKI STRUCTURE COIMBATORE

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No. 5 Kamarajar Salai,
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Tel: 0440 28440 1300

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837C/6,2nd Floor, Mogappair West, Chennai - 37.
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COIMBATORE,
TAMIL NADU 641035

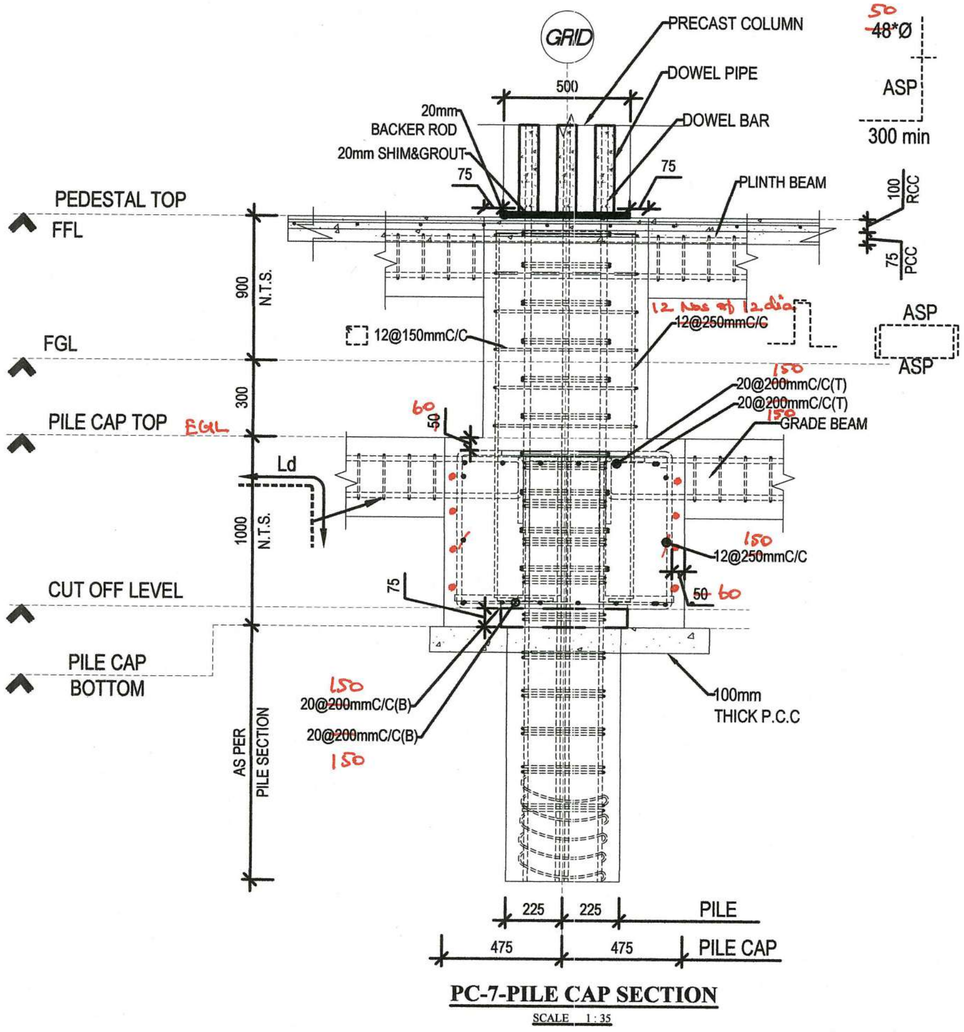
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: PILECAP SECTION LAYOUT_BLOCK-1&2

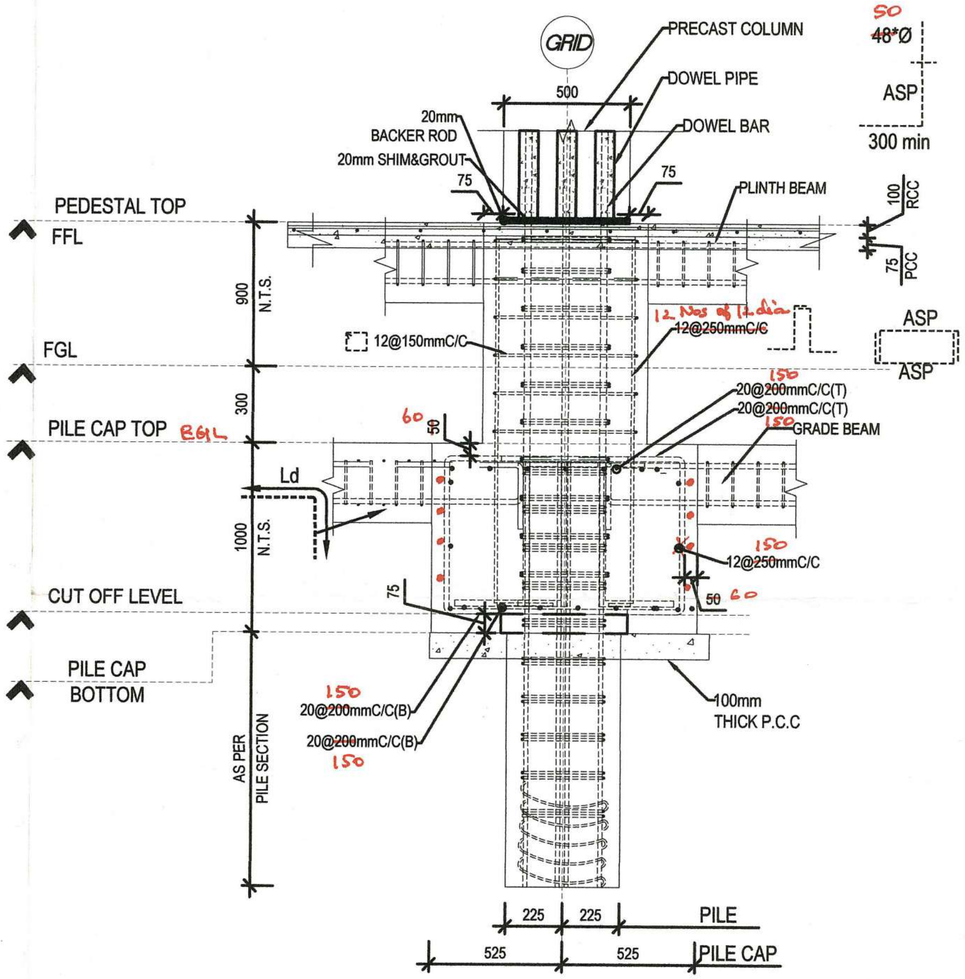
PAPER SIZE:	A3
DRAWN DATE:	23-01-2024
PROJECT NO:	MS23035_GN-1&2
SHEET NO:	P004

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PC-7-PILE CAP SECTION

SCALE 1 : 35



PC-8-PILE CAP SECTION

SCALE 1 : 35

PILECAP SECTION-BLOCK-1&2

18/5/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

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No. 5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

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RCCL
RAMALINGAM CONSTRUCTION COMPANY PVT LTD
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Tel:+91 44 4302 1341 | info.metaphor@gmail.com

STRUCTURAL CONSULTANT
MERAKI STRUCTURE
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

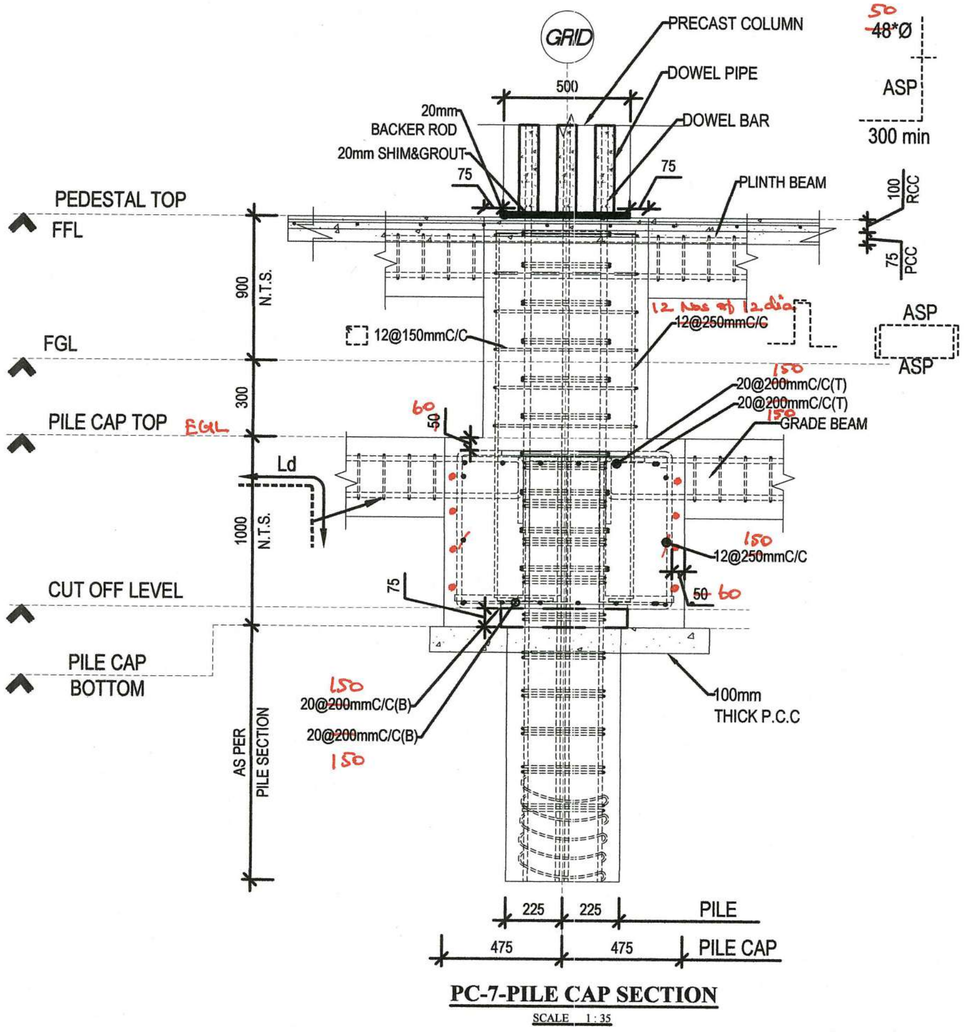
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: PILECAP SECTION LAYOUT BLOCK-1&2

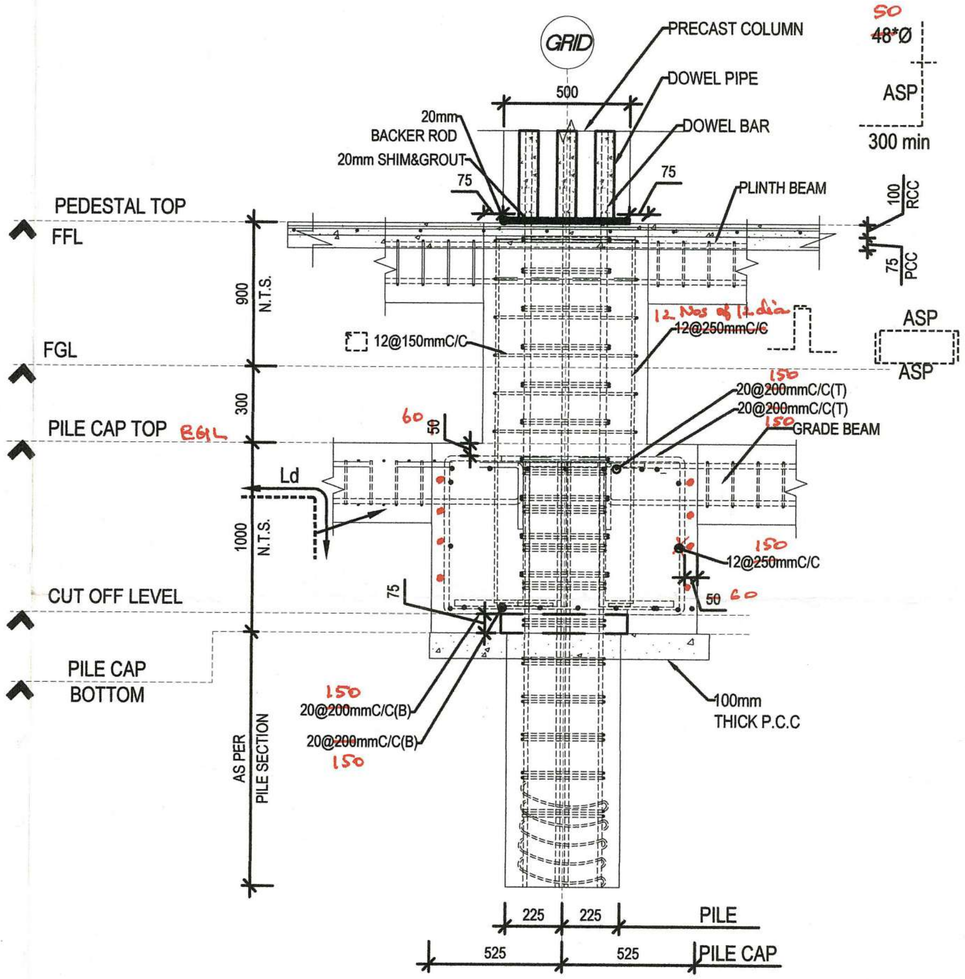
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DRAWN DATE:	23-01-2024
PROJECT NO:	MS23035_GN-1&2
SHEET NO:	P007

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PC-7-PILE CAP SECTION

SCALE 1 : 35



PC-8-PILE CAP SECTION

SCALE 1 : 35

PILECAP SECTION-BLOCK-1&2

18/5/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

28/2.24
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Department of Civil Engineering
Anna University, Chennai - 600 025.

MERAKI STRUCTURE COIMBATORE

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Tel: 0440 28440 1300

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Architects Private Limited
82/PO5,2nd Floor, Mappapir West, Chennai - 37.
Tel:+91 44 4302 1341 | info.metaphor@gmail.com

STRUCTURAL CONSULTANT
MERAKI STRUCTURE
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

PROJECT:
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: PILECAP SECTION LAYOUT BLOCK-1&2

PAPER SIZE:	A3
DRAWN DATE:	23-01-2024
PROJECT NO:	MS23035_GN-1&2
SHEET NO:	P007

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PILECAP LAYOUT-BLOCK-3

SCALE 1 : 200

Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025

31/8/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

MERAKI STRUCTURE COIMBATORE

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CLIENT: TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD, No. 5 Kamarajar Salai, Chennai - 600005, Tamil Nadu. Tel: 0440 28440 1300

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COMPREHENSIVE CONSULTANT: METAPHOR Architects Private Limited, 02/P03,2nd Floor, Mayapoor West, Chennai - 27, Tel:+91 44 4355 1341, info.metaphor@gmail.com

STRUCTURAL CONSULTANT: MERAKI STRUCTURE, COIMBATORE, TAMIL NADU 641035

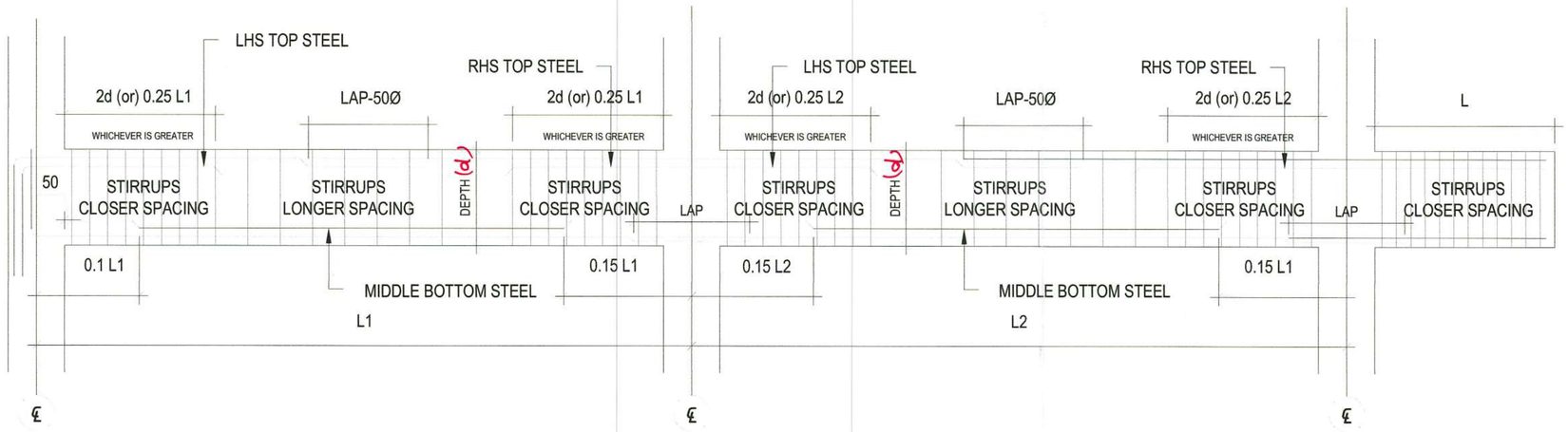
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

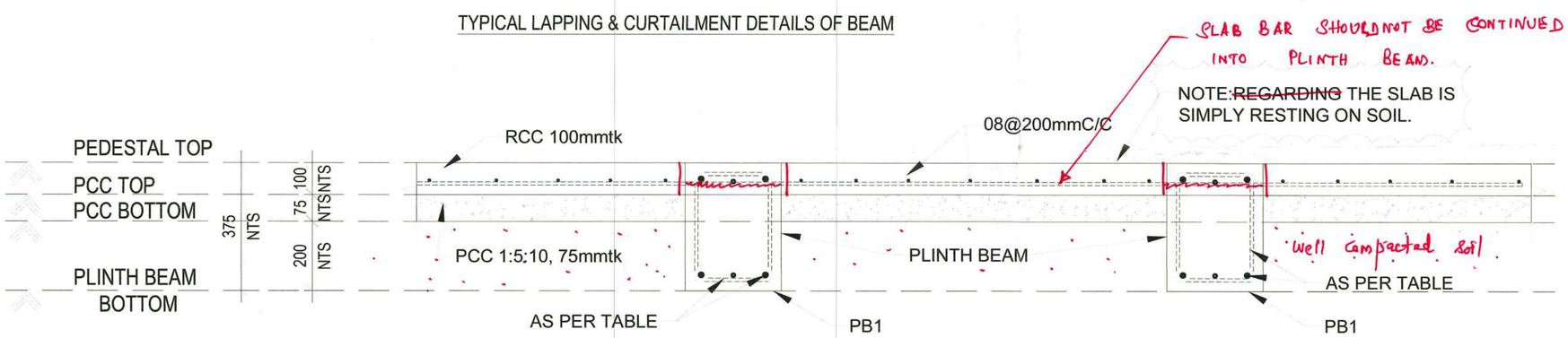
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PAPER SIZE:	A3
DRAWN DATE:	30-01-2024
PROJECT NO:	MS23035_GN-3
SHEET NO:	P003

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TYPICAL LAPPING & CURTAILMENT DETAILS OF BEAM



SCREEDING DETAIL

PLINTH BEAM DETAILS

S.NO.	BEAM ID	BEAM SIZE(mm)		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		CIP REINFORCEMENT		SIDE FACE	STIRRUPS	
		WIDTH	DEPTH	STRAIGHT BAR	CURTAILMENT	STRAIGHT BAR	CURTAILMENT	STRAIGHT BAR	CURTAILMENT		END	MIDDLE
1	PB1	300	375	#2-T16	#1-T12	#2-T16	#1-T12	-	-	-	T8@75mmC/C	T8@150mmC/C
2	PB2	300	375	#2-T16	#1-T12	#2-T16	#1-T12	-	-	-	T10@75mmC/C	T10@75mmC/C

PLINTH BEAM SECTION LAYOUT-BLOCK-3

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE SPECIFIED.
2. DRAWING SHOULD NOT BE SCALED, FOLLOW FIGURED DIMENSIONS.
3. ANY DISCREPANCY IN DRAWING SHALL BE BRING TO NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
4. THIS DRAWING SHOULD BE READ ALONG WITH THE RELEVANT ARCHITECTURAL DRAWING.
5. IF THERE IS ANY REVISION IN DRAWING, FURTHER CONSTRUCTION SHALL BE EXECUTED AS PER THE LATEST REVISED DRAWING, ON THE ISSUE OF LATEST REVISION.
6. GRADE OF STEEL SHALL BE Fe500D/550D ,
   GRADE OF CONCRETE
   FOR SUPER STRUCTURE [BEAM,COLUMN,WALL,SLAB] - M40
   FOR SUB-STRUCTURE [PILE,PILE CAP,PLINTH & GRADE BEAM] - M30
7. CLEAR COVER FOR
   PILE & PILE CAP :60mm
   COLUMN :40mm
   BEAM :30mm
   SLAB :25mm
8. LAP LENGTH OF BARS : 50Ø [M30],40Ø [M40]
   AT COLUMN LAPPING PROVIDE 100mm SPACING OF TIES.
9. IN CASE OF BEAM REINFORCEMENT, NO LAPPING SHALL BE ALLOWED IN FOLLOWING PLACES
(a) TOP ROD NEAR COLUMN, L/4 ON EITHER SIDES OF COLUMN
(b) TOP ROD OF CANTILEVER BEAM ALONG THE LENGTH AND ALSO DEVELOPMENT LENGTH, BEYOND COLUMN
(c) BOTTOM ROD AT MID SPAN OF BEAM
10. REMOVAL OF SHUTTERING / FORM WORK
(a) COLUMN : 24 HOURS
(b) BEAM SIDES : 24 HOURS
(c) BEAM BOTTOM : LESS THAN 6M SPAN : 14 DAYS
: MORE THAN 6M SPAN : 28 DAYS
(d) SLAB : LESS THAN 6M SPAN : 14 DAYS
: MORE THAN 6M SPAN : 28 DAYS
4.5m 4.5m
HOWEVER 7 DAYS STRENGTH OF CONCRETE SHOULD BE 65% OF THE TARGET STRENGTH, TO REMOVE FORM WORK.
11. THIS BUILDING IS DESIGNED FOR GROUND + 4 FLOORS
12. AS PER SOIL REPORT PILE FOUNDATION IS ADOPTED.
13. AAC BLOCKS TO BE USED FOR ALL MASONRY WORKS FOR SUPERSTRUCTURE.
14. FLYASH BRICKS SHALL BE USED FOR MASONRY WALLS BELOW BASEMENT.

R1

3/8/2024
EXECUTIVE ENGINEER (I/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

14.8.24
Dr. K. P. JAYA
Professor
Division of Structural Engineering
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MERAKI STRUCTURE COIMBATORE

REV.	DESCRIPTION	DATE
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CLIENT: TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD, No. 5 Kamarajar Salai, Chennai - 600005, Tamil Nadu. Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR: RAMALINGAM CONSTRUCTION COMPANY PVT LTD, #17/52 South State Bank Nagar, Chettipalayam, Erode - 638002, Tamil Nadu. Tel: 0424 2282389, Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT: METAPHOR Architects Private Limited

STRUCTURAL CONSULTANT: MERAKI STRUCTURE, COIMBATORE, TAMIL NADU 641035

PROJECT: PLAN SHOWING THE PROPOSED RECONSTRUCTION OF 08 BLOCKS - (G+4) FLOORS WITH 500 RESIDENTIAL UNITS AT **GANDHI NAGAR BLOCK-3** IN T.S.NO.4 OF BLOCK NO.7 AND T.S.NO.4A OF BLOCK NO. 8, AYANAVARAM VILLAGE, PURASAVAKAM PERAMBUR TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: PLINTH BEAM SECTION LAYOUT_BLOCK-3

PAPER SIZE:	A3
DRAWN DATE:	30-01-2024
PROJECT NO:	MS23035_GN-3
SHEET NO:	P013

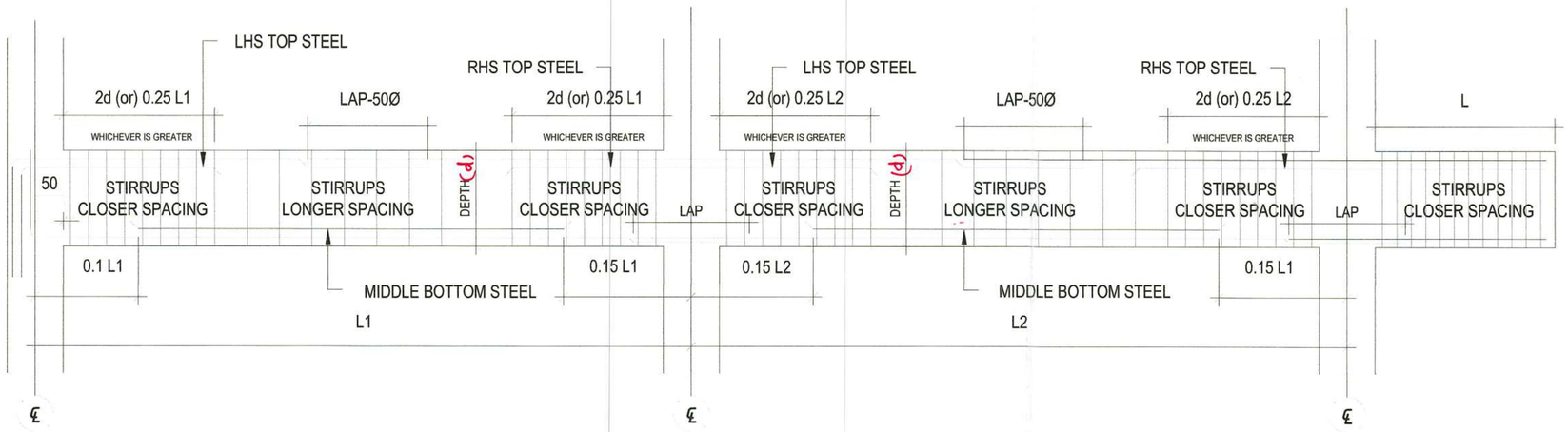
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GRADE BEAM DETAILS

S.NO.	BEAM ID	BEAM SIZE(mm)		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		SIDE FACE	STIRRUPS	
		WIDTH	DEPTH	STRAIGHT BAR	CURTAILMENT	STRAIGHT BAR	CURTAILMENT		END	MIDDLE
1	B1	300	450	#2-T16	#1-T12	#2-T16	#1-T12	-	T8@75mmC/C	T8@150mmC/C
2	B2	300	450	#2-T16	#1-T16	#2-T16	#1-T16	-	T10@75mmC/C	T10@75mmC/C
3	B3	300	450	#3-T20	#2-T16 20	#3-T20	#2-T16 20	-	T10@75mmC/C	T10@75mmC/C
4	B4	300	450	#2-T20	#1-T20	#2-T20	#1-T20	-	T12@75mmC/C	T12@75mmC/C

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE SPECIFIED.
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6. GRADE OF STEEL SHALL BE Fe500D/550D ,
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   FOR SUPER STRUCTURE [BEAM,COLUMN,WALL,SLAB] - M40
   FOR SUB-STRUCTURE [PILE,PILE CAP,PLINTH & GRADE BEAM] - M30
7. CLEAR COVER FOR
   PILE & PILE CAP :60mm
   COLUMN :40mm
   BEAM :30mm
   SLAB :25mm
8. LAP LENGTH OF BARS : 50Ø [M30],40Ø [M40]
   AT COLUMN LAPPING PROVIDE 100mm SPACING OF TIES.
9. IN CASE OF BEAM REINFORCEMENT, NO LAPPING SHALL BE ALLOWED IN FOLLOWING PLACES
   (a) TOP ROD NEAR COLUMN, L/4 ON EITHER SIDES OF COLUMN
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14. FLYASH BRICKS SHALL BE USED FOR MASONRY WALLS BELOW BASEMENT.



TYPICAL LAPPING & CURTAILMENT DETAILS OF BEAM

GRADE BEAM SECTION LAYOUT-BLOCK-3

31/8/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
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COIMBATORE,
TAMIL NADU 641035

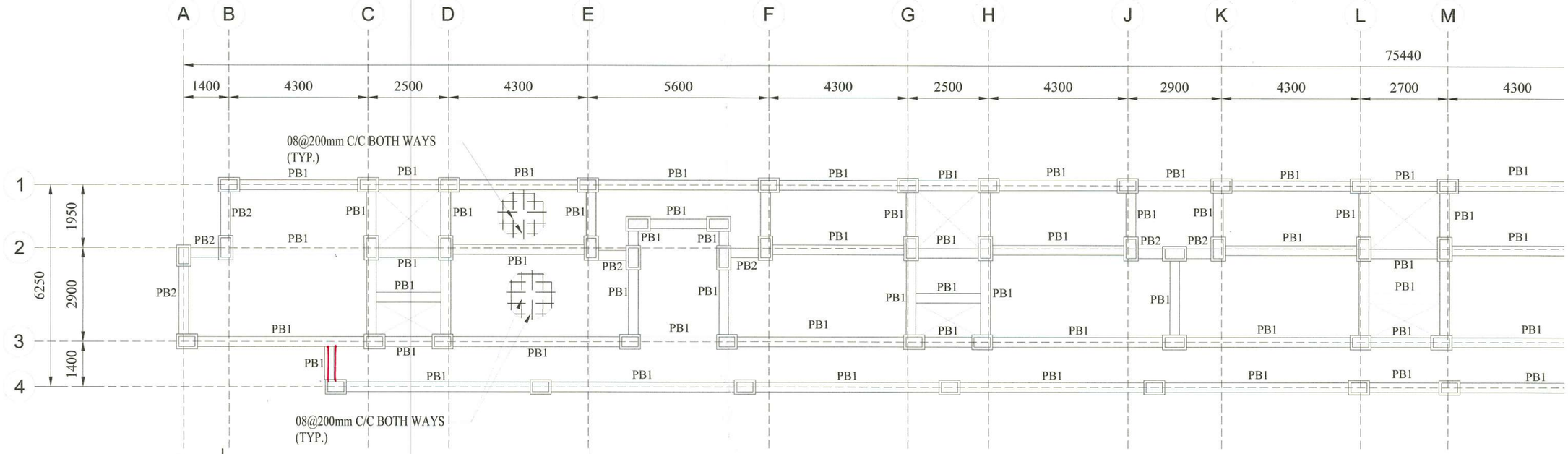
PROJECT:
PLAN SHOWING THE PROPOSED RECONSTRUCTION OF 08 BLOCKS - (G+4) FLOORS WITH 500 RESIDENTIAL UNITS AT **GANDHI NAGAR BLOCK-3** IN T.S.NO.4 OF BLOCK NO.7 AND T.S.NO.4A OF BLOCK NO. 8, AYANAVARAM VILLAGE, PURASAVAKAM PERAMBUR TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

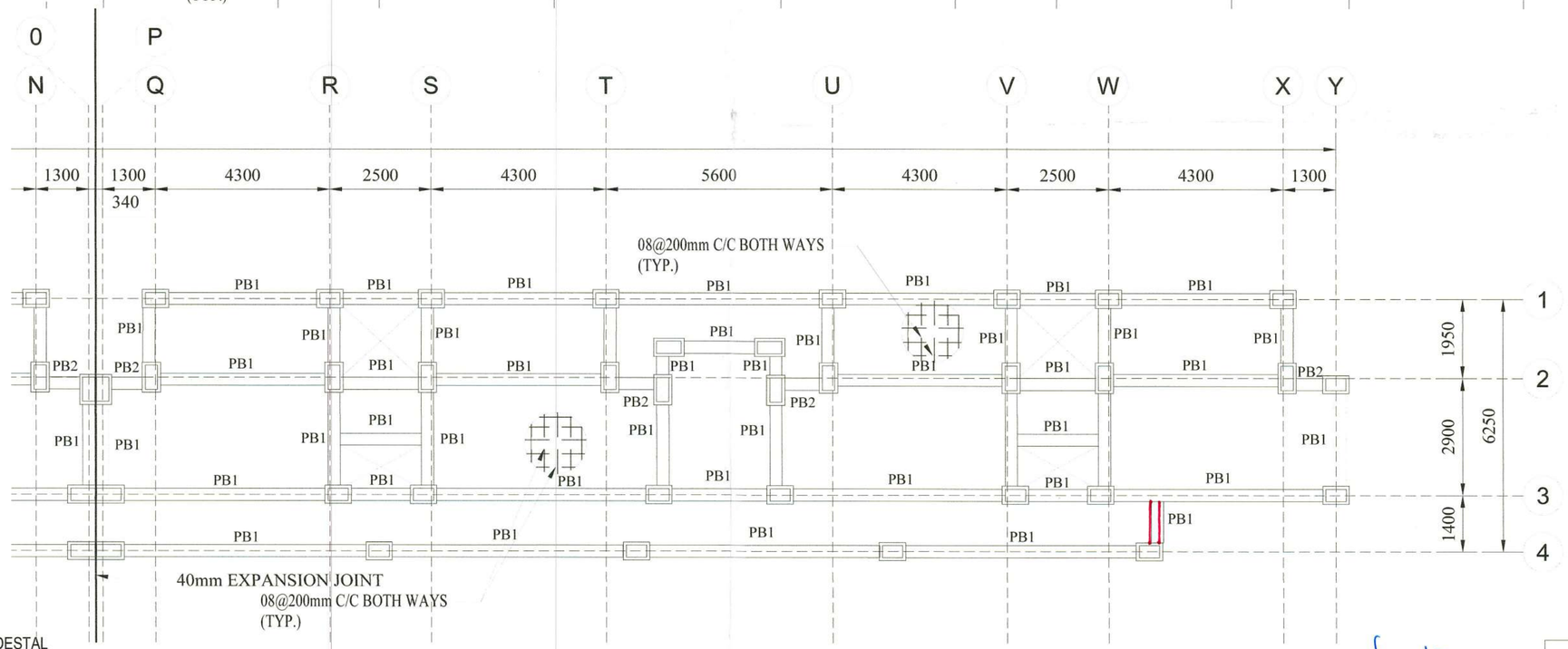
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MRY	SK	SJS	SJS

TITLE: GRADE BEAM LAYOUT_BLOCK-3

PAPER SIZE:	A3
DRAWN DATE:	30-01-2024
PROJECT NO:	MS23035_GN-3
SHEET NO:	P011

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- PEDESTAL

- PLINTH BEAM

PLINTH BEAM LAYOUT-BLOCK-3

SCALE 1 : 200

R1

31/8/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

14/8.24
Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

MERAKI STRUCTURE COIMBATORE

REV.	DESCRIPTION	DATE
R0	ISSUED FOR APPROVAL	30-01-2024

CLIENT:
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
No.5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR
RAMALINGAM CONSTRUCTION COMPANY PVT LTD
#175/2 South State Bank Nagar,
Chettipalayam,Erode - 638002,Tamil Nadu.
Tel: 0424 2282389,Email ID: info@ramalingam.in
RCCL

COMPREHENSIVE CONSULTANT
METAPHOR Architects Private Limited
02/P.O1,2nd Floor, Mogappair West, Chennai - 37.
Tel:+91 44 4355 1341 | info.metaphor@gmail.com

STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

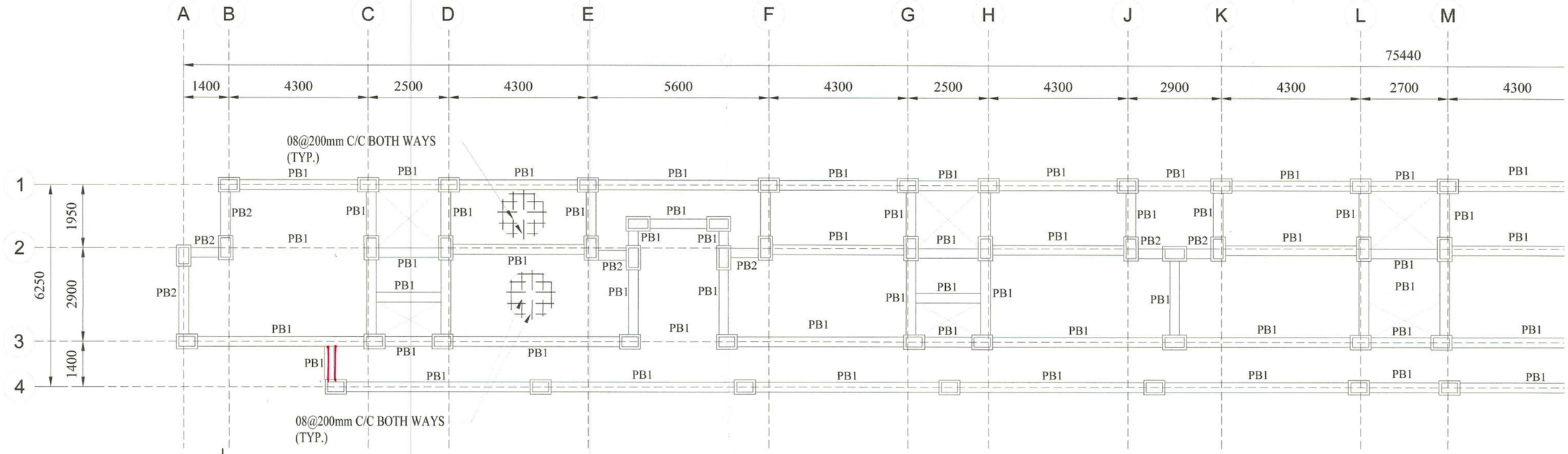
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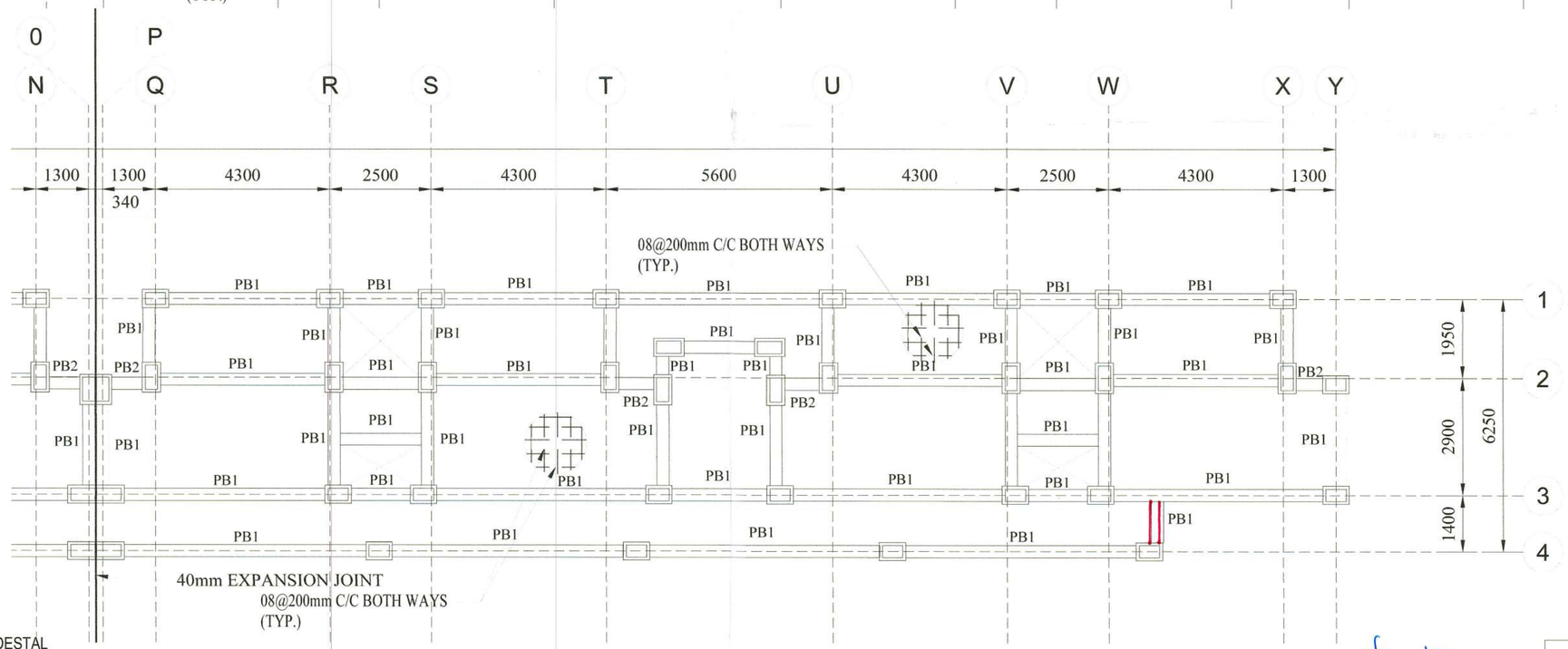
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PLINTH BEAM LAYOUT_BLOCK-3

PAPER SIZE:	A3
DRAWN DATE:	30-01-2024
PROJECT NO:	MS23035_GN-3
SHEET NO:	P012

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- PEDESTAL

- PLINTH BEAM

PLINTH BEAM LAYOUT-BLOCK-3

SCALE 1 : 200

R1

31/8/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

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MERAKI STRUCTURE COIMBATORE

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02/P.O1,2nd Floor, Mogappair West, Chennai - 37.
Tel:+91 44 4355 1341 | info.metaphor@gmail.com

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COIMBATORE,
TAMIL NADU 641035

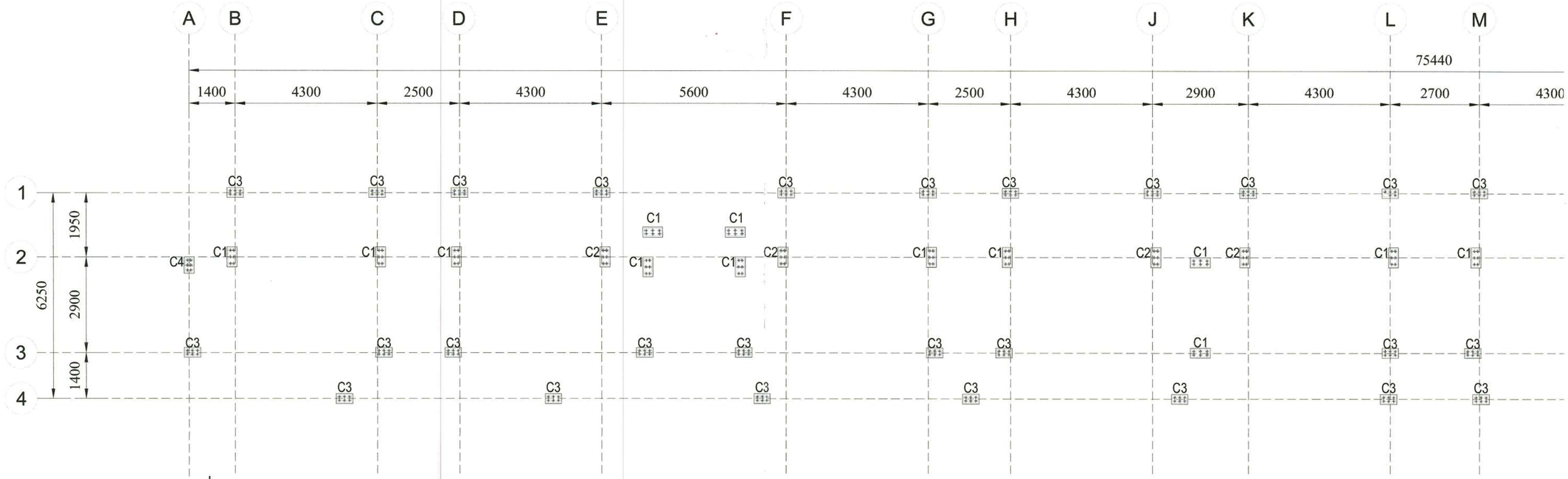
PROJECT:
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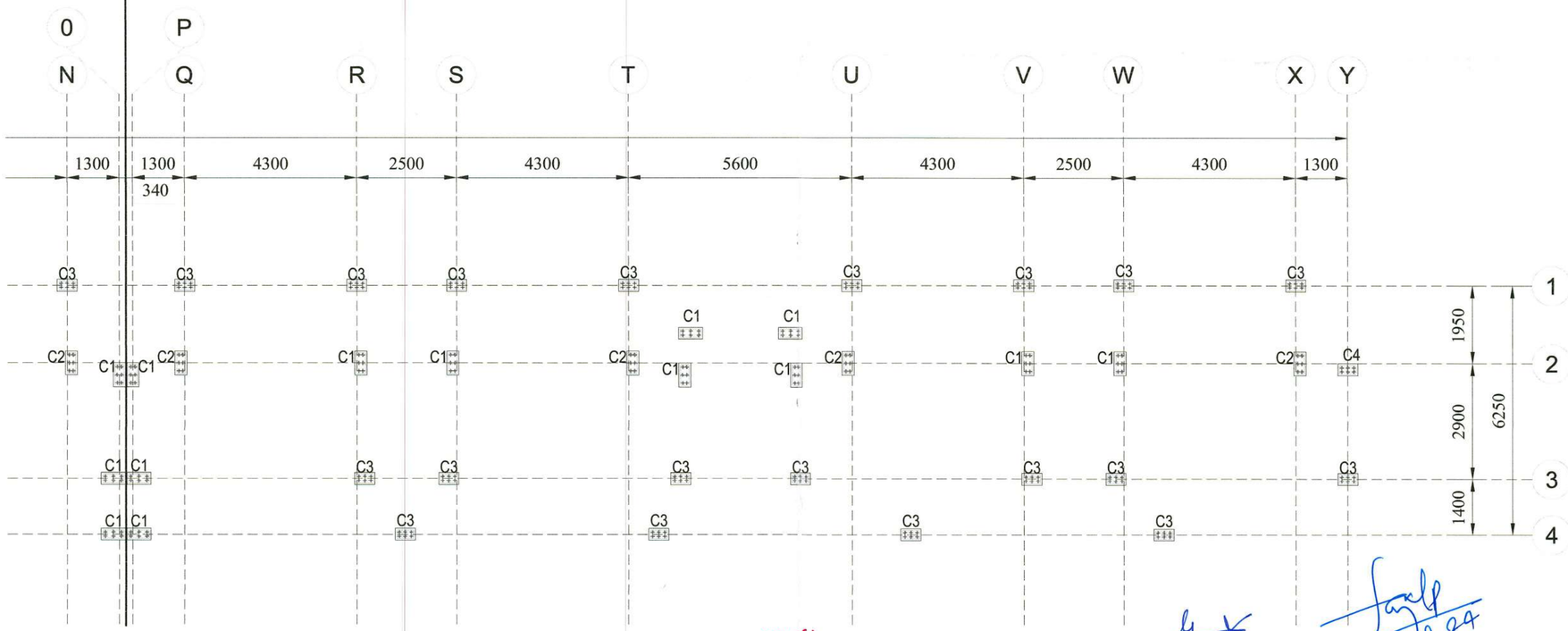
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MRY	SK	SJS	SJS

PLINTH BEAM LAYOUT_BLOCK-3

PAPER SIZE:	A3
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R1

DOWEL

~~PEDASTAL~~ LAYOUT-BLOCK-3

SCALE 1 : 200

31/8/2024
EXECUTIVE ENGINEER (P/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
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MERAKI STRUCTURE COIMBATORE

REV.	DESCRIPTION	DATE
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CLIENT: TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD, No. 5 Kamarajar Salai, Chennai - 600005, Tamil Nadu. Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR: RCCL — RAMALINGAM CONSTRUCTION COMPANY PVT LTD, #1752 South State Bank Nagar, Chettipalayam, Erode - 638002, Tamil Nadu. Tel: 0424 2282389, Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT: METAPHOR ARCHITECTS PRIVATE LIMITED, G/P03, 2nd Floor, Mogappair West, Chennai - 37, Tel: +91 44 4355 1341 | info.metaphor@gmail.com

STRUCTURAL CONSULTANT: MERAKI STRUCTURE, COIMBATORE, TAMIL NADU 641035

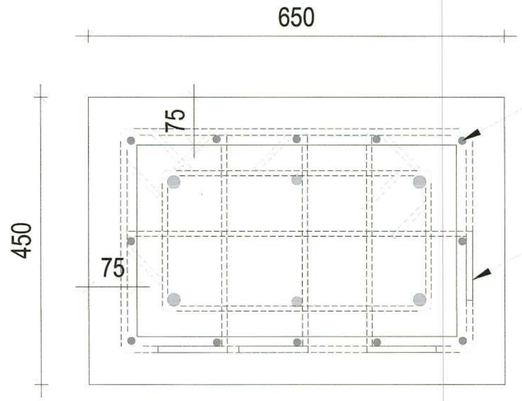
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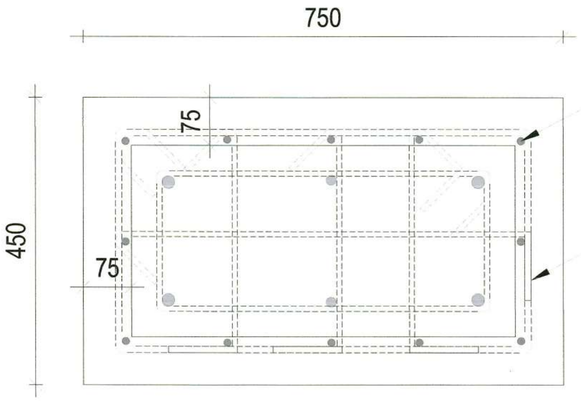
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PAPER SIZE:	A3
DRAWN DATE:	30-01-2024
PROJECT NO:	MS23035_GN-3
SHEET NO:	P008

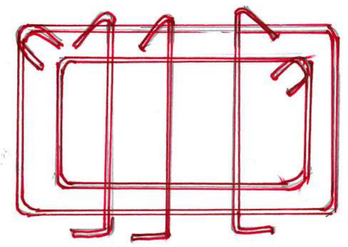
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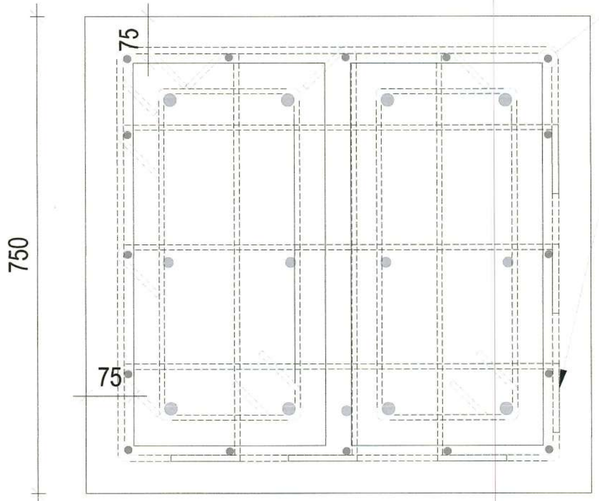


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PEDESTAL-**P1**
SCALE 1:14

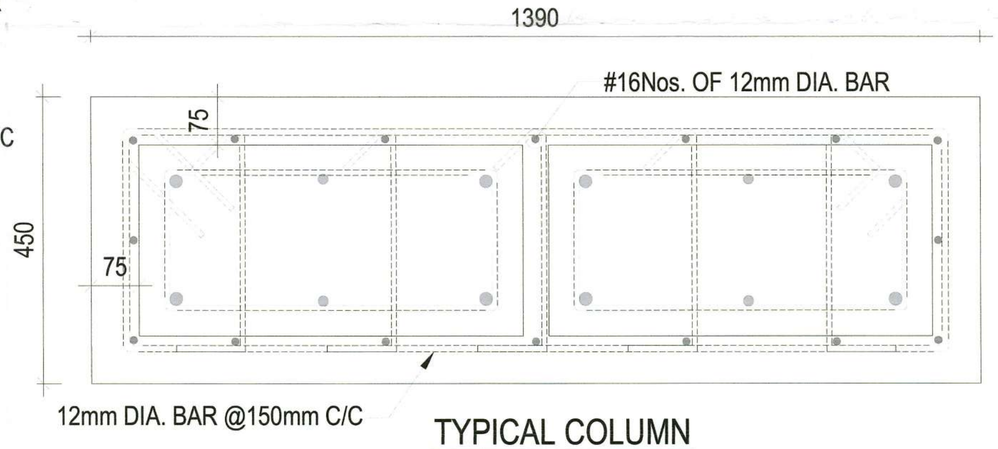


TYPICAL COLUMN
PEDESTAL-**P2**
SCALE 1:14





TYPICAL COLUMN
PEDESTAL-**P3**
SCALE 1:14



TYPICAL COLUMN
PEDESTAL-**P4**
SCALE 1:14

PEDESTAL DETAIL-BLOCK-3

R1

14.8.24

Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

3/8/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

MERAKI STRUCTURE COIMBATORE

REV.	DESCRIPTION	DATE
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CLIENT:
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
No. 5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR
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METAPHOR Architects Private Limited
G2/FOL,2nd Floor, Mogappair West, Chennai - 37.
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STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

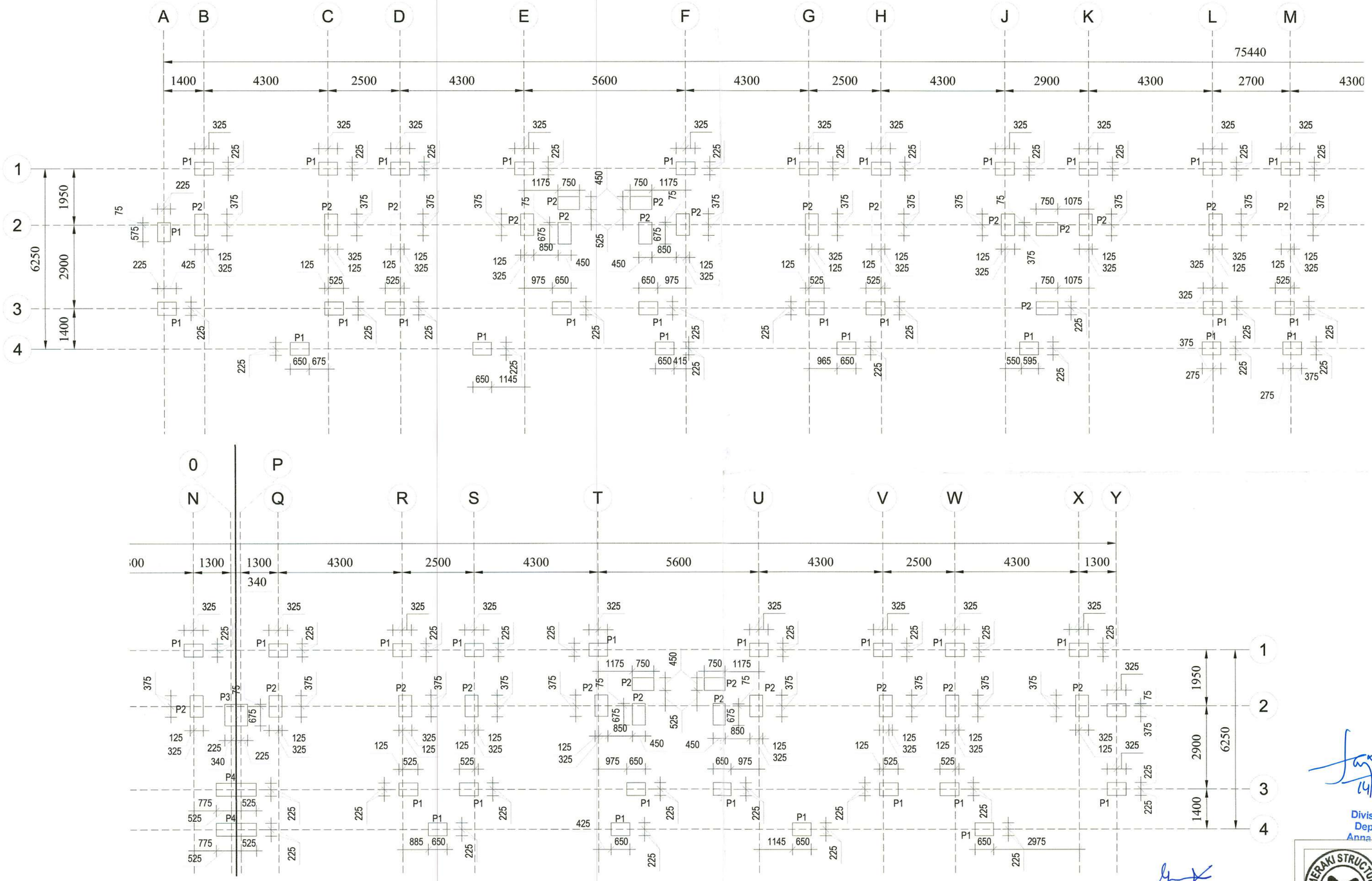
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: PEDESTAL DETAIL-BLOCK-3

PAPER SIZE:	A3
DRAWN DATE:	30-01-2024
PROJECT NO:	MS23035_GN-3
SHEET NO:	P007

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PEDASTAL LAYOUT-BLOCK-3

SCALE 1 : 200

R1

14/8/24

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Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

31/8/2024

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STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

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TAMIL NADU 641035

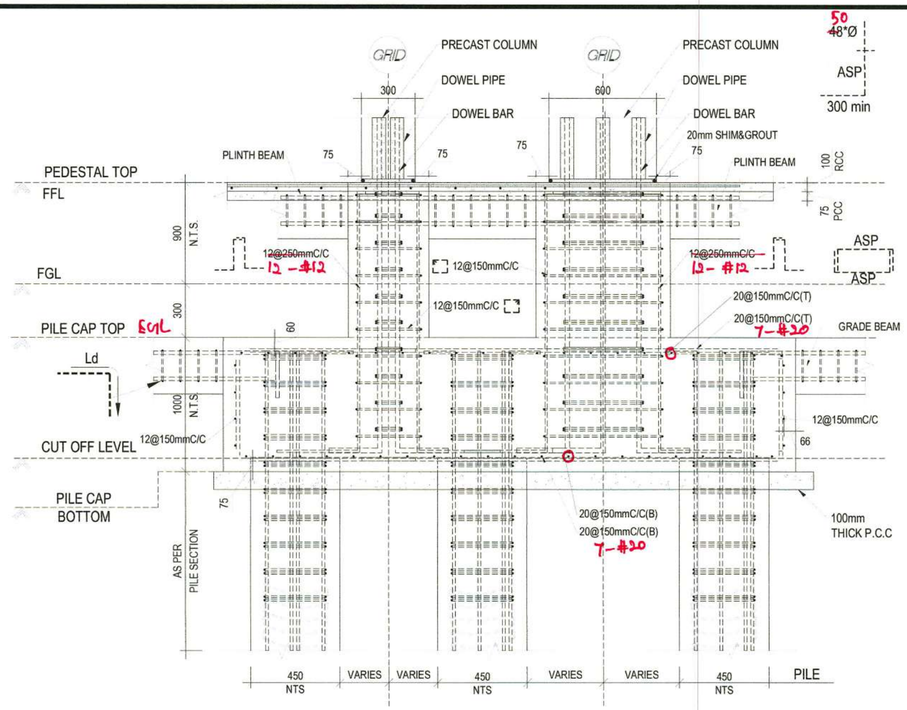
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DRAWN	DESIGN	CHECKED	APPROVED
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TITLE: PEDASTAL LAYOUT_BLOCK-3

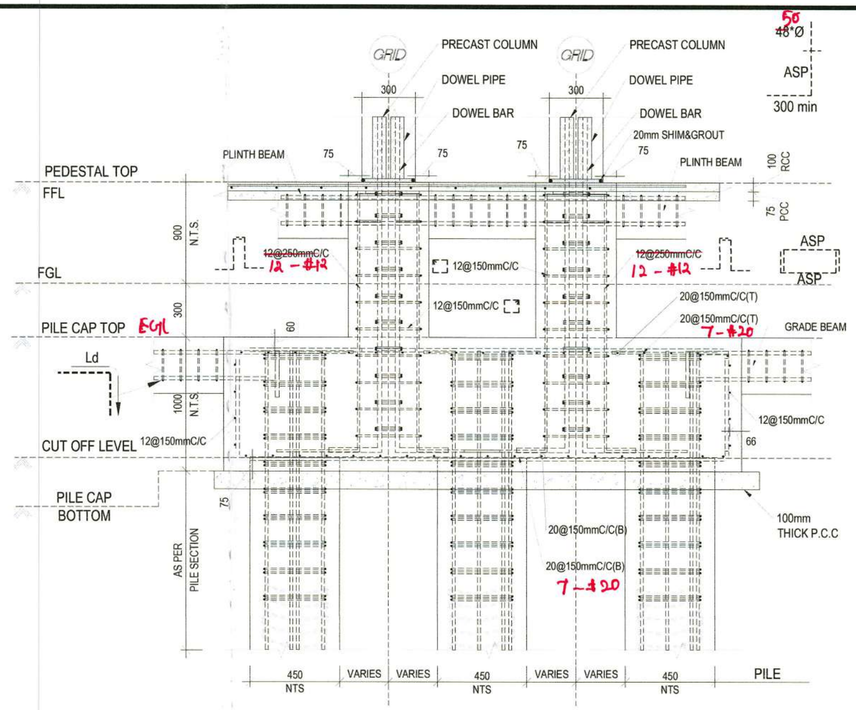
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PROJECT NO:	MS23035_GN-3
SHEET NO:	P006

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PC-7,8A-PILE CAP SECTION

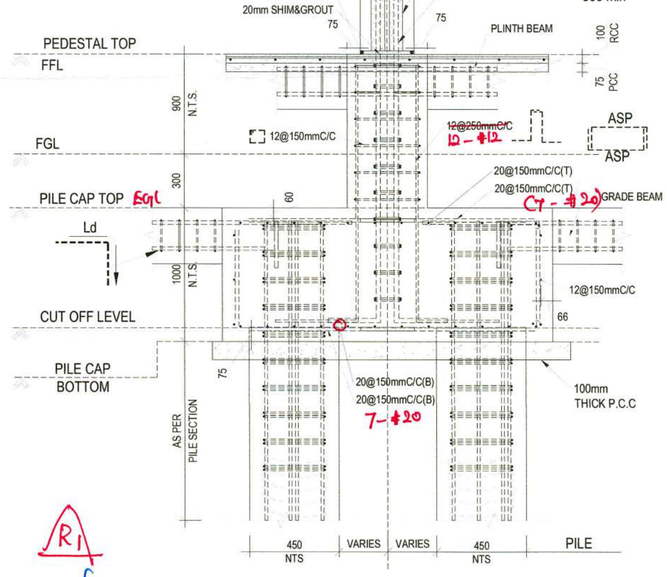
SCALE 1 : 50



PC-8-PILE CAP SECTION

SCALE 1 : 50

PILECAP ID	DIMENSION				TOP REINFORCEMENT		BOTTOM REINFORCEMENT		
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PC-1A	2200	800	6	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-2	4500	800	6	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
~~PC-2A~~	~~4500~~	~~800~~	~~6~~	~~1000~~	~~20@150mm C/C~~	~~20@150mm C/C~~	~~20@150mm C/C~~	~~20@150mm C/C~~	~~12@150mm C/C~~
PC-3	4540	1350	7 8	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-4	3200	1990	13	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-7	4150	950	7	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-8	4500	1050	7	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-8A	3300	1050	7	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
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PC-9,9A-PILE CAP SECTION

SCALE 1 : 50

R1

31/8/2024
EXECUTIVE ENGINEER (A/c)
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TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
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14.8.24
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MERAKI STRUCTURE COIMBATORE

PILE CAP SECTION BLOCK-3

REV.	DESCRIPTION	DATE
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CLIENT:
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COIMBATORE,
TAMIL NADU 641035

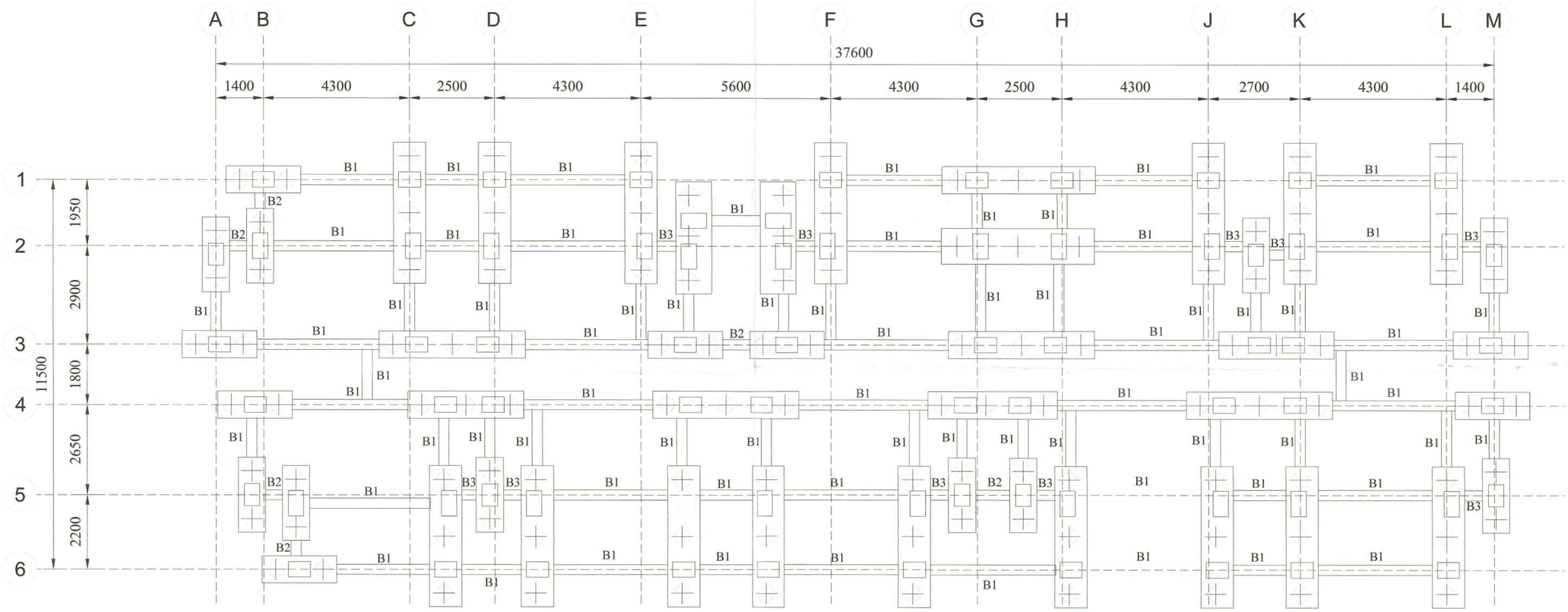
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE:
PILECAP SECTION LAYOUT-BLOCK-3

PAPER SIZE:	A3
DRAWN DATE:	30-01-2024
PROJECT NO:	MS23035_GN-3
SHEET NO:	P005

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- PILE CAP

- GRADE BEAM

GRADE BEAM LAYOUT-BLOCK-4

SCALE 1 : 200

14.8.24

Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

5/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

REV.	DESCRIPTION	DATE
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STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

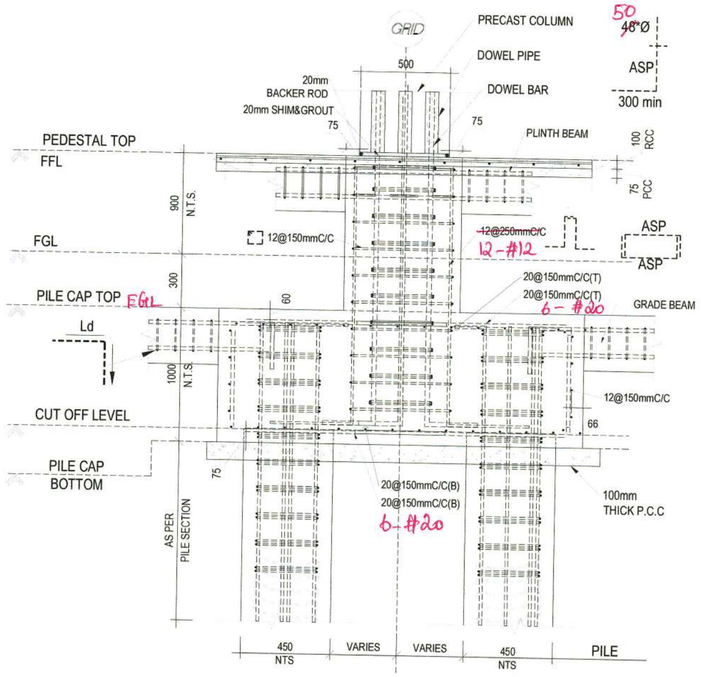
PROJECT:
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE:
GRADE BEAM LAYOUT_BLOCK-4

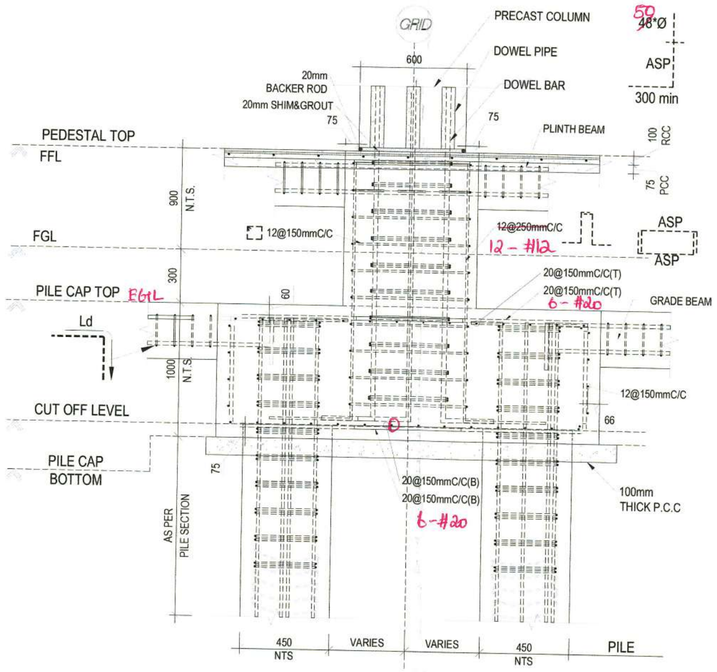
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SHEET NO:	P008

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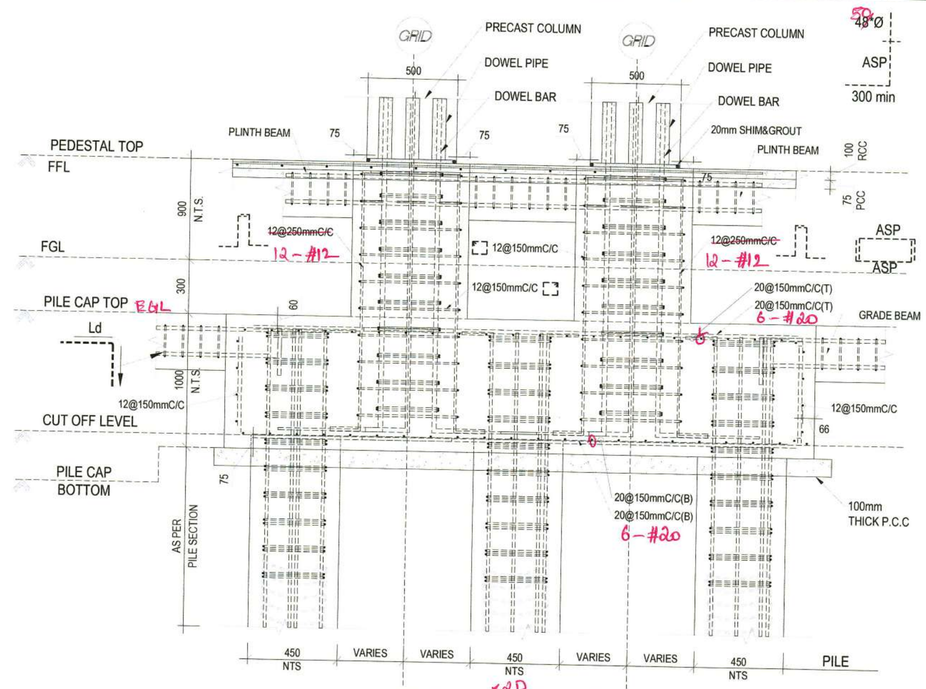
PC-1-PILE CAP SECTION

SCALE 1:50



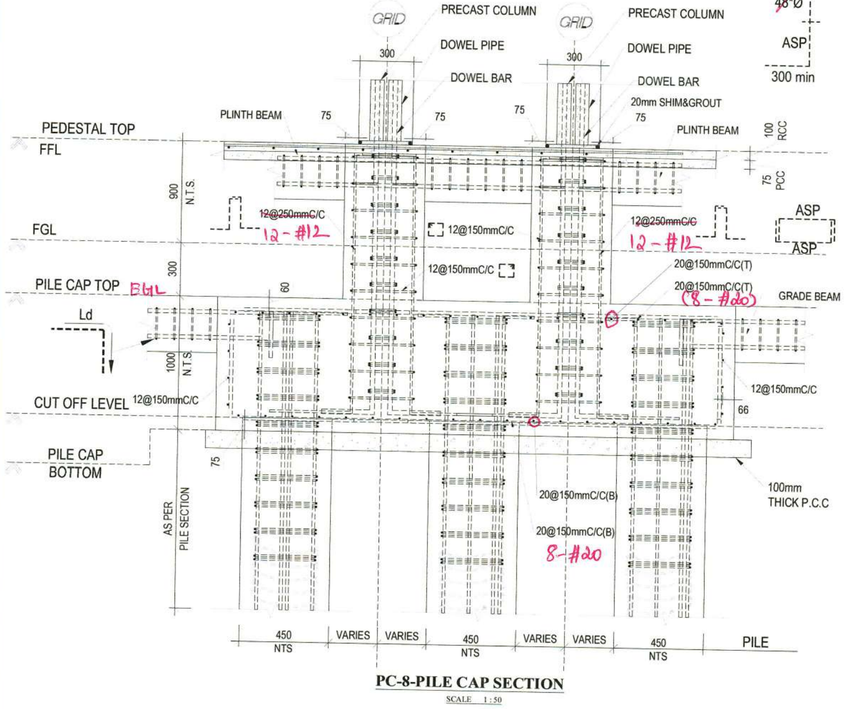
PC-1A-PILE CAP SECTION

SCALE 1:50



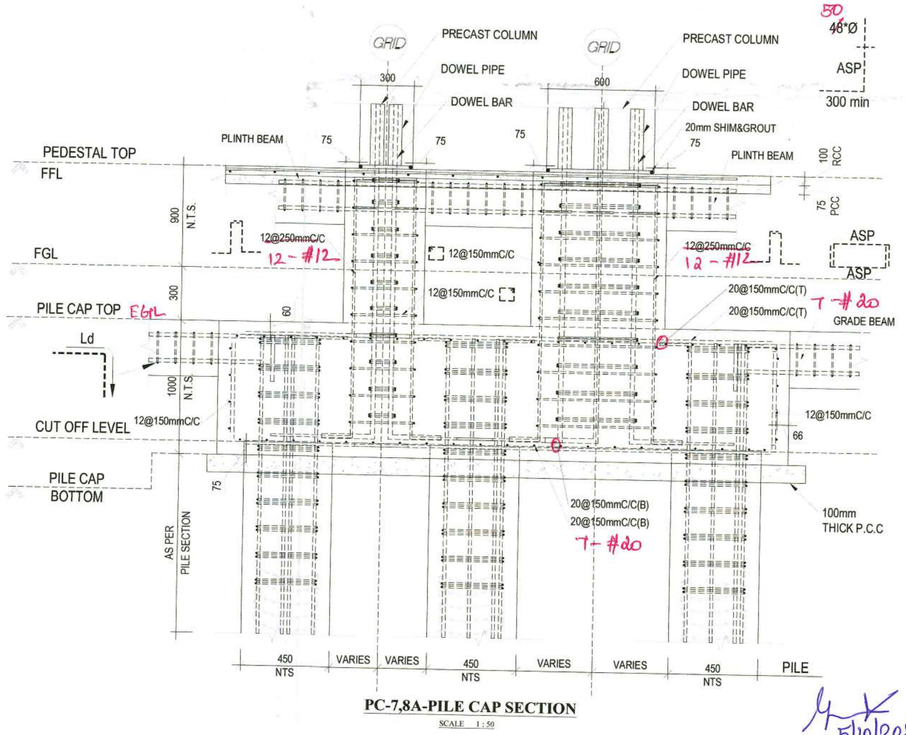
PC-2,2A,2B,2C-PILE CAP SECTION

SCALE 1:50



PC-8-PILE CAP SECTION

SCALE 1:50



PC-7,8A-PILE CAP SECTION

SCALE 1:50

PILE CAP SECTION-BLOCK-4

R1

5/10/2024
EXECUTIVE ENGINEER (Plc)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

14/8/24
Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025

REV.	DESCRIPTION	DATE
R0	ISSUED FOR APPROVAL	30-01-24

CLIENT:
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
No. 5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR
RCCL
RAMALINGAM CONSTRUCTION COMPANY PVT LTD
#17/52 South State Bank Nagar,
Chettipalayam,Erode - 638002,Tamil Nadu.
Tel: 0424 2282389,Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT
METAPHOR
Architects Private Limited
G/POS 2nd Floor, Mogappair West, Chennai - 37.
Tel:+91 44 4555 1541 | info.metaphor@gmail.com

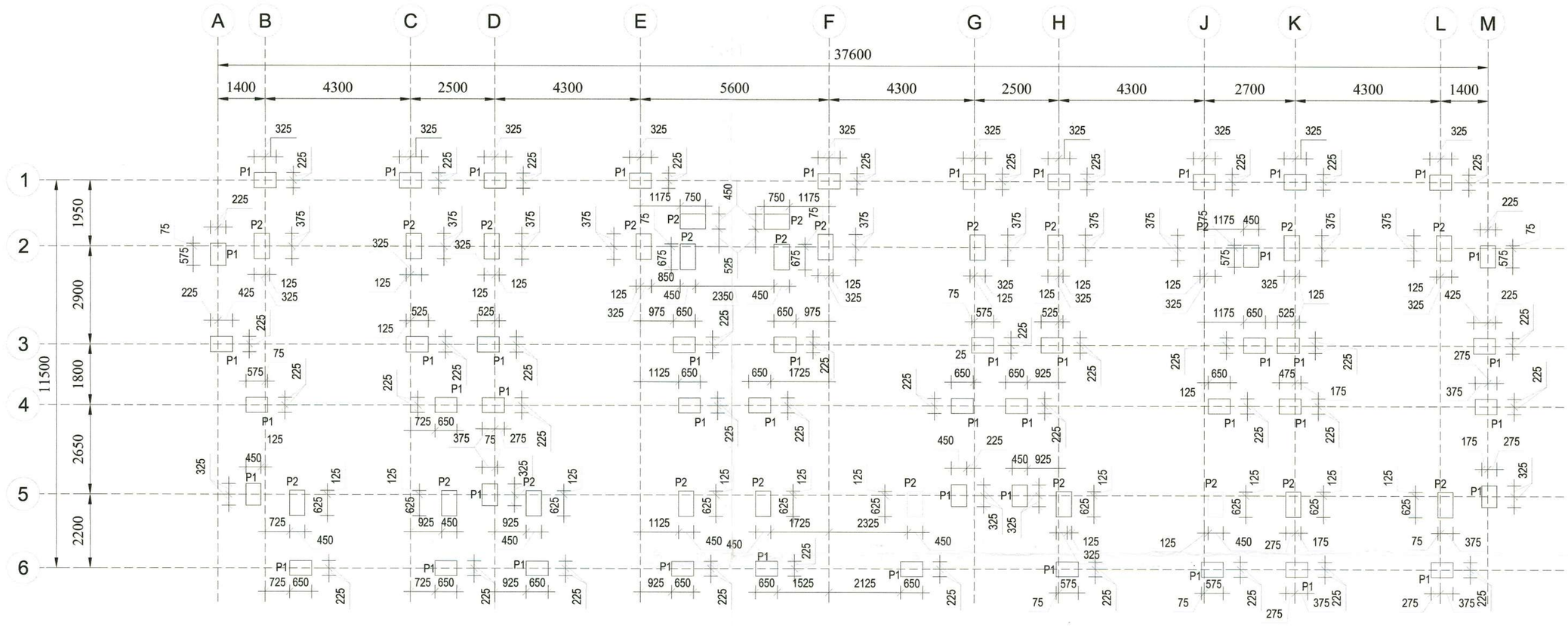
STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

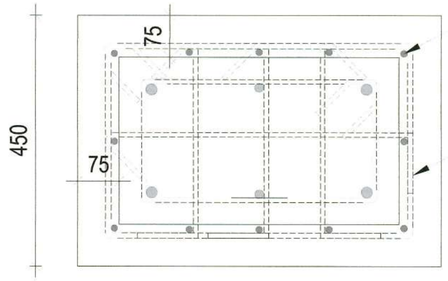
PROJECT:
PLAN SHOWING THE PROPOSED RECONSTRUCTION OF 08 BLOCKS - (G+4) FLOORS WITH 500 RESIDENTIAL UNITS AT **GANDHI NAGAR** BLOCK-4 IN T.S.NO.4 OF BLOCK NO.7 AND T.S.NO.4A OF BLOCK NO. 8, AYANAVARAM VILLAGE, PURASAVAKAM PERAMBUR TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE:
PILECAP SECTION LAYOUT-BLOCK-4

PAPER SIZE:	A3
DRAWN DATE:	30-01-24
PROJECT NO:	MS23035_GN-4
SHEET NO:	P005

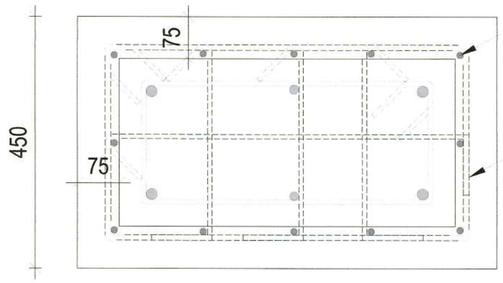




#12Nos. OF 12mm DIA. BAR

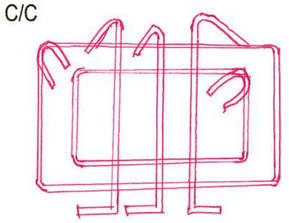
12mm DIA. BAR @150mm C/C

TYPICAL COLUMN
PEDESTAL-**P1**
SCALE 1:16



#12Nos. OF 12mm DIA. BAR

12mm DIA. BAR @150mm C/C



R1

TYPICAL COLUMN
PEDESTAL-**P2**
SCALE 1:16

PEDASTAL LAYOUT-BLOCK-4
SCALE 1 : 200

5/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

14/8/24
Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

MERAKI STRUCTURE COIMBATORE

REV.	DESCRIPTION	DATE
R0	ISSUED FOR APPROVAL	30-01-24

CLIENT:
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
No. 5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR
RCCL
RAMALINGAM CONSTRUCTION COMPANY PVT LTD
#175/2 South State Bank Nagar,
Chattipalayam,Erode - 638002,Tamil Nadu.
Tel: 0424 2282389,Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT
METAPHOR
ARCHITECTS (P) LTD.
D/P/2,2nd Floor, Mogappair West, Chennai - 37.
Tel:+91 44 4355 1341 | info.metaphor@gmail.com

STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

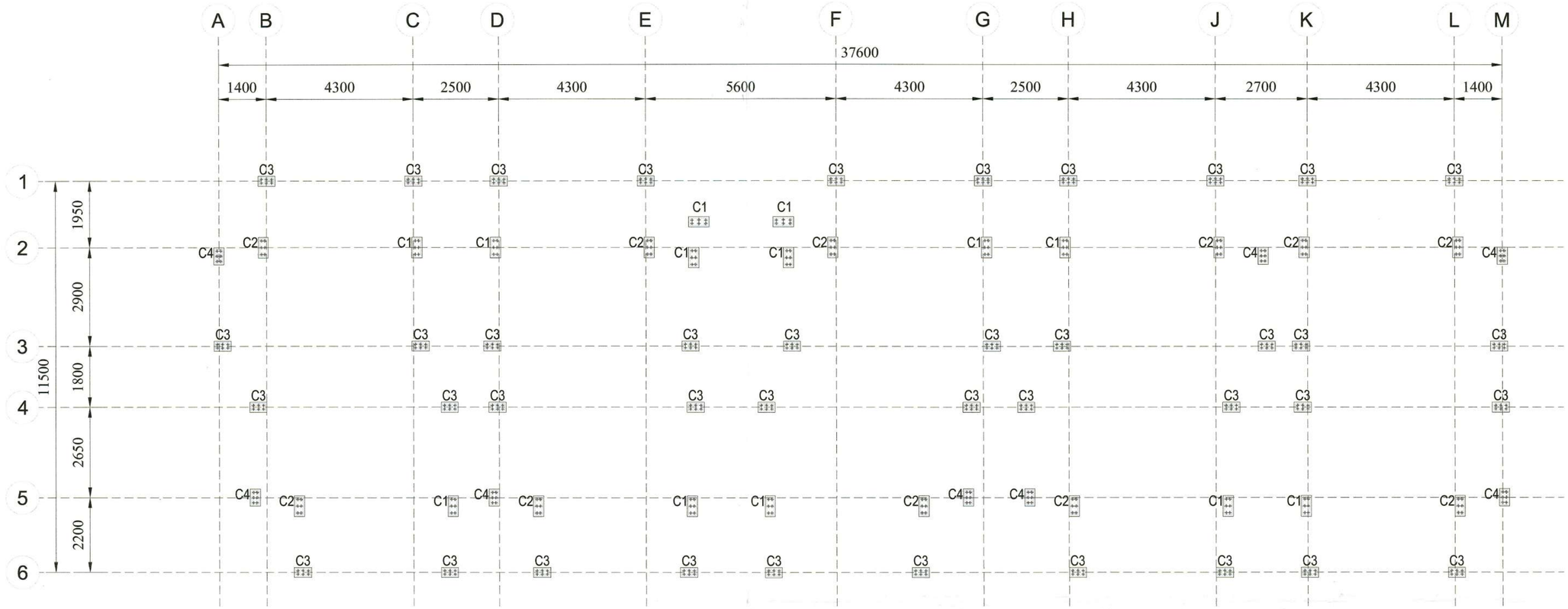
PROJECT:
PLAN SHOWING THE PROPOSED RECONSTRUCTION OF 08 BLOCKS - (G+4) FLOORS WITH 500 RESIDENTIAL UNITS AT **GANDHI NAGAR** BLOCK-4 IN T.S.NO.4 OF BLOCK NO.7 AND T.S.NO.4A OF BLOCK NO. 8, AYANAVARAM VILLAGE, PURASAVAKAM PERAMBUR TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

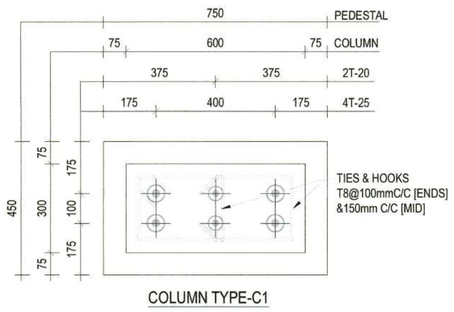
DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE:
PEDASTAL LAYOUT_BLOCK-4
PEDASTAL DETAIL

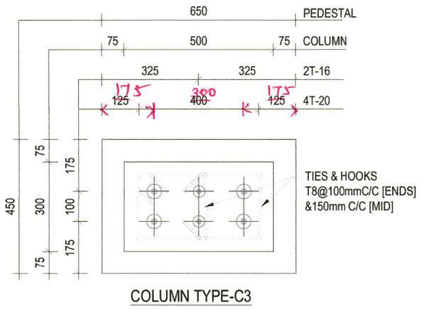
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DRAWN DATE:	30-01-24
PROJECT NO:	MS23035_GN-4
SHEET NO:	P006

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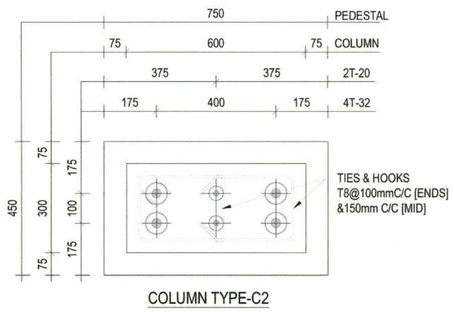
COLUMN TYPE-C1



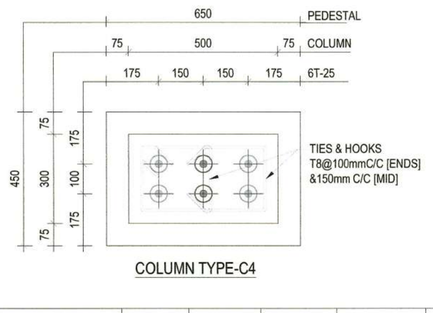
COLUMN TYPE-C3

Note :

The dowel details are for column from pilecap level to plinth level only.



COLUMN TYPE-C2



COLUMN TYPE-C4

DOWEL LAYOUT-BLOCK-4

SCALE 1 : 200

14.8.24

5/10/2024
EXECUTIVE ENGINEER (AK)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO 5, KAMARAJAR SALAI, CHENNAI-600 005.

Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

MERAKI STRUCTURE COIMBATORE

REV.	DESCRIPTION	DATE
R0	ISSUED FOR APPROVAL	30-01-24

CLIENT:
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
No. 5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR
RCCL
RAMALINGAM CONSTRUCTION COMPANY PVT LTD
#175/2 South State Bank Nagar,
Chettipalayam,Erode - 638002,Tamil Nadu.
Tel: 0424 2282389,Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT
METAPHOR Architects Private Limited
MERAKI STRUCTURE

STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

PROJECT:
PLAN SHOWING THE PROPOSED RECONSTRUCTION OF 08 BLOCKS - (G+4) FLOORS WITH 500 RESIDENTIAL UNITS AT **GANDHI NAGAR** BLOCK-4 IN T.S.NO.4 OF BLOCK NO.7 AND T.S.NO.4A OF BLOCK NO. 8, AYANAVARAM VILLAGE, PURASAVAKAM PERAMBUR TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE:
DOWEL LAYOUT_BLOCK-4
x Detail

PAPER SIZE:	A3
DRAWN DATE:	30-01-24
PROJECT NO:	MS23035_GN-4
SHEET NO:	P007

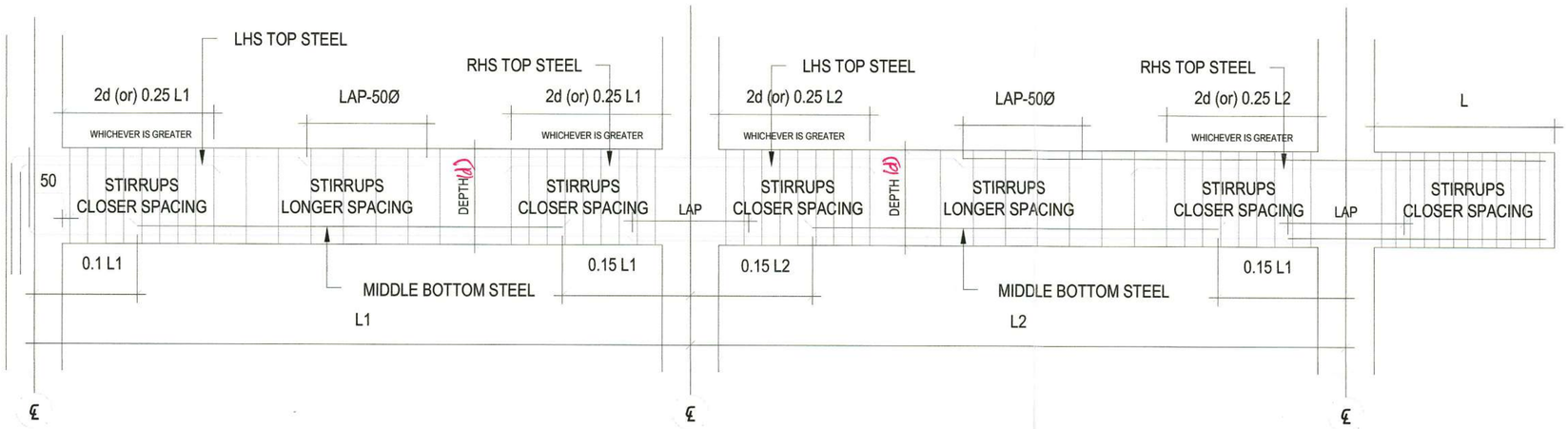
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GRADE BEAM DETAILS

S.NO.	BEAM ID	BEAM SIZE(mm)		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		SIDE FACE	STIRRUPS	
		WIDTH	DEPTH	STRAIGHT BAR	CURTAILMENT	STRAIGHT BAR	CURTAILMENT		END	MIDDLE
1	B1	300	450	#2-T16	#1-T12	#2-T16	#1-T12	-	T8@75mmC/C	T8@150mmC/C
2	B2	300	450	#2-T16	#1-T12	#2-T16	#1-T12	-	T10@75mmC/C	T10@75mmC/C
3	B3	300	450	#2-T16 #1-T12	~~#1-T12~~	#2-T16 #3-T20	~~#1-T12~~	-	T12@75mmC/C	T12@75mmC/C

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE SPECIFIED.
2. DRAWING SHOULD NOT BE SCALED, FOLLOW FIGURED DIMENSIONS.
3. ANY DISCREPANCY IN DRAWING SHALL BE BRING TO NOTICE OF STRUCTURAL CONSULTANT BEFORE EXECUTION OF WORK.
4. THIS DRAWING SHOULD BE READ ALONG WITH THE RELEVANT ARCHITECTURAL DRAWING.
5. IF THERE IS ANY REVISION IN DRAWING, FURTHER CONSTRUCTION SHALL BE EXECUTED AS PER THE LATEST REVISED DRAWING, ON THE ISSUE OF LATEST REVISION.
6. GRADE OF STEEL SHALL BE Fe500D/550D ,
   GRADE OF CONCRETE
   FOR SUPER STRUCTURE [BEAM,COLUMN,WALL,SLAB] - M40
   FOR SUB-STRUCTURE [PILE,PILE CAP,PLINTH & GRADE BEAM] - M30
7. CLEAR COVER FOR
   PILE & PILE CAP :60mm
   COLUMN :40mm
   BEAM :30mm
   SLAB :25mm
8. LAP LENGTH OF BARS : 50Ø [M30],40Ø [M40]
   AT COLUMN LAPPING PROVIDE 100mm SPACING OF TIES.
9. IN CASE OF BEAM REINFORCEMENT, NO LAPPING SHALL BE ALLOWED IN FOLLOWING PLACES
   (a) TOP ROD NEAR COLUMN, L/4 ON EITHER SIDES OF COLUMN
   (b) TOP ROD OF CANTILEVER BEAM ALONG THE LENGTH AND ALSO DEVELOPMENT LENGTH, BEYOND COLUMN
   (c) BOTTOM ROD AT MID SPAN OF BEAM
10. REMOVAL OF SHUTTERING / FORM WORK
   (a) COLUMN : 24 HOURS
   (b) BEAM SIDES : 24 HOURS
   (c) BEAM BOTTOM : LESS THAN 6M SPAN : 14 DAYS
   : MORE THAN 6M SPAN : 28 DAYS
   (d) SLAB : LESS THAN 6M SPAN : 14 DAYS
   : MORE THAN 6M SPAN : 28 DAYS
   HOWEVER 7 DAYS STRENGTH OF CONCRETE SHOULD BE 65% OF THE TARGET STRENGTH, TO REMOVE FORM WORK.
11. THIS BUILDING IS DESIGNED FOR GROUND + 4 FLOORS
12. AS PER SOIL REPORT PILE FOUNDATION IS ADOPTED.
13. AAC BLOCKS TO BE USED FOR ALL MASONRY WORKS FOR SUPERSTRUCTURE.
14. FLYASH BRICKS SHALL BE USED FOR MASONRY WALLS BELOW BASEMENT.



TYPICAL LAPPING & CURTAILMENT DETAILS OF BEAM

GRADE BEAM SECTION LAYOUT-BLOCK-4

14/8/24
Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

5/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

MERAKI STRUCTURE COIMBATORE

REV.	DESCRIPTION	DATE
R0	ISSUED FOR APPROVAL	30-01-24

CLIENT:
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
No. 5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR
RCCL
RAMALINGAM CONSTRUCTION COMPANY PVT LTD
#175/2 South State Bank Nagar,
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COMPREHENSIVE CONSULTANT
METAPHOR Architects Private Limited
G2/PG8 2nd Floor, Mogappair West, Chennai - 37.
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STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

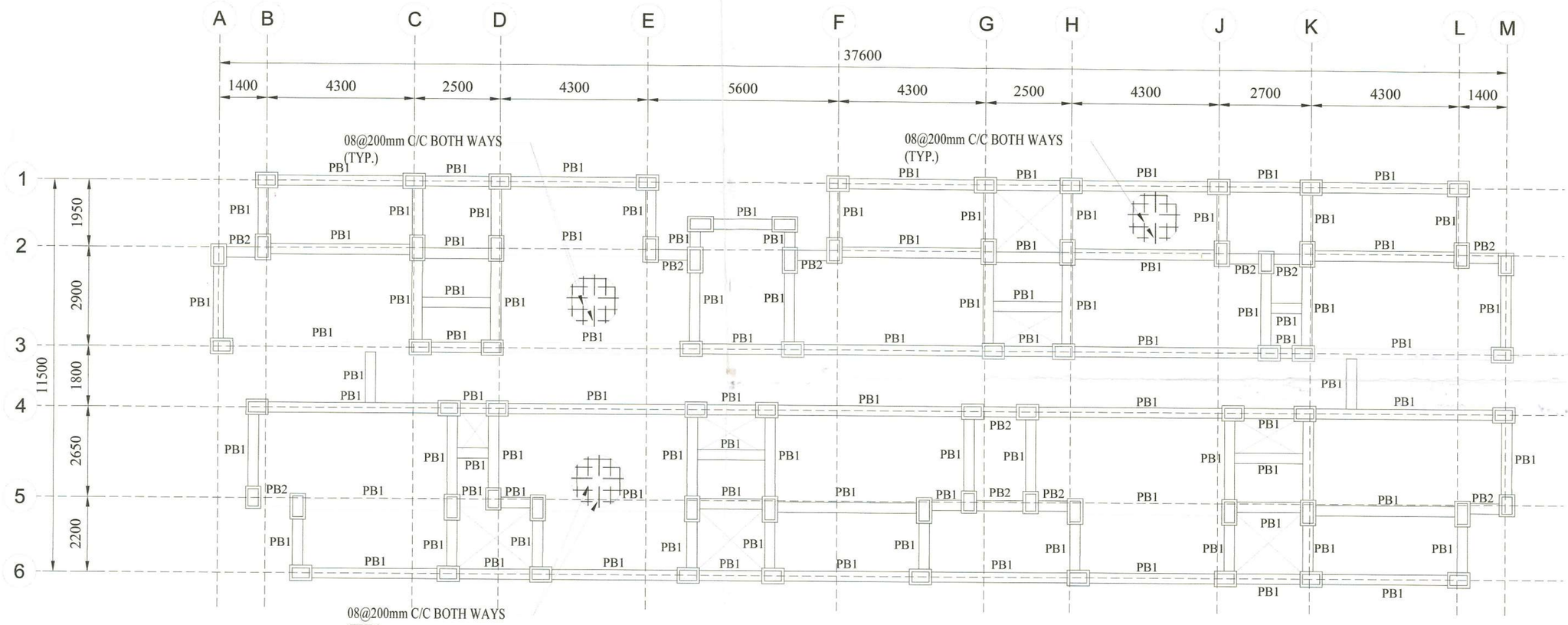
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE:
Section
GRADE BEAM LAYOUT_BLOCK-4

PAPER SIZE:	A3
DRAWN DATE:	30-01-24
PROJECT NO:	MS23035_GN-4
SHEET NO:	P009

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- PEDESTAL

- PLINTH BEAM

PLINTH BEAM LAYOUT-BLOCK-4

SCALE 1 : 200

R1

14.8.24

Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025

5/10/2024
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STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

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COMPREHENSIVE CONSULTANT
METAPHOR
Architects Private Limited

STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

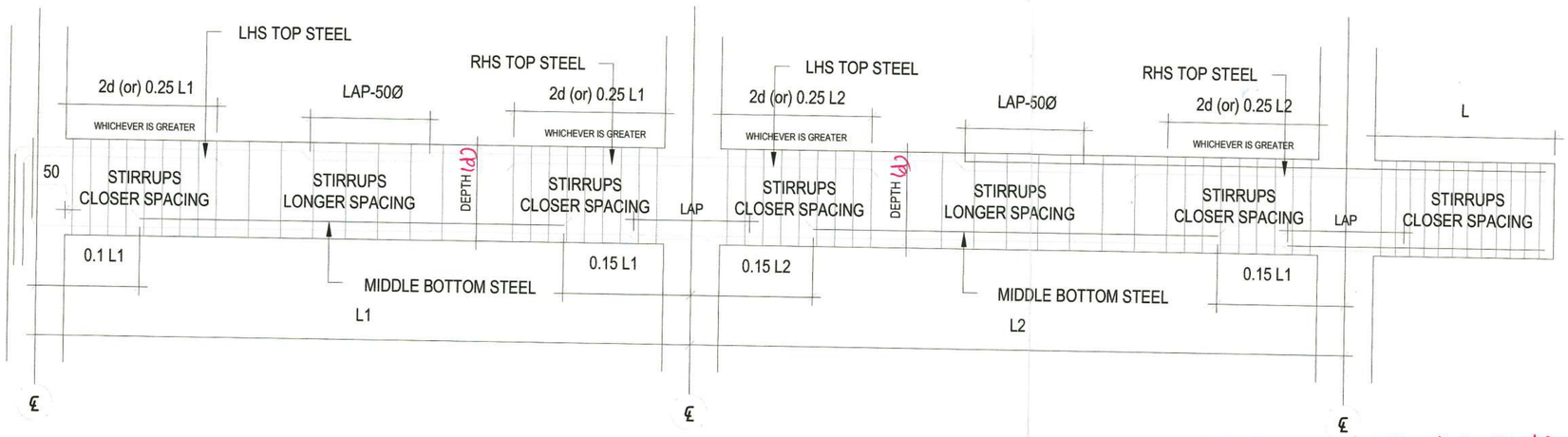
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

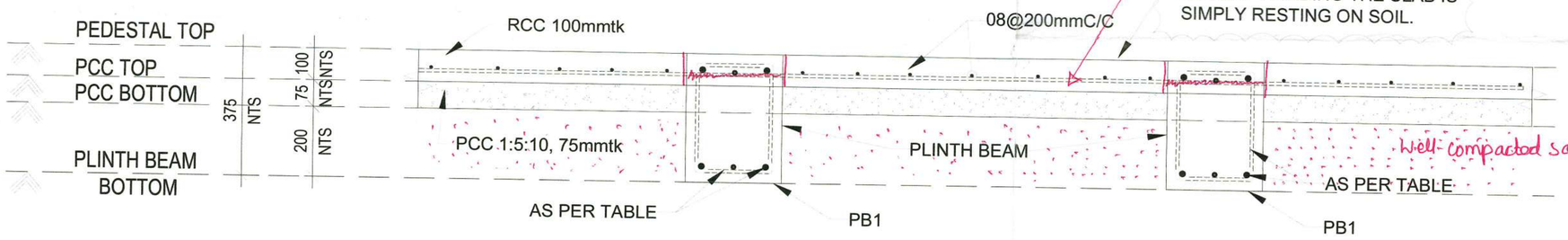
TITLE: PLINTH BEAM LAYOUT_BLOCK-4

PAPER SIZE:	A3
DRAWN DATE:	30-01-24
PROJECT NO:	MS23035_GN-4
SHEET NO:	P010

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TYPICAL LAPPING & CURTAILMENT DETAILS OF BEAM



Slab bars should not be Continued onto plinth Beam.

NOTE:REGARDING THE SLAB IS SIMPLY RESTING ON SOIL.

Well-compacted soil.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETER, UNLESS OTHERWISE SPECIFIED.
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   GRADE OF CONCRETE
   FOR SUPER STRUCTURE [BEAM,COLUMN,WALL,SLAB] - M40
   FOR SUB-STRUCTURE [PILE,PILE CAP,PLINTH & GRADE BEAM] - M30
7. CLEAR COVER FOR
   PILE & PILE CAP :60mm
   COLUMN :40mm
   BEAM :30mm
   SLAB :25mm
8. LAP LENGTH OF BARS : 50Ø [M30],40Ø [M40]
   AT COLUMN LAPPING PROVIDE 100mm SPACING OF TIES.
9. IN CASE OF BEAM REINFORCEMENT, NO LAPPING SHALL BE ALLOWED IN FOLLOWING PLACES
(a) TOP ROD NEAR COLUMN, L/4 ON EITHER SIDES OF COLUMN
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: MORE THAN 6M SPAN : 28 DAYS
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: MORE THAN 6M SPAN : 28 DAYS

HOWEVER 7 DAYS STRENGTH OF CONCRETE SHOULD BE 65% OF THE TARGET STRENGTH, TO REMOVE FORM WORK.

11. THIS BUILDING IS DESIGNED FOR GROUND + 4 FLOORS
12. AS PER SOIL REPORT PILE FOUNDATION IS ADOPTED.
13. AAC BLOCKS TO BE USED FOR ALL MASONRY WORKS FOR SUPERSTRUCTURE.
14. FLYASH BRICKS SHALL BE USED FOR MASONRY WALLS BELOW BASEMENT.

R1

SCREEDING DETAIL

PLINTH BEAM DETAILS

S.NO.	BEAM ID	BEAM SIZE(mm)		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		CIP REINFORCEMENT		SIDE FACE	STIRRUPS	
		WIDTH	DEPTH	STRAIGHT BAR	CURTAILMENT	STRAIGHT BAR	CURTAILMENT	STRAIGHT BAR	CURTAILMENT		END	MIDDLE
1	PB1	300	375	#2-T16	#1-T12	#2-T16	#1-T12	-	-	-	T8@75mmC/C	T8@150mmC/C
2	PB2	300	375	#2-T16	#1-T12	#2-T16	#1-T12	-	-	-	T10@75mmC/C	T10@100mmC/C

PLINTH BEAM SECTION LAYOUT-BLOCK-4

14.8.24
Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

5/10/2024
EXECUTIVE ENGINEER(A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

MERAKI STRUCTURE COIMBATORE

REV.	DESCRIPTION	DATE
R0	ISSUED FOR APPROVAL	30-01-24

CLIENT: TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD, No.5 Kamarajar Salai, Chennai - 600005,Tamil Nadu. Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR: RAMALINGAM CONSTRUCTION COMPANY PVT LTD, #17/52 South State Bank Nagar, Chettipalayam,Erode - 638002,Tamil Nadu. Tel: 0424 2282389,Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT: METAPHOR Architects Private Limited

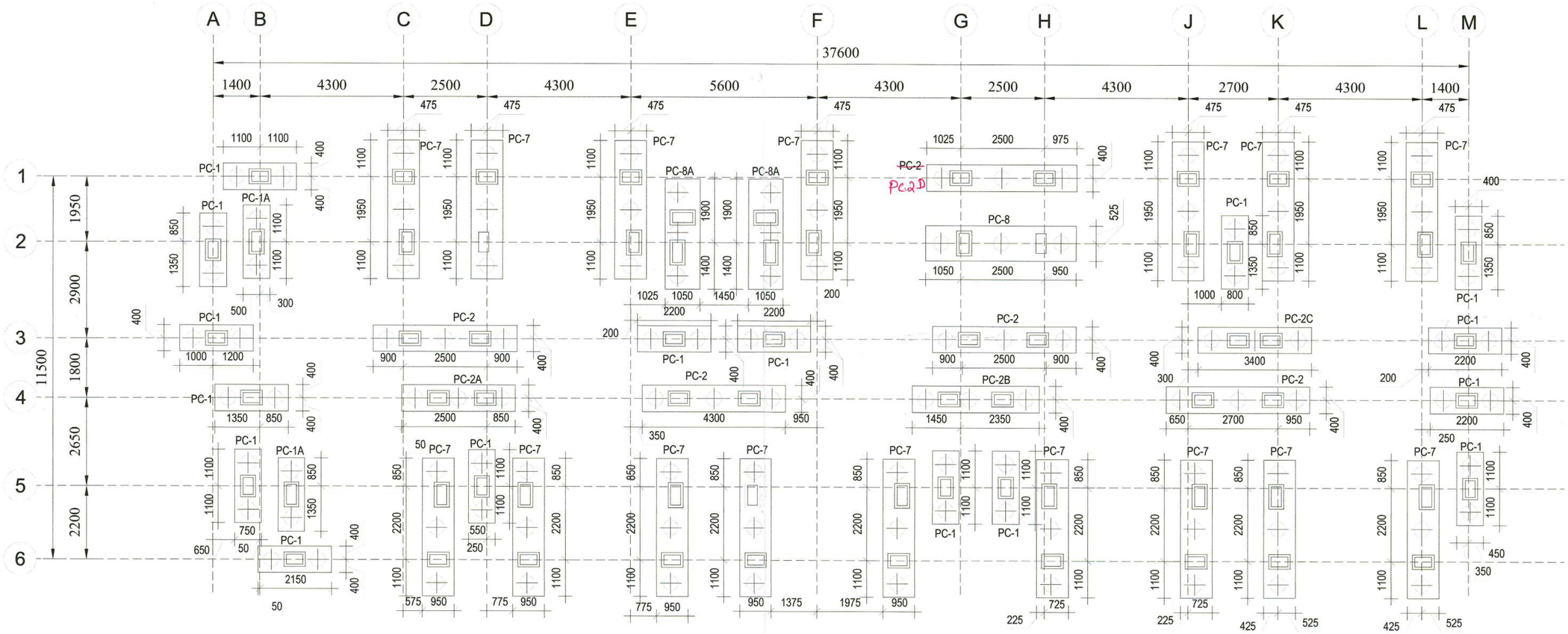
STRUCTURAL CONSULTANT: MERAKI STRUCTURE, COIMBATORE, TAMIL NADU 641035

PROJECT: PLAN SHOWING THE PROPOSED RECONSTRUCTION OF 08 BLOCKS - (G+4) FLOORS WITH 500 RESIDENTIAL UNITS AT **GANDHI NAGAR** BLOCK-4 IN T.S.NO.4 OF BLOCK NO.7 AND T.S.NO.4A OF BLOCK NO. 8, AYANAVARAM VILLAGE, PURASAVAKAM PERAMBUR TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: PLINTH BEAM SECTION LAYOUT_BLOCK-4

PAPER SIZE:	A3
DRAWN DATE:	30-01-24
PROJECT NO:	MS23035_GN-4
SHEET NO:	P011



PILECAP LAYOUT-BLOCK-4

SCALE 1 : 200

5/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

14.8.24

Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

MERAKI STRUCTURE COIMBATORE

REV.	DESCRIPTION	DATE
R0	ISSUED FOR APPROVAL	30-01-24

CLIENT:
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
No. 5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR
RCCL
RAMALINGAM CONSTRUCTION COMPANY PVT LTD
#175/2 South State Bank Nagar,
Chettipalayam,Erode - 638002,Tamil Nadu.
Tel: 0424 2282389,Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT
METAPHOR Architects Private Limited
02/FOI,2nd Floor, Mogappair West, Chennai - 37.
Tel:+91 44 4355 1341 | info.metaphor@gmail.com

STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

PROJECT:
PLAN SHOWING THE PROPOSED RECONSTRUCTION OF 08 BLOCKS - (G+4) FLOORS WITH 500 RESIDENTIAL UNITS AT **GANDHI NAGAR** BLOCK-4 IN T.S.NO.4 OF BLOCK NO.7 AND T.S.NO.4A OF BLOCK NO. 8, AYANAVARAM VILLAGE, PURASAVAKAM PERAMBUR TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: PILECAP LAYOUT_BLOCK-4

PAPER SIZE:	A3
DRAWN DATE:	30-01-24
PROJECT NO:	MS23035_GN-4
SHEET NO:	P003

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	DIMENSION						BOTTOM REINFORCEMENT		Bursting Reinforcement.
PILECAP ID	LENGTH	BREADTH	NO OF BARS(LONGER SPAN WISE)	DEPTH	X DIRECTION	Y DIRECTION	X DIRECTION	Y DIRECTION	SIDEFACE REINF.
PC-1	2200	800	6	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-1A	2200	800	6	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-2	4300	800	6	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-2A	3400	800	6	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-2B	3800	800	6	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-2C	3400	800	6	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-7	4150	950	7	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-8	4500	1050	~~7~~ 8	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-8A	3300	1050	7	1000	20@150mm C/C	20@150mm C/C	20@150mm C/C	20@150mm C/C	12@150mm C/C
PC-2D	4500	800	6	1000	20@150 C/C	20@150 C/C	20@150 C/C	20@150 C/C	12@150 C/C

R1

PILE CAP SECTION-BLOCK-4

3/10/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

14.8.24
Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

MERAKI STRUCTURE COIMBATORE

REV.	DESCRIPTION	DATE
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CLIENT:
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
No. 5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR
RCCL
RAMALINGAM CONSTRUCTION COMPANY PVT LTD
#17/52,South State Bank Nagar,
Chattipalayam,Erode - 638002,Tamil Nadu.
Tel: 0424 2282389,Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT
METAPHOR
ARCHITECTS PRIVATE LIMITED
G2/P08,2nd Floor, Mogappair West, Chennai - 37
Tel:+91 44 4355 1341 | info.metaphor@gmail.com

STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

PROJECT:
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: PILECAP SECTION LAYOUT_BLOCK-4

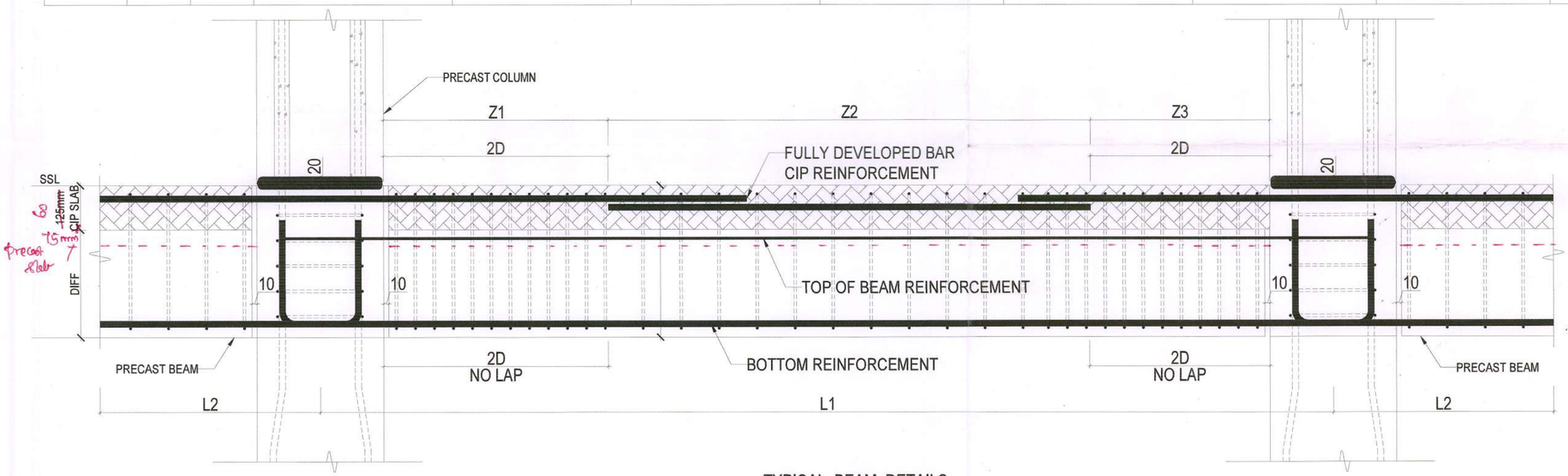
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DRAWN DATE:	30-01-24
PROJECT NO:	MS23035_GN-4
SHEET NO:	P004

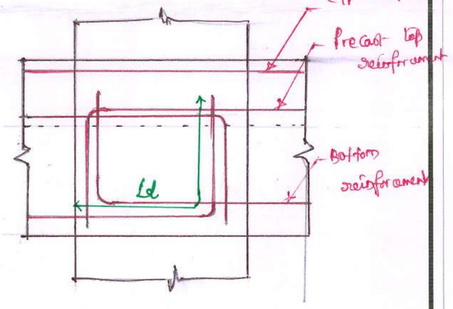
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SCHEDULE OF ROOF BEAM

*CIS-CAST IN SITU

BEAM ID	BEAM		BOTTOM REINFORCEMENT		PRECAST TOP REINFORCEMENT		CIP REINFORCEMENT		SIDE FACE	STIRRUPS	
	WIDTH	DEPTH	STRAIGHT BAR	CURTAILMENT	STRAIGHT BAR	CURTAILMENT	STRAIGHT BAR	CURTAILMENT		END (Z1 / Z3)	MIDDLE (Z2)
B1	200	450	2#16	-	2#12	-	2#16	-	-	8@75C/C	8@150C/C
B2	200	450	2#16	-	2#12	-	2#16	-	-	8@75C/C	8@150C/C
B3	200	450	2#16	-	2#12	-	2#12	-	-	8@75C/C	8@~~150~~125C/C
B4	300	450	2#16	-	2#12	-	2#16	-	-	8@150C/C	8@150C/C
B5	200	300	2#12	-	-	-	2#12	-	-	8@125C/C	8@125C/C
B6	300	300	2#16	-	-	-	2#16	-	-	10@150C/C	10@150C/C
B7	200	450	2#16	-	-	-	2#16	-	-	8@150C/C	8@150C/C
CIS	300	450	2#16	-	-	-	2#16	-	-	10@~~150~~125C/C	10@~~150~~125C/C
B8	200	450	2#16	-	2#12	-	2#16	-	-	10@75C/C	10@125C/C





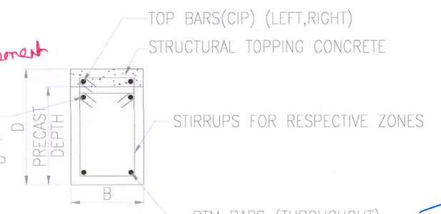
TYPICAL BEAM DETAILS

NOTES:

1. GRADE OF STEEL SHALL BE -Fe500D/550D
2. GRADE OF CONCRETE
   FOR SUPER STRUCTURE
   [BEAM,COLUMN,WALL,SLAB] - M40
   FOR SUB-STRUCTURE
   [PILE,PILE CAP,PLINTH & GRADE BEAM] - M30
3. CLEAR COVER FOR
   PILE : 75mm
   PILECAP : 50mm
   COLUMN : 40mm
   BEAM : ~~25mm~~ 30mm
   SLAB : 20mm 25 mm

Note :

4. Precast top reinforcement and bottom reinforcement shall be provided with anchorage length beyond the inner face of column equal to development length of bars



TYPICAL CROSS SECTION OF BEAM

S.F.R.– SIDE FACE REINFORCEMENT

4/10/2024
EXECUTIVE ENGINEER (AK)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

1.8.24
Dr. K.P. JAYA
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Department of Civil Engineering
Anna University, Chennai - 600 025.

MERAKI STRUCTURE COIMBATORE

REV.	DESCRIPTION	DATE
R0	ISSUED FOR APPROVAL	04-11-2023

CLIENT:
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
No. 5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR
RAMALINGAM CONSTRUCTION COMPANY PVT LTD
#175/2 South State Bank Nagar,
Chettipalayam,Erode - 638002,Tamil Nadu.
Tel: 0424 2282369,Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT
METAPHOR Architects Private Limited

STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

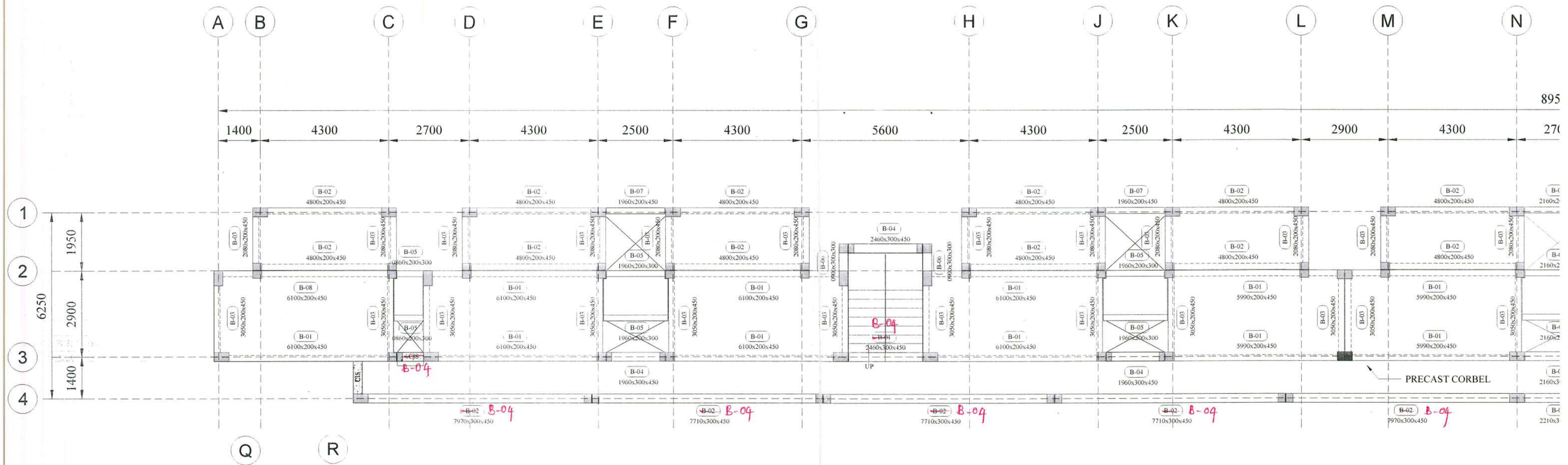
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE:
BEAM INTENT-BLOCK-1&2 DETAIL

PAPER SIZE:	A3
DRAWN DATE:	02-03-2024
PROJECT NO:	MS23035_GN-1&2
SHEET NO:	I - 04

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TYPICAL BEAM LAYOUT-BLOCK-1&2(1st,2nd,3rd,ROOF LEVEL)

SCALE 1 : 200

EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

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Anna Univ sity, Chennai - 600 025.

MERAKI STRUCTURE COIMBATORE

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CLIENT: TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD, No. 5 Kamarajar Salai, Chennai - 600005,Tamil Nadu. Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR: RAMALINGAM CONSTRUCTION COMPANY PVT LTD, #175/2 South State Bank Nagar, Chattipalayam,Erode - 638002,Tamil Nadu. Tel: 0424 2282389,Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT: METAPHOR Architects Private Limited

STRUCTURAL CONSULTANT: MERAKI STRUCTURE, COIMBATORE, TAMIL NADU 641035

PROJECT: PLAN SHOWING THE PROPOSED RECONSTRUCTION OF 08 BLOCKS - (G+4) FLOORS WITH 500 RESIDENTIAL UNITS AT **GANDHI NAGAR BLOCK-1&2** IN T.S NO.4 OF BLOCK NO.7 AND T.S NO.4A OF BLOCK NO. 8, AYANAVARAM VILLAGE, PURASAVAKAM PERAMBUR TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

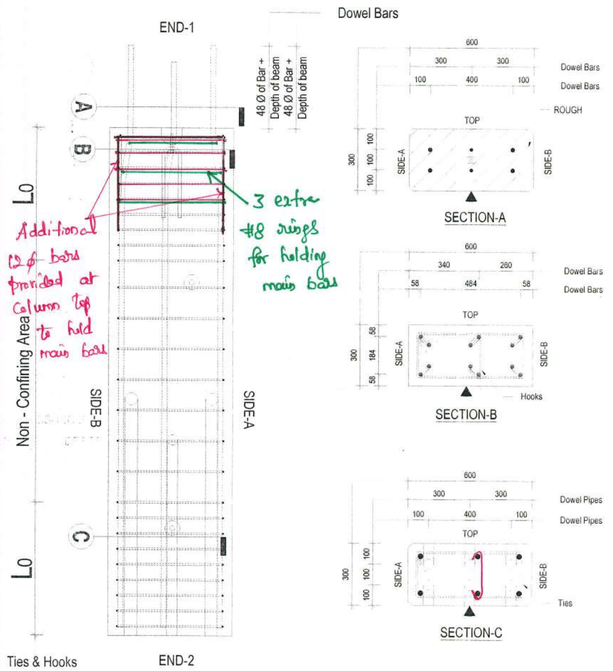
DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: TYPICAL FLOOR BEAM INTENT-BLOCK-1&2

PAPER SIZE:	A3
DRAWN DATE:	02-03-2024
PROJECT NO:	MS23035_GN-1&2
SHEET NO:	I - 03A

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COLUMN GENERAL DETAIL-1

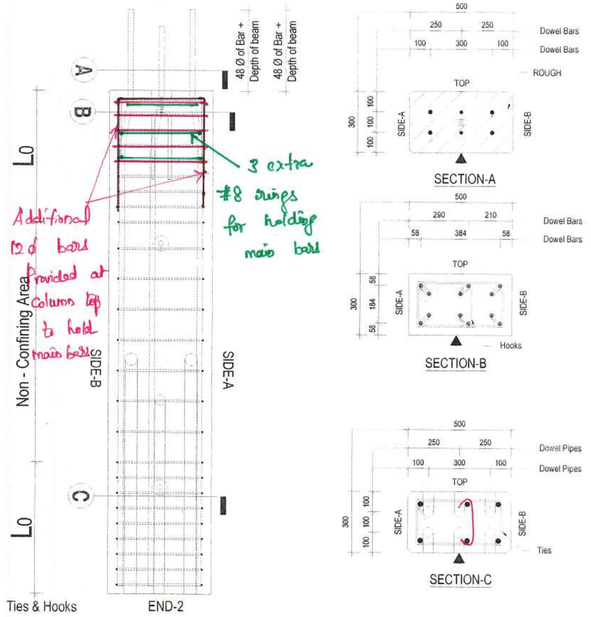


SECTION-A

SECTION-B

SECTION-C

COLUMN GENERAL DETAIL-2



SECTION-A

SECTION-B

SECTION-C

NOTES:

1. GRADE OF STEEL SHALL BE - Fe500D/550D
2. GRADE OF CONCRETE
   FOR SUPER STRUCTURE
   [SE-H COLUMN,WALL,SLAB] - M40
   FOR SUB STRUCTURE
   [PILE PILE CAP,PLINTH & GRADE BEAM] - M30
3. CLEAR COVER FOR
   PILE : 75mm
   PILECAP : 50mm
   COLUMN : 40mm
   BEAM : ~~25mm~~ 30 mm
   SLAB : ~~20mm~~ 25 mm

COLUMN ID	FLOOR	DIMENSION		GRADE	MAIN BAR DOWEL	SHEAR LINKS/CONFINEMENT	
		BREADTH	DEPTH			CONFINEMENT END(L0=500mm)	SHEAR LINKS
C1	GF	300	600	M40	4#25+2#20	08@75mm C/C	8@150 C/C
C2	GF	300	600	M40	4#32+2#20	08@75mm C/C	8@150 C/C
C3	1F	300	500	M40	4#20+2#16	08@75mm C/C	8@150 C/C
	2F	300	500		4#20+2#16	08@75mm C/C	8@150 C/C
	3F	300	500		4#20+2#16	08@75mm C/C	8@150 C/C
	4F	300	500		4#20+2#16	08@75mm C/C	8@150 C/C
	TERRACE	300	500		4#20+2#16	08@75mm C/C	8@150 C/C
C6	GF, 1F	300	500	M40	6#20	08@75mm C/C	8@150 C/C
	2F	300	500		6#20	08@75mm C/C	8@150 C/C
	3F	300	500		6#20	08@75mm C/C	8@150 C/C
	4F	300	500		6#20	08@75mm C/C	8@150 C/C
	TERRACE	300	500		6#20	08@75mm C/C	8@150 C/C
C9	1F	300	500	M40	4#25+2#12	08@75mm C/C	8@150 C/C
	2F	300	500		4#25+2#12	08@75mm C/C	8@150 C/C
	3F	300	500		4#25+2#12	08@75mm C/C	8@150 C/C
	4F	300	500		4#25+2#12	08@75mm C/C	8@150 C/C
	TERRACE	300	500		4#25+2#12	08@75mm C/C	8@150 C/C
C11	1F	300	500	M40	4#25+2#20	08@75mm C/C	8@150 C/C
	2F	300	500		4#25+2#20	08@75mm C/C	8@150 C/C
	3F	300	500		4#25+2#20	08@75mm C/C	8@150 C/C
	4F	300	500		4#25+2#20	08@75mm C/C	8@150 C/C
	TERRACE	300	500		4#25+2#20	08@75mm C/C	8@150 C/C
C12	GF	300	500	M40	4#20+2#12	08@75mm C/C	8@150 C/C
	1F	300	500		4#20+2#12	08@75mm C/C	8@150 C/C
	2F	300	500		4#20+2#12	08@75mm C/C	8@150 C/C
	3F	300	500		4#20+2#12	08@75mm C/C	8@150 C/C
	4F	300	500		4#20+2#12	08@75mm C/C	8@150 C/C
	TERRACE	300	500		4#20+2#12	08@75mm C/C	8@150 C/C
C13	GF	300	500	M40	6#16	08@75mm C/C	8@150 C/C
	1F	300	500		6#16	08@75mm C/C	8@150 C/C
	2F	300	500		6#16	08@75mm C/C	8@150 C/C
	3F	300	500		6#16	08@75mm C/C	8@150 C/C
	4F	300	500		6#16	08@75mm C/C	8@150 C/C
	TERRACE	300	500		6#16	08@75mm C/C	8@150 C/C

1/8.24

Dr. K.P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

4/10/2024
EXECUTIVE ENGINEER (A/C)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

REV.	DESCRIPTION	DATE
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CLIENT:
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COMPREHENSIVE CONSULTANT
METAPHOR

STRUCTURAL CONSULTANT
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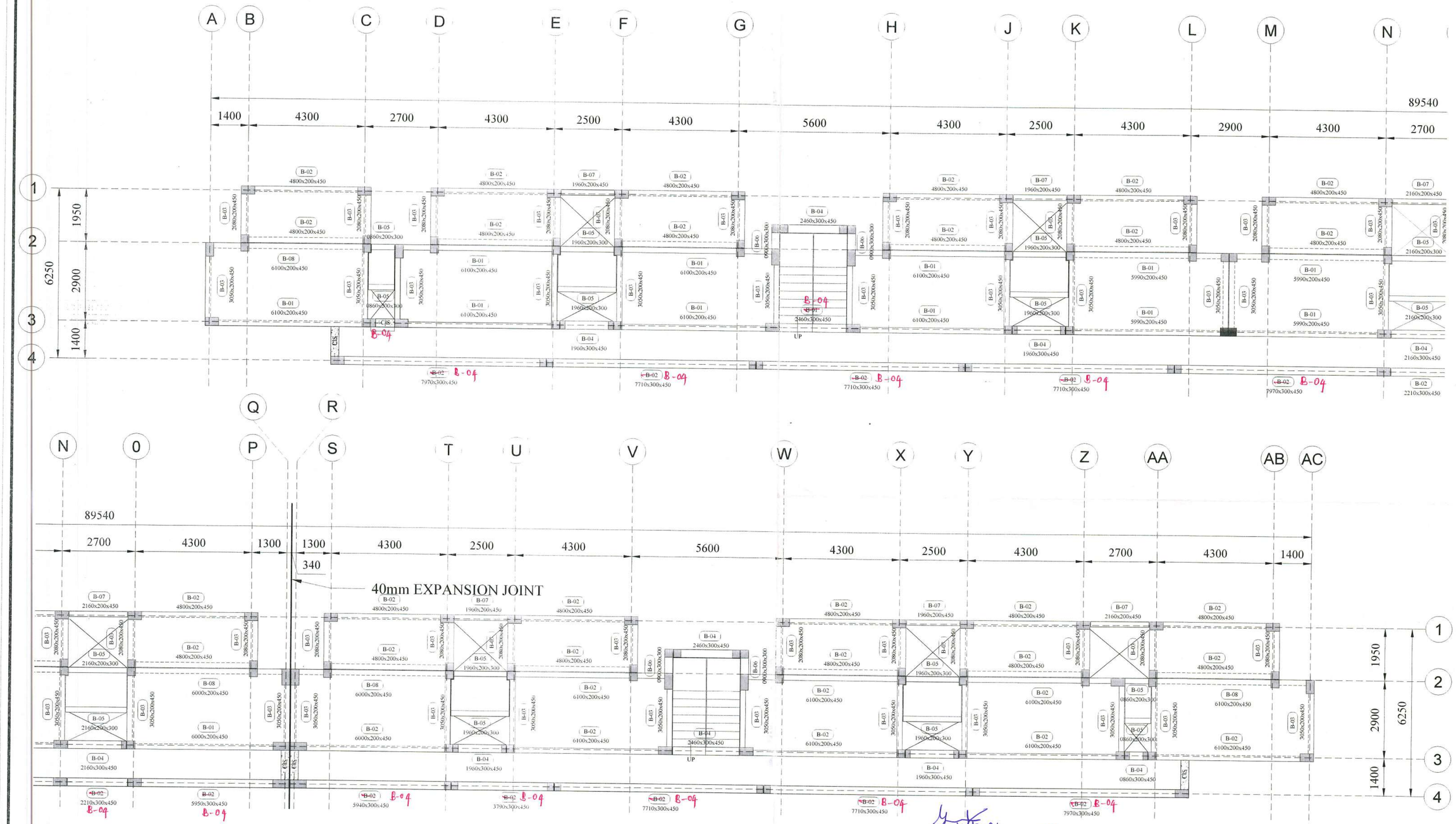
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MRY	SK	SJS	SJS
DRAWN	DESIGN	CHECKED	APPROVED

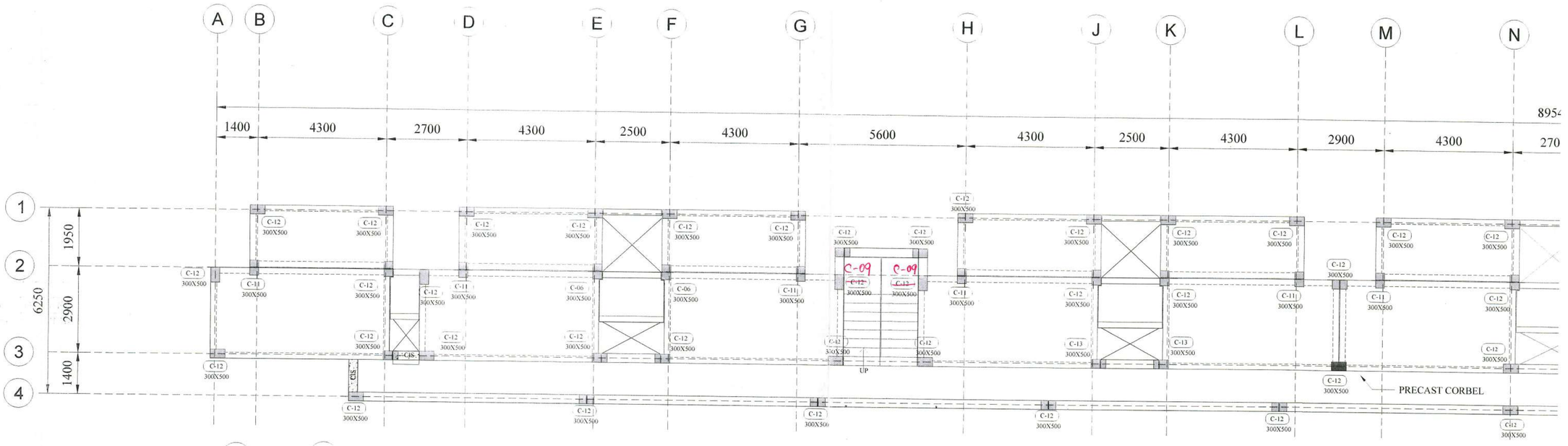
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COLUMN INTENT-BLOCK-1&2 DETAIL

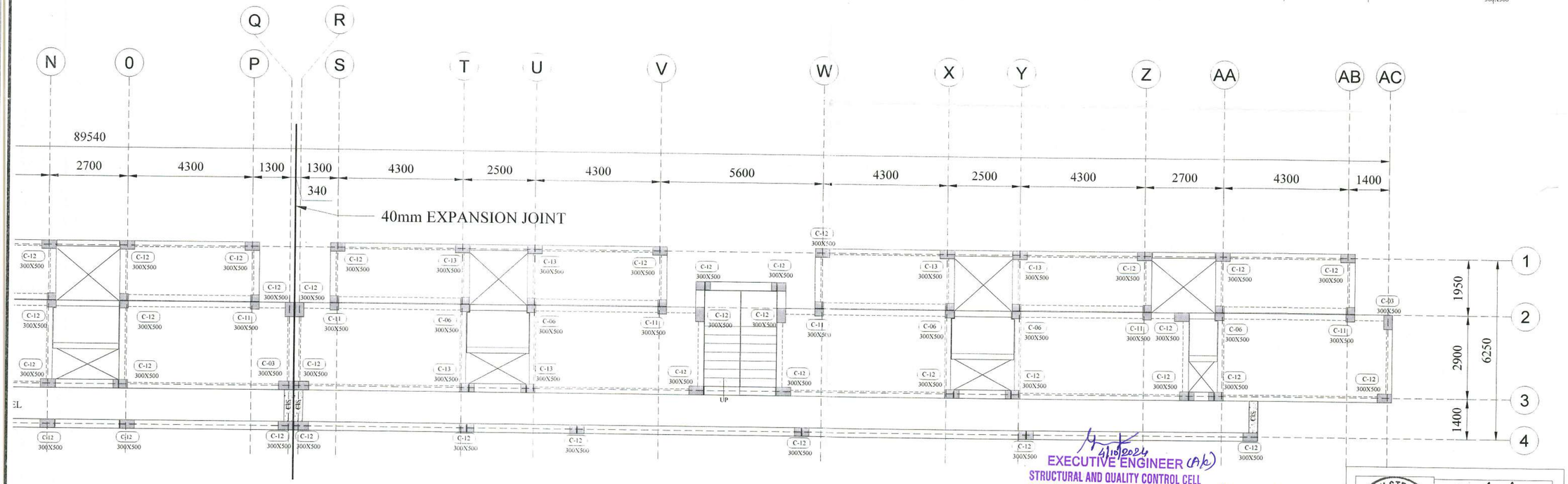
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SHEET NO:	I - 02

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B-01 5990x200x450
B-02 7970x300x450
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SJS
UP

B-04 B-04 B-04





4/15/2024
EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

7/18.04

Dr. K.P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai
TYPICAL FLOOR 600 025.

MERAKI STRUCTURE COIMBATORE

TYPICAL PRECAST COLUMN LAYOUT-BLOCK-1&2(1st,2nd,3rd,ROOF LEVEL)

SCALE 1 : 200

REV.	DESCRIPTION	DATE
R0	ISSUED FOR APPROVAL	04-11-2023

CLIENT:
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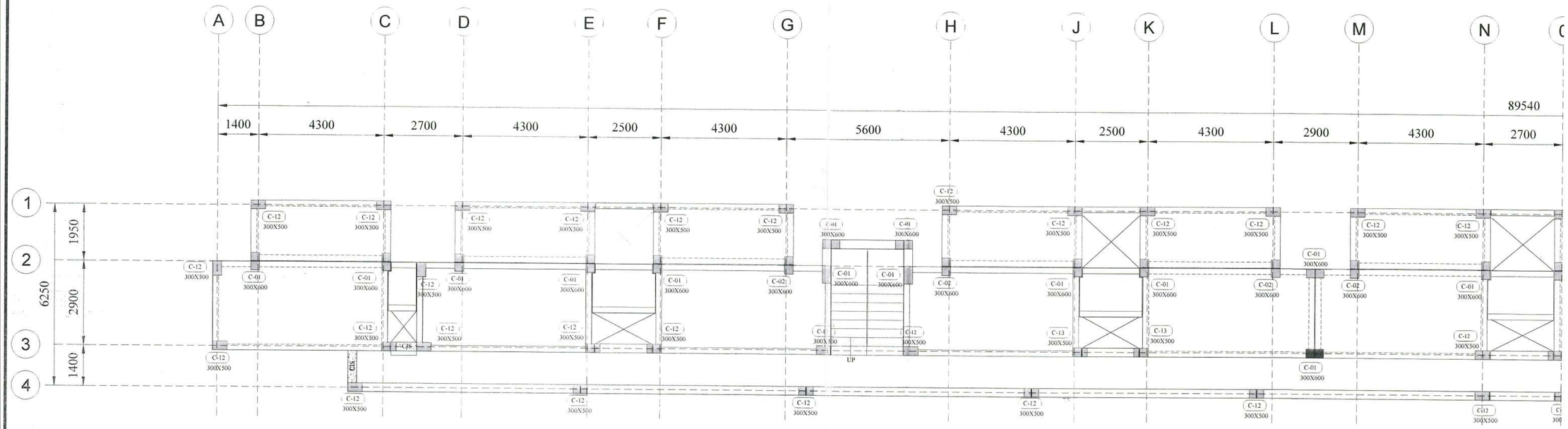
PROJECT:
PLAN SHOWING THE PROPOSED RECONSTRUCTION OF 08 BLOCKS - (G+4) FLOORS WITH 500 RESIDENTIAL UNITS AT **GANDHI NAGAR BLOCK-1&2** IN T.S NO.4 OF BLOCK NO.7 AND T.S NO.4A OF BLOCK NO. 8, AYANAVARAM VILLAGE, PURASAVAKAM PERAMBUR TALUK, WITHIN THE LIMITS OF GREATER CHENNAI CORPORATION.

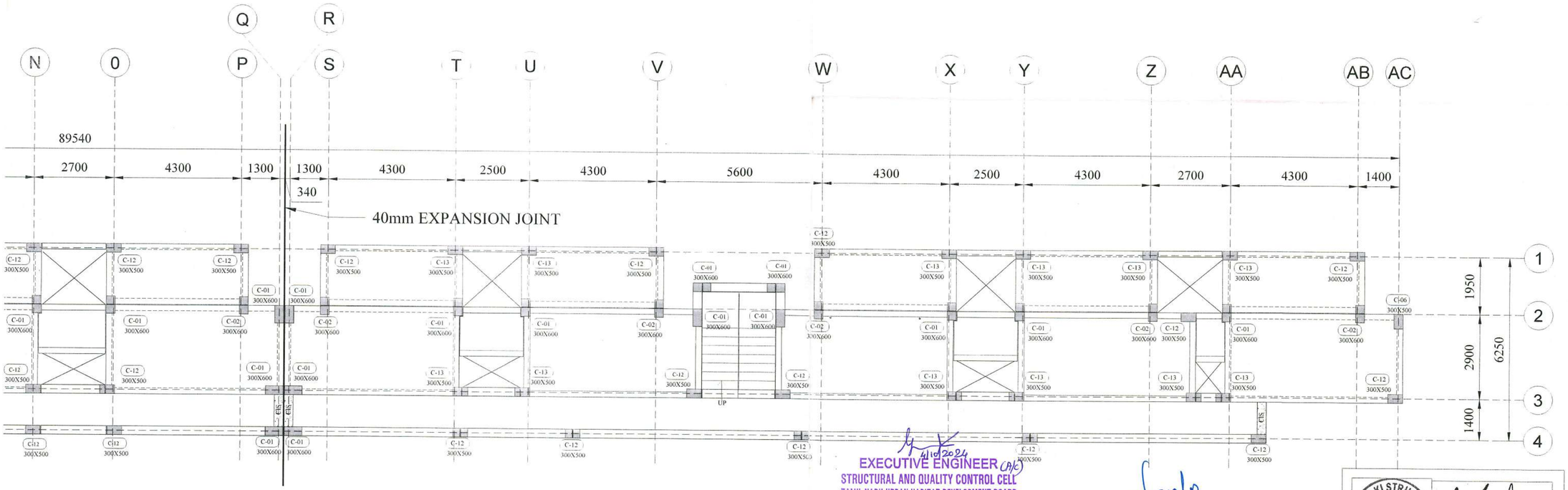
DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: COLUMN INTENT-BLOCK-1&2

PAPER SIZE:	A3
DRAWN DATE:	02-03-2024
PROJECT NO:	MS23035_GN-1&2
SHEET NO:	I - 01A

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EXECUTIVE ENGINEER (A/C)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

Dr. K.P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

MERAKI STRUCTURE COIMBATORE

GROUND FLOOR PRECAST COLUMN LAYOUT-BLOCK-1&2

SCALE 1 : 200

REV.	DESCRIPTION	DATE
R0	ISSUED FOR APPROVAL	04-11-2023

CLIENT:
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
No. 5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR
RAMALINGAM CONSTRUCTION COMPANY PVT LTD
#17/52 South State Bank Nagar,
Chettipalayam,Erode - 638002,Tamil Nadu.
Tel: 0424 2282389,Email ID: info@ramalingam.in

COMPREHENSIVE CONSULTANT
METAPHOR Architects Private Limited

STRUCTURAL CONSULTANT
MERAKI STRUCTURE,
COIMBATORE,
TAMIL NADU 641035

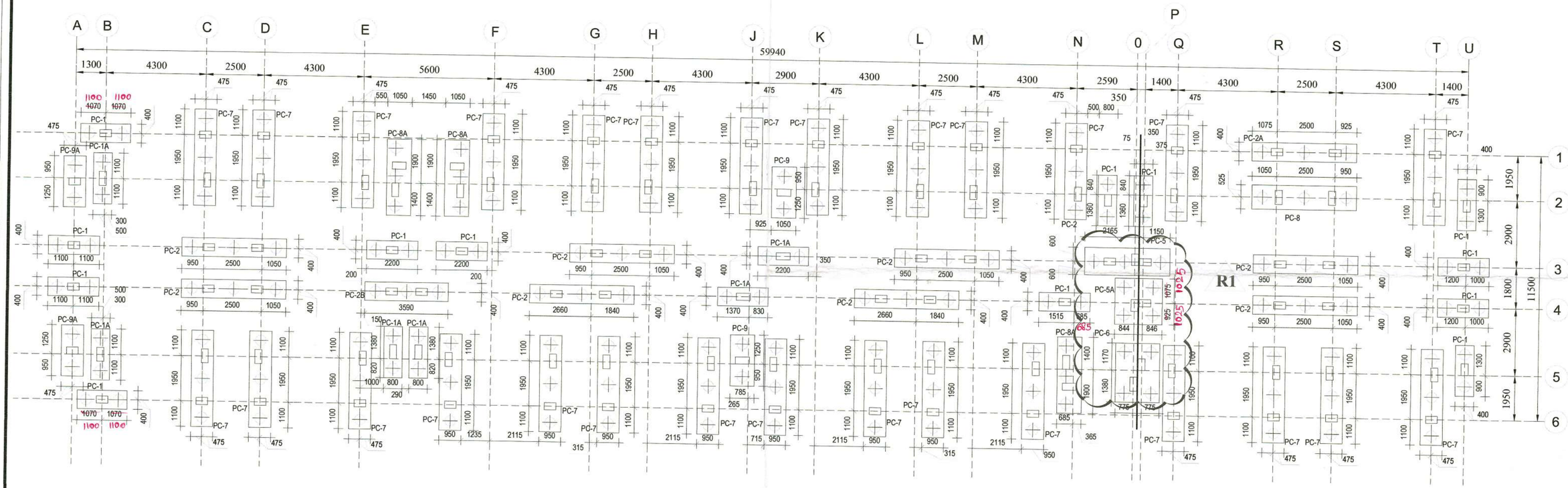
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE:
GROUND FLOOR
COLUMN INTENT-BLOCK-1&2

PAPER SIZE:	A3
DRAWN DATE:	02-03-2024
PROJECT NO:	MS23035_GN-1&2
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PILECAP LAYOUT-BLOCK-8

SCALE 1 : 250

EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

Dr. K. P. JAYA
Professor
Division of Structural Engineering
Department of Civil Engineering
Anna University, Chennai - 600 025.

REV.	DESCRIPTION	DATE
R1	CLOUDED PORTION REVISED	19-07-2024
R0	ISSUED FOR APPROVAL	02-02-2024

CLIENT:
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
No. 5 Kamarajar Salai,
Chennai - 600005,Tamil Nadu.
Tel: 0440 28440 1300

TURNKEY DESIGN AND BUILD CONTRACTOR
RCCL
RAMALINGAM CONSTRUCTION COMPANY PVT LTD
#175/2 South State Bank Nagar,
Chettipalayam,Erode - 638002,Tamil Nadu.
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TAMIL NADU 641035

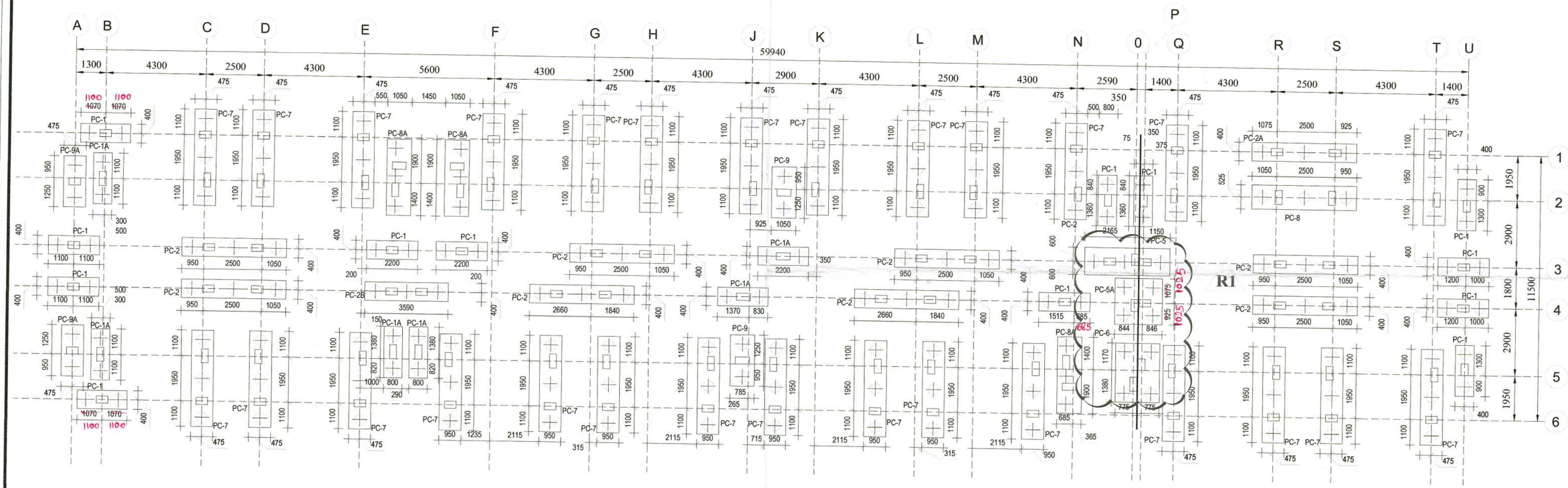
PROJECT:
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DRAWN	DESIGN	CHECKED	APPROVED
MRY	SK	SJS	SJS

TITLE: PILECAP LAYOUT_BLOCK-8

PAPER SIZE:	A3
DRAWN DATE:	02-02-2024
PROJECT NO:	MS23035_GN-8
SHEET NO:	P003

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PILECAP LAYOUT-BLOCK-8

SCALE 1 : 250

EXECUTIVE ENGINEER (A/c)
STRUCTURAL AND QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
5, KAMARAJAR SALAI, CHENNAI-600 005.

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Division of Structural Engineering
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REV.	DESCRIPTION	DATE
R1	CLOUDED PORTION REVISED	19-07-2024
R0	ISSUED FOR APPROVAL	02-02-2024

CLIENT:
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No. 5 Kamarajar Salai,
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Vastu & Property Management Tools

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OMR Thoraipakkam,
Chennai, India

hello@verified.realestate
+91 9996 12 9996
www.verified.realestate