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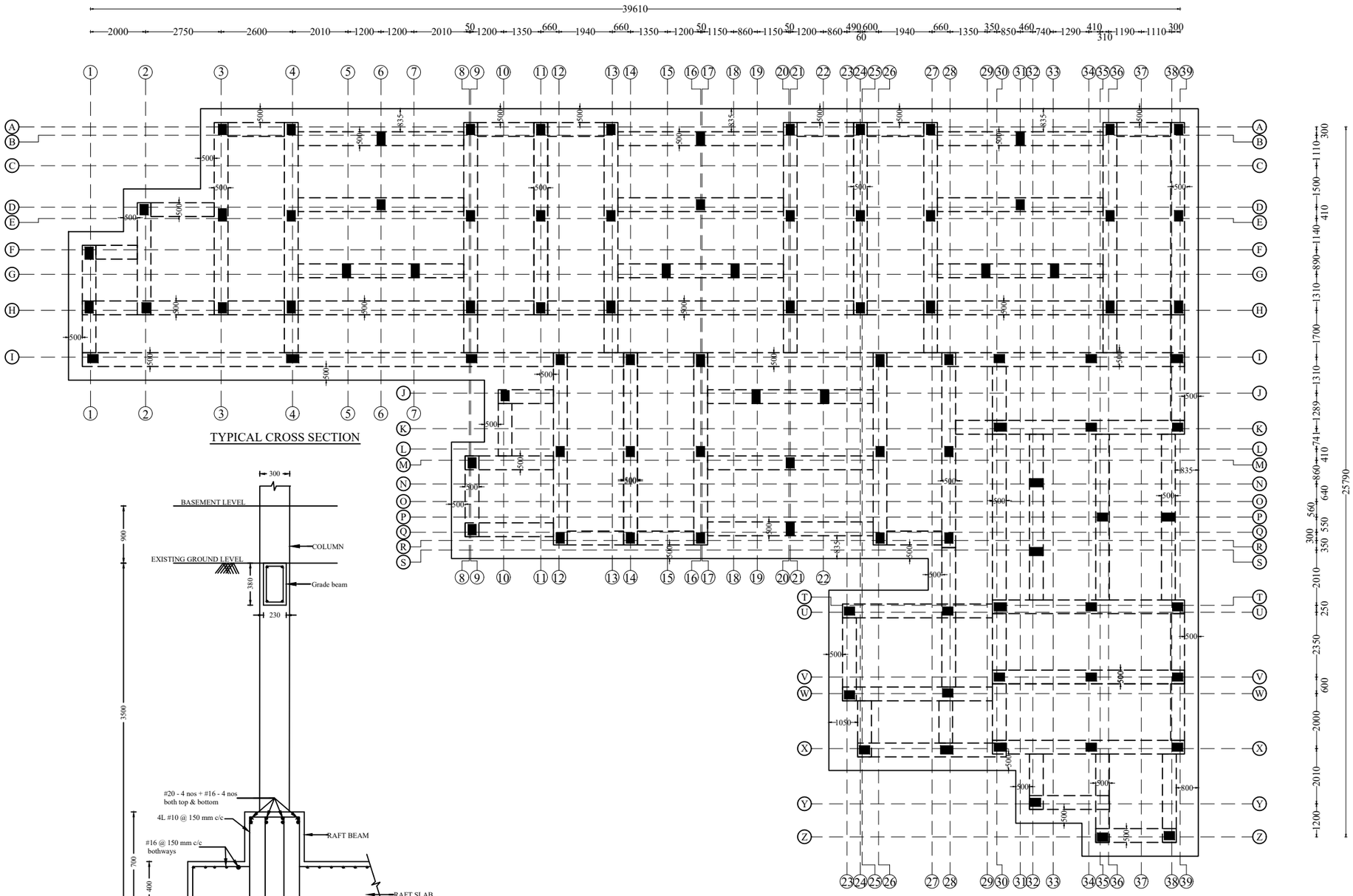
RAFT & RAFT BEAM LAYOUT



TYPICAL CROSS SECTION

NOTE :

1. All the dimensions are in mm unless noted otherwise.
2. All structural drawings shall be read in conjunction with the relevant Architectural drawings.
3. All the RCC works shall be as per design mix of **M30** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
5. The structure is designed for seismic zone III as per IS 1893:2016 and detailed as per IS13920:2016.
6. Flyash bricks has been considered for masonry work in sub structure & Lift wall and AAC blocks has been considered for masonry work in super structure.
7. Structure is designed for **(G+5)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation shall be 3.5 m from the existing ground level. The recommended bearing capacity at this level is 150kN/sq.m.
10. Analysis of the structure done with **ETABS**.
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 60 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank Walls & Slab - 30 mm
12. Design mix report should be got approved by the Anna University/IIT Madras/PWD.
13. All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
14. Cut lintels to be provided in all floors.
15. Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 Ø.
16. Anchorage of column bars into the footings shall not be less than 50Ø.
17. Field Engineers should ensure that the soil at the recommended founding depth is in conformity to the soil characteristic detailed in the soil test report. If any variation in soil strata is encountered at the recommended foundation depth, then the same should be informed to the Chief Engineer atonce for review.
18. Ground water quality has to be conformed for suitability to construction work.
19. The ground water / soil to be tested for chlorides & sulphate and remedial measures if any should be taken accordingly.
20. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
21. The Recommendations in the Soil Report done by ANNA UNIVERSITY, Chennai Job. No.:SM&FE 204/Consultancy/2021, Dt:17.02.2023 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF (G+5) FLOORS 450 TENEMENTS AT **NN NAGAR AND CHINTADRIPET IN CHINTADRIPET** VILLAGE, GREATER CHENNAI CORPORATION.

TITLE:
RAFT & RAFT BEAM LAYOUT AND
TYPICAL CROSS SECTION.

TYPE DESIGN NO.:

DWG.NO.: TNUHDB / NN NAGAR/ BLOCK-B/ 01

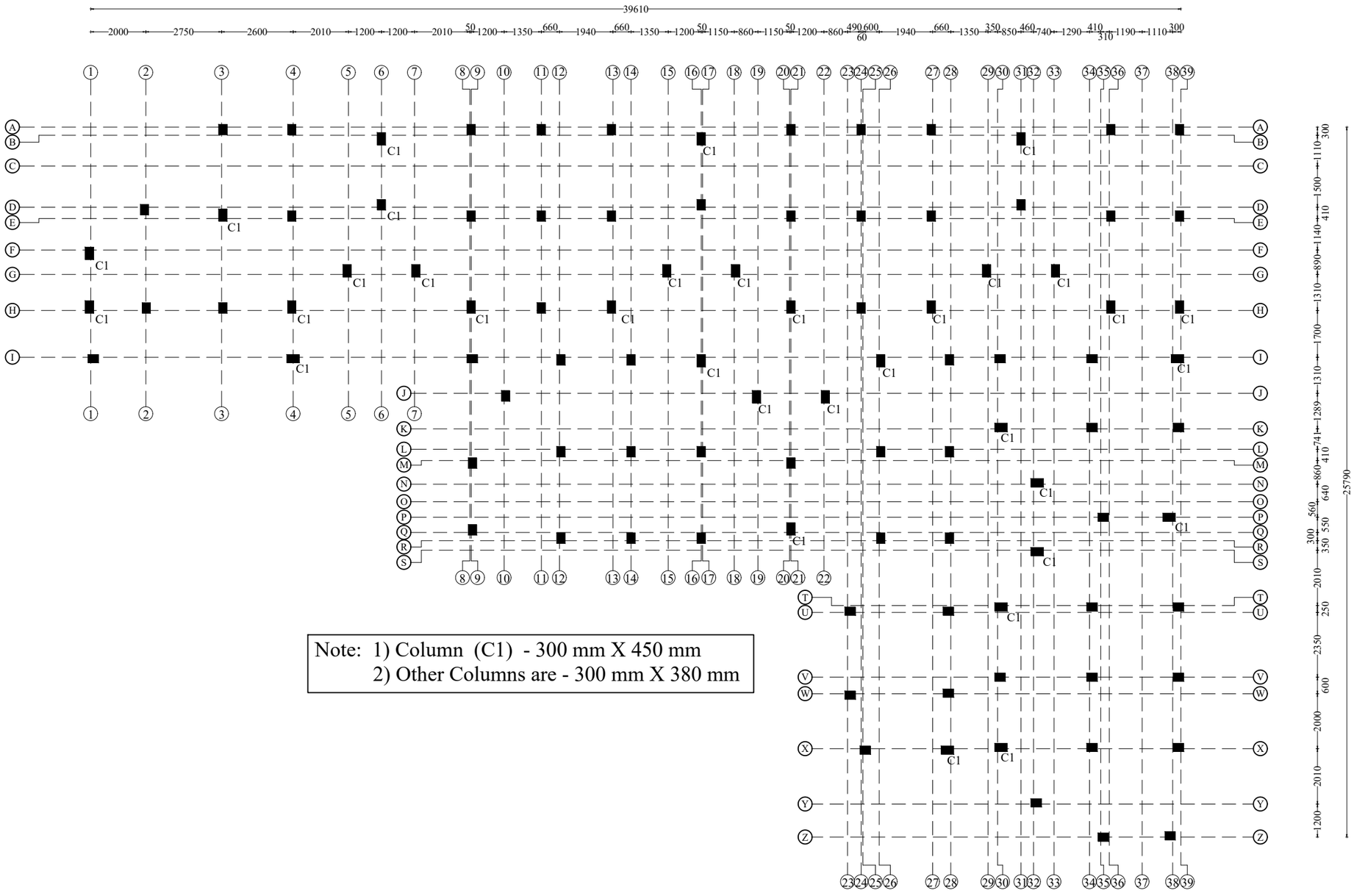
REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - PMU**
SE - East II	**CE - East**

ESTIMATION PURPOSE

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

COLUMN LAYOUT



Note: 1) Column (C1) - 300 mm X 450 mm
2) Other Columns are - 300 mm X 380 mm

NOTE :

1. All the dimensions are in mm unless noted otherwise.
2. All structural drawings shall be read in conjunction with the relevant Architectural drawings.
3. All the RCC works shall be as per design mix of **M30** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
5. The structure is designed for seismic zone III as per IS 1893:2016 and detailed as per IS13920:2016.
6. Flyash bricks has been considered for masonry work in sub structure & Lift wall and AAC blocks has been considered for masonry work in super structure.
7. Structure is designed for (**G+5**) floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation shall be 3.5 m from the existing ground level. The recommended bearing capacity at this level is 150kN/sq.m.
10. Analysis of the structure done with **ETABS**.
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 60 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank Walls & Slab - 30 mm
12. Design mix report should be got approved by the Anna University/IIT Madras/PWD.
13. All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
14. Cut lintels to be provided in all floors.
15. Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 Ø.
16. Anchorage of column bars into the footings shall not be less than 50Ø.
17. Field Engineers should ensure that the soil at the recommended founding depth is in conformity to the soil characteristic detailed in the soil test report. If any variation in soil strata is encountered at the recommended foundation depth, then the same should be informed to the Chief Engineer atonce for review.
18. Ground water quality has to be conformed for suitability to construction work.
19. The ground water / soil to be tested for chlorides & sulphate and remedial measures if any should be taken accordingly.
20. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
21. The Recommendations in the Soil Report done by ANNA UNIVERSITY, Chennai Job. No.:SM&FE 204/Consultancy/2021, Dt:17.02.2023 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF (G+5) FLOORS 450 TENEMENTS AT **NN NAGAR AND CHINTADRIPET IN CHINTADRIPET** VILLAGE, GREATER CHENNAI CORPORATION.

TITLE:
COLUMN LAYOUT.

TYPE DESIGN NO.:

DWG.NO.: TNUHDB / NN NAGAR/ BLOCK-B / 02

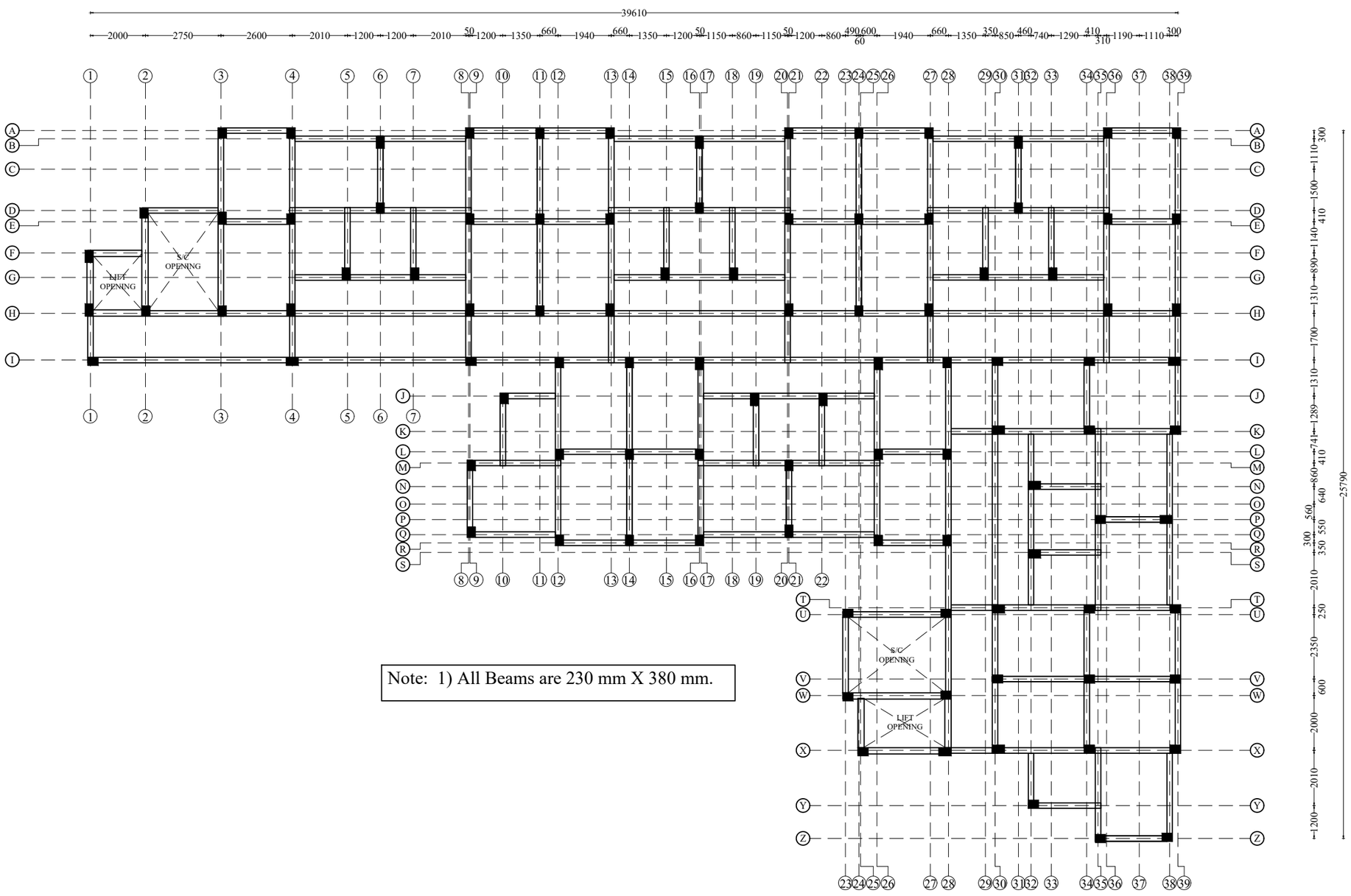
REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - PMU**
SE - East II	**PE - East**

ESTIMATION PURPOSE

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

GRADE BEAM LAYOUT



Note: 1) All Beams are 230 mm X 380 mm.

NOTE :

1. All the dimensions are in mm unless noted otherwise.
2. All structural drawings shall be read in conjunction with the relevant Architectural drawings.
3. All the RCC works shall be as per design mix of **M30** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
5. The structure is designed for seismic zone III as per IS 1893:2016 and detailed as per IS13920:2016.
6. Flyash bricks has been considered for masonry work in sub structure & Lift wall and AAC blocks has been considered for masonry work in super structure.
7. Structure is designed for **(G+5)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation shall be 3.5 m from the existing ground level. The recommended bearing capacity at this level is 150kN/sq.m.
10. Analysis of the structure done with **ETABS**.
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 60 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank Walls & Slab - 30 mm
12. Design mix report should be got approved by the Anna University/IIT Madras/PWD.
13. All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
14. Cut lintels to be provided in all floors.
15. Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 Ø.
16. Anchorage of column bars into the footings shall not be less than 50Ø.
17. Field Engineers should ensure that the soil at the recommended founding depth is in conformity to the soil characteristic detailed in the soil test report. If any variation in soil strata is encountered at the recommended foundation depth, then the same should be informed to the Chief Engineer atonce for review.
18. Ground water quality has to be conformed for suitability to construction work.
19. The ground water / soil to be tested for chlorides & sulphate and remedial measures if any should be taken accordingly.
20. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
21. The Recommendations in the Soil Report done by ANNA UNIVERSITY, Chennai Job. No.:SM&FE 204/Consultancy/2021, Dt:17.02.2023 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF (G+5) FLOORS 450 TENEMENTS AT **NN NAGAR AND CHINTADRIPET IN CHINTADRIPET** VILLAGE, GREATER CHENNAI CORPORATION.

TITLE:
GRDAE BEAM LAYOUT.

TYPE DESIGN NO.:

DWG.NO.: TNUHDB / NN NAGAR/ BLOCK-C / 03

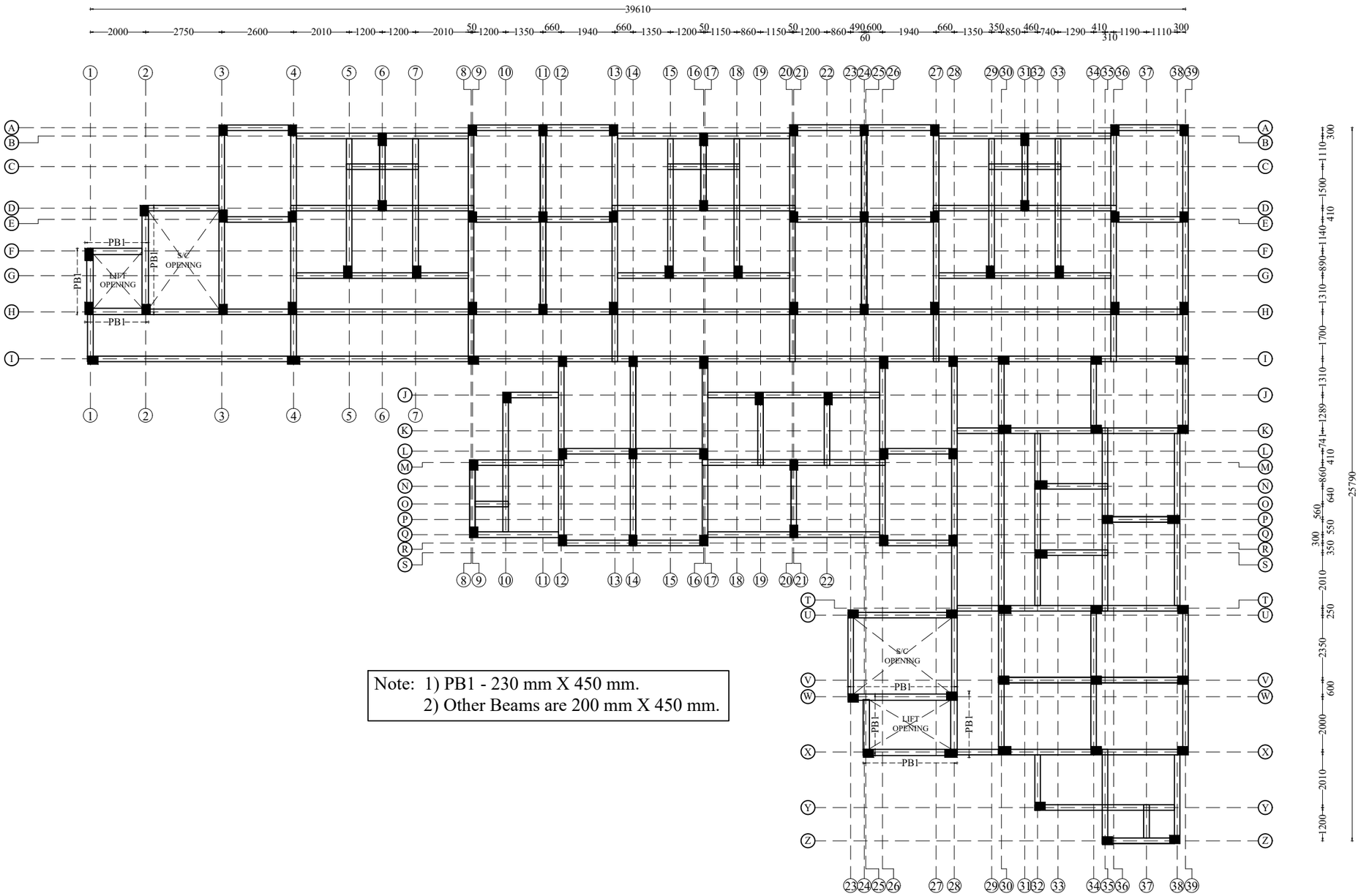
REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - PMU**
SE - East II	**CE - East**

ESTIMATION PURPOSE

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

PLINTH BEAM LAYOUT



Note: 1) PB1 - 230 mm X 450 mm.
2) Other Beams are 200 mm X 450 mm.

NOTE :

1. All the dimensions are in mm unless noted otherwise.
2. All structural drawings shall be read in conjunction with the relevant Architectural drawings.
3. All the RCC works shall be as per design mix of **M30** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
5. The structure is designed for seismic zone III as per IS 1893:2016 and detailed as per IS13920:2016.
6. Flyash bricks has been considered for masonry work in sub structure & Lift wall and AAC blocks has been considered for masonry work in super structure.
7. Structure is designed for (**G+5**) floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation shall be 3.5 m from the existing ground level. The recommended bearing capacity at this level is 150kN/sq.m.
10. Analysis of the structure done with **ETABS**.
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 60 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank Walls & Slab - 30 mm
12. Design mix report should be got approved by the Anna University/IIT Madras/PWD.
13. All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
14. Cut lintels to be provided in all floors.
15. Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 Ø.
16. Anchorage of column bars into the footings shall not be less than 50Ø.
17. Field Engineers should ensure that the soil at the recommended founding depth is in conformity to the soil characteristic detailed in the soil test report. If any variation in soil strata is encountered at the recommended foundation depth, then the same should be informed to the Chief Engineer atonce for review.
18. Ground water quality has to be conformed for suitability to construction work.
19. The ground water / soil to be tested for chlorides & sulphate and remedial measures if any should be taken accordingly.
20. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
21. The Recommendations in the Soil Report done by ANNA UNIVERSITY, Chennai Job. No.:SM&FE 204/Consultancy/2021, Dt:17.02.2023 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF (G+5) FLOORS 450 TENEMENTS AT **NN NAGAR AND CHINTADRIPET IN CHINTADRIPET** VILLAGE, GREATER CHENNAI CORPORATION.

TITLE:
PLINTH BEAM LAYOUT.

TYPE DESIGN NO.:

DWG.NO.: TNUHDB / NN NAGAR/ BLOCK-B / 04

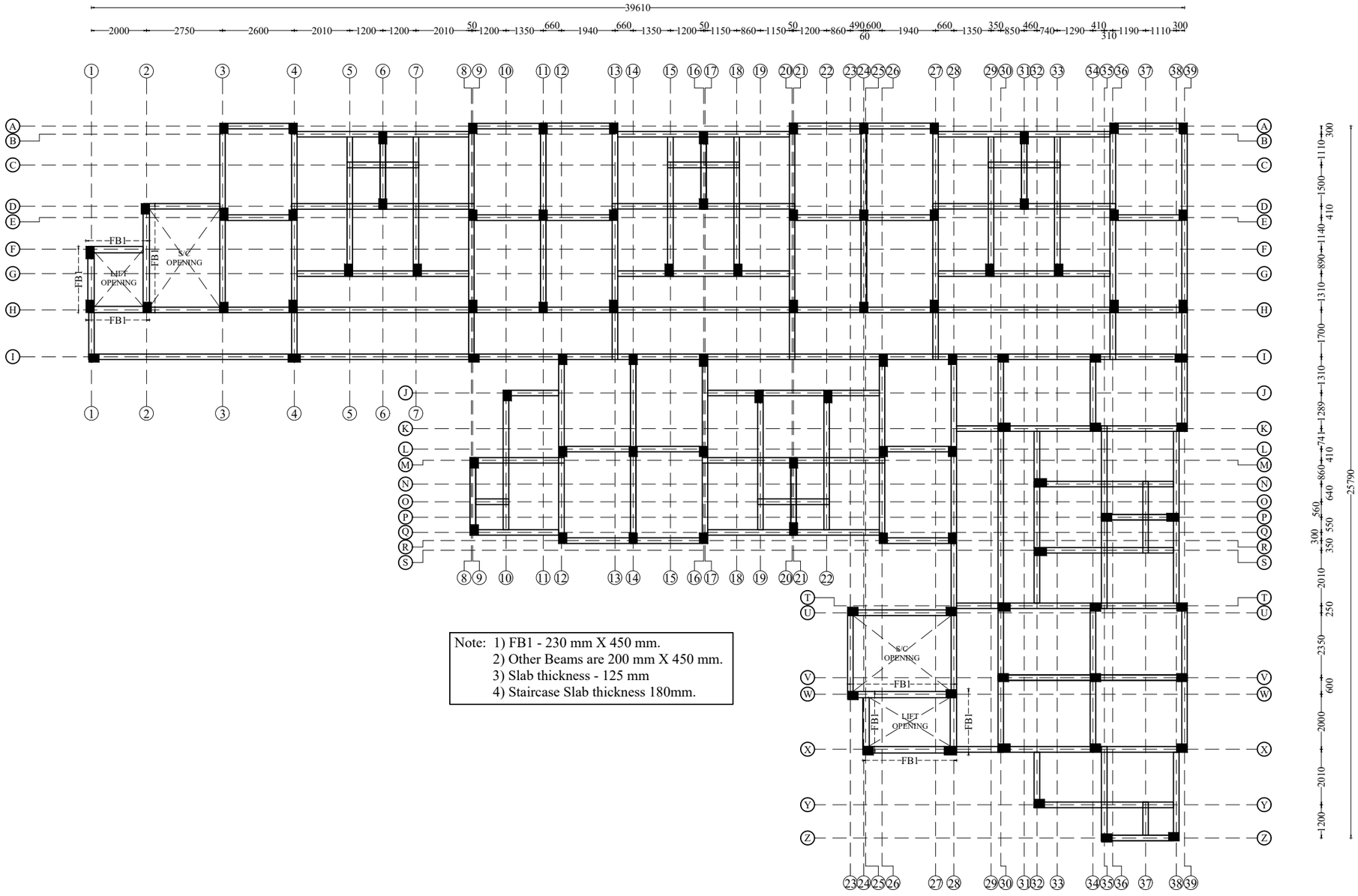
REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - PMU**
SE - East II	**PE - East**

ESTIMATION PURPOSE

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

TYPICAL FLOOR BEAM LAYOUT



Note: 1) FB1 - 230 mm X 450 mm.
2) Other Beams are 200 mm X 450 mm.
3) Slab thickness - 125 mm
4) Staircase Slab thickness 180mm.

NOTE :

1. All the dimensions are in mm unless noted otherwise.
2. All structural drawings shall be read in conjunction with the relevant Architectural drawings.
3. All the RCC works shall be as per design mix of **M30** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
5. The structure is designed for seismic zone III as per IS 1893:2016 and detailed as per IS13920:2016.
6. Flyash bricks has been considered for masonry work in sub structure & Lift wall and AAC blocks has been considered for masonry work in super structure.
7. Structure is designed for (**G+5**) floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation shall be 3.5 m from the existing ground level. The recommended bearing capacity at this level is 150kN/sq.m.
10. Analysis of the structure done with **ETABS**.
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 60 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank Walls & Slab - 30 mm
12. Design mix report should be got approved by the Anna University/IIT Madras/PWD.
13. All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
14. Cut lintels to be provided in all floors.
15. Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 Ø.
16. Anchorage of column bars into the footings shall not be less than 50Ø.
17. Field Engineers should ensure that the soil at the recommended founding depth is in conformity to the soil characteristic detailed in the soil test report. If any variation in soil strata is encountered at the recommended foundation depth, then the same should be informed to the Chief Engineer atonce for review.
18. Ground water quality has to be conformed for suitability to construction work.
19. The ground water / soil to be tested for chlorides & sulphate and remedial measures if any should be taken accordingly.
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF (G+5) FLOORS 450 TENEMENTS AT **NN NAGAR AND CHINTADRIPET IN CHINTADRIPET** VILLAGE, GREATER CHENNAI CORPORATION.

TITLE:
TYPICAL FLOOR BEAM LAYOUT.

TYPE DESIGN NO.:

DWG.NO.: TNUHDB / NN NAGAR/ BLOCK-B / 05

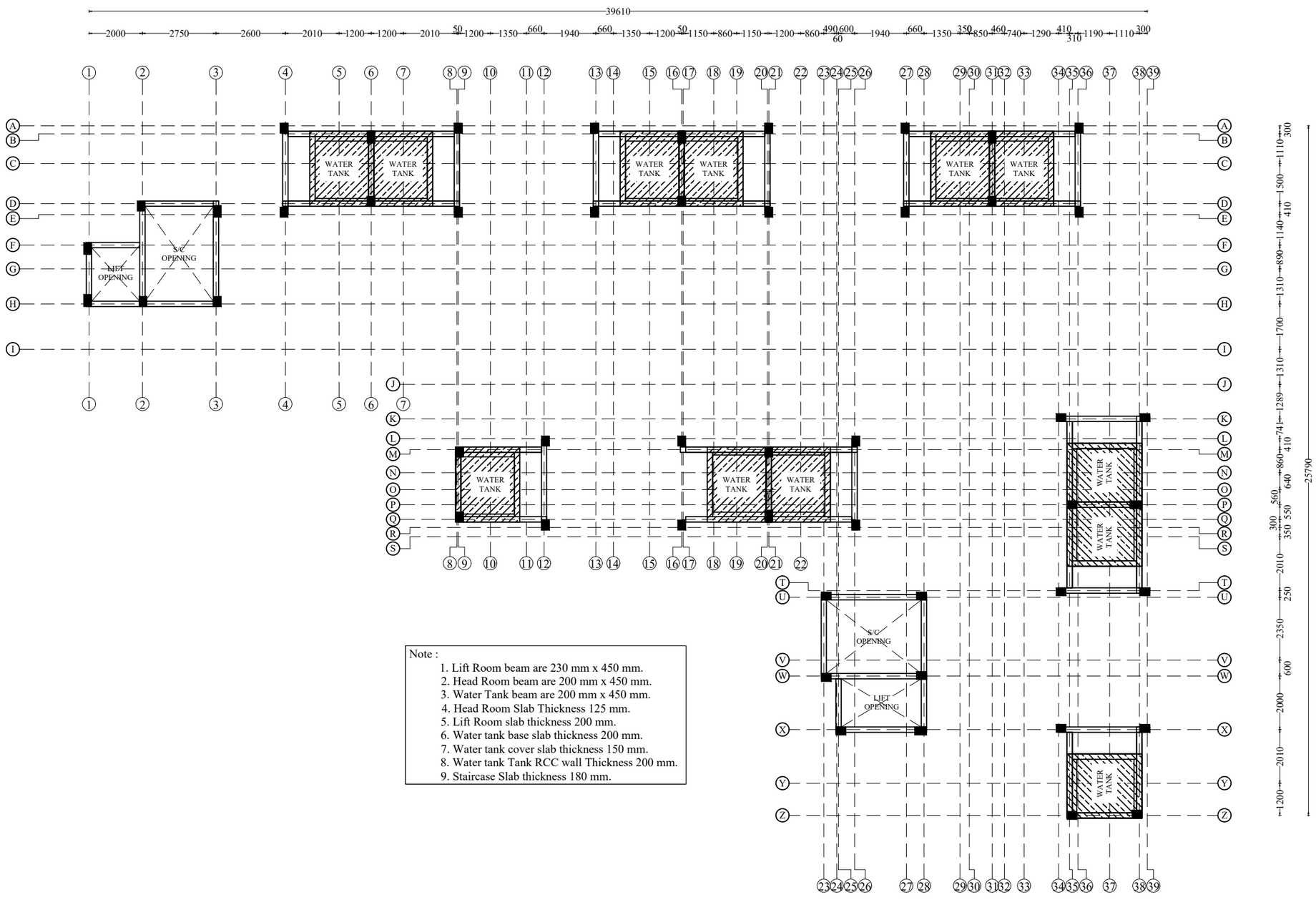
REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - PMU**
SE - East II	**PE - East**

ESTIMATION PURPOSE

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

HEAD ROOM, LIFT ROOM BEAM LAYOUT & LOCATION OF OHT



Note :

1. Lift Room beam are 230 mm x 450 mm.
2. Head Room beam are 200 mm x 450 mm.
3. Water Tank beam are 200 mm x 450 mm.
4. Head Room Slab Thickness 125 mm.
5. Lift Room slab thickness 200 mm.
6. Water tank base slab thickness 200 mm.
7. Water tank cover slab thickness 150 mm.
8. Water tank Tank RCC wall Thickness 200 mm.
9. Staircase Slab thickness 180 mm.

NOTE :

1. All the dimensions are in mm unless noted otherwise.
2. All structural drawings shall be read in conjunction with the relevant Architectural drawings.
3. All the RCC works shall be as per design mix of **M30** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
5. The structure is designed for seismic zone III as per IS 1893:2016 and detailed as per IS13920:2016.
6. Flyash bricks has been considered for masonry work in sub structure & Lift wall and AAC blocks has been considered for masonry work in super structure.
7. Structure is designed for (**G+5**) floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation shall be 3.5 m from the existing ground level. The recommended bearing capacity at this level is 150kN/sq.m.
10. Analysis of the structure done with **ETABS**.
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 60 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank Walls & Slab - 30 mm
12. Design mix report should be got approved by the Anna University/IIT Madras/PWD.
13. All PCC works should be carried out with PCC 1:4:8 conforming IS: 456 - 2000.
14. Cut lintels to be provided in all floors.
15. Lapping of column bars shall be midway between slabs and staggered with lap length not less than 50 Ø.
16. Anchorage of column bars into the footings shall not be less than 50Ø.
17. Field Engineers should ensure that the soil at the recommended founding depth is in conformity to the soil characteristic detailed in the soil test report. If any variation in soil strata is encountered at the recommended foundation depth, then the same should be informed to the Chief Engineer atonce for review.
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF (G+5) FLOORS 450 TENEMENTS AT **NN NAGAR AND CHINTADRIPET IN CHINTADRIPET** VILLAGE, GREATER CHENNAI CORPORATION.

TITLE:
HEAD ROOM, LIFT ROOM BEAM LAYOUT & LOCATION OF OHT.

TYPE DESIGN NO.:

DWG.NO.: TNUHDB / NN NAGAR/ BLOCK-B / 06

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - PMU**
SE - East II	**CE - East**

STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

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