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STABILITY CERTIFICATE

The Detailed Engineering and structure design of the proposed construction of building comprising Block 1 to 9 of G+3 floors with 48 Dwelling Units each, totally 432 Dwelling Units at Anna Nagar in Keeranur TP comprised in S.F.No 62/3A2 Block 58, Keeranur Village within the limits of Keeranur Town Panchayat has been done by me/us based on the report of geo technical investigation (soil test) done by Government College of Engineering Bodinayakanur Report No.GCE/PCE/SOIL/008C/2022 Dated 03.08.2022 & 14-09-2022 and considering the functional requirement of the building.

2. It is certified that among other factors, the proposed building has been designed to resist earthquake. I/We have checked various parameters and found that the proposed building would be safe.

3. I/We further certify that:

(i) The minimum grade of concrete is M25

(ii) The design and analysis has been done using the code of practice for plain and reinforced concrete as per IS 456-2000, live load 2KN/m^2 as per IS 875 Part II and designed for earthquake resistant structure as per IS Code 1893-2016.

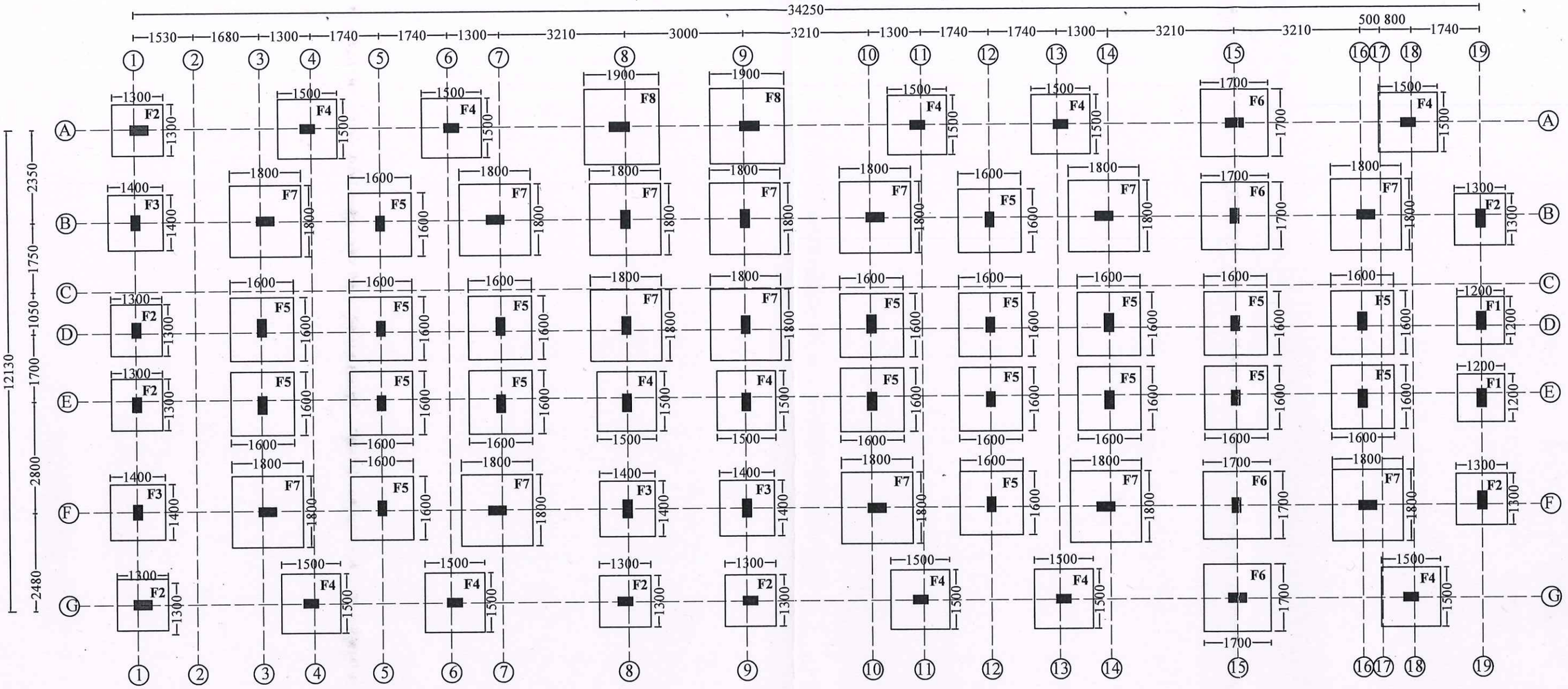
4. The building will be safe and sound when used for the purpose for which it is designed.

14/2/2025

Stamp and Signature

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.

PLAN AT FOUNDATION LEVEL
(For Blocks: 7,9,10,11&12)



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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    - (a) Foundation - 50 mm
    - (b) Column - 40 mm
    - (c) Floor and roof beam - 30 mm
    - (d) Slab - 25 mm
    - (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. 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.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
PLAN AT FOUNDATION LEVEL
(For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

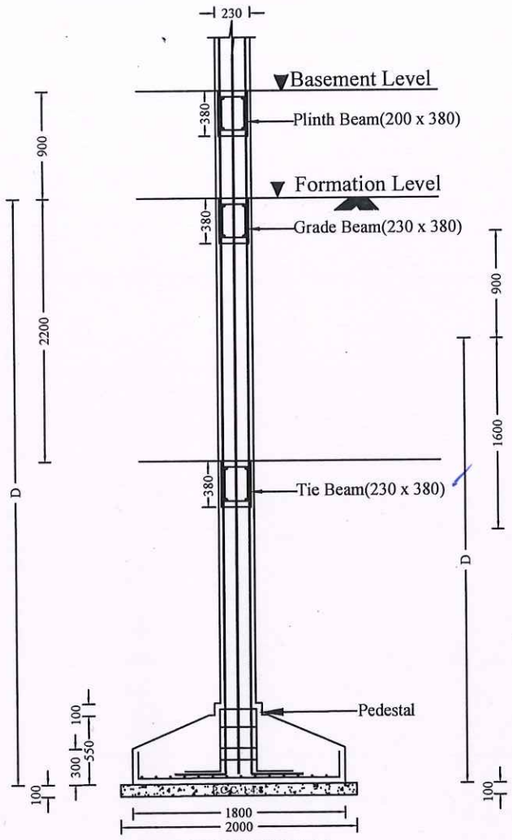
DWG.NO.: TNUHDB/ODDANCHATRAM/01

REVISION NO.:

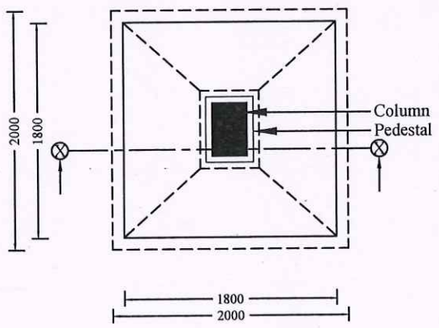
Assistant Engineer	Asst. Exe. Engineer
Executive Engineer (A/c)	SE - South
Chief Engineer - I	

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

TYPICAL CROSS SECTION
OF COLUMN FOOTING FOR BLOCK 10,11&12

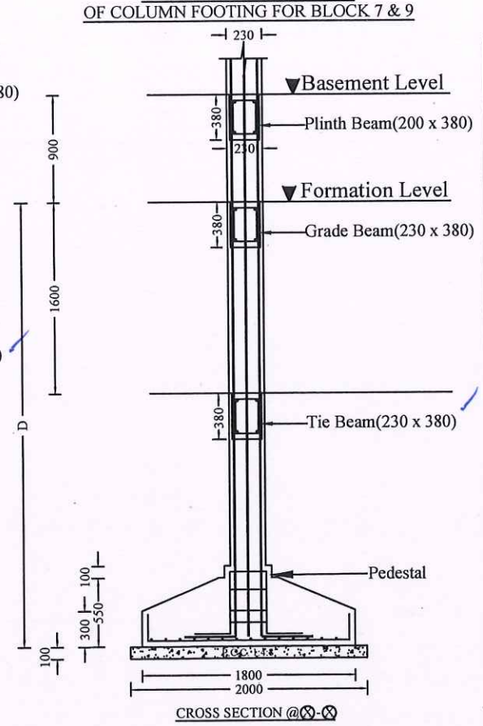


CROSS SECTION @⊗-⊗

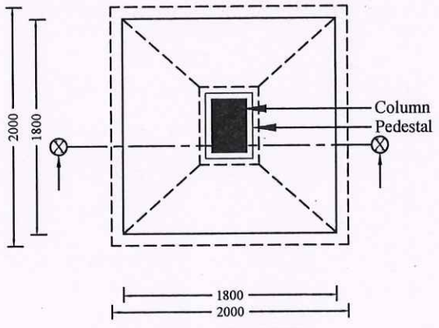


Block No:	D in Metre
10.	4.904
11.	4.113
12.	4.117

TYPICAL CROSS SECTION
OF COLUMN FOOTING FOR BLOCK 7 & 9



CROSS SECTION @⊗-⊗

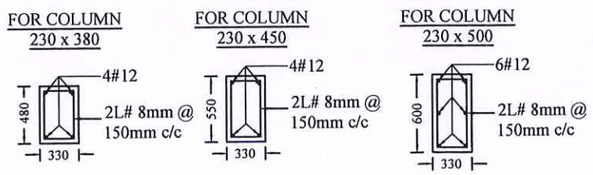


Block No:	D in Metre
7.	3.721
9.	3.973

SCHEDULE OF COLUMN FOOTINGS
(For Blocks: 7,9,10,11&12)

Sl.No.	Footing Marking	Numbers of Footing	Pedestal Size (mm x mm x mm)	PCC Mat (mm x mm)	RCC Footing (mm x mm)	Thickness Near Column (mm)	Edge Thickness (mm)	Reinforcement in Footing (mm)
SQUARE FOOTING								
1.	F1	02	330 x 550 x 350	1400 x 1400	1200 x 1200	350	230	Bottom : # 12 mm @ 180 mm C/C both ways
2.	F2	08	330 x 480 x 300 & 330 x 550 x 300	1500 x 1500	1300 x 1300	400	230	Bottom : # 12 mm @ 180 mm C/C both ways
3.	F3	04	330 x 480 x 250	1600 x 1600	1400 x 1400	450	230	Bottom : # 12 mm @ 180 mm C/C both ways
4.	F4	12	330 x 480 x 225	1700 x 1700	1500 x 1500	475	230	Bottom : # 12 mm @ 175 mm C/C both ways
5.	F5	20	330 x 480 x 350 & 330 x 550 x 350	1800 x 1800	1600 x 1600	500	250	Bottom : # 12 mm @ 150 mm C/C both ways
6.	F6	04	330 x 480 x 325 & 330 x 550 x 325	1900 x 1900	1700 x 1700	525	300	Bottom : # 12 mm @ 150 mm C/C both ways
7.	F7	14	330 x 550 x 300	2000 x 2000	1800 x 1800	550	300	Bottom : # 12 mm @ 130 mm C/C both ways
8.	F8	02	330 x 600 x 275	2100 x 2100	1900 x 1900	575	300	Bottom : # 12 mm @ 130 mm C/C both ways

TYPICAL PEDESTAL DETAIL



NOTE :

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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
SCHEDULE OF COLUMN FOOTINGS
(For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

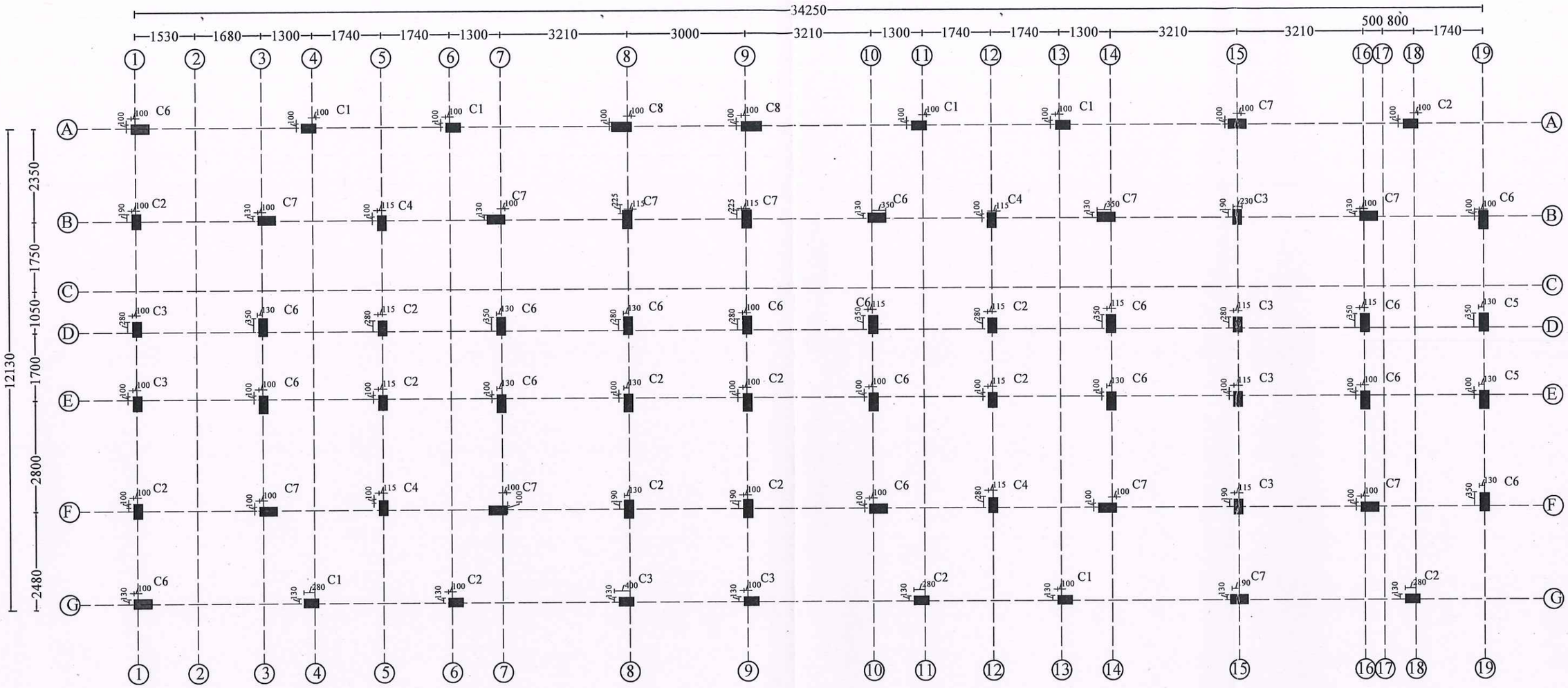
DWG.NO.: TNUHDB/ODDANCHATRAM/02

REVISION NO.:

21/09/24 **Assistant Engineer**	21/09/24 **Asst. Exe. Engineer**
26/9/2024 **Executive Engineer**	**SE - South**
26/9 **Chief Engineer - I**	

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

COLUMN LAYOUT
(For Blocks: 7,9,10,11&12)



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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
COLUMN LAYOUT
(For Blocks: 7,9,10,11&12)

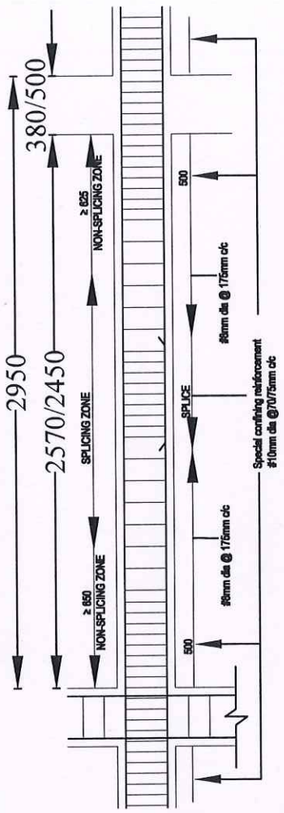
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REVISION NO.:

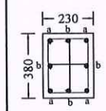
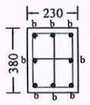
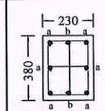
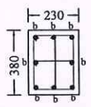
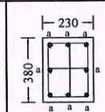
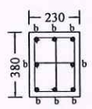
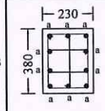
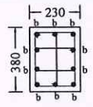
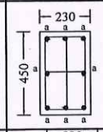
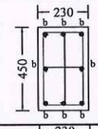
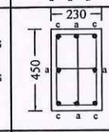
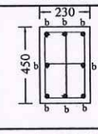
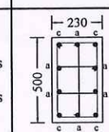
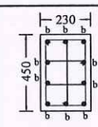
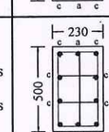
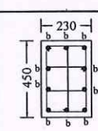
Assistant Engineer	Asst. Exe. Engineer
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STRUCTURAL & QUALITY CONTROL CELL
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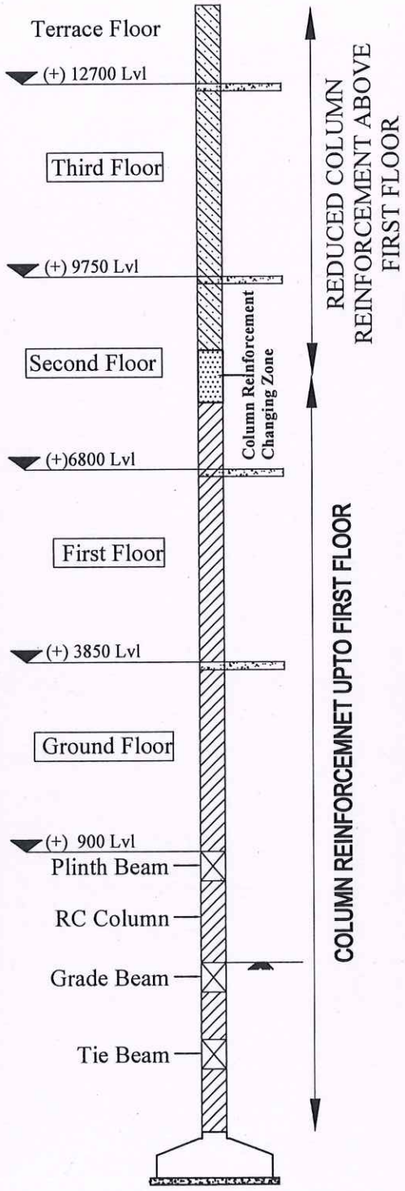


TYPICAL COLUMN SPLICING AND CONFINING REINFORCEMENT DETAILS

SCHEDULE OF COLUMNS
(For Blocks: 7,9,10,11&12)

Sl. No.	Column Marking	No. of Columns	Size (mm x mm)	Upto First Floor		Above First Floor		Lateral Ties	Ties Profile	
				Column Verticals	Cross Section	Column Verticals	Cross Section			
1.	C1	06	230 x 380	#16 - 4 Nos + #12 - 4 Nos		#12 - 8 Nos		1) Upto Plinth Beam: # 8 @ 100 mm c/c 2) Above Plinth Beam: # 8 @ 100 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
2.	C2	14	230 x 380	#16 - 6 Nos + #12 - 2 Nos		#12 - 8 Nos		1) Upto Plinth Beam: # 8 @ 100 mm c/c 2) Above Plinth Beam: # 8 @ 100 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
3.	C3	08	230 x 380	#16 - 8 Nos		#12 - 8 Nos		1) Upto Plinth Beam: # 8 @ 100 mm c/c 2) Above Plinth Beam: # 8 @ 100 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
4.	C4	04	230 x 380	#16 - 10 Nos		#12 - 10 Nos		1) Upto Plinth Beam: # 8 @ 100 mm c/c 2) Above Plinth Beam: # 8 @ 100 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
5.	C5	02	230 x 450	#16 - 8 Nos		#12 - 8 Nos		1) Upto Plinth Beam: # 8 @ 100 mm c/c 2) Above Plinth Beam: # 8 @ 100 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
6.	C6	18	230 x 450	#20 - 4 Nos + #16 - 4 Nos		#12 - 8 Nos		1) Upto Plinth Beam: # 8 @ 100 mm c/c 2) Above Plinth Beam: # 8 @ 100 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
7.	C7	12	230 x 450	#20 - 4 Nos + #16 - 6 Nos		#12 - 10 Nos		1) Upto Plinth Beam: # 8 @ 100 mm c/c 2) Above Plinth Beam: # 8 @ 100 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
8.	C8	02	230 x 500	#20 - 8 Nos + #16 - 2 Nos		#12 - 10 Nos		1) Upto Plinth Beam: # 8 @ 100 mm c/c 2) Above Plinth Beam: # 8 @ 100 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		

Notes: In Cross Section a - # 16 mm b - # 12 mm c - #20mm



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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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    - (a) Foundation - 50 mm
    - (b) Column - 40 mm
    - (c) Floor and roof beam - 30 mm
    - (d) Slab - 25 mm
    - (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. 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.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
SCHEDULE OF COLUMN (For blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

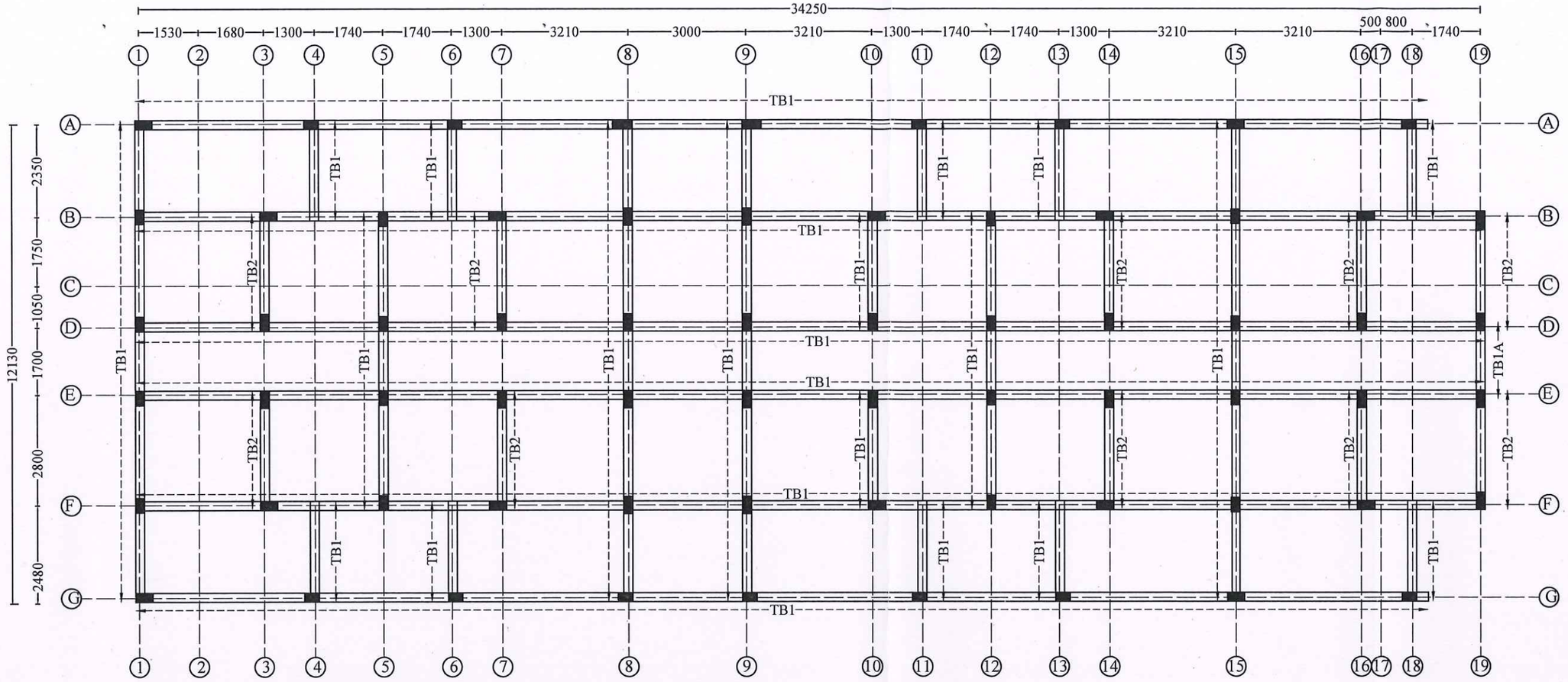
DWG.NO.: TNUHDB/ODDANCHATRAM/04

REVISION NO.:

21/09/24 **Assistant Engineer**	21/09/24 **Asst. Exe. Engineer**
26/9/2024 **Executive Engineer** (A/c)	**SE - South**
26/9/24 **Chief Engineer - I**	

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

TIE BEAM LAYOUT
(For Blocks: 7,9,10,11&12)



NOTE:
1. For TIE Beam details refer drawing **TNUHDB**/ODDANCHATRAM/06.

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for (**G+3**) floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. 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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22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
TIE BEAM LAYOUT
(For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

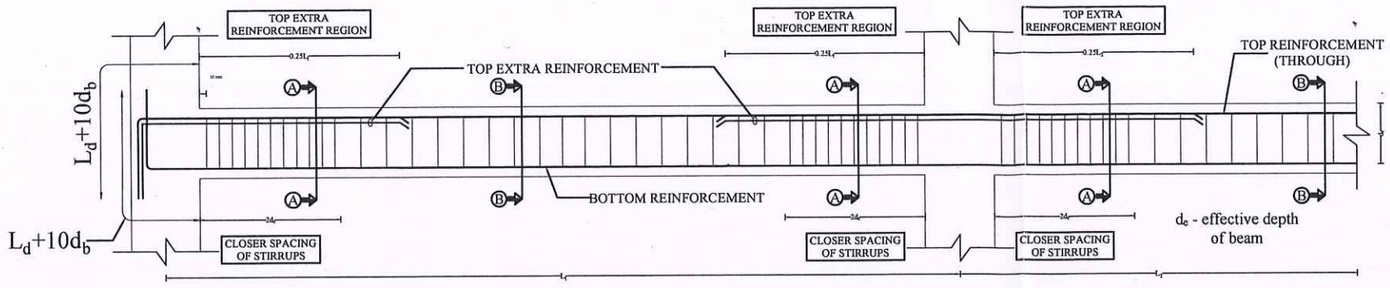
DWG.NO.: TNUHDB/ODDANCHATRAM/05

REVISION NO.:

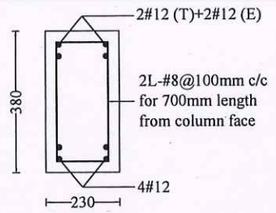
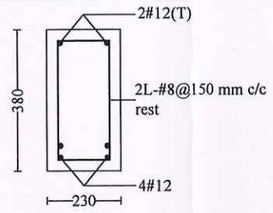
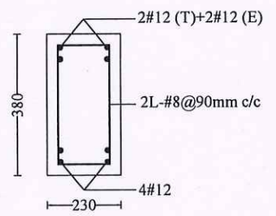
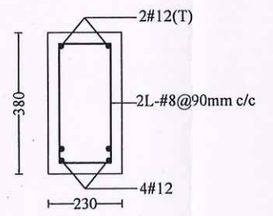
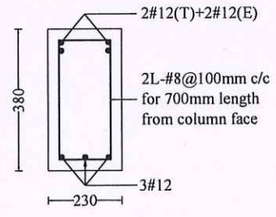
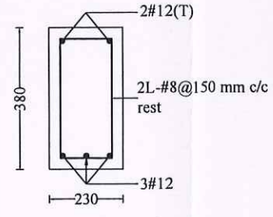
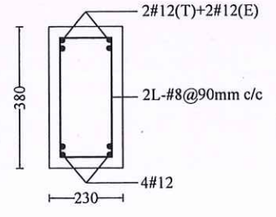
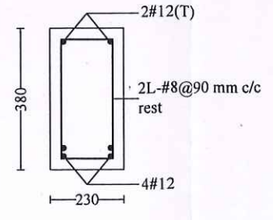
S. Kumaresh 21/09/24 — **Assistant Engineer**	J. Bharathi 21/09/24 — **Asst. Exe. Engineer**
26/9/2024 — **Executive Engineer** (A/C)	**SE - South**
Chief Engineer - I	

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

TYPICAL CURTAILMENT & STIRRUPS DETAILS



TIE BEAM DETAILS
(For Blocks: 7,9,10,11&12)

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	TB1 230 x 380		
2.	TB1A 230 x 380		
3.	TB2 230 x 380		
4.	TB3 230 x 380		

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 **M25** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
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6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
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10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    - (a) Foundation - 50 mm
    - (b) Column - 40 mm
    - (c) Floor and roof beam - 30 mm
    - (d) Slab - 25 mm
    - (e) Water Tank platform 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 50 Ø.
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19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
TIE BEAM DETAILS (For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

DWG.NO.: TNUHDB/ODDANCHATRAM/06

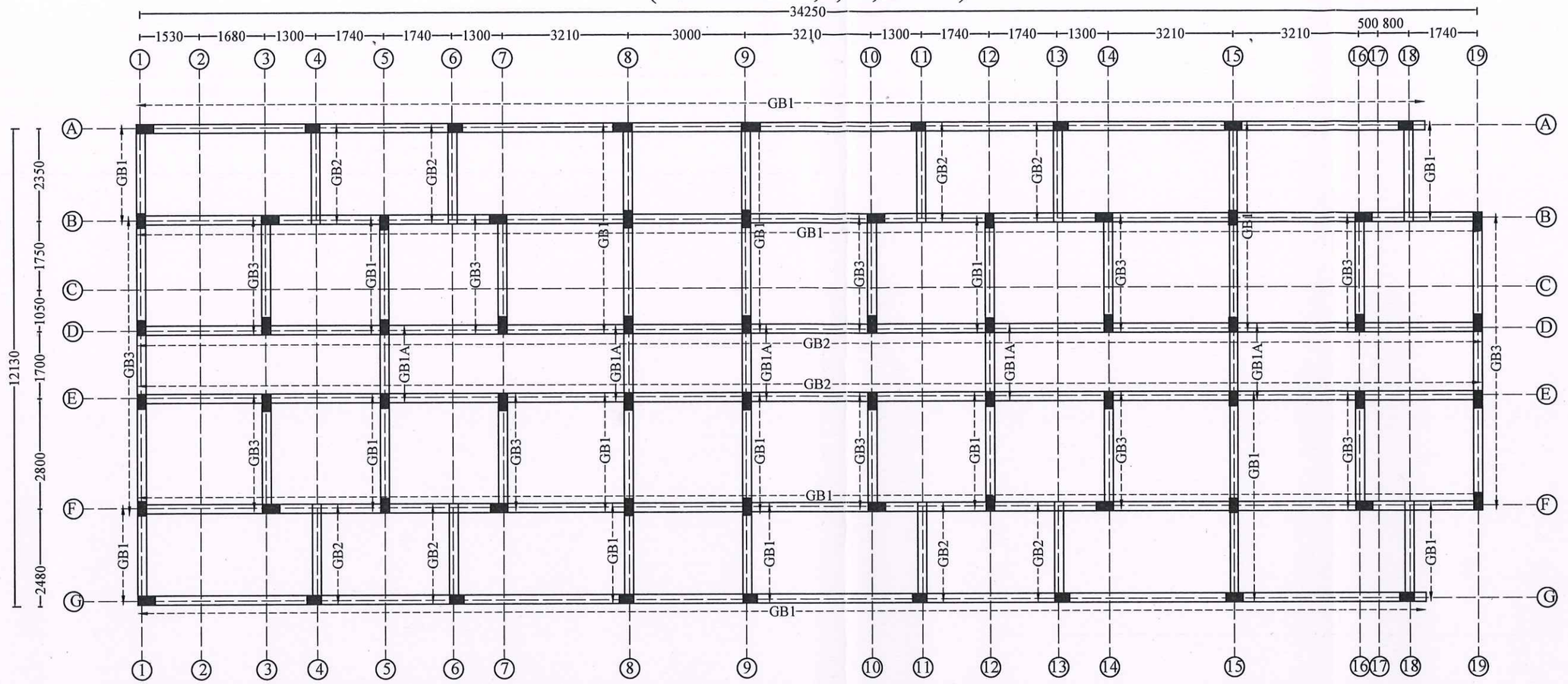
REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - South**

Chief Engineer - I

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

GRADE BEAM LAYOUT
(For Blocks: 7,9,10,11&12)



NOTE:
1. For Grade Beam details refer drawing **TNUHDB/**ODDANCHATRAM/08.

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 **M25** 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 II** as per IS 1893:2016.
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7. Structure is designed for **(G+3)** floors only.
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9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
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    (d) Slab - 25 mm
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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 50 Ø.
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
GRADE BEAM LAYOUT
(For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

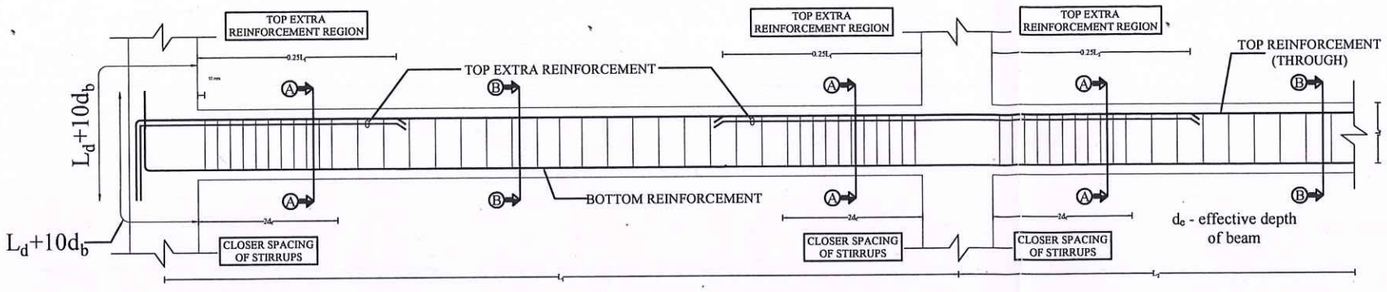
DWG.NO.: TNUHDB/ODDANCHATRAM/07

REVISION NO.:

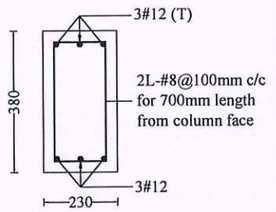
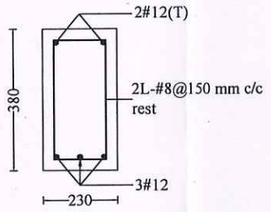
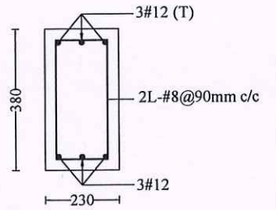
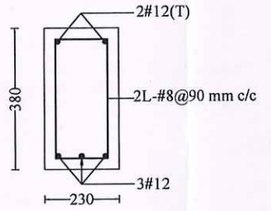
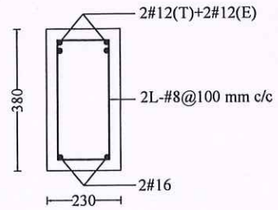
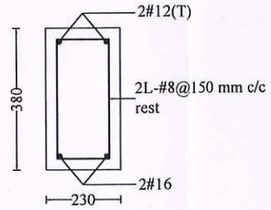
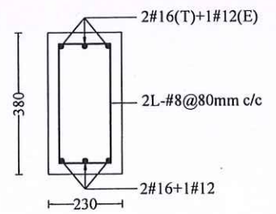
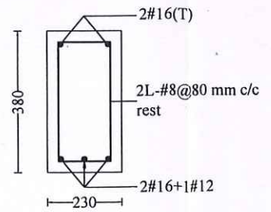
Assistant Engineer	Asst. Exe. Engineer
Executive Engineer (A/c)	SE - South
Chief Engineer - I	

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

TYPICAL CURTAILMENT & STIRRUPS DETAILS



GRADE BEAM DETAILS
(For Blocks: 7,9,10,11&12)

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	GB1 230 x 380		
2.	GB1A 230 x 380		
3.	GB2 230 x 380		
4.	GB3 230 x 380		

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 **M25** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
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8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    - (a) Foundation - 50 mm
    - (b) Column - 40 mm
    - (c) Floor and roof beam - 30 mm
    - (d) Slab - 25 mm
    - (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
GRADE BEAM DETAILS (For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

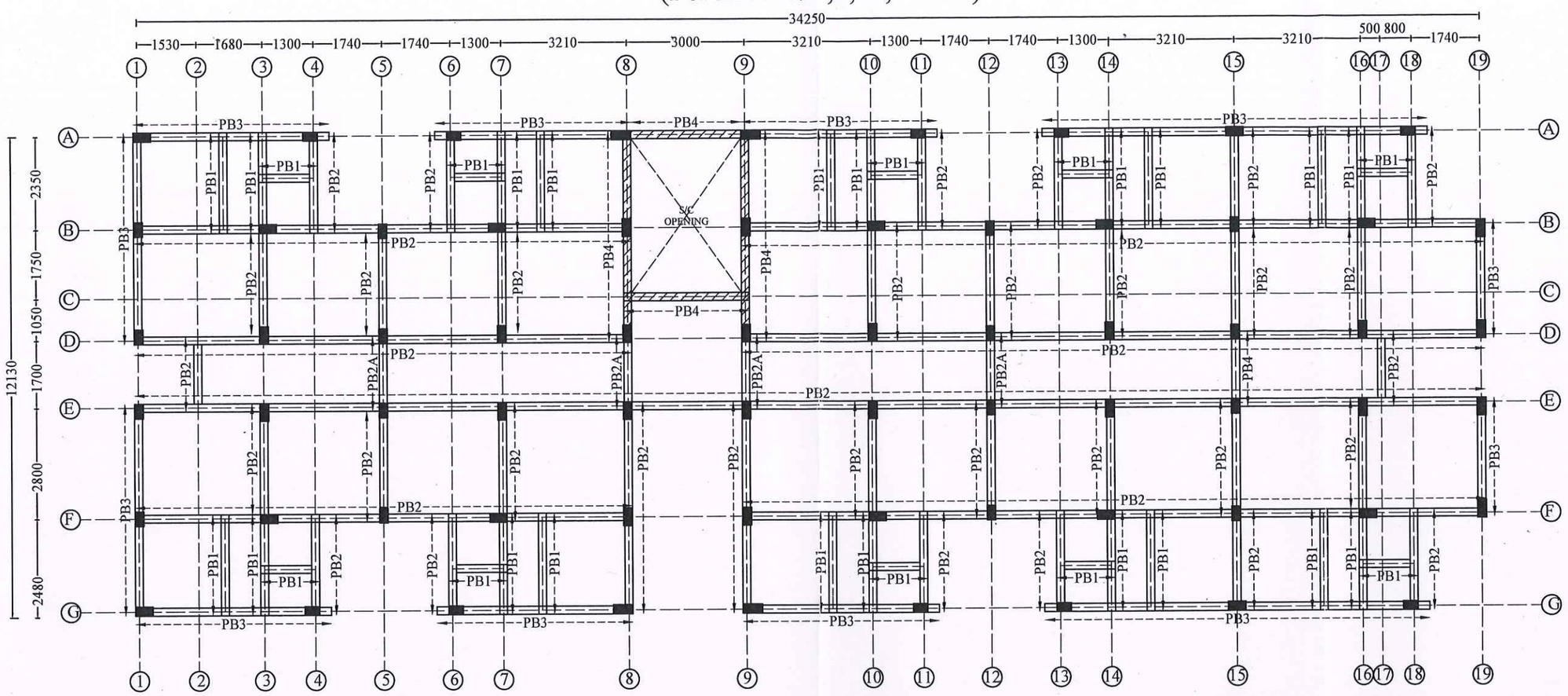
DWG.NO.: TNUHDB/ODDANCHATRAM/08

REVISION NO.:

21/09/24 21/09/24 **Assistant Engineer**	**Asst. Exe. Engineer**
26/9/2024 **Executive Engineer** (A/c)	**SE - South**
26/9/24 **Chief Engineer - I**	

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

PLINTH BEAM LAYOUT
(For Blocks: 7,9,10,11&12)



NOTE:
1. For Plinth Beam details refer drawing **TNUHDB**/ODDANCHATRAM/10.

▨ - 230x380mm Beam

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
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8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
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11. Clear cover for reinforcement are as follows:
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    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. 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.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
PLINTH BEAM LAYOUT
(For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

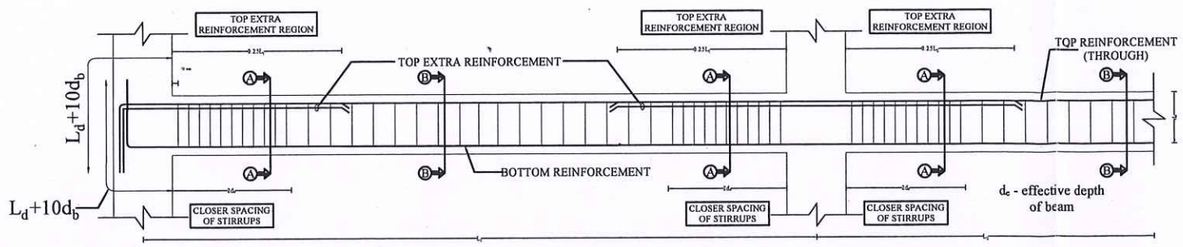
DWG.NO.: TNUHDB/ODDANCHATRAM/09

REVISION NO.:

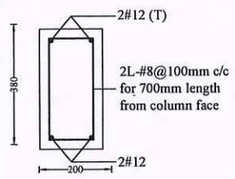
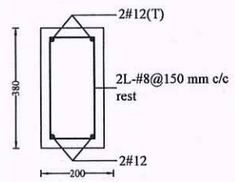
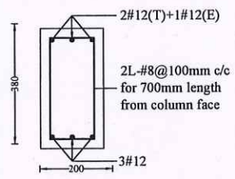
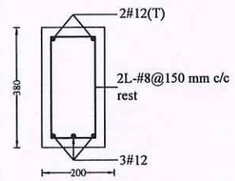
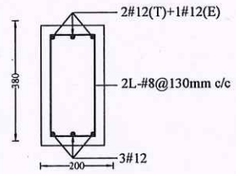
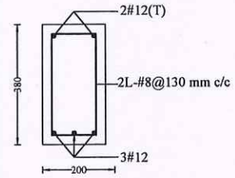
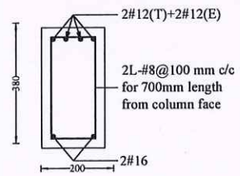
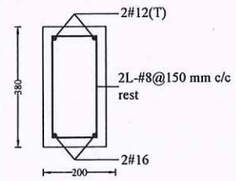
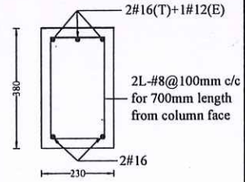
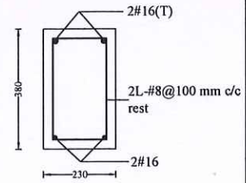
Assistant Engineer	Asst. Exe. Engineer
Executive Engineer (A/c)	SE - South
Chief Engineer - I	

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

TYPICAL CURTAILMENT & STIRRUPS DETAILS



PLINTH BEAM DETAILS
(For Blocks: 7,9,10,11&12)

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	PB1 200 x 380		
2.	PB2 200 x 380		
3.	PB2A 200 x 380		
4.	PB3 200 x 380		
5.	PB4 230 x 380		

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. 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.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
PLINTH BEAM DETAILS (For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

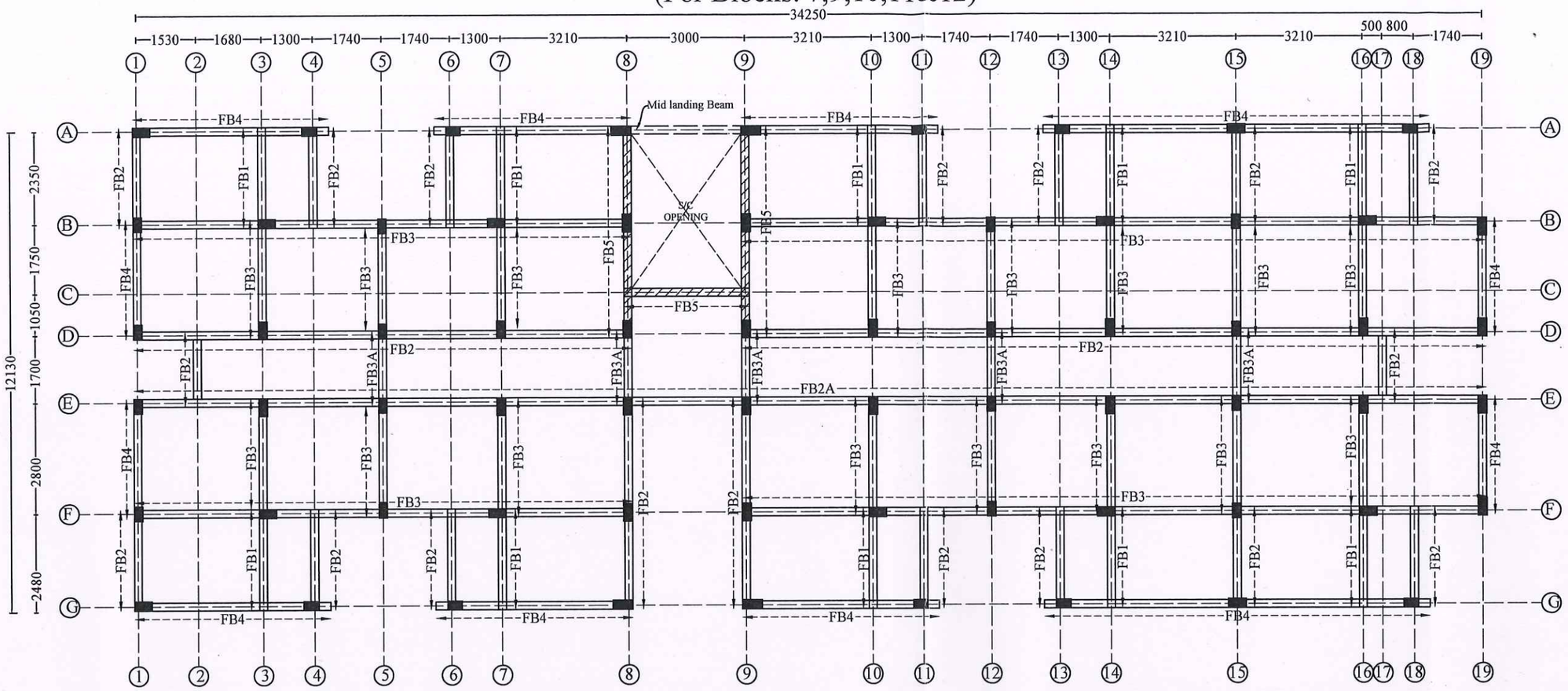
DWG.NO.: TNUHDB/**ODDANCHATRAM**/10

REVISION NO.:

21/09/24 21/09/24 **Assistant Engineer**	**Asst. Exe. Engineer**
26/9/2024 **Executive Engineer** (A/C)	**SE - South**
26/9/24 **Chief Engineer - I**	

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

GROUND FLOOR BEAM LAYOUT
(For Blocks: 7,9,10,11&12)



NOTE:
1. For Ground Floor Beam details refer drawing **TNUHDB**/ODDANCHATRAM/12.

▨ - 230x500mm Beam

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    - (a) Foundation - 50 mm
    - (b) Column - 40 mm
    - (c) Floor and roof beam - 30 mm
    - (d) Slab - 25 mm
    - (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
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20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
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22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
GROUND FLOOR BEAM LAYOUT
(For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

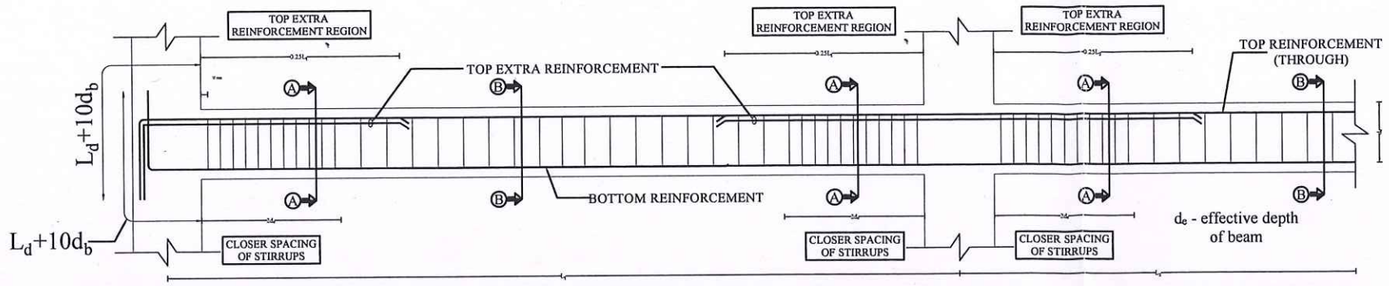
DWG.NO.: TNUHDB/ODDANCHATRAM/11

REVISION NO.:

Assistant Engineer 21/09/24	Asst. Exe. Engineer
Executive Engineer (A/C) 26/9/2024	SE - South
Chief Engineer - I 26/9/24	

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

TYPICAL CURTAILMENT & STIRRUPS DETAILS



GROUND FLOOR BEAM DETAILS
(For Blocks: 7,9,10,11&12)

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	FB1 200 x 380	2#12(T) 2L-#8@100 mm c/c for 700mm length from column face 2#12 380 200	2#12(T) 2L-#8@150 mm c/c rest 2#12 380 200
2.	FB2 200 x 500	2#12(T)+1#12(E) 2L-#8@100mm c/c for 1000 mm length from column face 3#12 500 200	2#12(T) 2L-#8@150 mm c/c rest 3#12 500 200
3.	FB2A 200 x 500	2#12(T)+1#12(E) 2L-#8@100mm c/c for 1000 mm length from column face 3#12 500 200	2#12(T) 2L-#8@100 mm c/c rest 3#12 500 200
4.	FB3 200 x 500	2#12(T)+2#12(E) 2L-#8@100mm c/c for 1000 mm length from column face 2#16(T) 500 200	3#12(T) 2L-#8@150 mm c/c rest 2#16 1543 710

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
5.	FB3A 200 x 500	2#12(T)+2#12(E) 2L-#8@100mm c/c 2#16(T) 500 200	3#12(T) 2L-#8@100 mm c/c 2#16 1543 710
6.	FB4 200 x 500	2#16(T)+1#16(E) 2L-#8@120mm c/c for 1000mm length from column face 2#16(T)+1#12(E) 500 200	2#16(T) 2L-#8@120mm c/c 2#16(T)+1#12(E) 500 200
7.	FB5 230 x 500	2#16(T)+2#12(E) 2L-#8@85mm c/c for 1000mm length from column face 3#12(T) 500 230	2#16(T) 2L-#8@110 mm c/c rest 3#12(T) 500 230

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    - (a) Foundation - 50 mm
    - (b) Column - 40 mm
    - (c) Floor and roof beam - 30 mm
    - (d) Slab - 25 mm
    - (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
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22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
GROUND FLOOR BEAM DETAILS
(For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

DWG.NO.: TNUHDB/**ODDANCHATRAM**/12

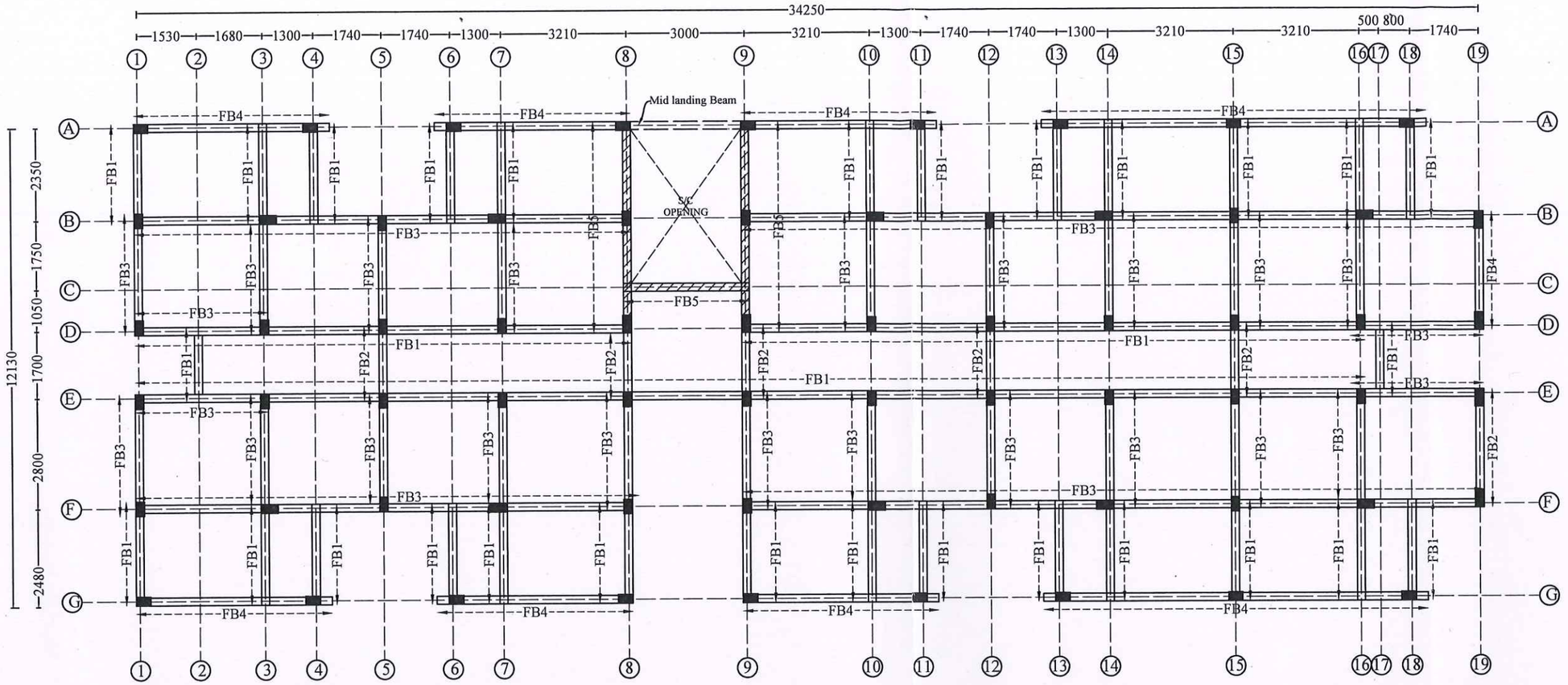
REVISION NO.:

21/09/24 21/09/24 **Assistant Engineer**	**Asst. Exe. Engineer**
26/9/2024 **Executive Engineer** (A/C)	**SE - South**

Chief Engineer - I

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

FIRST & SECOND FLOOR BEAM LAYOUT
(For Blocks: 7,9,10,11&12)



NOTE:
1. For First & Second Floor Beam details refer drawing **TNUHDB**/ODDANCHATRAM/14.

▨ - 230x380mm Beam

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
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9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
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    (e) Water Tank platform 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.
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
FIRST & SECOND FLOOR BEAM LAYOUT
(For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

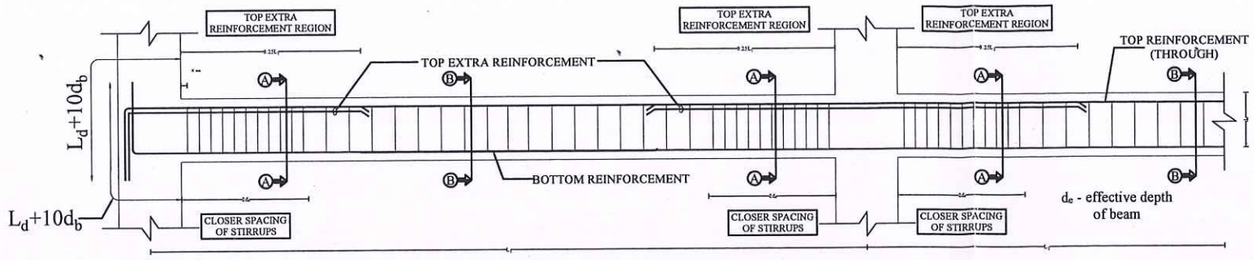
DWG.NO.: TNUHDB/ODDANCHATRAM/13

REVISION NO.:

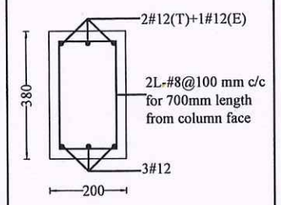
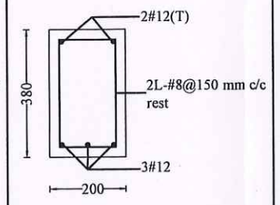
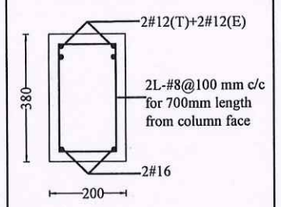
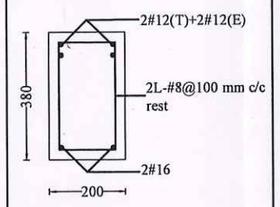
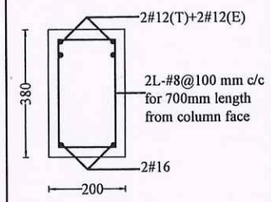
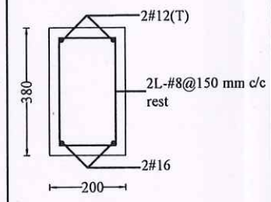
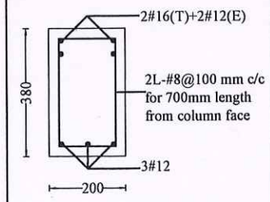
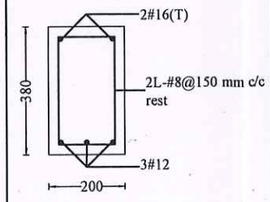
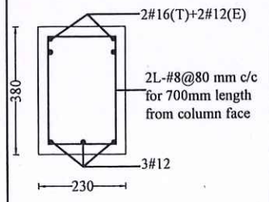
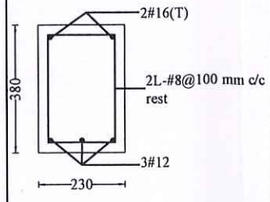
S. Kumaresh 21/09/24 — **Assistant Engineer**	D. Bharathi 21/09/24 — **Asst. Exe. Engineer**
26/9/2024 — **Executive Engineer** (A/c)	**SE - South**
Chief Engineer - I	

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

TYPICAL CURTAILMENT & STIRRUPS DETAILS



FIRST & SECOND FLOOR BEAM DETAILS
(For Blocks: 7,9,10,11&12)

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	FB1 200 x 380		
2.	FB2 200 x 380		
3.	FB3 200 x 380		
4.	FB4 200 x 380		
5.	FB5 230 x 380		

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. 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.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
FIRST & SECOND FLOOR BEAM DETAILS
(For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

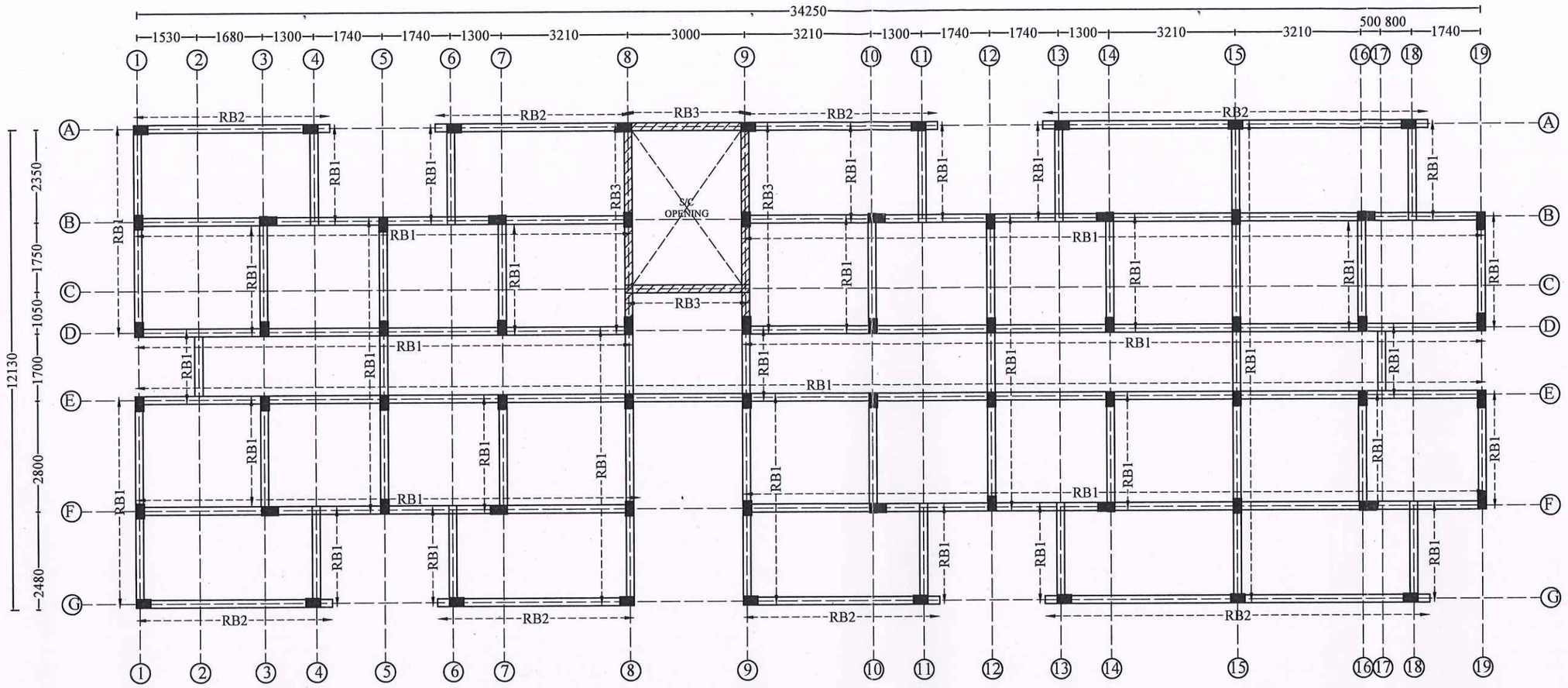
DWG.NO.: TNUHDB/**ODDANCHATRAM**/14

REVISION NO.:

21/09/24 21/09/24 **Assistant Engineer**	**Asst. Exe. Engineer**
26/9/2024 **Executive Engineer** (A/c)	**SE - South**
26/9/24 **Chief Engineer - I**	

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

TERRACE FLOOR BEAM LAYOUT
(For Blocks: 7,9,10,11&12)



NOTE:
1. For Terrace Floor Beam details refer drawing **TNUHDB**/ODDANCHATRAM/16.

▨ - 230x380mm Beam

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
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11. Clear cover for reinforcement are as follows:
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    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
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22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
TERRACE FLOOR BEAM LAYOUT
(For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

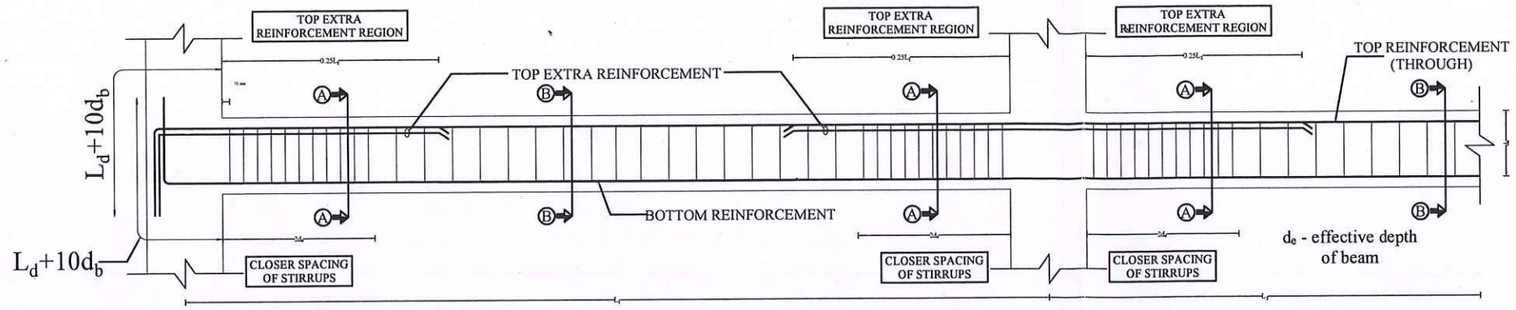
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REVISION NO.:

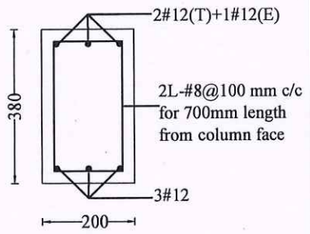
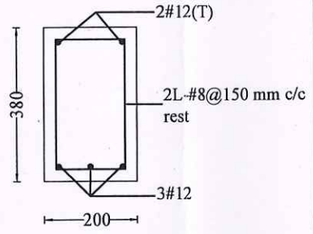
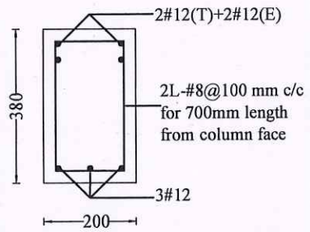
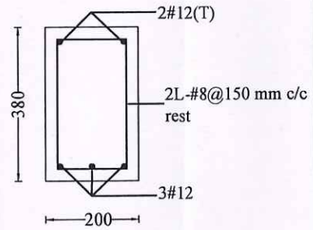
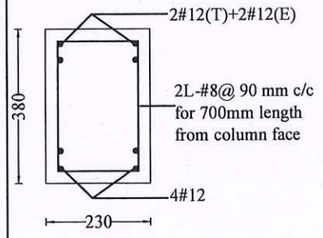
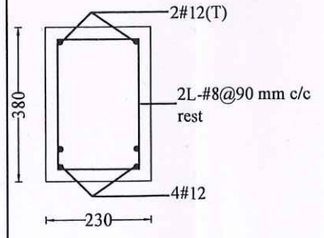
Assistant Engineer	Asst. Exe. Engineer
Executive Engineer (A/C)	SE - South
Chief Engineer - I	

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

TYPICAL CURTAILMENT & STIRRUPS DETAILS



TERRACE FLOOR BEAM DETAILS
(For Blocks: 7,9,10,11&12)

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	RB1 200 x 380		
2.	RB2 200 x 380		
3.	RB3 230 x 380		

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    - (a) Foundation - 50 mm
    - (b) Column - 40 mm
    - (c) Floor and roof beam - 30 mm
    - (d) Slab - 25 mm
    - (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. 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.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
TERRACE FLOOR BEAM DETAILS
(For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

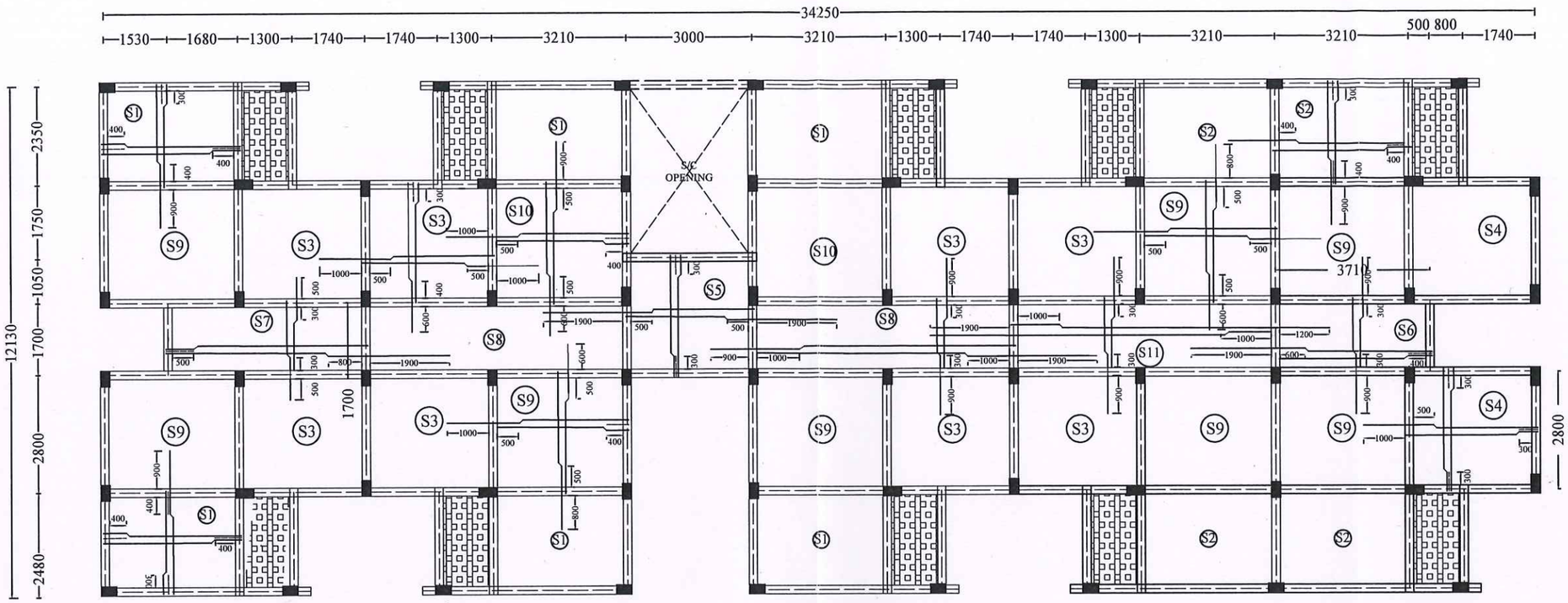
DWG.NO.: TNUHDB/**ODDANCHATRAM**/16

REVISION NO.:

21/09/24 **Assistant Engineer**	21/09/24 **Asst. Exe. Engineer**
26/9/2024 **Executive Engineer** (A/c)	**SE - South**
Chief Engineer - I	

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

TYPICAL FLOOR SLAB DETAILS
(For All Blocks)



SLAB SUNKEN BY 325mm

Note:
1. SLAB 125mm THICK
2. ALL SLAB REINFORCEMENT ARE #8@180mm c/c
3. FOR REFER DRAWING NO.: TNUHDB/ODDANCHATRAM/GEN/03.

NOTE:

1. All the Dimensions are in mm.
2. M25 Concrete and Fe500 grade steel shall be adopted.
3. Slab Thickness is 125mm.
4. Clear cover to slab is 25mm.
5. Crank point distances are as shown.
6. "-------" denotes extra rods to be provided at top.

STRUCTURAL DETAILS

PROJECT:
PROJECT:CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
TYPICAL FLOOR SLAB DETAILS
(For All Blocks)

TYPE DESIGN NO.: 23/2021 [TYPE - A]

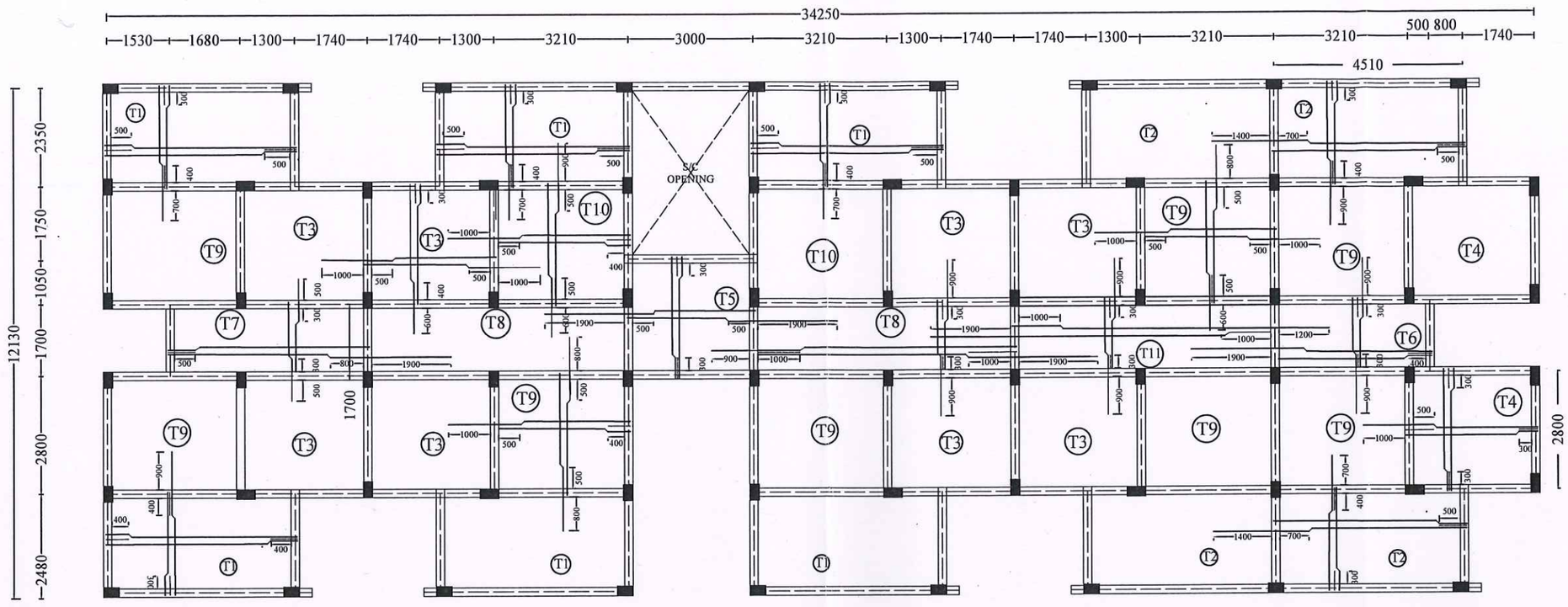
DWG.NO.: TNUHDB/ODDANCHATRAM/**17.**

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer (A/c)	**SE - South**
Chief Engineer - I	

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

TERRACE FLOOR SLAB DETAILS
(For All Blocks)



Note:
1. SLAB 125mm THICK
2. ALL SLAB REINFORCEMENT ARE #8@180mm c/c
3. FOR REFER DRAWING NO.: TNUHDB/ODDANCHATRAM/GEN/03.

NOTE:

1. All the Dimensions are in mm.
2. M25 Concrete and Fe500 grade steel shall be adopted.
3. Slab Thickness is 125mm.
4. Clear cover to slab is 25mm.
5. Crank point distances are as shown.
6. "-------" denotes extra rods to be provided at top.

STRUCTURAL DETAILS

PROJECT:
PROJECT:CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
TERRACE FLOOR SLAB DETAILS
(For All Blocks)

TYPE DESIGN NO.: 23/2021 [TYPE - A]

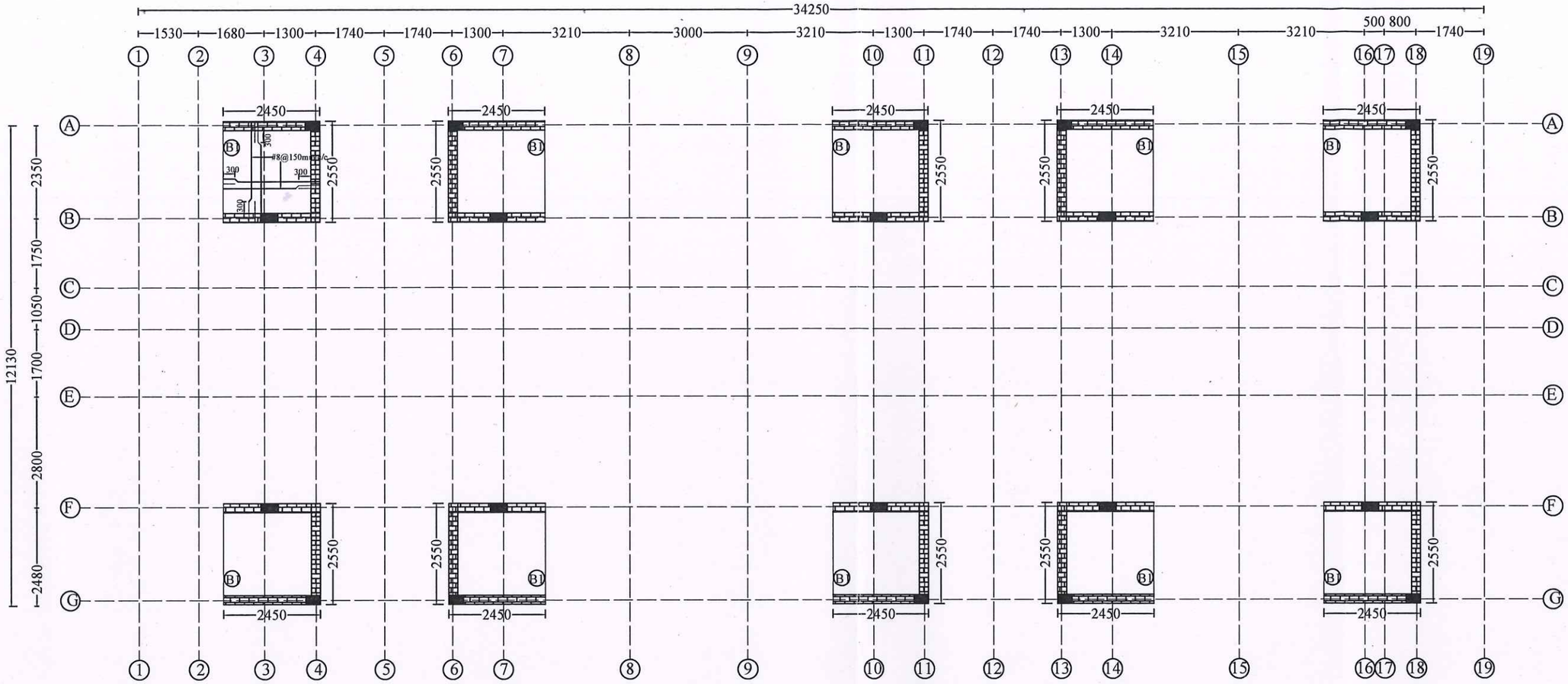
DWG.NO.: TNUHDB/ODDANCHATRAM/**18.**

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer (A/C)	**SE - South**
Chief Engineer - I	

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

LOCATION OF WATER TANK PLATFORM SLAB & SLAB DETAILS
(For All Blocks)



- 230mm Fly Ash Brick work

NOTE:
1. Water Tank Base Slab can be rested on the Flyash Brick Work.
2. The height of Brick Work shall be on per site condition.

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for (**G+3**) floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
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20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
LOCATION OF WATER TANK PLATFORM SLAB & SLAB DETAILS (For All Blocks)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

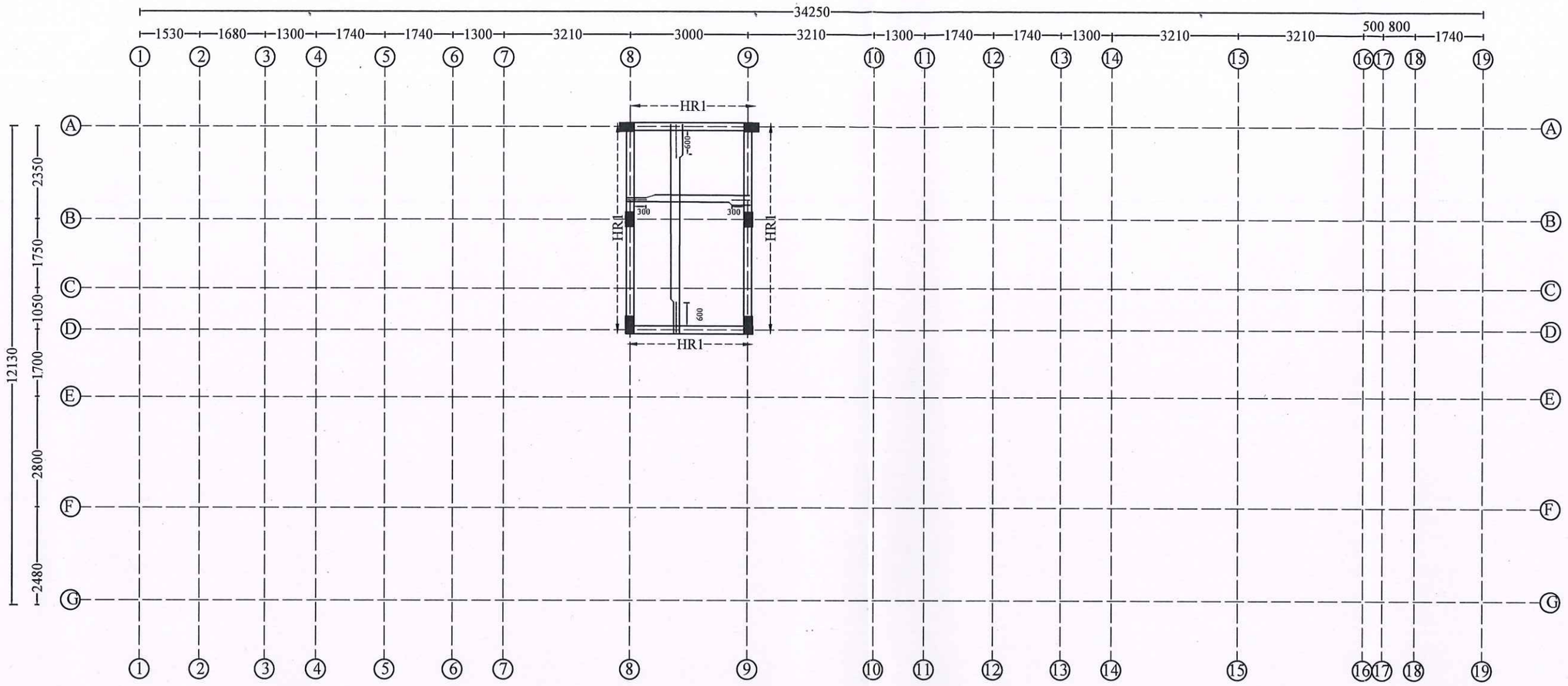
DWG.NO.: TNUHDB/ODDANCHATRAM/19

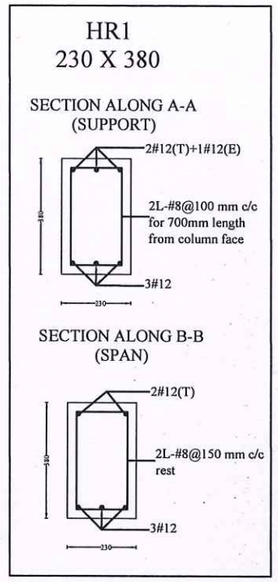
REVISION NO.:

Assistant Engineer	Asst. Exe. Engineer
Executive Engineer (A/C)	SE - South
Chief Engineer - I	

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

HEAD ROOM BEAM LAYOUT AND SLAB DETAILS
(For All Blocks)





Note:
1.SLAB 125mm THICK
2.ALL SLAB REINFORCEMENT ARE #8@180mm c/c

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 **M25** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
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    (e) Water Tank platform 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.
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20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
HEAD ROOM BEAM LAYOUT AND SLAB DETAILS (For All Blocks)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

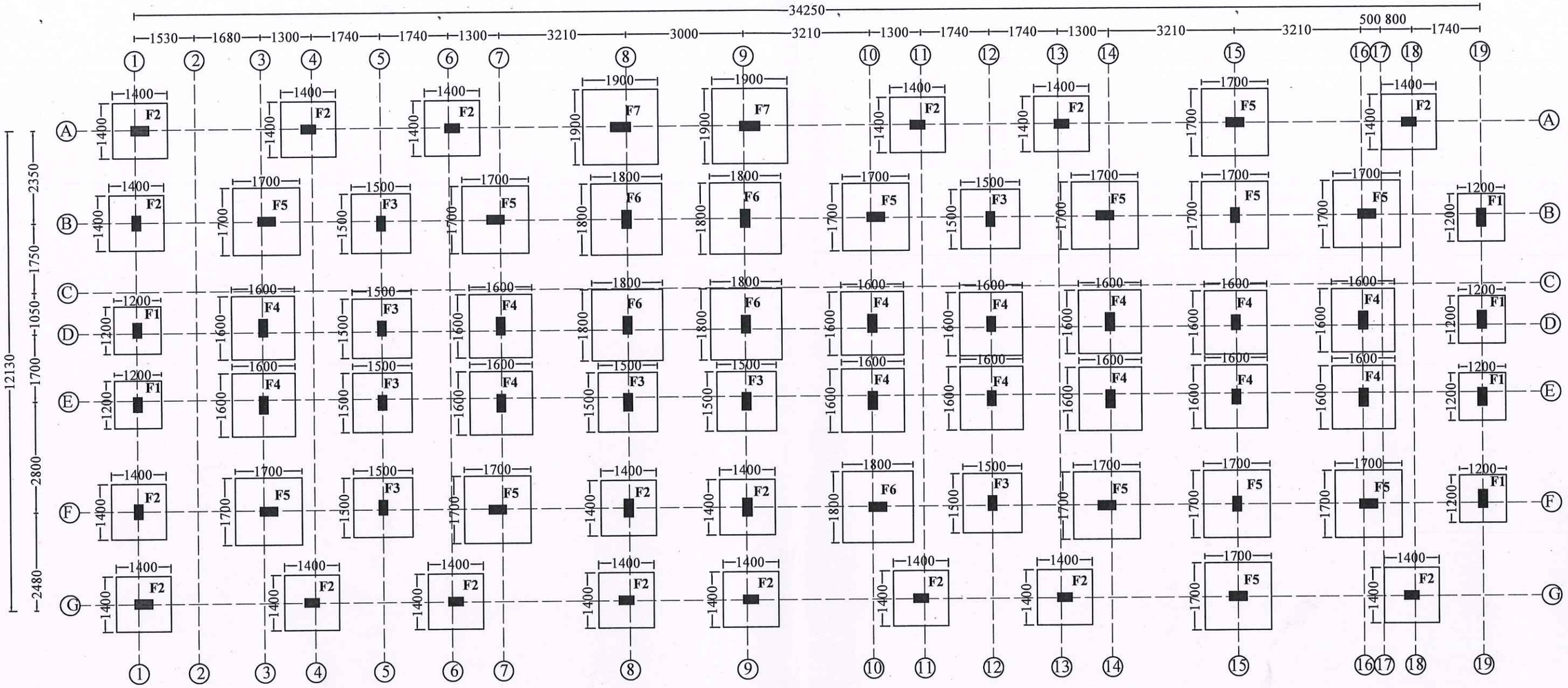
DWG.NO.: TNUHDB/ODDANCHATRAM/20.

REVISION NO.:

S. Kumaresh 21/09/24 **Assistant Engineer**	26/9/2024 **Asst. Exe. Engineer**
26/9/2024 **Executive Engineer** CA/C	**SE - South**
26/9/24 **Chief Engineer - I**	

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

PLAN AT FOUNDATION LEVEL
(For Blocks: 1,2,3,4,5,6,8)



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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    - (a) Foundation - 50 mm
    - (b) Column - 40 mm
    - (c) Floor and roof beam - 30 mm
    - (d) Slab - 25 mm
    - (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. 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.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
PLAN AT FOUNDATION LEVEL
(For Blocks: 1,2,3,4,5,6&8)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

DWG.NO.: TNUHDB/ODDANCHATRAM/21.

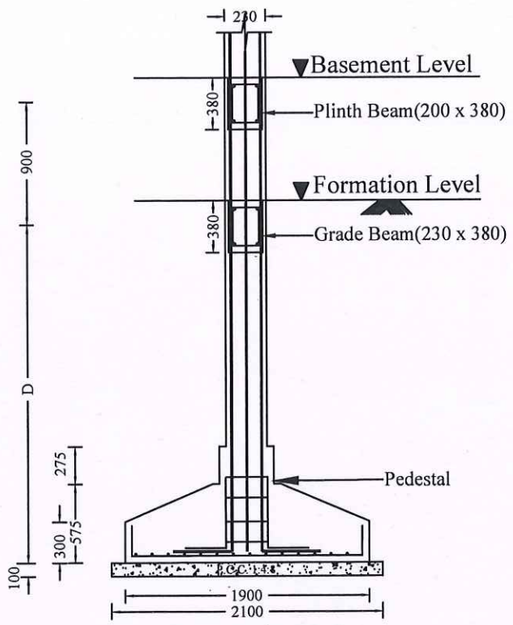
REVISION NO.:

Assistant Engineer	Asst. Exe. Engineer
Executive Engineer	SE - South
Chief Engineer - I	

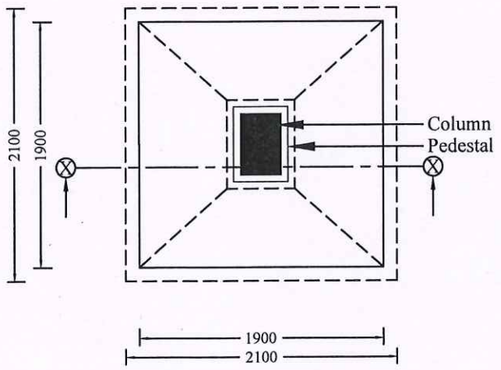
STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

Block No:	D in Metre
1.	3.198
2.	2.5
3.	2.5
4.	2.5
5.	2.5
6.	3.235
8.	2.779

TYPICAL CROSS SECTION
OF COLUMN FOOTING 1,2,3,4,5,6,8.

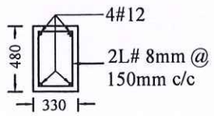


CROSS SECTION @⊗-⊗

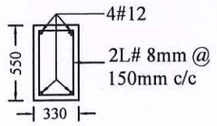


TYPICAL PEDESTAL DETAIL

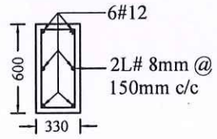
FOR COLUMN
230 x 380



FOR COLUMN
230 x 450



FOR COLUMN
230 x 500



SCHEDULE OF COLUMN FOOTINGS (For Blocks: 1,2,3,4,5,6&8)

Sl.No.	Footing Marking	Numbers of Footing	Pedestal Size (mm x mm x mm)	PCC Mat (mm x mm)	RCC Footing (mm x mm)	Thickness Near Column (mm)	Edge Thickness (mm)	Reinforcement in Footing (mm)
SQUARE FOOTING								
1.	F1	06	330 x 550 x 325	1400 x 1400	1200 x 1200	375	230	Bottom : # 12 mm @ 180 mm C/C both ways
2.	F2	18	330 x 480 x 250 & 330 x 550 x 250	1600 x 1600	1400 x 1400	450	250	Bottom : # 12 mm @ 180 mm C/C both ways
3.	F3	08	330 x 480 x 225	1700 x 1700	1500 x 1500	475	230	Bottom : # 12 mm @ 180 mm C/C both ways
4.	F4	14	330 x 480 x 200 & 330 x 550 x 200	1800 x 1800	1600 x 1600	500	250	Bottom : # 12 mm @ 150 mm C/C both ways
5.	F5	13	330 x 480 x 150 & 330 x 550 x 150	1900 x 1900	1700 x 1700	550	250	Bottom : # 12 mm @ 150 mm C/C both ways
6.	F6	05	330 x 550 x 150	2000 x 2000	1800 x 1800	550	300	Bottom : # 12 mm @ 140 mm C/C both ways
7.	F7	02	330 x 600 x 125	2100 x 2100	1900 x 1900	575	300	Bottom : # 12 mm @ 125 mm C/C both ways

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. 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.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
SCHEDULE OF COLUMN (For Blocks: 1,2,3,4,5,6&8).

TYPE DESIGN NO.: 1/2024 [TYPE - B]

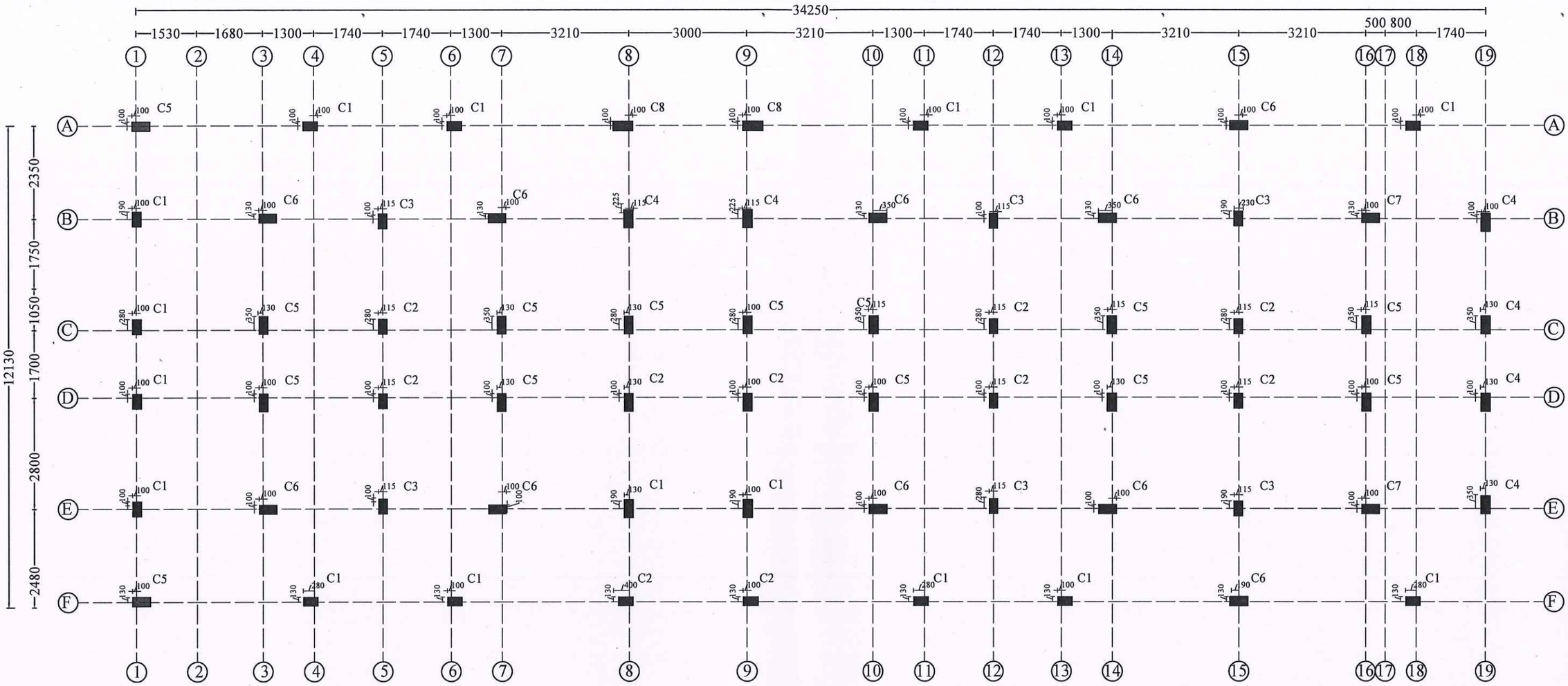
DWG.NO.: TNUHDB/ODDANCHATRAM/22.

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - South**
Chief Engineer - I	

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

COLUMN LAYOUT
(For Blocks: 1,2,3,4,5,6&8)



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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
COLUMN LAYOUT
(For Blocks: 1,2,3,4,5,6&8)

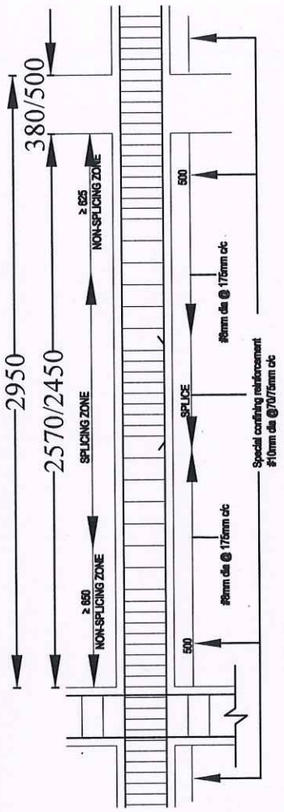
TYPE DESIGN NO.: 1/2024 [TYPE - B]

DWG.NO.: TNUHDB/ODDANCHATRAM/23.

REVISION NO.:

Assistant Engineer	Asst. Exe. Engineer
Executive Engineer (A/C)	SE - South
Chief Engineer - I	

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

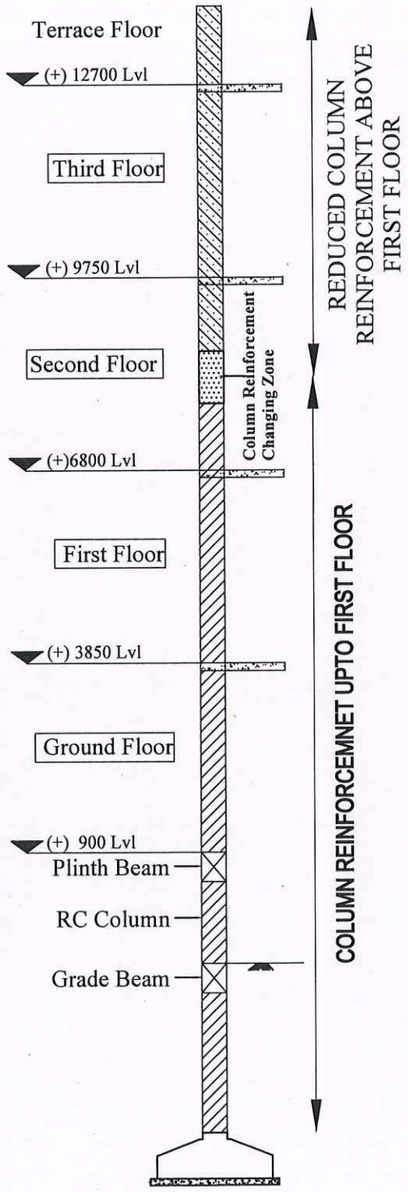


TYPICAL COLUMN SPLICING AND CONFINING REINFORCEMENT DETAILS

SCHEDULE OF COLUMNS
(For Blocks: 1,2,3,4,5,6&8)

Sl. No.	Column Marking	No. of Columns	Size (mm x mm)	Upto First Floor		Above First Floor		Lateral Ties	Ties Profile	
				Column Verticals	Cross Section	Column Verticals	Cross Section			
1.	C1	16	230 x 380	#12 - 8 Nos	230 x 380	#12 - 8 Nos	230 x 380	1) Upto Plinth Beam: # 10 @ 100 mm c/c 2) Above Plinth Beam: # 10 @ 75 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
2.	C2	10	230 x 380	#12 - 6 Nos + #16 - 2 Nos	230 x 380	#12 - 8 Nos	230 x 380	1) Upto Plinth Beam: # 10 @ 100 mm c/c 2) Above Plinth Beam: # 10 @ 75 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
3.	C3	06	230 x 380	#16 - 4 Nos + #12 - 4 Nos	230 x 380	#12 - 8 Nos	230 x 380	1) Upto Plinth Beam: # 10 @ 100 mm c/c 2) Above Plinth Beam: # 10 @ 75 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
4.	C4	06	230 x 450	#16 - 2 Nos + #12 - 6 Nos	230 x 450	#12 - 8 Nos	230 x 450	1) Upto Plinth Beam: # 10 @ 100 mm c/c 2) Above Plinth Beam: # 10 @ 70 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
5.	C5	14	230 x 450	#16 - 4 Nos + #12 - 4 Nos	230 x 450	#12 - 8 Nos	230 x 450	1) Upto Plinth Beam: # 10 @ 100 mm c/c 2) Above Plinth Beam: # 10 @ 70 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
6.	C6	10	230 x 450	#12 - 4 Nos + #16 - 6 Nos	230 x 450	#12 - 10 Nos	230 x 450	1) Upto Plinth Beam: # 10 @ 100 mm c/c 2) Above Plinth Beam: # 10 @ 75 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
7.	C7	02	230 x 450	#16 - 8 Nos + #12 - 2 Nos	230 x 450	#12 - 10 Nos	230 x 450	1) Upto Plinth Beam: # 10 @ 100 mm c/c 2) Above Plinth Beam: # 10 @ 75 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		
8.	C8	02	230 x 500	#16 - 10 Nos	230 x 500	#12 - 10 Nos	230 x 500	1) Upto Plinth Beam: # 10 @ 100 mm c/c 2) Above Plinth Beam: # 10 @ 75 mm c/c for 500 mm at top and bottom near beam - column junction and the rest #8 @ 175mm c/c		

Notes: In Cross Section a - # 16 mm b - # 12 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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    - (a) Foundation - 50 mm
    - (b) Column - 40 mm
    - (c) Floor and roof beam - 30 mm
    - (d) Slab - 25 mm
    - (e) Water Tank platform 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.
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
SCHEDULE OF COLUMN (For blocks: 1,2,3,4,5,6&8)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

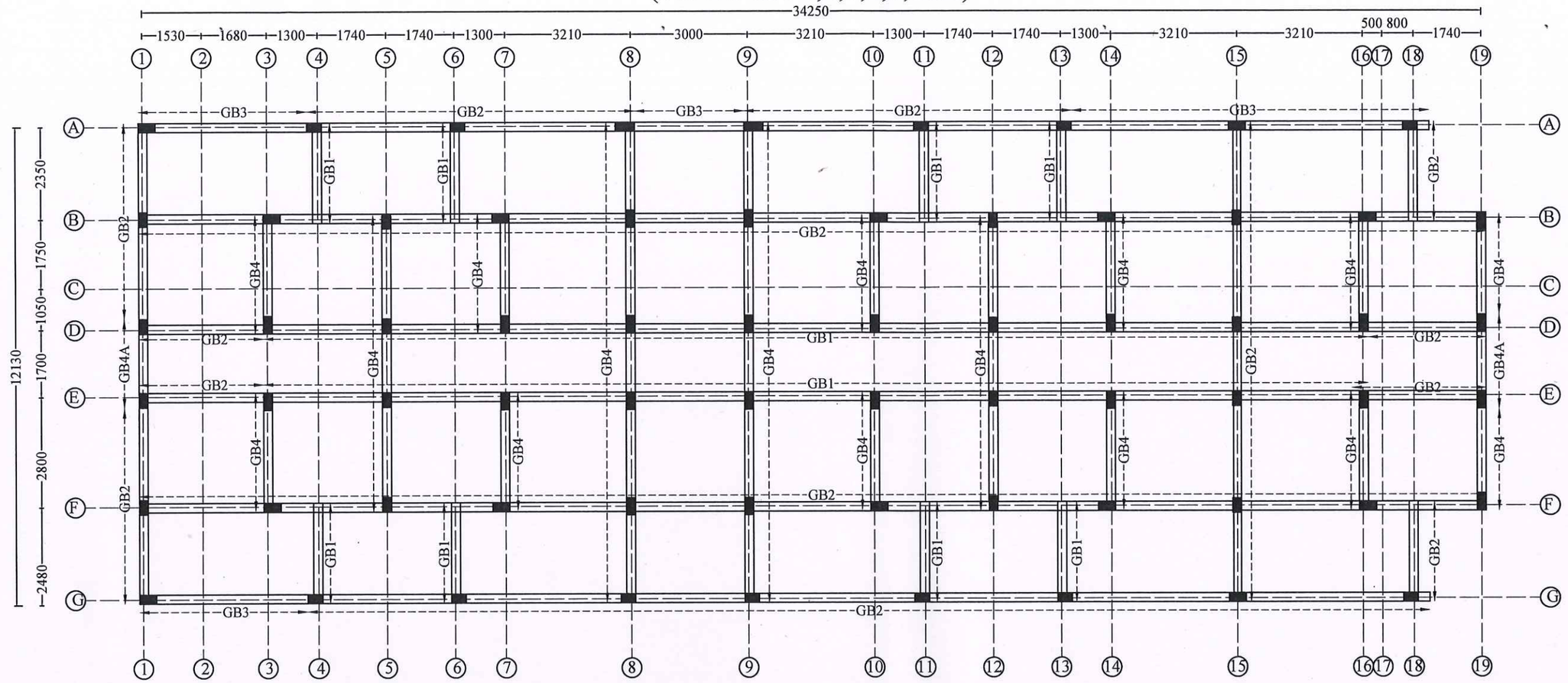
DWG.NO.: TNUHDB/ODDANCHATRAM/24.

REVISION NO.:

24/09/24 **Assistant Engineer**	26/9/24 **Asst. Exe. Engineer**
26/9/2024 **Executive Engineer** (CA/C)	**SE - South**
26/9/24 **Chief Engineer - I**	

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

GRADE BEAM LAYOUT
(For Blocks: 1,2,3,4,5,6&8)



NOTE:
1. For Grade Beam details refer drawing **TNUHDB**/ODDANCHATRAM/26.

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 **M25** grade, conforming to IS: 456 - 2000.
4. All the reinforcement shall be of **Fe500D** grade conforming to IS 1786 - 2008 unless noted otherwise.
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6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
GRADE BEAM LAYOUT
(For Blocks: 1,2,3,4,5,6&8)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

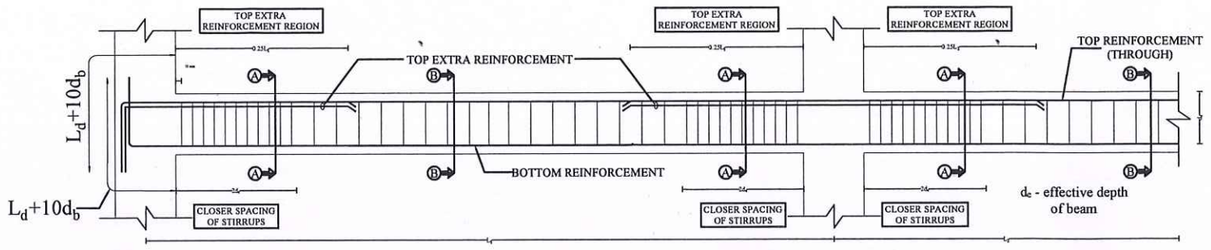
DWG.NO.: TNUHDB/ODDANCHATRAM/25.

REVISION NO.:

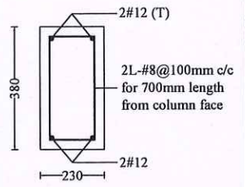
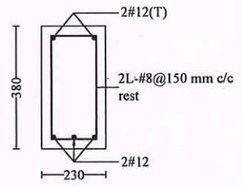
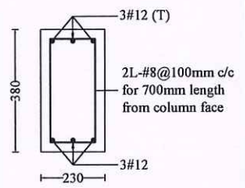
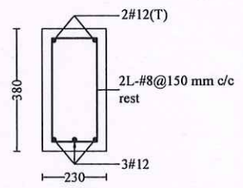
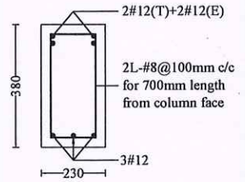
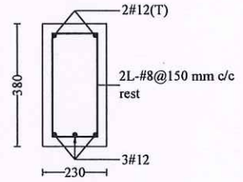
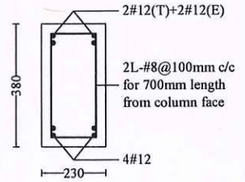
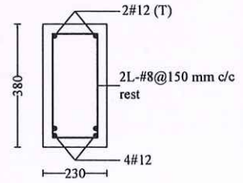
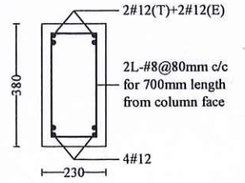
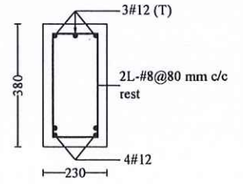
S. Kumaresh 21/09/24 — **Assistant Engineer**	**Asst. Exe. Engineer**
26/9/2024 — **Executive Engineer** (CA/C)	**SE - South**
Chief Engineer - I	

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

TYPICAL CURTAILMENT & STIRRUPS DETAILS



GRADE BEAM DETAILS
(For Blocks: 1,2,3,4,5,6,&8)

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	GB1 230 x 380		
2.	GB2 230 x 380		
3.	GB3 230 x 380		
4.	GB4 230 x 380		
5.	GB4A 230 x 380		

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. 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.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
GRADE BEAM DETAILS (For Blocks: 1,2,3,4,5,6&8)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

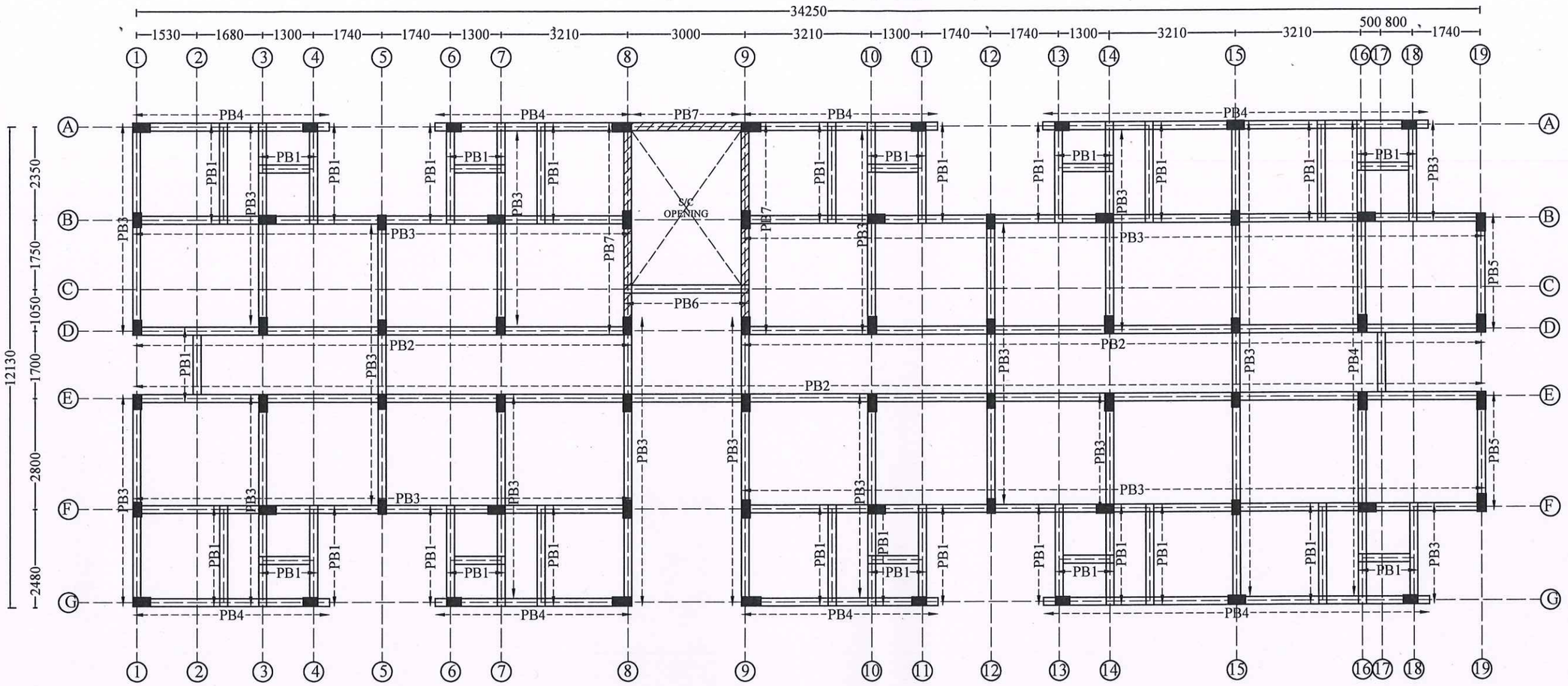
DWG.NO.: TNUHDB/ODDANCHATRAM/26.

REVISION NO.:

21/09/24 **Assistant Engineer**	21/09/24 **Asst. Exe. Engineer**
26/9/2024 **Executive Engineer** (A/C)	**SE - South**
26/9/24 **Chief Engineer - I**	

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

PLINTH BEAM LAYOUT
(For Blocks: 1,2,3,4,5,6&8)



NOTE:
1. For Plinth Beam details refer drawing **TNUHDB**/ODDANCHATRAM/28.

▨ - 230x380mm Beam

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for (**G+3**) floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
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20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
PLINTH BEAM LAYOUT
(For Blocks: 7,9,10,11&12)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

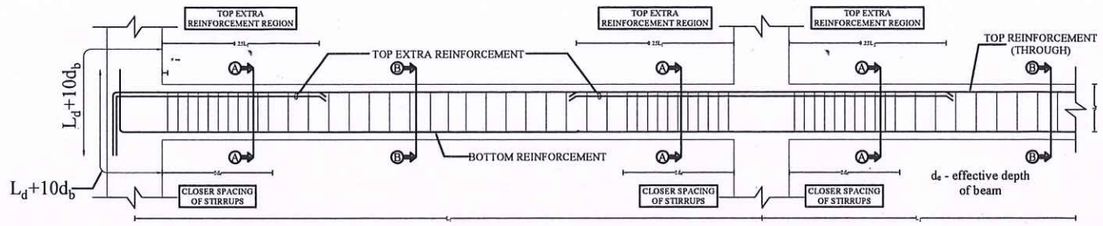
DWG.NO.: TNUHDB/ODDANCHATRAM/27.

REVISION NO.:

S. Kumaresh 21/09/24 **Assistant Engineer**	A Byrd 21/09/24 **Asst. Exe. Engineer**
26/9/2024 **Executive Engineer** (A/c)	**SE - South**
Chief Engineer - I	

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

TYPICAL CURTAILMENT & STIRRUPS DETAILS



PLINTH BEAM DETAILS
(For Blocks: 1,2,3,4,5,6&8)

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	PB1 200 x 380	2#12 (T); 2L-#8@100mm c/c for 700mm length from column face; 2#12; 380; 200	2#12(T); 2L-#8@150 mm c/c rest; 2#12; 380; 200
2.	PB2 200 x 380	2#12(T)+1#12(E); 2L-#8@100mm c/c for 700mm length from column face; 2#12; 380; 200	2#12(T); 2L-#8@150 mm c/c rest; 2#12; 380; 200
3.	PB3 200 x 380	2#12(T)+1#12(E); 2L-#8@100mm c/c for 700mm length from column face; 3#12; 380; 200	2#12(T); 2L-#8@130 mm c/c rest; 3#12; 380; 200
4.	PB4 200 x 380	3#12(T)+1#12(E); 2L-#8@100mm c/c for 700mm length from column face; 3#12; 380; 200	3#12(T); 2L-#8@150 mm c/c rest; 3#12; 380; 200
5.	PB5 200 x 380	2#16(T); 2L-#8@100mm c/c for 700mm length from column face; 2#12; 380; 200	2#16(T); 2L-#8@150 mm c/c rest; 2#12; 380; 200
6.	PB6 230 x 380	2#12(T); 2L-#8@100mm c/c for 700mm length from column face; 3#12; 380; 230	2#12(T); 2L-#8@150 mm c/c rest; 3#12; 380; 230
7.	PB7 230 x 380	4#12(T); 2L-#8@100mm c/c for 700mm length from column face; 3#12; 380; 230	3#12(T); 2L-#8@130 mm c/c rest; 3#12; 380; 230

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
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22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
PLINTH BEAM DETAILS (For Blocks: 1,2,3,4,5,6&8)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

DWG.NO.: TNUHDB/**ODDANCHATRAM**/28.

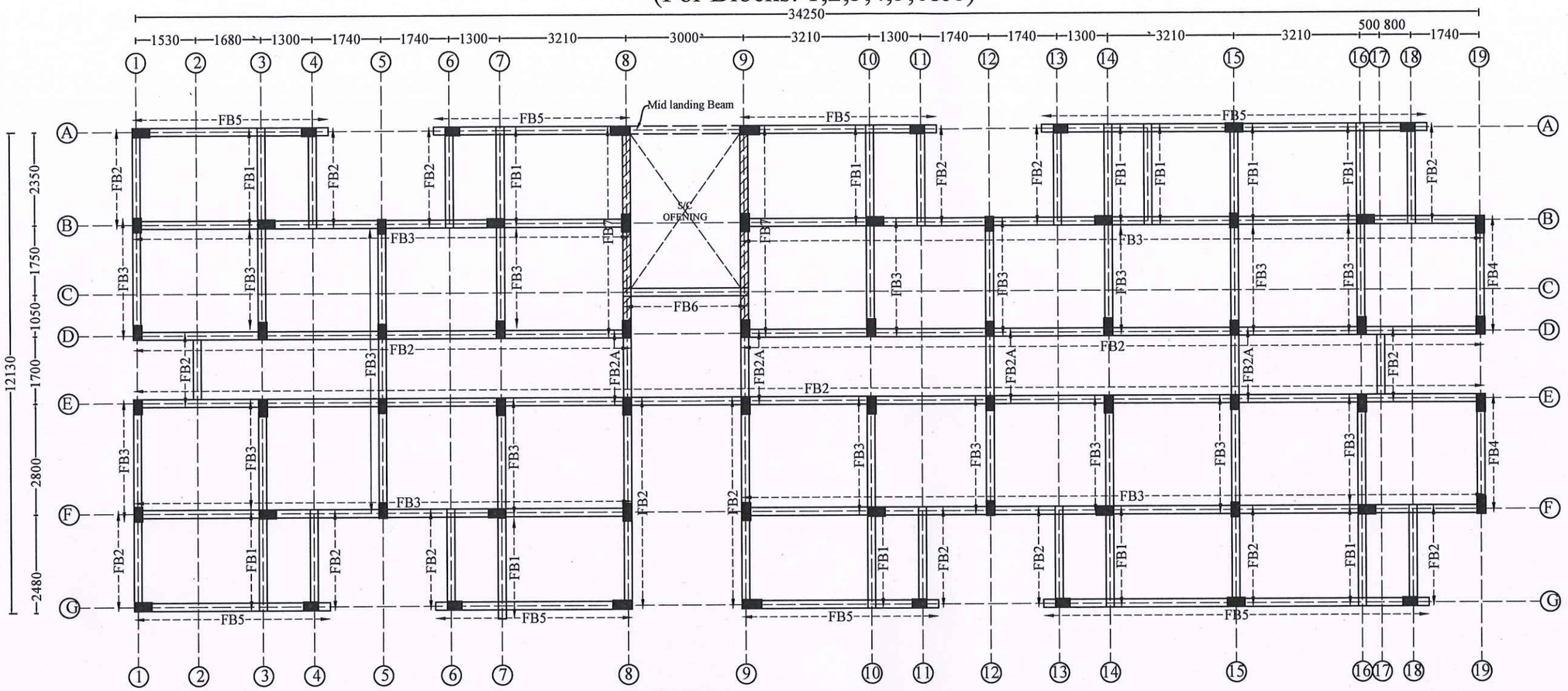
REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - South**

Chief Engineer - I

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

GROUND FLOOR BEAM LAYOUT
(For Blocks: 1,2,3,4,5,6&8)



NOTE:
1. For Ground floor Beam details refer drawing **TNUHDB**/ODDANCHATRAM/30.

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
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11. Clear cover for reinforcement are as follows:
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    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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.
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17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
GROUND FLOOR BEAM LAYOUT
(For Blocks: 1,2,3,4,5,6&8)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

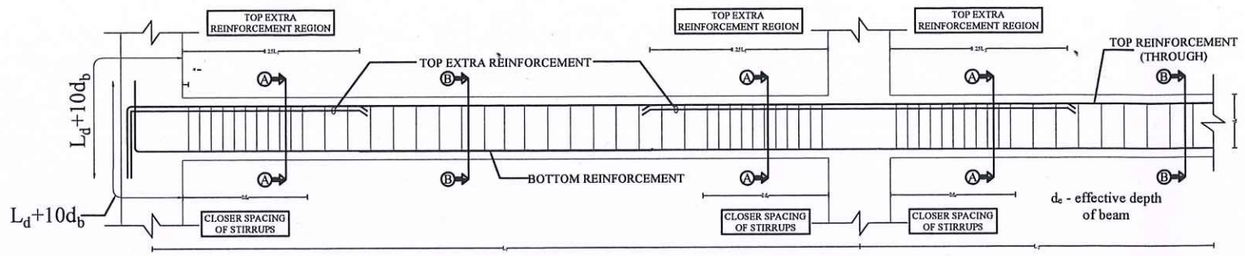
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REVISION NO.:

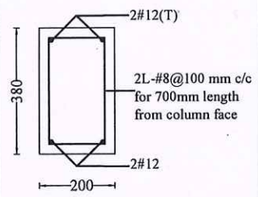
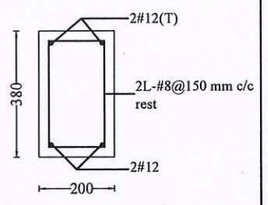
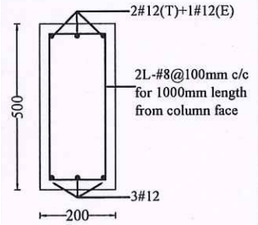
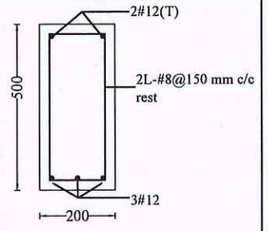
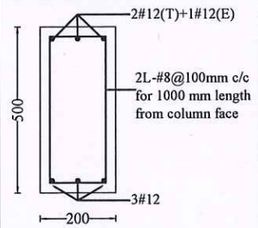
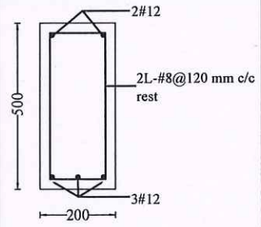
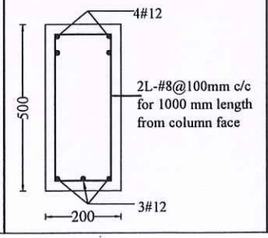
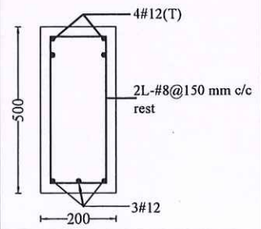
Assistant Engineer	Asst. Exe. Engineer
Executive Engineer (A/c)	SE - South
Chief Engineer - I	

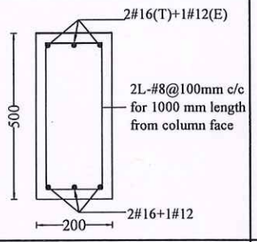
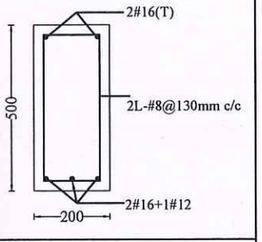
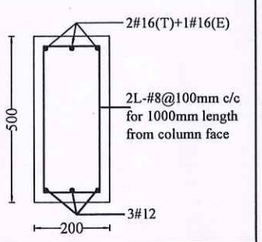
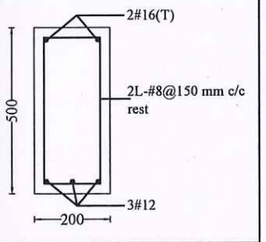
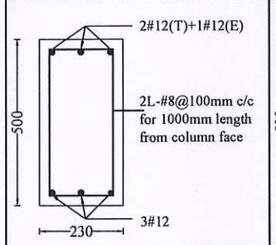
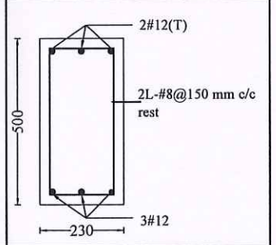
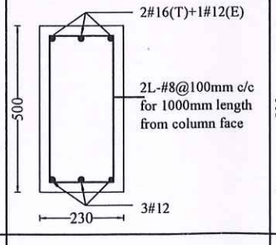
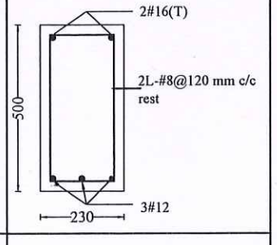
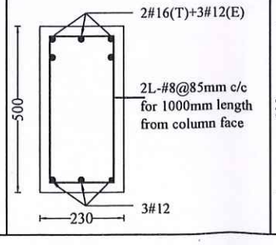
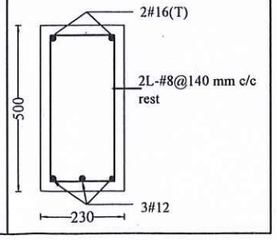
STRUCTURAL & QUALITY CONTROL CELL
TAMIL NADU URBAN HABITAT DEVELOPMENT BOARD
NO.5, KAMARAJAR SALAI
CHENNAI - 600 005.

TYPICAL CURTAILMENT & STIRRUPS DETAILS



GROUND FLOOR BEAM DETAILS
(For Blocks: 1,2,3,4,5,6&8)

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	FB1 200 x 380		
2.	FB2 200 x 500		
3.	FB2A 200 x 500		
4.	FB3 200 x 500		

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
5.	FB4 200 x 500		
6.	FB5 200 x 500		
7.	FB6 230 x 500		
8.	FB7 230 x 500		
9.	FB8 230 x 500		

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. 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.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
GROUND FLOOR BEAM DETAILS
(FOR BLOCKS 1,2,3,4,5,6&8)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

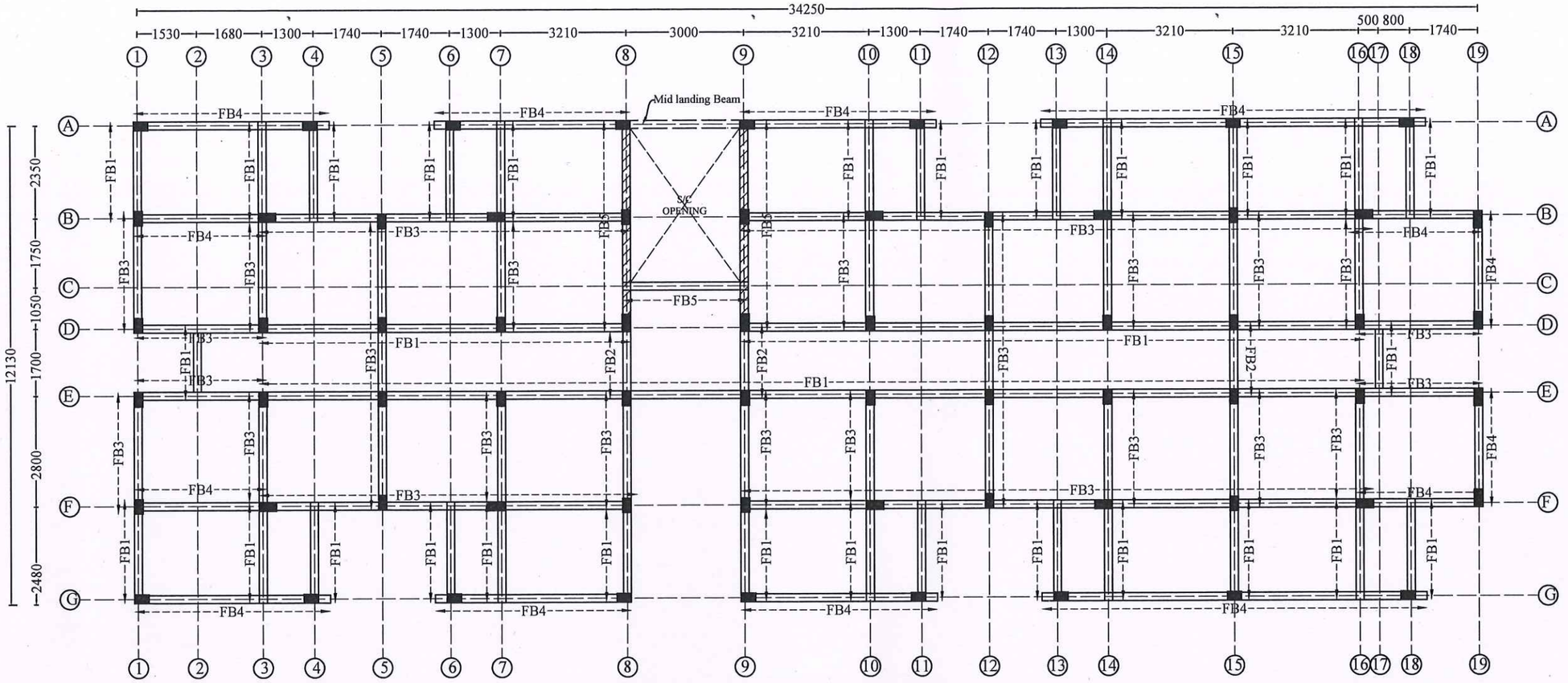
DWG.NO.: TNUHDB/**ODDANCHATRAM**/30.

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer (A/c)	**SE - South**
Chief Engineer - I	

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

FIRST & SECOND FLOOR BEAM LAYOUT
(For Blocks: 1,2,3,4,5,6&8)



NOTE:
1. For First & Second floor Beam details refer drawing **TNUHDB**/ODDANCHATRAM/32.

▨ - 230x380mm Beam

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
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20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
FIRST & SECOND FLOOR BEAM LAYOUT
(For Blocks: 1,2,3,4,5,6&8)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

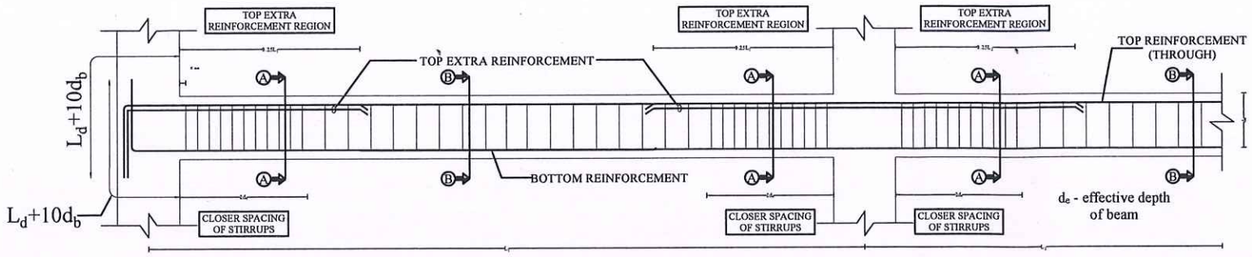
DWG.NO.: TNUHDB/ODDANCHATRAM/31.

REVISION NO.:

J. Kumaresh 21/09/24 **Assistant Engineer**	N. Bharani 21/09/24 **Asst. Exe. Engineer**
26/9/2024 **Executive Engineer** (A/c)	**SE - South**
26/9/24 **Chief Engineer - I**	

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

TYPICAL CURTAILMENT & STIRRUPS DETAILS



FIRST & SECOND FLOOR BEAM DETAILS
(For Blocks: 1,2,3,4,5,6&8)

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	FB1 200 x 380	2#12(T)+1#12(E) 2L-#8@100 mm c/c for 700mm length from column face 3#12 380 200	2#12(T) 2L-#8@150 mm c/c rest 3#12 380 200
2.	FB2 200 x 380	2#16(T) 2L-#8@100 mm c/c for 700mm length from column face 2#16 380 200	2#16(T) 2L-#8@100 mm c/c rest 2#16 380 200
3.	FB3 200 x 380	4#12(T) 2L-#8@100 mm c/c for 700mm length from column face 3#12 380 200	2#12(T) 2L-#8@150 mm c/c rest 3#12 380 200
4.	FB4 200 x 380	2#16(T)+2#12(E) 2L-#8@100 mm c/c for 700mm length from column face 3#12 380 200	2#16(T) 2L-#8@150 mm c/c rest 3#12 380 200
5.	FB5 230 x 380	2#16(T)+2#12(E) 2L-#8@80 mm c/c for 700mm length from column face 3#12 380 230	2#16(T) 2L-#8@100 mm c/c rest 3#12 380 230

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. 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.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
FIRST & SECOND FLOOR BEAM DETAILS.

TYPE DESIGN NO.: 1/2024 [TYPE - B]

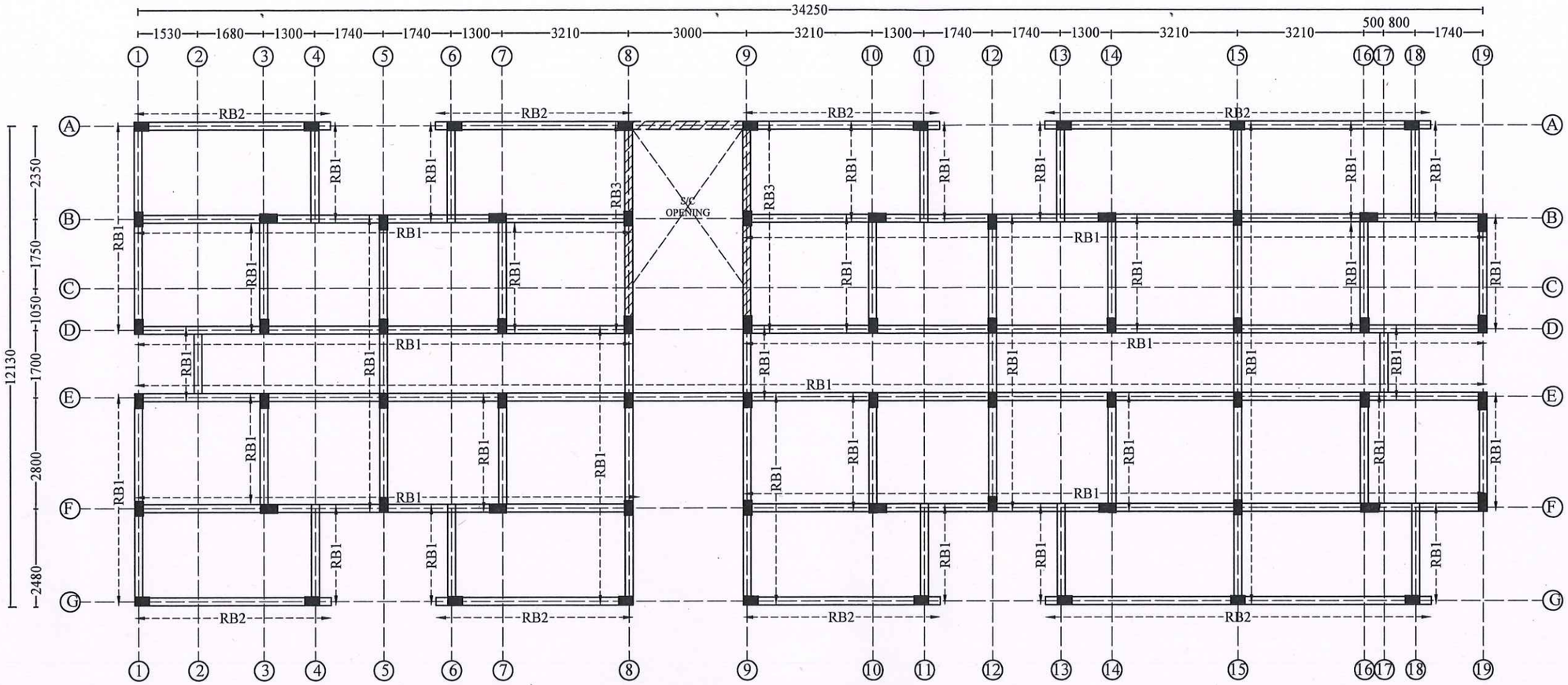
DWG.NO.: TNUHDB/**ODDANCHATRAM**/32.

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer (A/c)	**SE - South**
Chief Engineer - I	

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

TERRACE FLOOR BEAM LAYOUT
(For Blocks: 1,2,3,4,5,6&8)



NOTE:
1. Terrace floor Beam details refer drawing **TNUHDB**/ODDANCHATRAM/34.

▨ - 230x380mm Beam

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
7. Structure is designed for **(G+3)** floors only.
8. Design of the structure carried out with Limit State Method.
9. The depth of foundation(Isolated footing) varies from the formation level (Refer respective drawings) for each block.The bearing capacity at this level is **200 kN/sq.m.** as recommended in Soil Report.
10. Analysis of the structure done with **ETABS.**
11. Clear cover for reinforcement are as follows:
    (a) Foundation - 50 mm
    (b) Column - 40 mm
    (c) Floor and roof beam - 30 mm
    (d) Slab - 25 mm
    (e) Water Tank platform 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 50 Ø.
17. Based on the information provided by the EE, the analysis has been done considering the bottom level of footing is same in a block. In case of change in level of the footing during construction, this has to be brought to the knowledge of the undersigned and revision if any needed should be made accordingly.
18. 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.
19. Ground water quality has to be conformed for suitability to construction work.
20. The ground water / soil to be tested for chlorides & sulphates and remedial measures if any should be taken accordingly.
21. Dimensions and levels are to unfinished surface excluding finishes,coating etc,. unless noted otherwise. The dimension should be checked with type design drawing.
22. The Recommendations in the soil report done by Government College of Engineering, Bodinayakanur Report No.: GCE/PCE/SOIL/006C/2022 Dt.:08.09.2022 should be followed scrupulously.

STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATRAM - ACHARAYA VINOBABHAVE NAGAR

TITLE:
TERRACE FLOOR BEAM LAYOUT
(For Blocks: 1,2,3,4,5,6&8)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

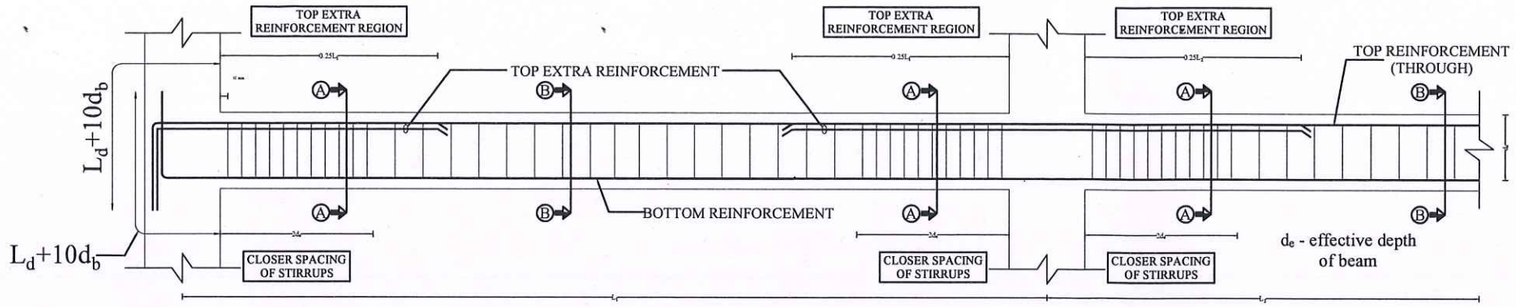
DWG.NO.: TNUHDB/ODDANCHATRAM/33.

REVISION NO.:

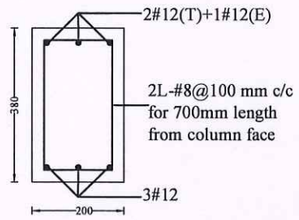
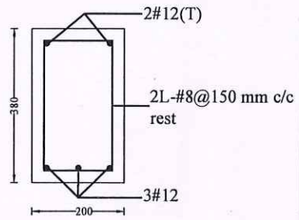
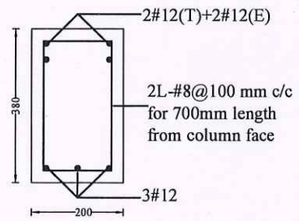
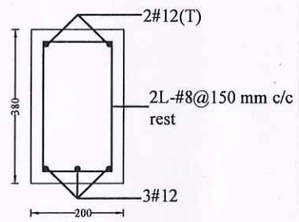
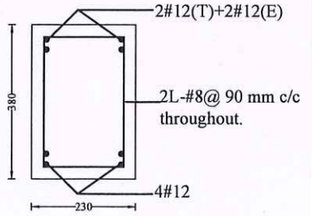
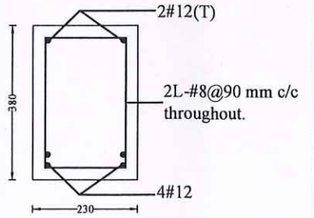
S. Kumaresh 21/09/24 **Assistant Engineer**	A.B. 21/09/24 **Asst. Exe. Engineer**
26/9/2024 **Executive Engineer** (A/C)	**SE - South**
Chief Engineer - I	

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

TYPICAL CURTAILMENT & STIRRUPS DETAILS



TERRACE FLOOR BEAM DETAILS
(For Blocks: 1,2,3,4,5,6&8)

Sl. No	Beam Notation & Size (mm x mm)	SECTION ALONG A-A (SUPPORT)	SECTION ALONG B-B (SPAN)
1.	RB1 200 x 380		
2.	RB2 200 x 380		
3.	RB3 230 x 380		

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 **M25** 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 II** as per IS 1893:2016.
6. Fly ash Bricks has been considered for masonry work in sub structure & staircase area in super structure and **AAC** Blocks has been considered for masonry work in super structure as recommended by the Executive Engineer.
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11. Clear cover for reinforcement are as follows:
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    (e) Water Tank platform 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.
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STRUCTURAL DETAILS

PROJECT:
CONSTRUCTION OF 480 TENEMENTS (G+3) FLOOR AT ODDANCHATARAM - ACHARAYA VINOBA BHAVE NAGAR

TITLE:
TERRACE FLOOR BEAM DETAILS
(For Blocks: 1,2,3,4,5,6&8)

TYPE DESIGN NO.: 1/2024 [TYPE - B]

DWG.NO.: TNUHDB/**ODDANCHATRAM**/34.

REVISION NO.:

Assistant Engineer	**Asst. Exe. Engineer**
Executive Engineer	**SE - South**

Chief Engineer - I

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



our services doesn't just end there

Buying & Selling Services

Property Buying Assistance, Property Selling Support, Market Price Analysis, Owner Outreach and Negotiation.

Legal & Documentation Services

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

Property Development & Approvals

Building plan approvals, construction, layout and sub-division approvals, zone conversion, and occupancy certification.

NRI & Investment Services

Escrow Services, Rentals, Litigation Solutions, Property Valuation and Property Management

Compliance & Special Services

Demolition, Vaasthu checks, regularization of unauthorized buildings, and office space solutions.



empowering your real estate decisions with smart tools

Property Valuation & Cost Estimation

Guideline Value, Apartment Composite Value, Stamp Duty & Registration Fees Calculator, Building Value Calculator, Capital Gains Calculator, Area Unit Converter, Length Unit Converter

Ownership, Compliance & Legal Verification

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

Zoning & Land Use Analysis

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

Property Documentation & Workflow Tools

Forms & Templates, Document Generator, Document Translation, Dictionary

Vastu & Property Management Tools

Home Vastu Shastra, Plot Vastu Shastra, Property Management

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