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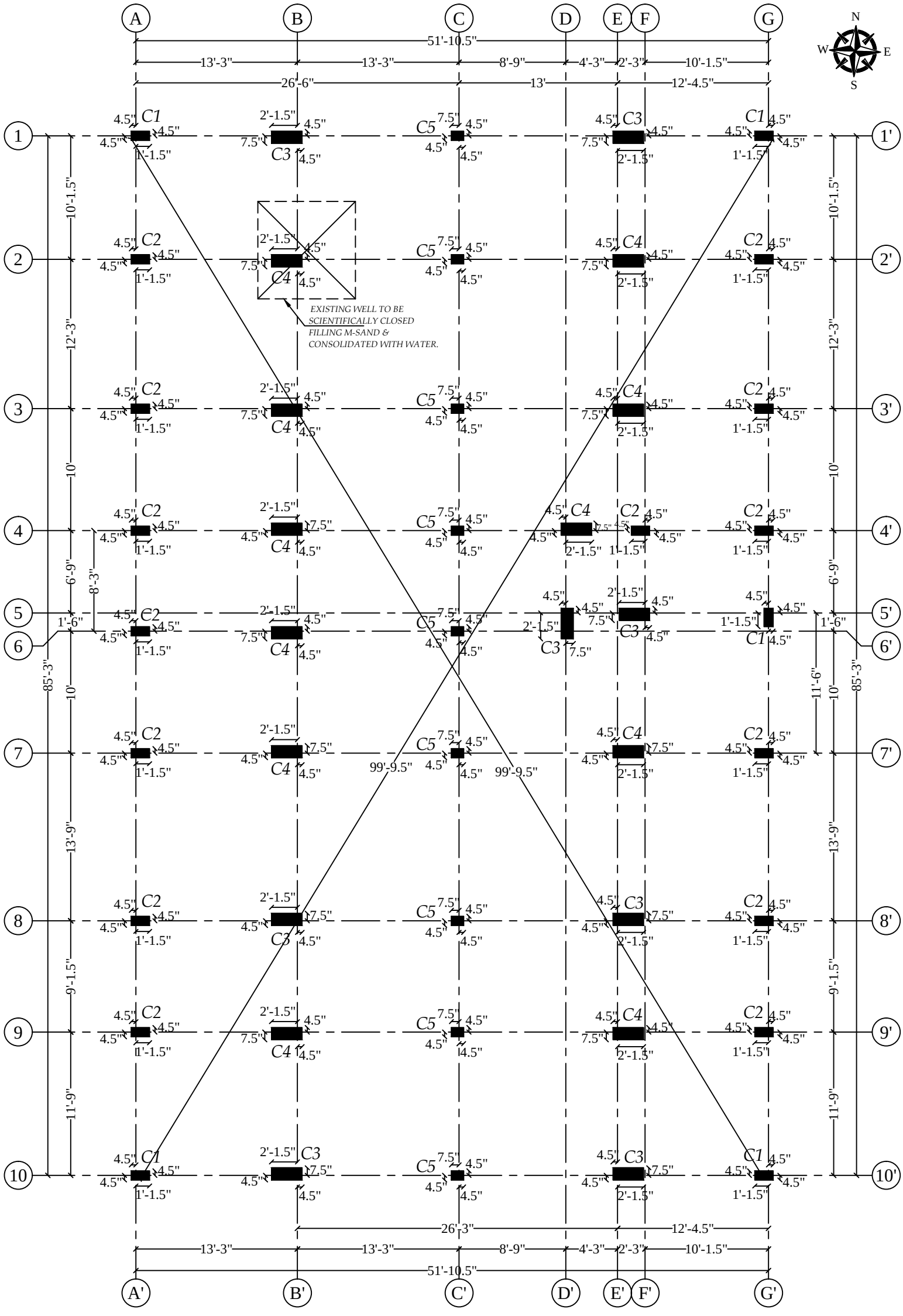
3/350/2 Mettukuppam,
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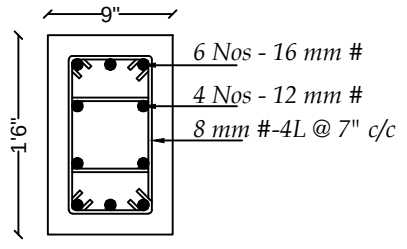

*CONSTRUCTION OF RESIDENTIAL APARTMENT BUILDING @ DOOR NO: 21, CRAWFORD, AROKIYASAMY PILLAI STREET, TRICHY.*

*DRAWING TITLE :-*

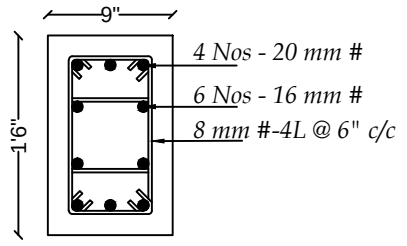
*COLUMN CENTER LINE MARKING*

*COLUMN CROSS SECTION DETAILS*

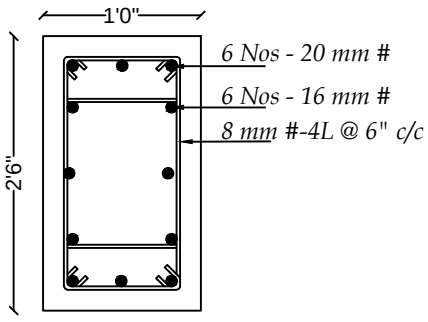
*C1-750 KN (5 NOS)*



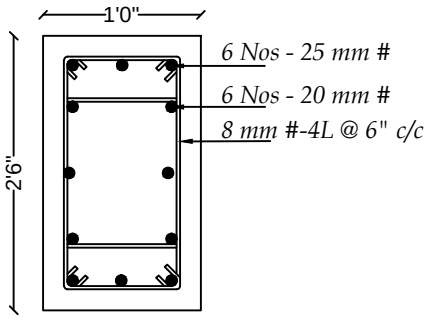

*C2-1200 KN (14 NOS)*



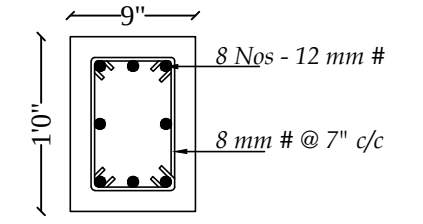

*C3-1750 KN (8 NOS)*




*C4-2500 KN (11 NOS)*

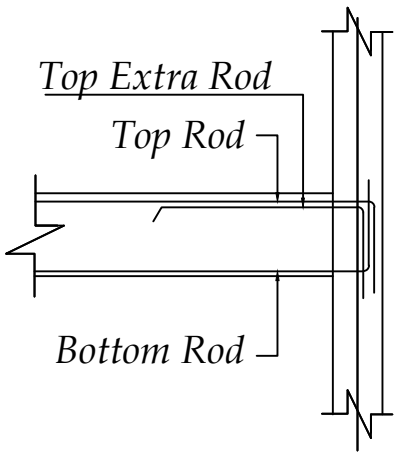



*C5-500 KN (9 NOS) UP TO GL.*

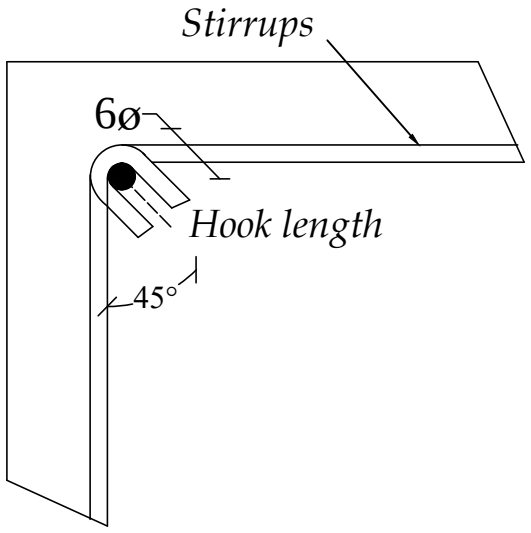


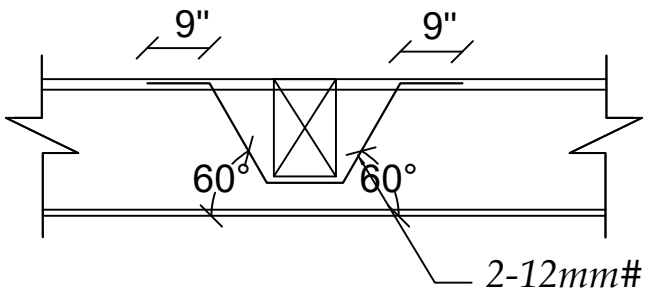

*NOTE:*

| | |
|---|---|
| *Concrete Grade* | *= M25* |
| *Grade of Steel* | *= Fe500* |
| *Clear Cover for Column* | *= 40mm* |
| *Clear Cover for Footing* | *= 50mm* |

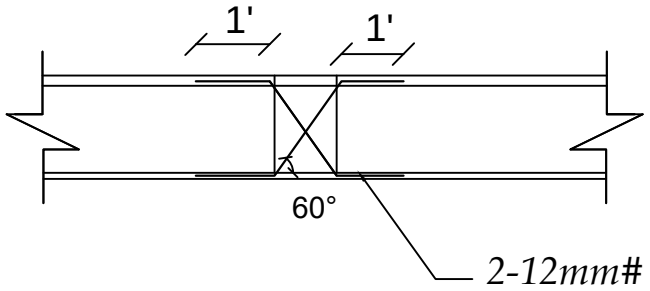



COLUMN BEAM JOINT
TYPICAL DETAILS



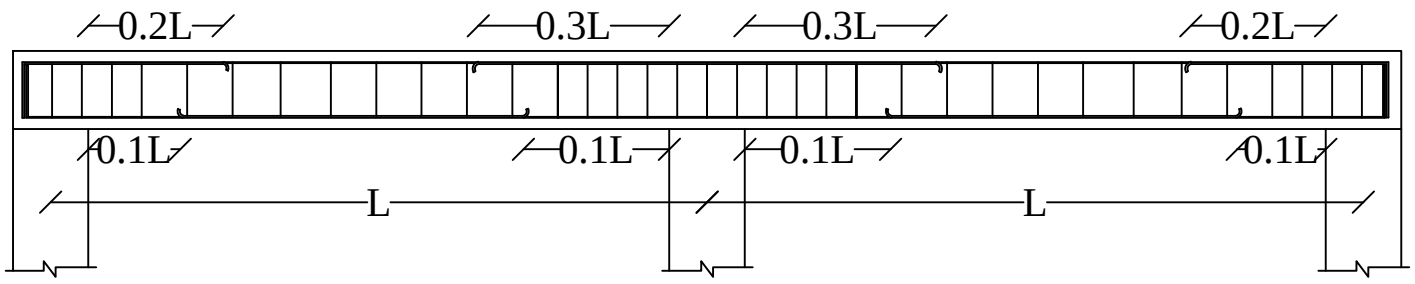




Inter Section of Main Beam &
Secondary Beam (Un Equal Depth)




Inter Section of Main Beam &
Secondary Beam ( Equal Depth)

DETAILS OF CUT ROD




LONGITUDINAL SECTION

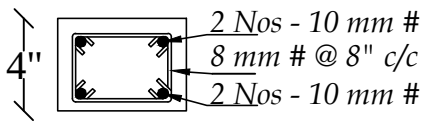
## DEVELOPMENT LENGTH VALUES:

| CONCRETE GRADE | STEEL GRADE | TENSION (EX: BEAM, etc.,) | COMPRESSION (EX: COLUMN, etc.,) |
|---|---|---|---|
| M 20 | Fe 415 | 50 x d | 40 x d |
| M 25 | Fe 415 | 42 x d | 36 x d |
| M 30 | Fe 415 | 40 x d | 34 x d |
| M 20 | Fe 500 | 60 x d | 48 x d |
| M 25 | Fe 500 | 50 x d | 40 x d |
| M 30 | Fe 500 | 48 x d | 38 x d |

(MAXIMUM CEMENT CONTENT SHOULD BE 450 KGS/CU.M)
(SLUMP SHOULD BE 75 TO 100MM)

| GRADE | CEMENT/CUM | WATER CEMENT RATIO | SLUMP |
|---|---|---|---|
| M20 | 375 KGS | 0.55 | 75 MM TO 100 MM |
| M25 | 400 KGS | 0.50 | |
| M30 | 425 KGS | 0.45 | |
| M35 | 425 KGS | 0.45 | |
| M40 | 450 KGS | 0.40 | |

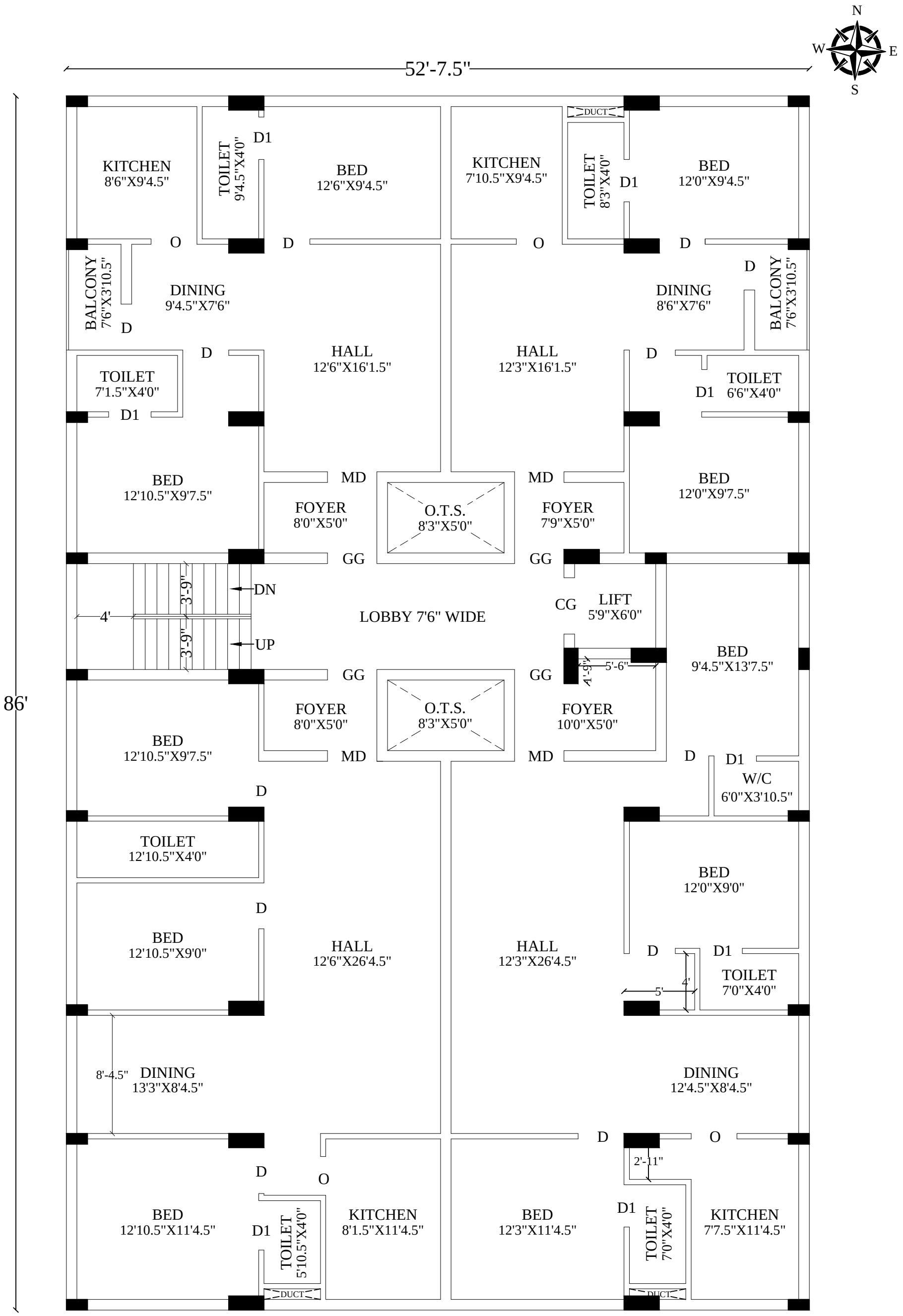
BELT :




NOTE :

1) Basement level belt to be provided if the basement height exceeds 3' height.
2) Belt to be provided @ all doors in basement level with 1'0" bearing in each sides.
3) Sill level belt to be provided for all windows with 1'0"bearing on each sides.

(NOTE:- IF SUPER PLASTICIZER IS USED, THE WATER CONTENT CAN BE REDUCED UPTO 20%)

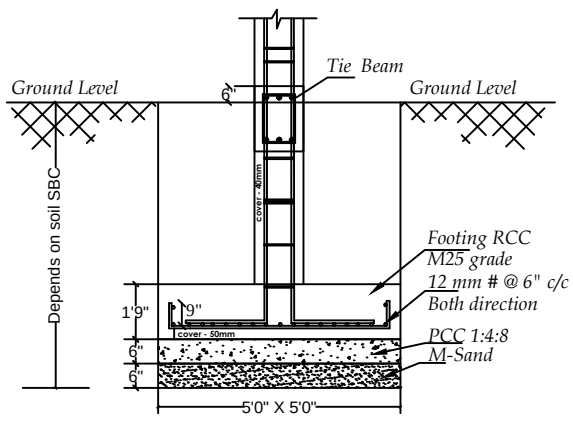



# *TYPICAL FLOOR PLAN*

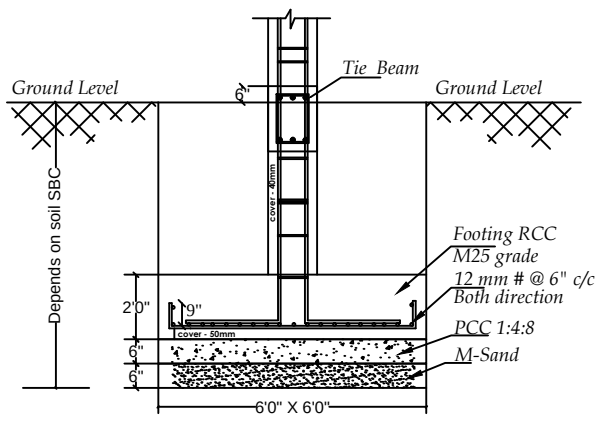
*FIRST, SECOND, THIRD, FOURTH & FIFTH FLOOR PLAN*

## FOOTING CROSS SECTION DETAILS

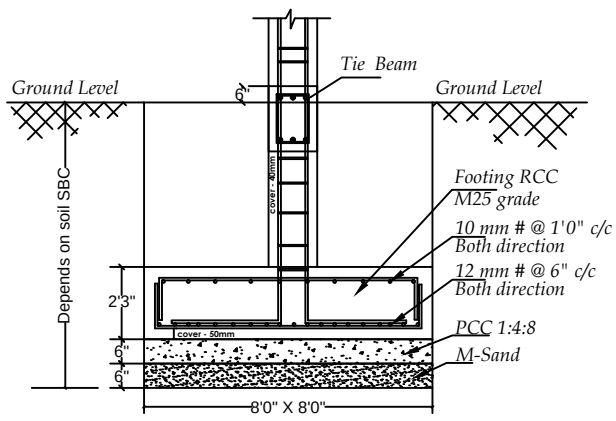
### F1 FOR C1 COLUMN



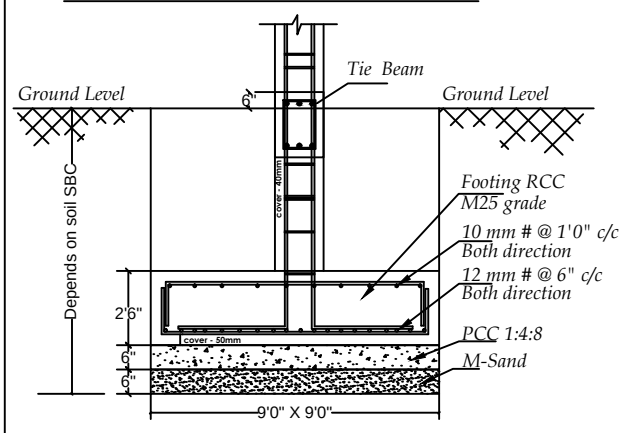

### F2 FOR C2 COLUMN



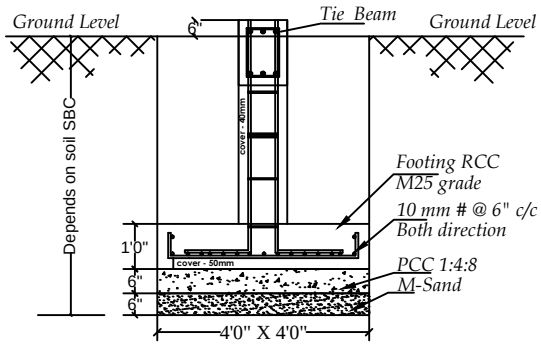

### F3 FOR C3 COLUMN



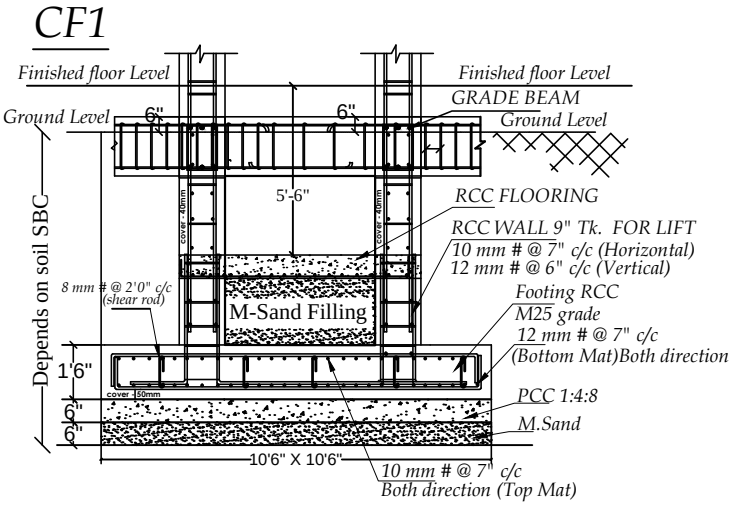

### F4 FOR C4 COLUMN



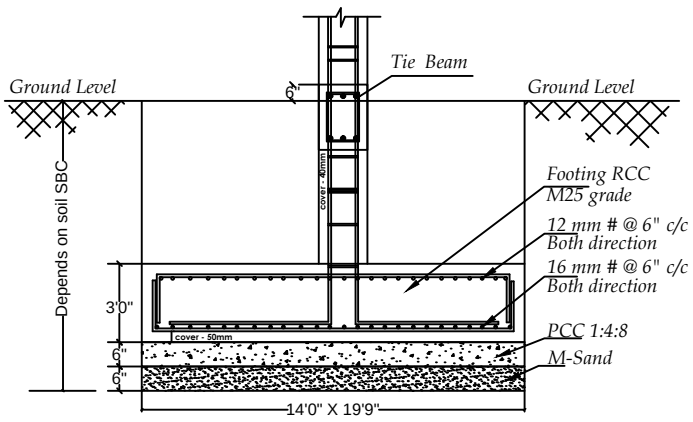

### F5 - STUB COLUMN UPTO GROUND LEVEL




### CF1

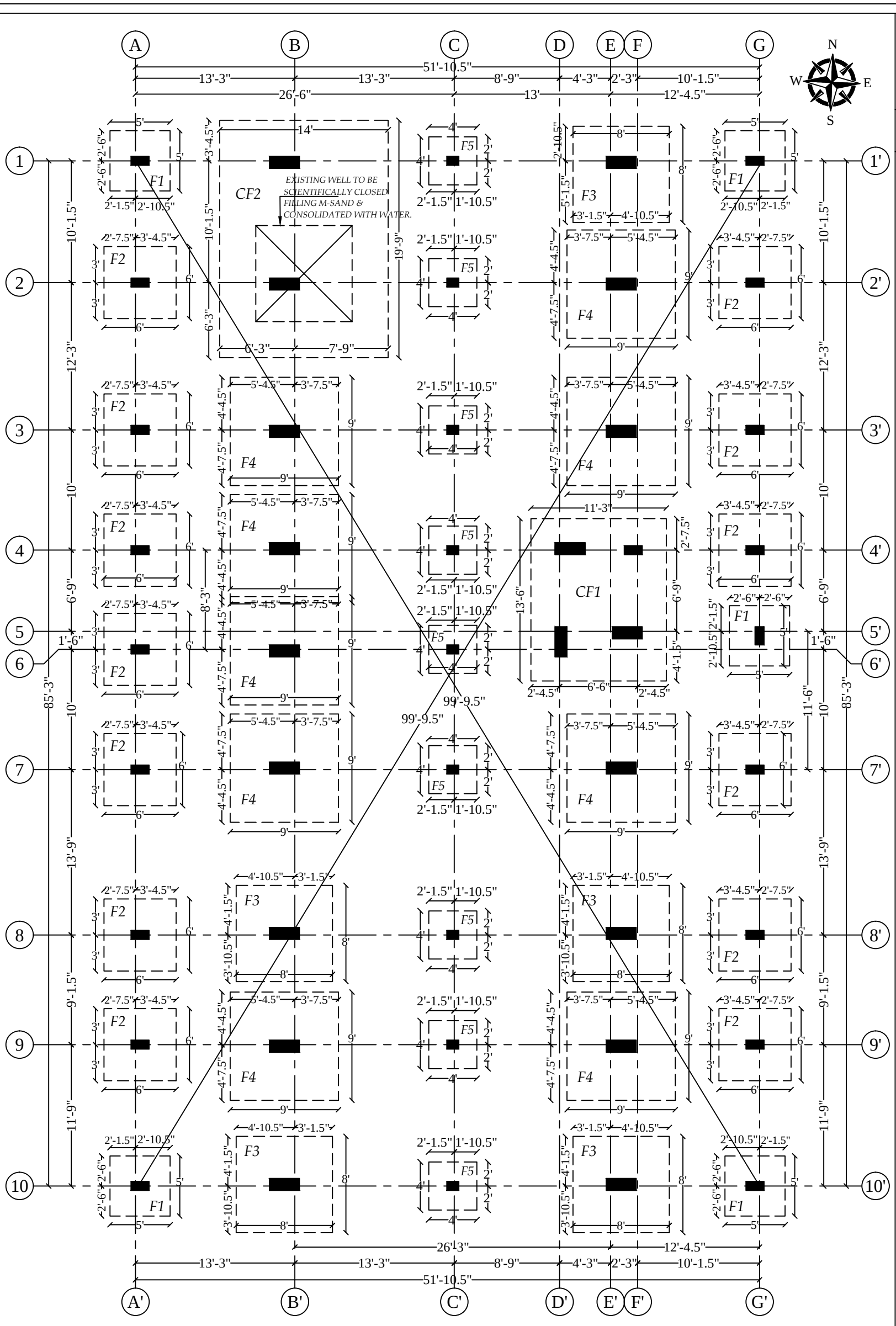



### CF2




*NOTE:*

| | |
|---|---|
| Concrete Grade | = M25 |
| Grade of Steel | = Fe500 |
| Clear Cover for Column | = 40mm |
| Clear Cover for Footing | = 50mm |




*CONSTRUCTION OF RESIDENTIALAPARTMENT BUILDING @ DOOR NO: 21, CRAWFORD, AROKIYASAMY PILLAI STREET, TRICHY.*

*DRAWING TITLE :-*

*FOOTING CENTER LINE MARKING*

## NOTES:

1. ALL DIMENSIONS ARE IN "FEET & INCHES".
2. ALL REINFORCEMENT STEEL SHALL BE HYSD (Fe 500) CONFORMING TO IS:1786–2008
3. GRADE OF CONCRETE SHALL BE M25
   (MAXIMUM CEMENT CONTENT SHOULD BE 450 KGS/CU.M)
   (SLUMP SHOULD BE 75 TO 100MM)

| GRADE | CEMENT/CUM | WATER CEMENT RATIO | SLUMP |
|---|---|---|---|
| M20 | 375 KGS | 0.55 | 75 MM TO 100 MM |
| M25 | 400 KGS | 0.50 | |
| M30 | 425 KGS | 0.45 | |
| M35 | 425 KGS | 0.45 | |
| M40 | 450 KGS | 0.40 | |

( NOTE:– IF SUPER PLASTICIZER IS USED, THE WATER CONTENT CAN BE REDUCED UPTO 20% )

4. CLEAR COVER FOR MAIN REINFORCEMENT
   a) Footing: 50mm, Pile: 50mm, Pile Cap: 75mm, Column: 40mm, Sump: 40mm, Shear wall: 40mm.
   b) Slab: 20mm, Beam: 25mm
5. WATER CEMENT RATIO SHOULD BE 0.55 FOR M20, 0.50 FOR M25, 0.45 FOR M30 & M35 AND 0.40 FOR M40
6. ALL KIND OF SHUTTERING PLANKS SHOULD BE PAINTED WITH GREASE OR CRUDE OIL BEFORE CONCRETING.
7. NO OPENING SHALL BE MADE IN CONCRETE WORKS.
8. VIBRATORS MUST TO BE USED FOR ALL CONCRETING WORKS.
9. MINIMUM 6 NOS. OF CONCRETE CUBE SHALL BE TAKEN ON EACH DAY OF CONCRETE AND IT SHALL BE TESTED IN IN ACCORDNCE WITH THE RECOMMENDATIONS OF IS 456–2000.
10. STABILITY OF THE FORM WORK RESPOMNSIBILITY OF THE CONTRACTOR.
11. BEFORE CONCRETING CHECK AND FINALIZED THE LEVEL OF TOP OF CONCRETE WORK.
12. DO NOT SCALE THE DRAWINGS, WRITTEN DIMENSIONS TO BE FOLLOWED.
13. READ STRUCTURAL DWG IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
14. THE CONSULTANT IS NOT RESPONSIBLE FOR THE FAILURES DUE TO IMPROPER EXECUTION OF WORK AT SITE.
15. POLYTHENE SHEETS 1000 GAUGE TO BE LAID BELOW THE FOUNDATIONS ( AT TOP OF P.C.C )
16. ALL STRUCTURES BELOW THE GROUND LEVEL IN CONTACT SOIL MUST BE PAINTED WITH TWO COATS OF BITUMEN.
17. IS CODE FOR COARSE AGGREGATE – TABLE 2 OF IS 383
    IS CODE FOR FINE AGGREGATE – ZONE 1 OF IS 383
    IS CODE FOR MIX DESIGN – IS 10262 : 1982
    IS CODE FOR WATER – IS 3025 TO BE FOLLOWED.
18. ALL CONSTRUCTION JOINTS CONCRETE TO BE CHIPPED BEFORE NEW CONCRETING.

19. NOTE FOR LAPPING:

I) AT ANY CROSS SECTION NOT MORE THAN 1/3 rd OF THE BARS SHALL BE LAPPED.
II) LAPS SHALL BE STAGGERED WITH A MINIMUM DISTANCE OF 1.30 TIMES OF LAP LENGTH.
III) LAP IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF THE FLOOR AND NOT AT THE SLAB LEVEL.
IV) LAP IN BEAMS & SLABS SHALL BE PROVIDED AT POINT OF CONTRAFLEXUTRE.

20. CURING WORKS:

A) CURING MUST BE STARTED IN 8 HOURS AFTER CONCRETING.
B) WET GUNNY BAGS, JUTE MATING, STRAW ETC., ARE TO BE USED TO COVER THE VERTICAL SURFACE TO KEEP THE COCRETE WET.
C) ALL STRUCTURES SHOULD BE CURED FOR 21 DAYS.

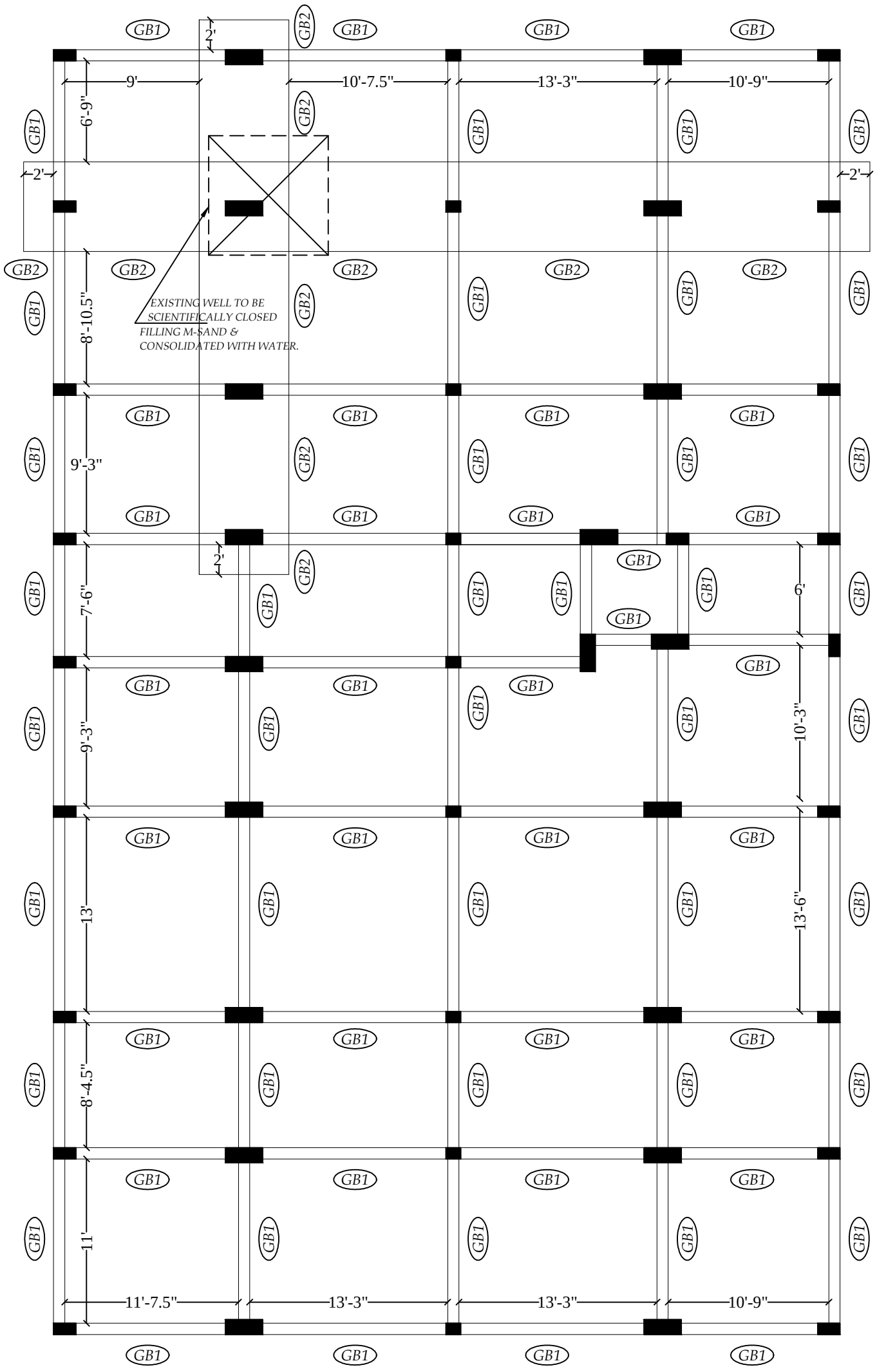
21. TAKE CARE ABOUT THE NEARBY BUILDINGS/WALLS AND SOIL CONDITIONS DURING EARTH WORK EXCAVATION.
22. THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE.
23. STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY IN THE VIOLATION / DEVIATION OF SETBACK & FSI NORMS IN THE TNCDBR 2019 WHATSOEVER FOR THE SAME.
24. THIS BUILDING DESIGNED FOR Stilt + Five Floors (Seismic design as per IS 1893 – 2002) – Zone – II

REMOVAL OF FORM WORKS AFTER CASTING CONCRETE

| | |
|---|---|
| A) FOR COLUMNS & BEAM SIDES | – 24 Hours |
| B) FOR ROOF SLABS BOTTOM | |
| i) CLEAR SPAN LESS THAN 4.5M | – 7 DAYS |
| ii) CLEAR SPAN MORE THAN 4.50M | – 14 DAYS |
| B) FOR ROOF BEAMS BOTTOM | |
| i) CLEAR SPAN LESS THAN 6M | – 14 DAYS |
| ii) CLEAR SPAN MORE THAN 6M | – 21 DAYS |

REMOVAL OF FORM WORKS AFTER CASTING CONCRETE

| | |
|---|---|
| A) FOR COLUMNS & BEAM SIDES | – 24 Hours |
| B) FOR ROOF SLABS BOTTOM | |
| i) CLEAR SPAN LESS THAN 4.5M | – 7 DAYS |
| ii) CLEAR SPAN MORE THAN 4.50M | – 14 DAYS |
| B) FOR ROOF BEAMS BOTTOM | |
| i) CLEAR SPAN LESS THAN 6M | – 14 DAYS |
| ii) CLEAR SPAN MORE THAN 6M | – 21 DAYS |

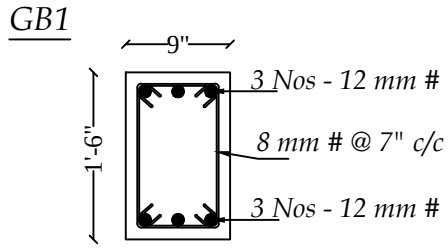



*CONSTRUCTION OF RESIDENTIAL APARTMENT BUILDING @ DOOR NO: 21, CRAWFORD, AROKIYASAMY PILLAI STREET,TRICHY.*

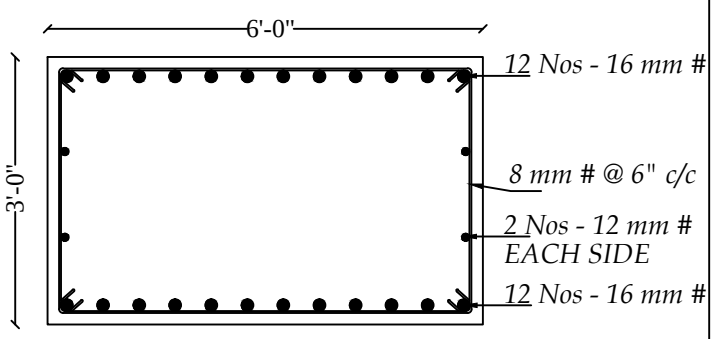
*DRAWING TITLE :-*

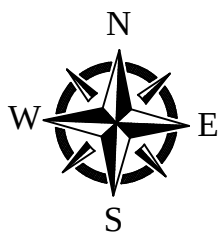
*GRADE BEAM*

*GB1*




*GB2*

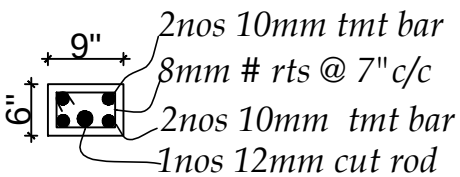
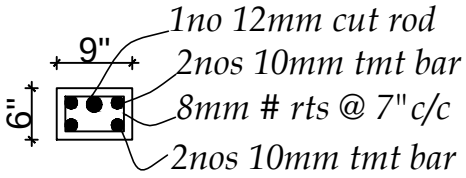
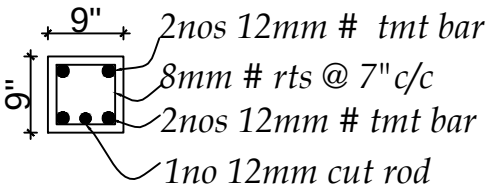
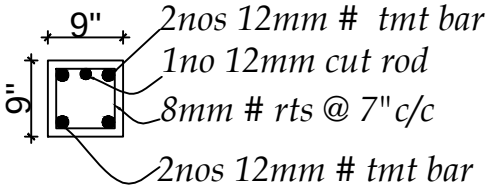
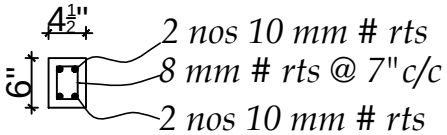
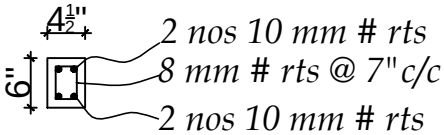
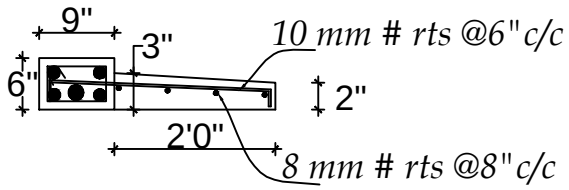



*NOTE:*

| | |
|---|---|
| *Concrete Grade* | *= M25* |
| *Grade of Steel* | *= Fe500* |
| *Clear Cover for Column* | *= 40mm* |
| *Clear Cover for Footing* | *= 50mm* |
| *Clear Cover for Beam* | *= 25mm* |

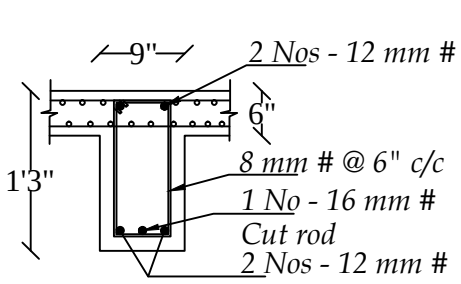
## LINTEL DESIGN

| sl.no | SPAN | MID SECTION | SUPPORT SECTION |
|---|---|---|---|
| L1 | UPTO 5'0" OPEN |  |  |
| L2 | 6'0" - 8'0" OPEN |  |  |
| L3 | UPTO 5'0" OPEN IN 4.5" WALL |  |  |
| | LINTEL CUM SUNSHADE |  | |

## ROOF BEAMS REINFORCEMENT DETAILS

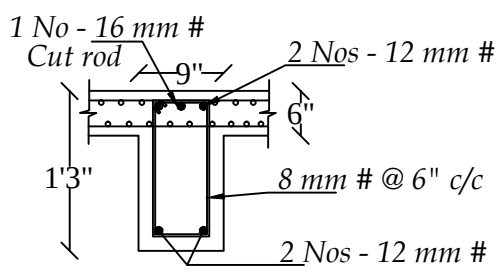
### CROSS SECTION @ MID SPAN

*RB1*



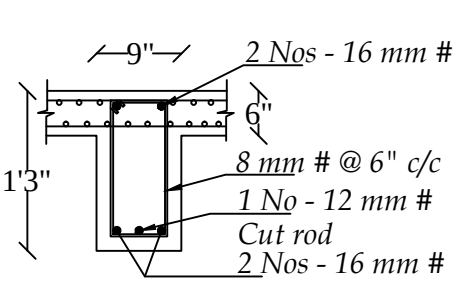

### CROSS SECTION @ SUPPORT

*RB1*



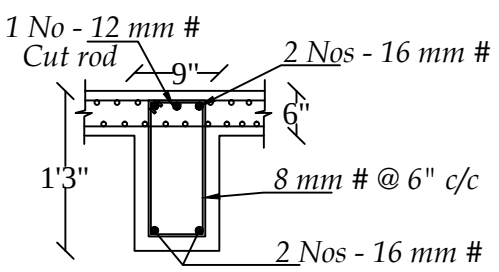

### CROSS SECTION @ MID SPAN

*RB2*



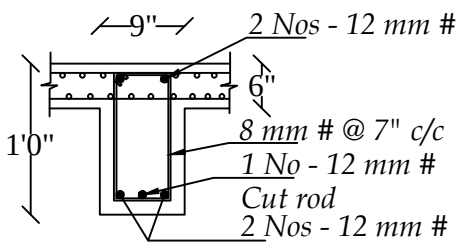

### CROSS SECTION @ SUPPORT

*RB2*



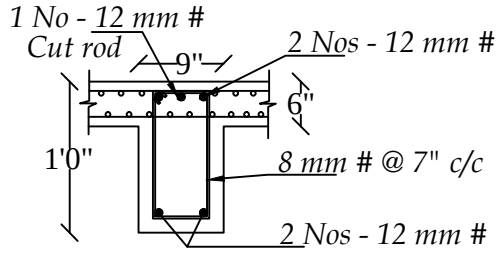

### CROSS SECTION @ MID SPAN

*RB3*



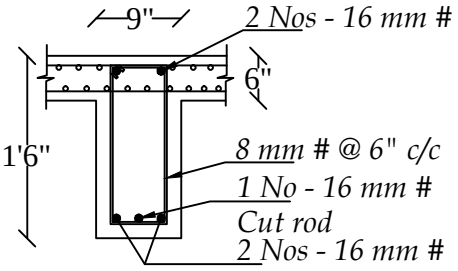

### CROSS SECTION @ SUPPORT

*RB3*



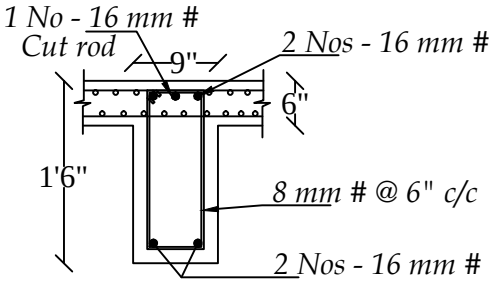

### CROSS SECTION @ MID SPAN

*RB4*



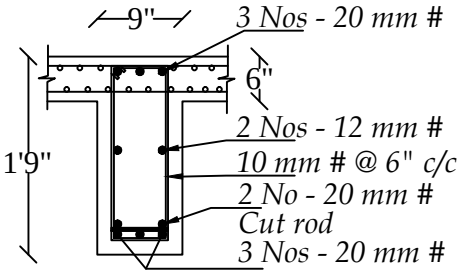

### CROSS SECTION @ SUPPORT

*RB4*



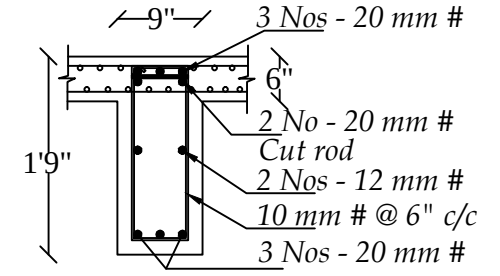

### CROSS SECTION @ MID SPAN

*RB5*



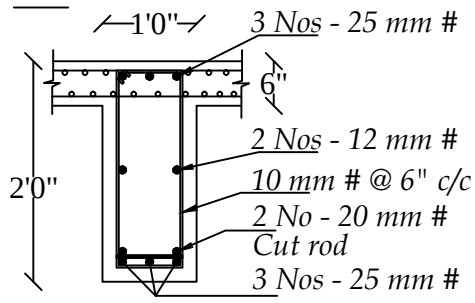

### CROSS SECTION @ SUPPORT

*RB5*



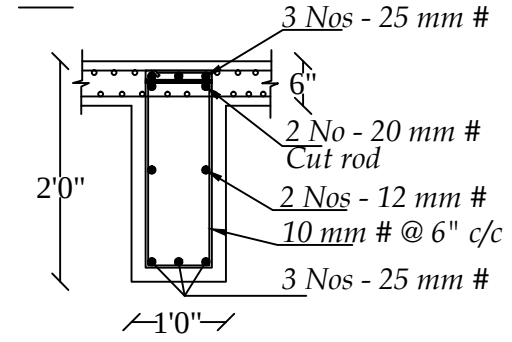

### CROSS SECTION @ MID SPAN

*RB6*



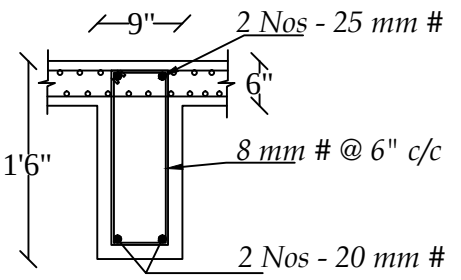

### CROSS SECTION @ SUPPORT

*RB6*



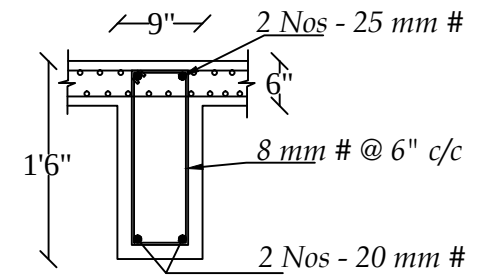

### CROSS SECTION @ MID SPAN

*RB7*




### CROSS SECTION @ SUPPORT

*RB7*

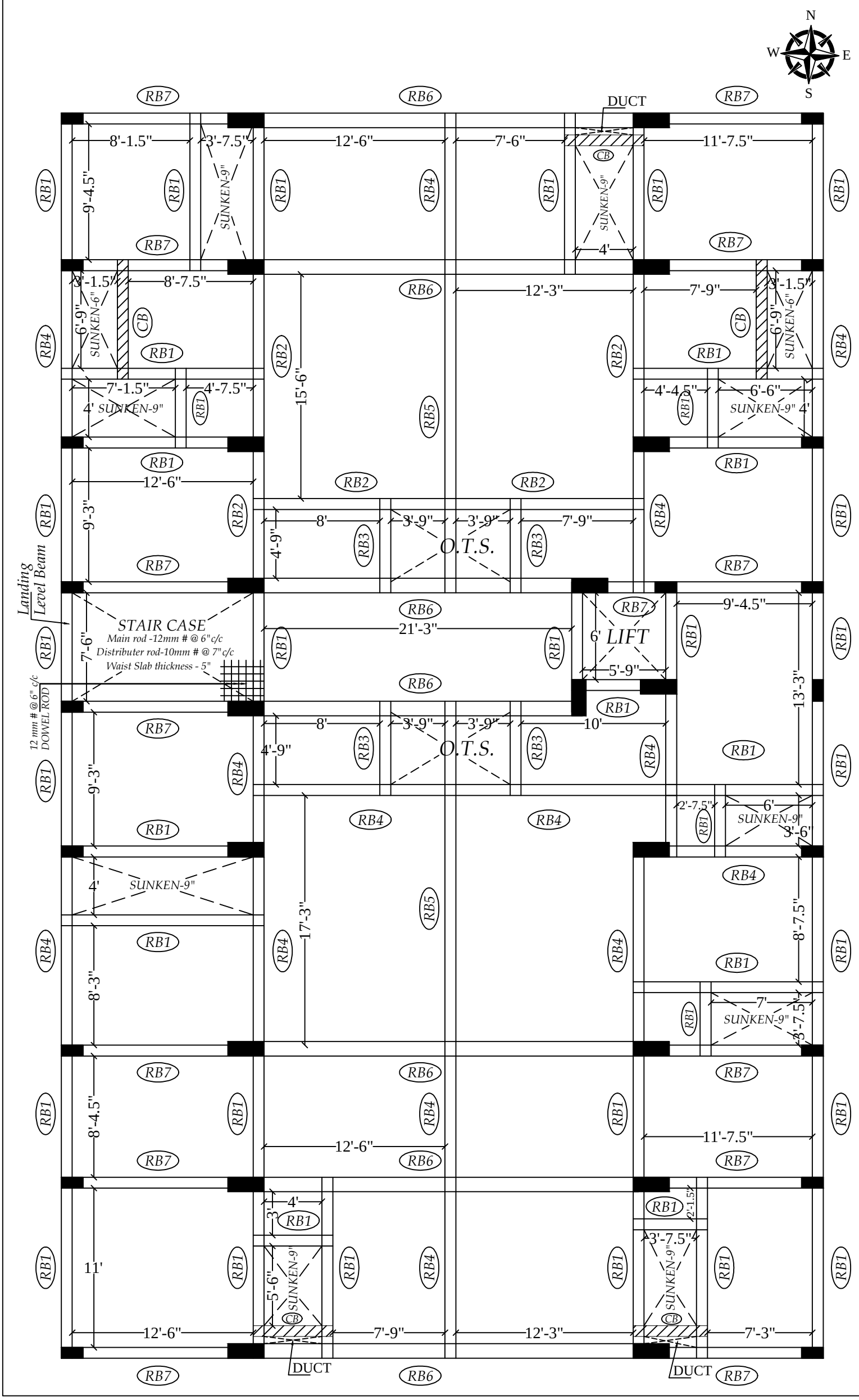



### ROOF SLAB DETAILS:-

| SYMBOL | SLAB THICKNESS | REINFORCEMENT DETAILS |
|---|---|---|
| S1 | 6" | 10 mm # @ 6" c/c (shorter)<br>8 mm # @ 7" c/c (longer) |
| S2 | 6" | 10 mm # @ 6" c/c (shorter)<br>10 mm # @ 7" c/c (longer) |

NOTE: —

| | |
|---|---|
| Concrete Grade | = M25 |
| Grade of Steel | = Fe500 |
| Clear Cover for Beam | = 25mm |
| Clear Cover for Slab | = 20mm |




*CONSTRUCTION OF RESIDENTIALAPARTMENT BUILDING @ DOOR NO: 21, CRAWFORD, AROKIYASAMY PILLAI STREET, TRICHY.*

*DRAWING TITLE :-*

## *ROOF BEAM LAYOUT*

### NOTES:

1. ALL DIMENSIONS ARE IN "FEET & INCHES".
2. ALL REINFORCEMENT STEEL SHALL BE HYSD (Fe 500) CONFORMING TO IS:1786–2008
3. GRADE OF CONCRETE SHALL BE M25
   (MAXIMUM CEMENT CONTENT SHOULD BE 450 KGS/CU.M)
   (SLUMP SHOULD BE 75 TO 100MM)

| GRADE | CEMENT/CUM | WATER CEMENT RATIO | SLUMP |
|---|---|---|---|
| M20 | 375 KGS | 0.55 | 75 MM TO 100 MM |
| M25 | 400 KGS | 0.50 | |
| M30 | 425 KGS | 0.45 | |
| M35 | 425 KGS | 0.45 | |
| M40 | 450 KGS | 0.40 | |

( NOTE:– IF SUPER PLASTICIZER IS USED, THE WATER CONTENT CAN BE REDUCED UPTO 20% )

4. CLEAR COVER FOR MAIN REINFORCEMENT
   a) Footing: 50mm, Pile: 50mm, Pile Cap: 75mm, Column: 40mm, Sump: 40mm, Shear wall: 40mm.
   b) Slab: 20mm, Beam: 25mm
5. WATER CEMENT RATIO SHOULD BE 0.55 FOR M20, 0.50 FOR M25, 0.45 FOR M30 & M35 AND 0.40 FOR M40
6. ALL KIND OF SHUTTERING PLANKS SHOULD BE PAINTED WITH GREASE OR CRUDE OIL BEFORE CONCRETING.
7. NO OPENING SHALL BE MADE IN CONCRETE WORKS.
8. VIBRATORS MUST TO BE USED FOR ALL CONCRETING WORKS.
9. MINIMUM 6 NOS. OF CONCRETE CUBE SHALL BE TAKEN ON EACH DAY OF CONCRETE AND IT SHALL BE TESTED IN IN ACCORDNCE WITH THE RECOMMENDATIONS OF IS 456–2000.
10. STABILITY OF THE FORM WORK RESPOMNSIBILITY OF THE CONTRACTOR.
11. BEFORE CONCRETING CHECK AND FINALIZED THE LEVEL OF TOP OF CONCRETE WORK.
12. DO NOT SCALE THE DRAWINGS, WRITTEN DIMENSIONS TO BE FOLLOWED.
13. READ STRUCTURAL DWG IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
14. THE CONSULTANT IS NOT RESPONSIBLE FOR THE FAILURES DUE TO IMPROPER EXECUTION OF WORK AT SITE.
15. POLYTHENE SHEETS 1000 GAUGE TO BE LAID BELOW THE FOUNDATIONS ( AT TOP OF P.C.C )
16. ALL STRUCTURES BELOW THE GROUND LEVEL IN CONTACT SOIL MUST BE PAINTED WITH TWO COATS OF BITUMEN.
17. IS CODE FOR COARSE AGGREGATE – TABLE 2 OF IS 383
    IS CODE FOR FINE AGGREGATE – ZONE 1 OF IS 383
    IS CODE FOR MIX DESIGN – IS 10262 : 1982
    IS CODE FOR WATER – IS 3025 TO BE FOLLOWED.
18. ALL CONSTRUCTION JOINTS CONCRETE TO BE CHIPPED BEFORE NEW CONCRETING.

19. NOTE FOR LAPPING:

I) AT ANY CROSS SECTION NOT MORE THAN 1/3 rd OF THE BARS SHALL BE LAPPED.
II) LAPS SHALL BE STAGGERED WITH A MINIMUM DISTANCE OF 1.30 TIMES OF LAP LENGTH.
III) LAP IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF THE FLOOR AND NOT AT THE SLAB LEVEL.
IV) LAP IN BEAMS & SLABS SHALL BE PROVIDED AT POINT OF CONTRAFLEXUTRE.

20. CURING WORKS:

A) CURING MUST BE STARTED IN 8 HOURS AFTER CONCRETING.
B) WET GUNNY BAGS, JUTE MATING, STRAW ETC., ARE TO BE USED TO COVER THE VERTICAL SURFACE TO KEEP THE COCRETE WET.
C) ALL STRUCTURES SHOULD BE CURED FOR 21 DAYS.

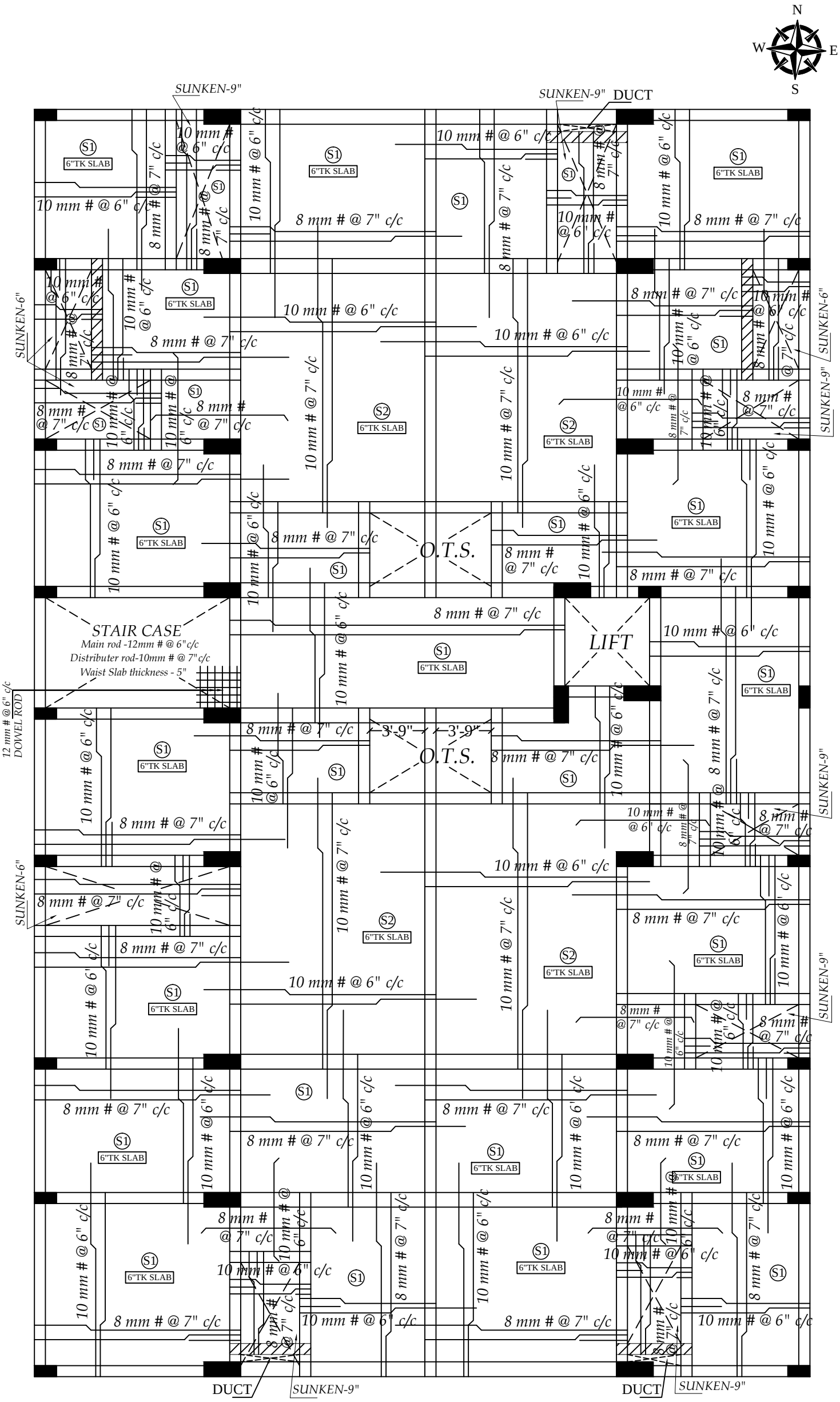
21. TAKE CARE ABOUT THE NEARBY BUILDINGS/WALLS AND SOIL CONDITIONS DURING EARTH WORK EXCAVATION.
22. THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE.
23. STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY IN THE VIOLATION / DEVIATION OF SETBACK & FSI NORMS IN THE TNCDBR 2019 WHATSOEVER FOR THE SAME.
24. THIS BUILDING DESIGNED FOR Stilt + Five Floors (Seismic design as per IS 1893 – 2002) – Zone – II

REMOVAL OF FORM WORKS AFTER CASTING CONCRETE

| | |
|---|---|
| A) FOR COLUMNS & BEAM SIDES | – 24 Hours |
| B) FOR ROOF SLABS BOTTOM | |
| i) CLEAR SPAN LESS THAN 4.5M | – 7 DAYS |
| ii) CLEAR SPAN MORE THAN 4.50M | – 14 DAYS |
| B) FOR ROOF BEAMS BOTTOM | |
| i) CLEAR SPAN LESS THAN 6M | – 14 DAYS |
| ii) CLEAR SPAN MORE THAN 6M | – 21 DAYS |

REMOVAL OF FORM WORKS AFTER CASTING CONCRETE

| | |
|---|---|
| A) FOR COLUMNS & BEAM SIDES | – 24 Hours |
| B) FOR ROOF SLABS BOTTOM | |
| i) CLEAR SPAN LESS THAN 4.5M | – 7 DAYS |
| ii) CLEAR SPAN MORE THAN 4.50M | – 14 DAYS |
| B) FOR ROOF BEAMS BOTTOM | |
| i) CLEAR SPAN LESS THAN 6M | – 14 DAYS |
| ii) CLEAR SPAN MORE THAN 6M | – 21 DAYS |




*CONSTRUCTION OF RESIDENTIALAPARTMENT BUILDING @ DOOR NO: 21, CRAWFORD, AROKIYASAMY PILLAI STREET, TRICHY.*

*DRAWING TITLE :-*

## *ROOF SLAB LAYOUT & REINFORCEMENT DETAILS*

### NOTES:

1. ALL DIMENSIONS ARE IN "FEET & INCHES".
2. ALL REINFORCEMENT STEEL SHALL BE HYSD (Fe 500) CONFORMING TO IS:1786–2008
3. GRADE OF CONCRETE SHALL BE M25
   (MAXIMUM CEMENT CONTENT SHOULD BE 450 KGS/CU.M)
   (SLUMP SHOULD BE 75 TO 100MM)

| GRADE | CEMENT/CUM | WATER CEMENT RATIO | SLUMP |
|---|---|---|---|
| M20 | 375 KGS | 0.55 | 75 MM TO 100 MM |
| M25 | 400 KGS | 0.50 | |
| M30 | 425 KGS | 0.45 | |
| M35 | 425 KGS | 0.45 | |
| M40 | 450 KGS | 0.40 | |

   ( NOTE:– IF SUPER PLASTICIZER IS USED, THE WATER CONTENT CAN BE REDUCED UPTO 20% )
4. CLEAR COVER FOR MAIN REINFORCEMENT
   a) Footing: 50mm, Pile: 50mm, Pile Cap: 75mm, Column: 40mm, Sump: 40mm, Shear wall: 40mm.
   b) Slab: 20mm, Beam: 25mm
5. WATER CEMENT RATIO SHOULD BE 0.55 FOR M20, 0.50 FOR M25, 0.45 FOR M30 & M35 AND 0.40 FOR M40
6. ALL KIND OF SHUTTERING PLANKS SHOULD BE PAINTED WITH GREASE OR CRUDE OIL BEFORE CONCRETING.
7. NO OPENING SHALL BE MADE IN CONCRETE WORKS.
8. VIBRATORS MUST TO BE USED FOR ALL CONCRETING WORKS.
9. MINIMUM 6 NOS. OF CONCRETE CUBE SHALL BE TAKEN ON EACH DAY OF CONCRETE AND IT SHALL BE TESTED IN IN ACCORDNCE WITH THE RECOMMENDATIONS OF IS 456–2000.
10. STABILITY OF THE FORM WORK RESPOMNSIBILITY OF THE CONTRACTOR.
11. BEFORE CONCRETING CHECK AND FINALIZED THE LEVEL OF TOP OF CONCRETE WORK.
12. DO NOT SCALE THE DRAWINGS, WRITTEN DIMENSIONS TO BE FOLLOWED.
13. READ STRUCTURAL DWG IN CONJUNCTION WITH ARCHITECTURAL DRAWINGS.
14. THE CONSULTANT IS NOT RESPONSIBLE FOR THE FAILURES DUE TO IMPROPER EXECUTION OF WORK AT SITE.
15. POLYTHENE SHEETS 1000 GAUGE TO BE LAID BELOW THE FOUNDATIONS ( AT TOP OF P.C.C )
16. ALL STRUCTURES BELOW THE GROUND LEVEL IN CONTACT SOIL MUST BE PAINTED WITH TWO COATS OF BITUMEN.
17. IS CODE FOR COARSE AGGREGATE – TABLE 2 OF IS 383
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    IS CODE FOR MIX DESIGN – IS 10262 : 1982
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18. ALL CONSTRUCTION JOINTS CONCRETE TO BE CHIPPED BEFORE NEW CONCRETING.

19. NOTE FOR LAPPING:

I) AT ANY CROSS SECTION NOT MORE THAN 1/3 rd OF THE BARS SHALL BE LAPPED.

II) LAPS SHALL BE STAGGERED WITH A MINIMUM DISTANCE OF 1.30 TIMES OF LAP LENGTH.

III) LAP IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF THE FLOOR AND NOT AT THE SLAB LEVEL.

IV) LAP IN BEAMS & SLABS SHALL BE PROVIDED AT POINT OF CONTRAFLEXUTRE.

20. CURING WORKS:

A) CURING MUST BE STARTED IN 8 HOURS AFTER CONCRETING.

B) WET GUNNY BAGS, JUTE MATING, STRAW ETC., ARE TO BE USED TO COVER THE VERTICAL SURFACE TO KEEP THE COCRETE WET.

C) ALL STRUCTURES SHOULD BE CURED FOR 21 DAYS.

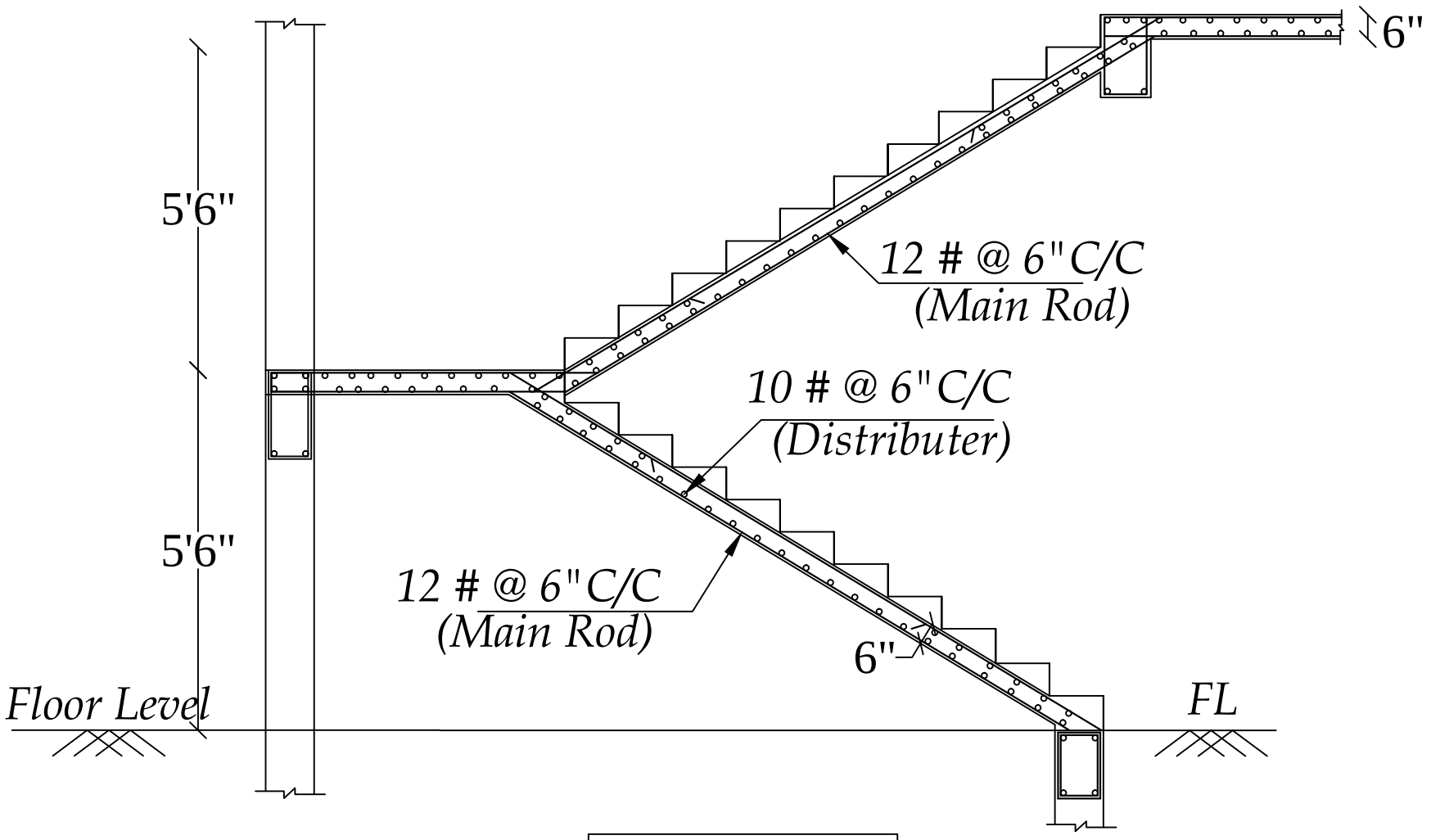
21. TAKE CARE ABOUT THE NEARBY BUILDINGS/WALLS AND SOIL CONDITIONS DURING EARTH WORK EXCAVATION.
22. THIS DRAWING IS VALID ONLY IF CONSULTANT CHECK AT SITE.
23. STRUCTURAL ENGINEER TAKES NO RESPONSIBILITY IN THE VIOLATION / DEVIATION OF SETBACK & FSI NORMS IN THE TNCDBR 2019 WHATSOEVER FOR THE SAME.
24. THIS BUILDING DESIGNED FOR Stilt + Five Floors (Seismic design as per IS 1893 – 2002) – Zone – II

REMOVAL OF FORM WORKS AFTER CASTING CONCRETE

| | | |
|---|---|---|
| A) FOR COLUMNS & BEAM SIDES | – | 24 Hours |
| B) FOR ROOF SLABS BOTTOM | | |
| i) CLEAR SPAN LESS THAN 4.5M | – | 7 DAYS |
| ii) CLEAR SPAN MORE THAN 4.50M | – | 14 DAYS |
| B) FOR ROOF BEAMS BOTTOM | | |
| i) CLEAR SPAN LESS THAN 6M | – | 14 DAYS |
| ii) CLEAR SPAN MORE THAN 6M | – | 21 DAYS |

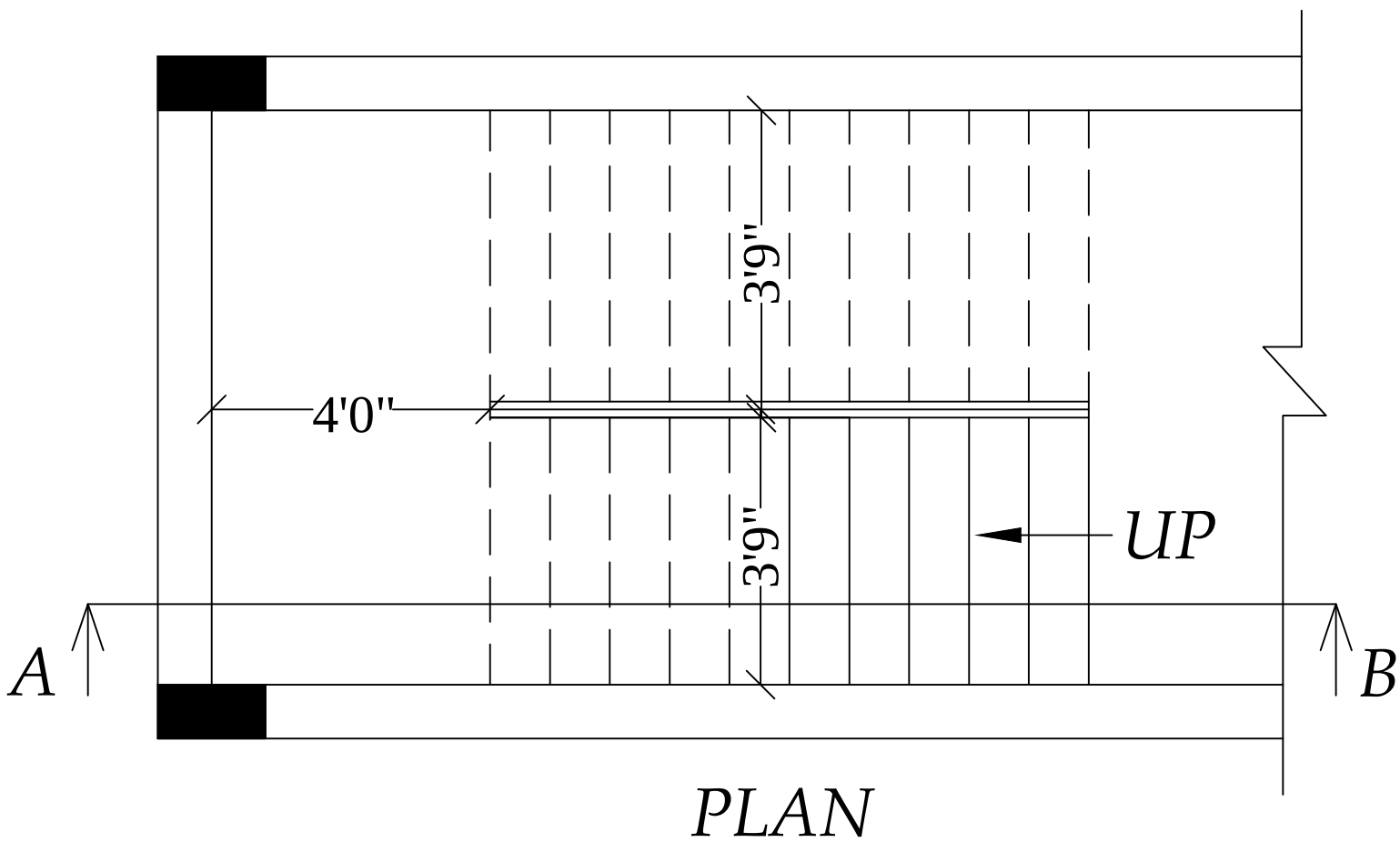
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| | | |
|---|---|---|
| A) FOR COLUMNS & BEAM SIDES | – | 24 Hours |
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| i) CLEAR SPAN LESS THAN 6M | – | 14 DAYS |
| ii) CLEAR SPAN MORE THAN 6M | – | 21 DAYS |



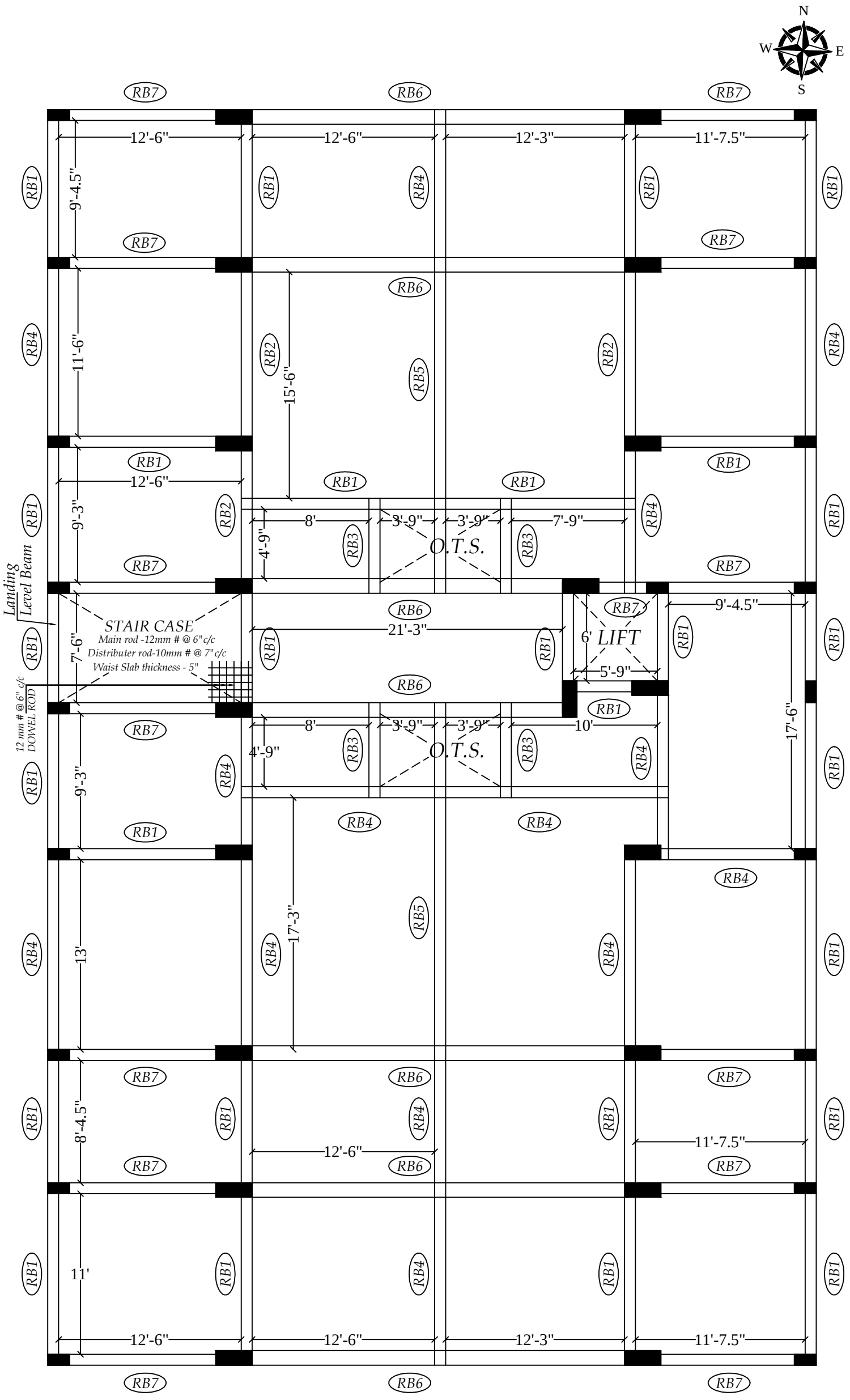

Tread =10"
Rise = 6"
Waist Slab = 6"

## SECTION ON AB




## PLAN

## STAIRCASE DETAILS




*CONSTRUCTION OF RESIDENTIALAPARTMENT BUILDING @ DOOR NO: 21, CRAWFORD, AROKIYASAMY PILLAI STREET, TRICHY.*

*DRAWING TITLE :-*

## *TERRACE FLOOR BEAM LAYOUT*

### NOTES:

1. ALL DIMENSIONS ARE IN "FEET & INCHES".
2. ALL REINFORCEMENT STEEL SHALL BE HYSD (Fe 500) CONFORMING TO IS:1786–2008
3. GRADE OF CONCRETE SHALL BE M25
   (MAXIMUM CEMENT CONTENT SHOULD BE 450 KGS/CU.M)
   (SLUMP SHOULD BE 75 TO 100MM)

| GRADE | CEMENT/CUM | WATER CEMENT RATIO | SLUMP |
|---|---|---|---|
| M20 | 375 KGS | 0.55 | 75 MM TO 100 MM |
| M25 | 400 KGS | 0.50 | |
| M30 | 425 KGS | 0.45 | |
| M35 | 425 KGS | 0.45 | |
| M40 | 450 KGS | 0.40 | |

( NOTE:– IF SUPER PLASTICIZER IS USED, THE WATER CONTENT CAN BE REDUCED UPTO 20% )

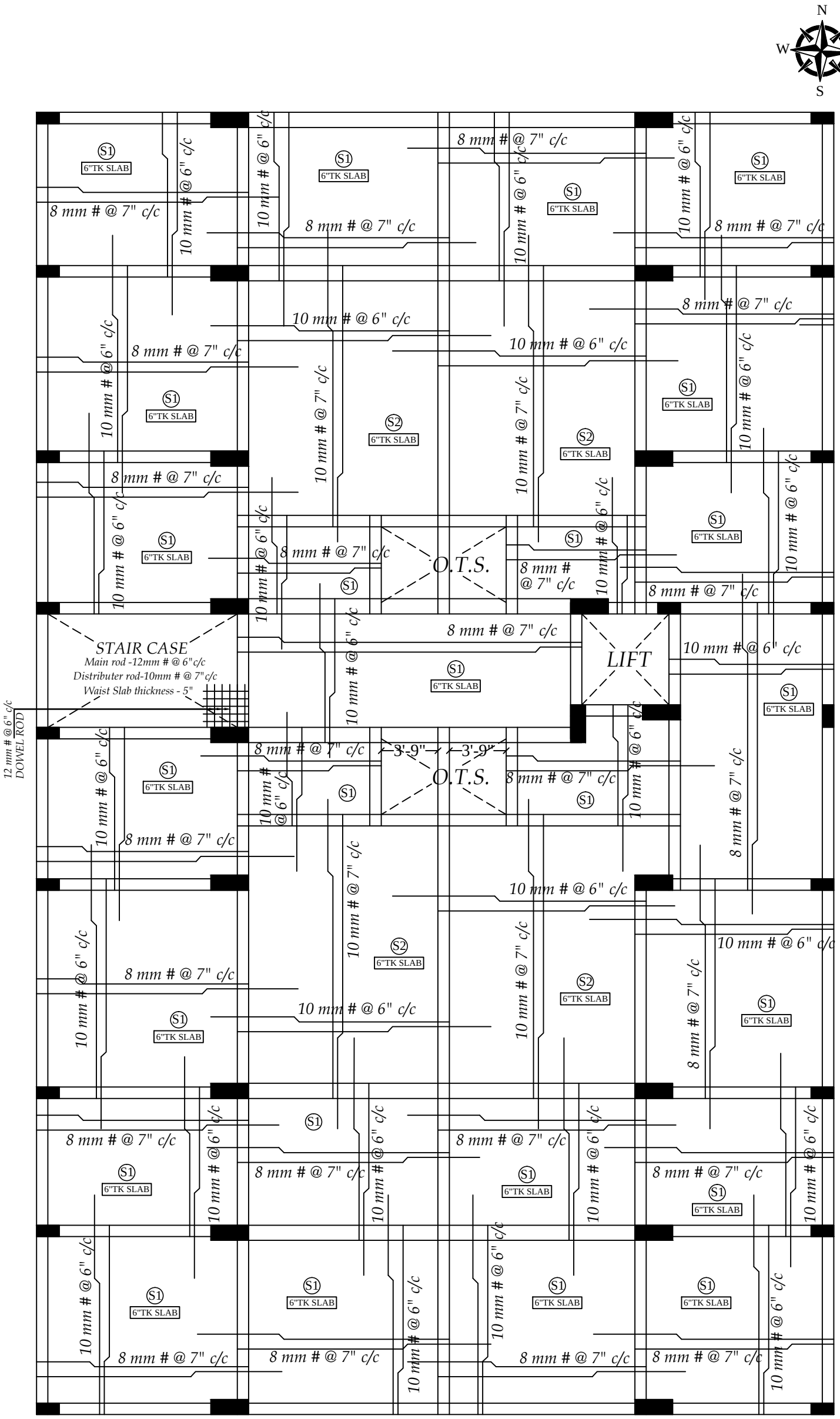
4. CLEAR COVER FOR MAIN REINFORCEMENT
   a) Footing: 50mm, Pile: 50mm, Pile Cap: 75mm, Column: 40mm, Sump: 40mm, Shear wall: 40mm.
   b) Slab: 20mm, Beam: 25mm
5. WATER CEMENT RATIO SHOULD BE 0.55 FOR M20, 0.50 FOR M25, 0.45 FOR M30 & M35 AND 0.40 FOR M40
6. ALL KIND OF SHUTTERING PLANKS SHOULD BE PAINTED WITH GREASE OR CRUDE OIL BEFORE CONCRETING.
7. NO OPENING SHALL BE MADE IN CONCRETE WORKS.
8. VIBRATORS MUST TO BE USED FOR ALL CONCRETING WORKS.
9. MINIMUM 6 NOS. OF CONCRETE CUBE SHALL BE TAKEN ON EACH DAY OF CONCRETE AND IT SHALL BE TESTED IN IN ACCORDNCE WITH THE RECOMMENDATIONS OF IS 456–2000.
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19. NOTE FOR LAPPING:
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    III) LAP IN COLUMNS SHALL BE PROVIDED AT MID HEIGHT OF THE FLOOR AND NOT AT THE SLAB LEVEL.
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20. CURING WORKS:
    A) CURING MUST BE STARTED IN 8 HOURS AFTER CONCRETING.
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21. TAKE CARE ABOUT THE NEARBY BUILDINGS/WALLS AND SOIL CONDITIONS DURING EARTH WORK EXCAVATION.
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24. THIS BUILDING DESIGNED FOR Stilt + Five Floors (Seismic design as per IS 1893 – 2002) – Zone – II

REMOVAL OF FORM WORKS AFTER CASTING CONCRETE

A) FOR COLUMNS & BEAM SIDES – 24 Hours
B) FOR ROOF SLABS BOTTOM
   i) CLEAR SPAN LESS THAN 4.5M – 7 DAYS
   ii) CLEAR SPAN MORE THAN 4.50M – 14 DAYS
B) FOR ROOF BEAMS BOTTOM
   i) CLEAR SPAN LESS THAN 6M – 14 DAYS
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REMOVAL OF FORM WORKS AFTER CASTING CONCRETE

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*CONSTRUCTION OF RESIDENTIALAPARTMENT BUILDING @ DOOR NO: 21, CRAWFORD, AROKIYASAMY PILLAI STREET, TRICHY.*

*DRAWING TITLE :-*

## *TERRACE FLOOR SLAB LAYOUT & REINFORCEMENT DETAILS*

### NOTES:

1. ALL DIMENSIONS ARE IN "FEET & INCHES".
2. ALL REINFORCEMENT STEEL SHALL BE HYSD (Fe 500) CONFORMING TO IS:1786–2008
3. GRADE OF CONCRETE SHALL BE M25
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| M40 | 450 KGS | 0.40 | |

( NOTE:– IF SUPER PLASTICIZER IS USED, THE WATER CONTENT CAN BE REDUCED UPTO 20% )

4. CLEAR COVER FOR MAIN REINFORCEMENT
   a) Footing: 50mm, Pile: 50mm, Pile Cap: 75mm, Column: 40mm, Sump: 40mm, Shear wall: 40mm.
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5. WATER CEMENT RATIO SHOULD BE 0.55 FOR M20, 0.50 FOR M25, 0.45 FOR M30 & M35 AND 0.40 FOR M40
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24. THIS BUILDING DESIGNED FOR Stilt + Five Floors (Seismic design as per IS 1893 – 2002) – Zone – II

REMOVAL OF FORM WORKS AFTER CASTING CONCRETE

| | | |
|---|---|---|
| A) FOR COLUMNS & BEAM SIDES | – | 24 Hours |
| B) FOR ROOF SLABS BOTTOM | | |
| i) CLEAR SPAN LESS THAN 4.5M | – | 7 DAYS |
| ii) CLEAR SPAN MORE THAN 4.50M | – | 14 DAYS |
| B) FOR ROOF BEAMS BOTTOM | | |
| i) CLEAR SPAN LESS THAN 6M | – | 14 DAYS |
| ii) CLEAR SPAN MORE THAN 6M | – | 21 DAYS |

REMOVAL OF FORM WORKS AFTER CASTING CONCRETE

| | | |
|---|---|---|
| A) FOR COLUMNS & BEAM SIDES | – | 24 Hours |
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| ii) CLEAR SPAN MORE THAN 4.50M | – | 14 DAYS |
| B) FOR ROOF BEAMS BOTTOM | | |
| i) CLEAR SPAN LESS THAN 6M | – | 14 DAYS |



## 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

Verified RealEstate™

We're honored to be part of your real estate journey

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