

STANDARD NOTES -1

1. THE STRUCTURE DESIGNED FOR GROUND + FIRST FLOOR + ROOF ONLY
2. BRITISH STANDARD CODE OF PRACTICE CPS–BS.8110 TO BE FOLLOWED UNLESS OTHERWISE STATED.
3. FOOTINGS HAVE BEEN USED AS PER THE SUBMITTED SOIL REPORT SEE FOUNDATION SHEET FOR MORE DETAILS
4. THE REINFORCEMENT USED FOR R.C WORK SHALL BE AS FOLLOWS :

A \* MARKED AS "T" HIGH YIELD STRENGTH DEFORMED BARS WITH MIN.YIELD STRENGTH OF 460 N/sq.mm  
"Y" PLAIN ROUND MILD STEEL BARS WITH MIN. YEILD STRENGTH OF 420 N/sq.mm

B \* MIN.LAP LENGTH FOR BARS 60 DIA OF SMALLEST BAR UNLESS OTHERWISE NOTED.

C \* MIN LAP LENGTH FOR COLUMNS BARS 60 DIA.

D \* EXTRA TOP BARS IN THE BEAMS AND SLABS SHALL EXTEND BY 0.25 SPAN IF NOT SHOWED IN DROWING.

E \* TENSION REINFORCEMENT PROVIDED AT MID SPAN SHOULD EXTEND IN THE LOWER PART OF THE SLAB TO WITH IN 0.20 L OF CONTINEUOS EDGE OR 0.1L OF DISCONTINEUOS EDGE.

F \* IN SIMPLY SUPPORTED BEAMS STRAIGHT BARS PROVIDED IN THE BOTTOM OF THE BEAMS SHOULD HAVE AN EFFECTIVE ANCHORAGE OF 12 DIA, FROM THE CENTER OF THE SUPPORTS THE CUT BAR SHOULD EXTEND WITHIN 0.08L OF THE SUPPORT.

G \* IN CANTILEVER BEAMS STRAIGHT BARS PROVIDED AT SUPPORT SHOULD EXTEND TO THE FREE END OF THE CANTILEVER EXTRA OVER SUPPORT BARS SHOULD EXTEND ADISTANCE OF 1.5L .

H \* IN CONTINUOUS BEAMS EXTRA OVER SUPPORT REINFORCEMENT SHOULD EXTEND TO THE POINT NOT LESS THAN 0.25L FROM THE SUPPORT IN CASE OF CONTINEOUS SUPPORTS

I \* STRAIGHT BARS IN THE BOTTOM OF THE BEAMS SHOULD EXTEND TO SUPPORTS, OUT BARS AT BOTTOM SHOULD EXTEND WITH IN 0.15L OF INTERIOR SUPPORTS AND 0.1L OF EXTERIOR SUPPORTS  
THAN 0.06% AND IN COURSE AGGREGATE NOT MORE THAN

5. THE CONCRETE MIX USED FOR RC WORK SHALL BE AS FOLLOWS. FOR ALL SUB STRUCTURE WTH MIN.SR CEMENT 400kg/cubic mtr. FOR SUPER STRUCTURE WITH MIN.OF CEMENT 400kg/cubic mtr. CHARACTERSTIC STRENGTH OF CONCRETE AT 28 DAYS 350kg/cm

STANDARD NOTES -2

6. SULPHATE RESISTING CEMENT SHALL BE USED BELOW PLINTH LEVEL IN ALL STRUCTURE CONFIRMING TO B.S.S.NO.4027

7. CEMENT TO BE USED FOR ALL WORKS ABOVE PLINTH LEVEL SHALL BE OF ORDINARY PORTLAND CEMENT CONFIRMING TO B.S.S.NO.:12

8. THE CLEAR COVER TO THE MAIN REINFORCEMENT SHALL BE AS FOLLOWS:  
ISOLATED AND COMBINED FOOTINGS ARE 50mm, COLUMNS IN SUB-STR. 50mm , TIE BEAM 30mm,COLUMNS IN SUPER. 40mm, BEAMS 25mm OR DIA OF MAIN REINFO-RCEMENT WHICHEVER IS GREATER SLABS 20mm.

9. UNLESS OTHERWISE INDICATED IN THE DRAWING THE PILE CAPS ARE CONCENTRIC WITH THE COLUMNS.

10. 200mm THICK SOLID BLOCK MASONRY SHALL BE PROVIDED ON EXTERNAL PERIPHERY OF THE BUILDING FROM FOOTING LEVEL TO TIE BEAM BOTTOM.

11. ALL THE UNDERGROUND CONCRETE WORK/BLOCK WORK SHALL BE APPLIED WITH TWO COATS OF HOT BITUMEN.

12. WATER TABLE IS ASSUMED BELOW FOUNDATION LEVEL.

13. ALL NON LOAD BEARING BLOCKS USED FOR MASONRY WORK SHALL HAVE MIN.CRUSHING STRENGTH OF 7.5 N/mm2 AND THAT FOR LOAD BEARING BLOCKS IT SHALL BE 12.5 N/mm2 BLOCK TO BE FROM APPROVED AUTOMATIC

14. THE CONTRACTOR SHALL BE RESPANSIBLE FOR PROPER SETTING OUT WORKS FOR CORRECTNESS OF POSITION, LEVELS AND ALIGNMENTS OF ALL PARTS OF THE WORK FOR QUALITY AND FINAL FINISHES IF AT ANY TIME DURING THE PROGRESS OF WORKS.  
ANY ERROR IS DETECTED AT ANY PART. THE CONTRACTOR SHALL RECTIFY THE SAME AT HIS OWN EXPENSES. THE CHECKING/APPROVAL BY THE CONSULTANT SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM HIS RESPANSIBILITY FOR THE CORRECTNESS OF ABOVE.

15. MIN.3'-0" DEPTH TO BE MAINTAINED FROM GROUND LEVEL TO TOP OF FOOTINGS ON ROAD & SIKKA SIDE.

16. THE SULPHATE CONTENTS IN COURSE & FINE AGGREGATE NOT TO EXCEED 0.4% AND TOTAL SULPHATE IN CONCRETE MIX INCLUDING SULPHATE IN CEMENT NOT TO EXCEED 4% BY WEIGHT OF CONCRETE.

17. THE CHLORIDES CONTENTS IN FINE AGGREGATE NOT MORE 0.03% TOTAL CHLORIDES CONTENTS IN CONCRETE MIX. NOT TO EXCEED 0.15% BY WEIGHT OF CEMENT.

STANDARD NOTES -3

18. WATER TANK DESIGNED TO COMPLY WITH B.S.5337 AND

19. 100 GUAGE POLYTHENE SHEET SHALL BE PROVIDED BELOW OF CONCRETE AND STEEL PRIOR TO EXECUTION OR DURING THE PROGRESS OF WORK IF REQUIRED BY THE CONSULTANT CONTRACTOR SHALL TEST THE CONCRETE AND STEEL WITHOUT ANY EXTRA COST.

20. LINTEL TO BE ADDED FOR WALLS AT A HEIGHT EQUAL TO DOOR HEIGHT 20x20cm. WITH 2Y12 UP & DOWN STEEL WHEREVER THE ALL AREA 14sq.Mtr.

21. IN CASE OF DISCRIPANCIES IN DETAILS OR MISSING DETAIL THE CONSULTANT MUST BE APPROACHED FOR DECISION PRIOR TO TAKING OF RELATED WORK. CONSULTANTS DECISION IN SUCH MATTER SHALL BE FINAL WITHOUT ANY EXTRA CLAIMS.

22. ALL THE CEMENT BLOCKS WHICH USE AT THIS BUILDING MUST FOLLOW TO SPECIFICATIONS WHICH MENTIONED IN LOCAL ORDER NO.44/1991 AND ALSO COMES BEFORE IN ORDER NO.106/90 AND ITS MENTIONED IN DETAILS IN LOCAL ORDER NO.171/90 AND ALSO THE LABORATORIES RESULTS FOR THIS BLOCKS MUST BE APPROVED FROM BUILDING RESEARCH AND QUALITY CONTROL SECTION AT SHARJAH MUNICIPALITY.

23. MIN.SIX NUMBERS OF CONCRETE CUBES SHALL BE TAKEN FROM EACH DAYS CONCRETING OR EACH 100m CONCRETE AS DECIDED BY THE CONSULTANTS. THESE CUBES SHALL BE TESTED IN LABORATORY APPROVED BY THE CONSULTANTS. CUBE RESULT MUST BE SUBMITTED TO THE CONSULTANT IMMEDIATELY AFTER TESTING.

24. LOADS ARE ASSUMED AS FOLLOWS:

L.L = 200 Kg/m2.FOR ALL FLOORS  
L.L = 300 Kg/m2.FOR STAIRS  
F.L = 200 Kg/m2. FOR ALL FLOORS  
F.L = 300 Kg/m2. FOR ROOF  
WEIGHT OF PARTITIONS OF 20 Cm. THICK = 350 Kg /m2  
WEIGHT OF PARTITIONS OF 15 Cm. THICK = 275 Kg /m2  
WEIGHT OF PARTITIONS OF 10 Cm. THICK = 230 Kg /m2  
WEIGHT OF HOLLOW BLOCKS USED FOR SLABS = 1150 Kg /m3

25. CHARACTERSTIC STRENGTH OF CONCRETE FOR COLUMNS AT 28 DAYS 400kg/cm

26. CHARACTERSTIC STRENGTH OF CONCRETE FOR FOOTINGS AT 28 DAYS 400kg/cm

27. THE NET BEARING CAPACITY AT THE PROPOSED FOUNDATION LEVEL IS 1.40kg/cm2

NOTE:-

CLIENT:

DISTRICT ONE-FZ

CONSULTANT :



PROJECT:

PROPOSED VILLA ( B+G +1+R)

LOCATION:

AL MERKADH

PLOT NO.

470861

DRAWING TITLE:

STRUCTURAL NOTES

JOB NO.

DATE:

06/11/2024

SHEET NO.

Sheet Size:

Scale:

A2

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REG. NO.

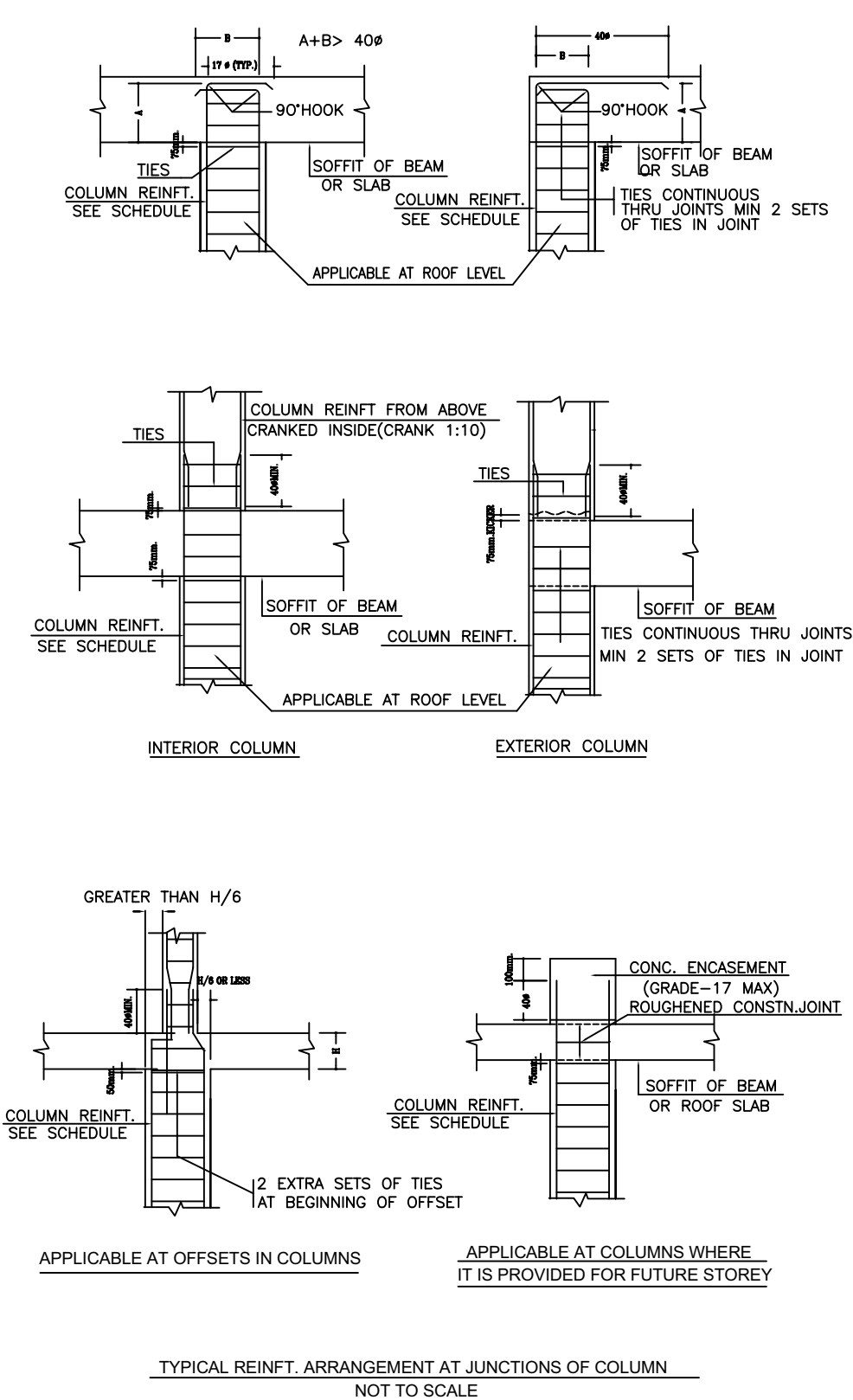
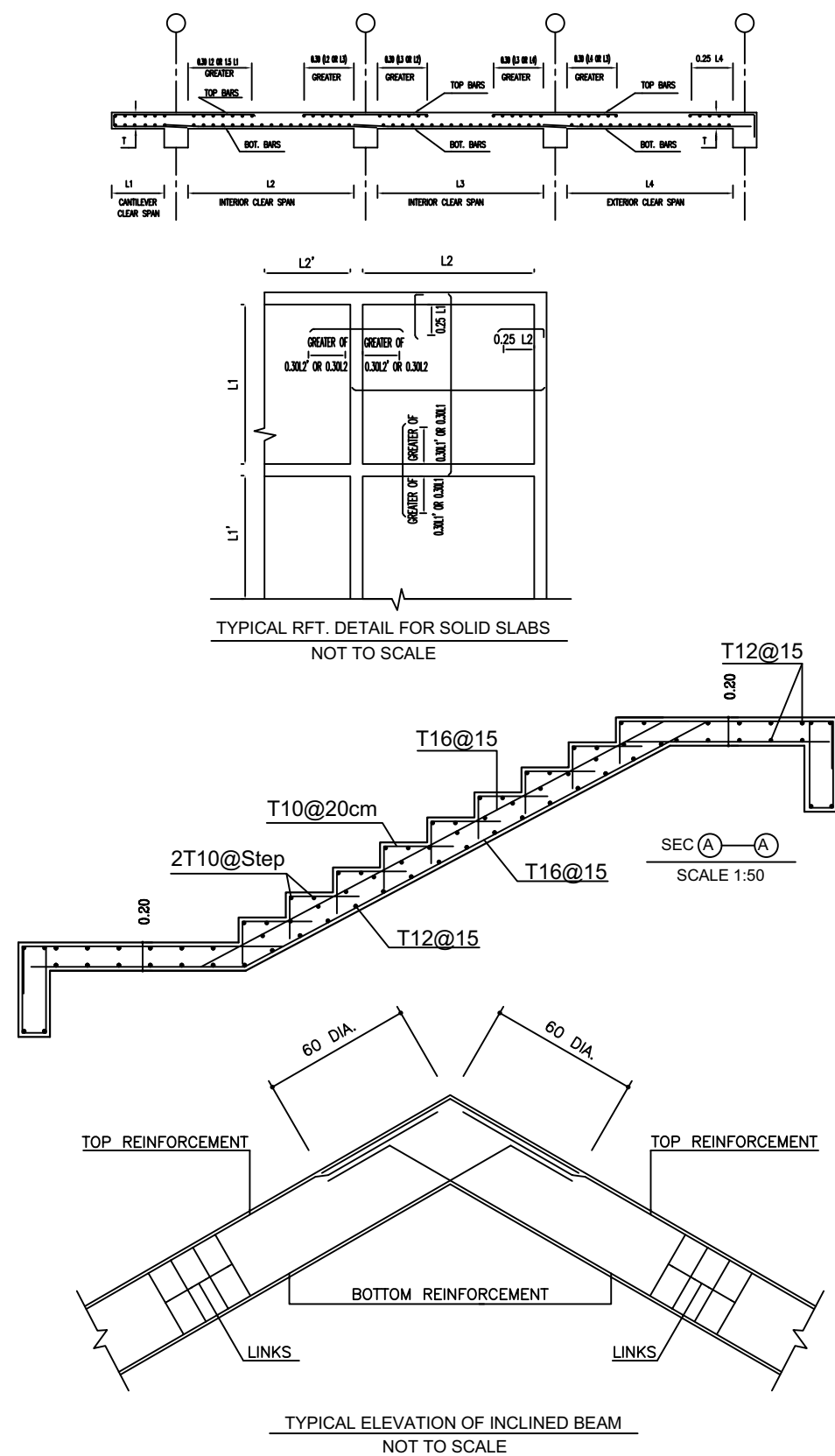
Architecture

MARWA MOKBEL

Structure

AHMED OMAR

MEP



NOTE:-

CLIENT:  
DISTRICT ONE-FZ

CONSULTANT :

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PROJECT:  
PROPOSED VILLA ( B+G +1+R)

LOCATION:  
AL MERKADH

PLOT NO.  
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STRUCTURAL DETAILS

JOB NO.  
A2

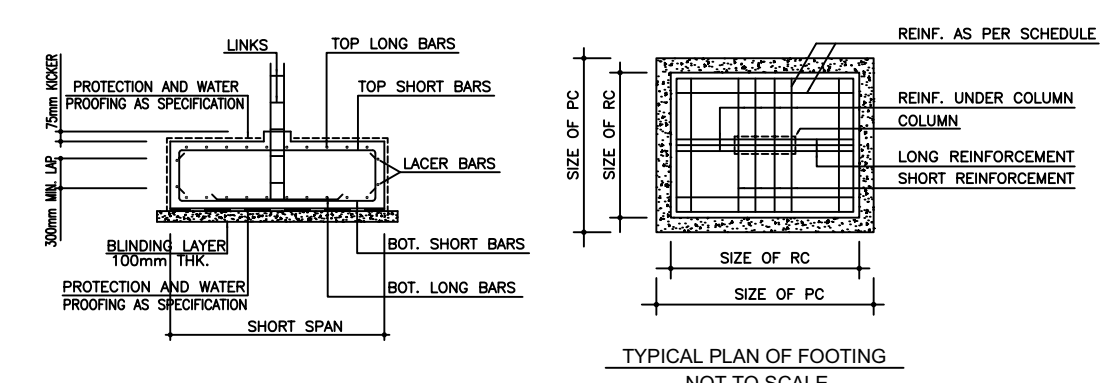
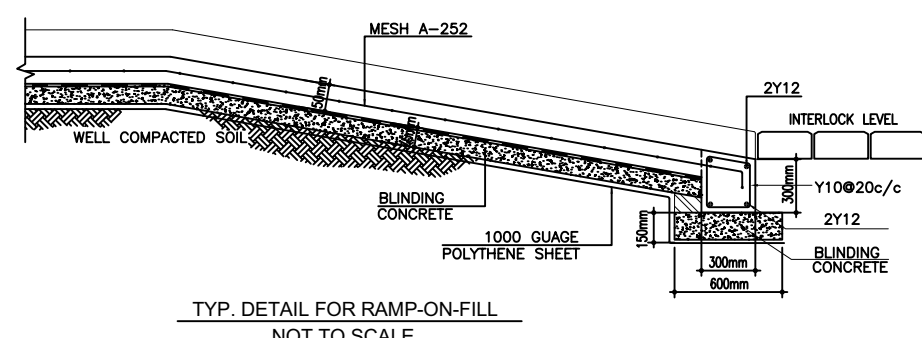
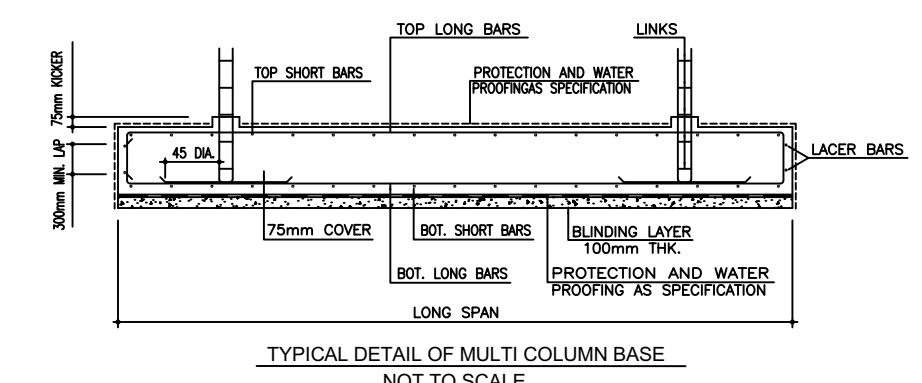
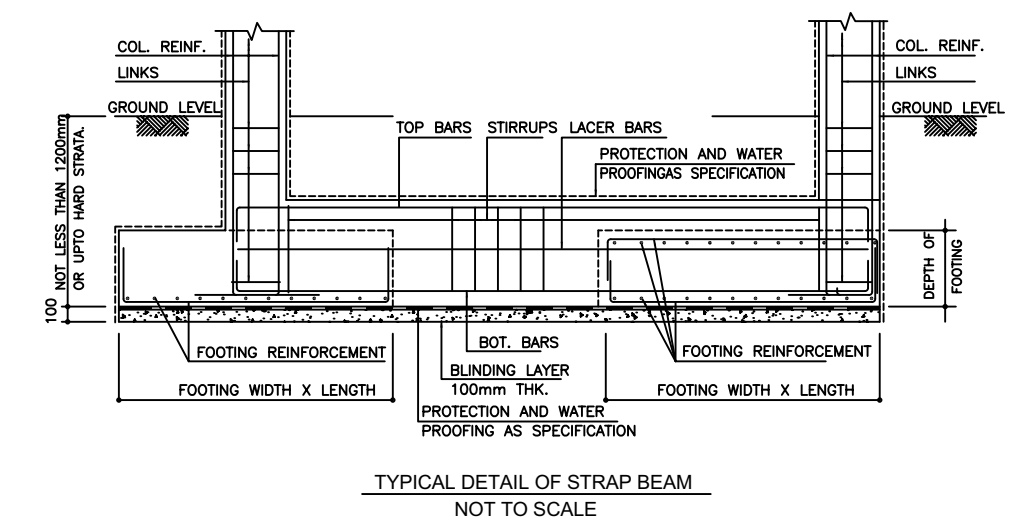
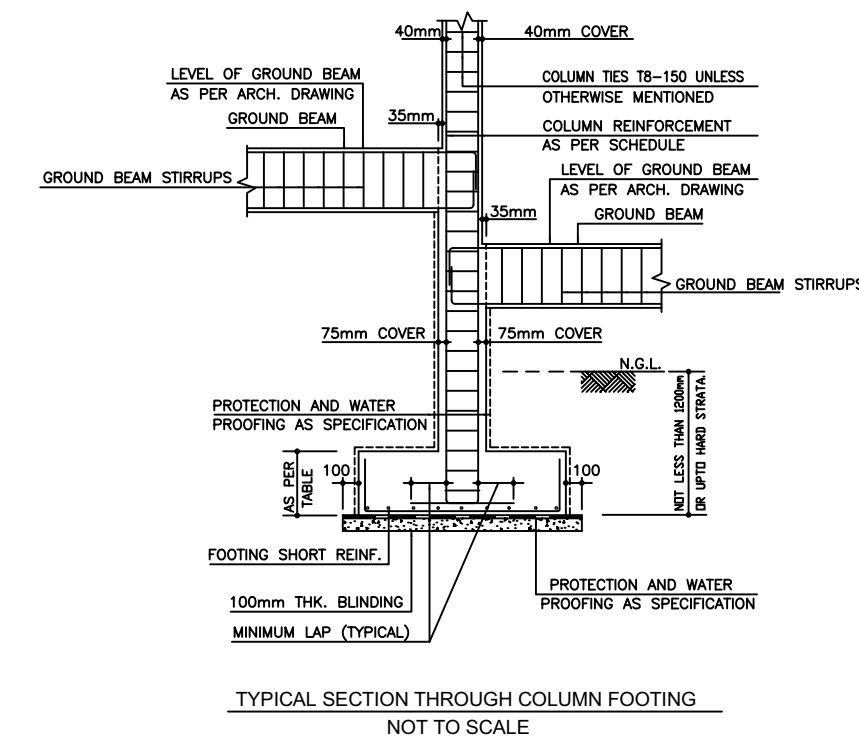
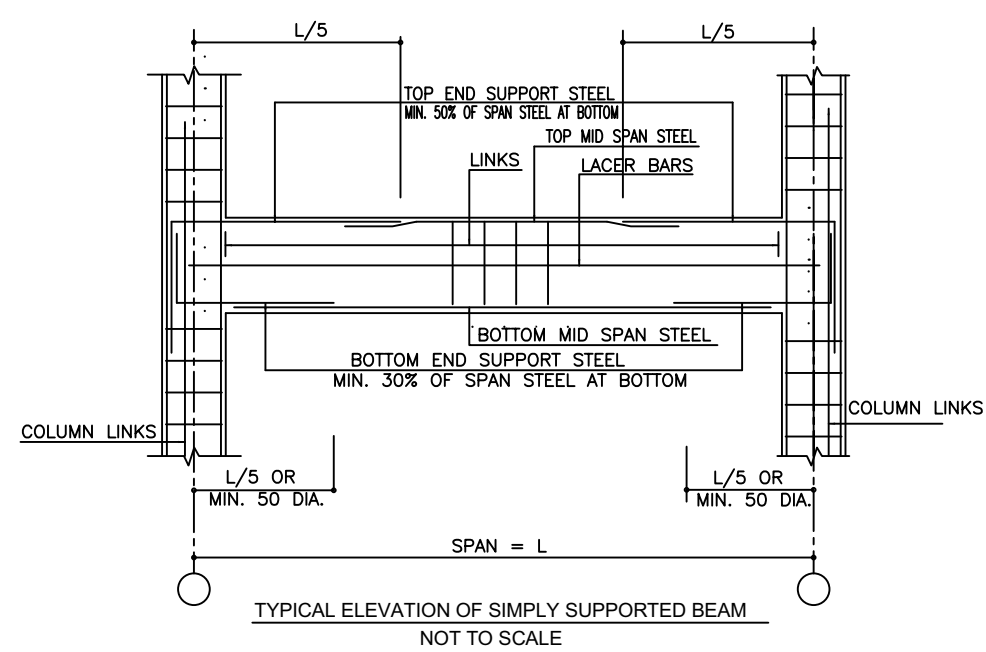
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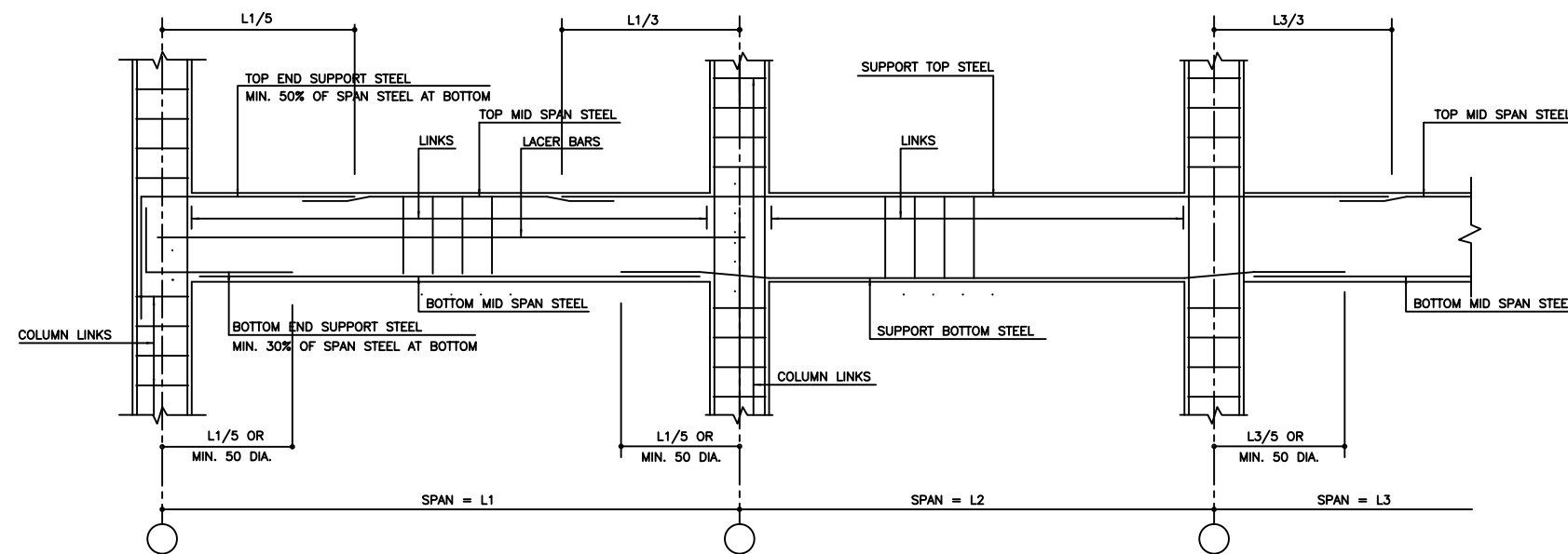


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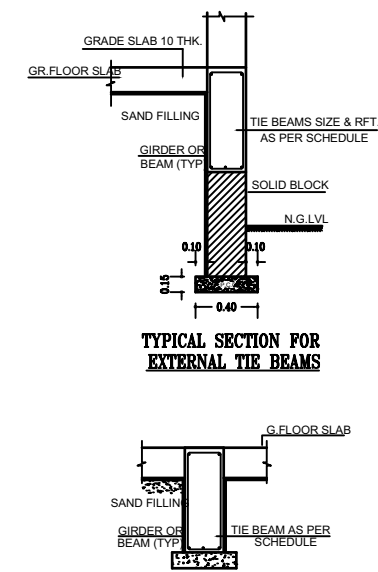
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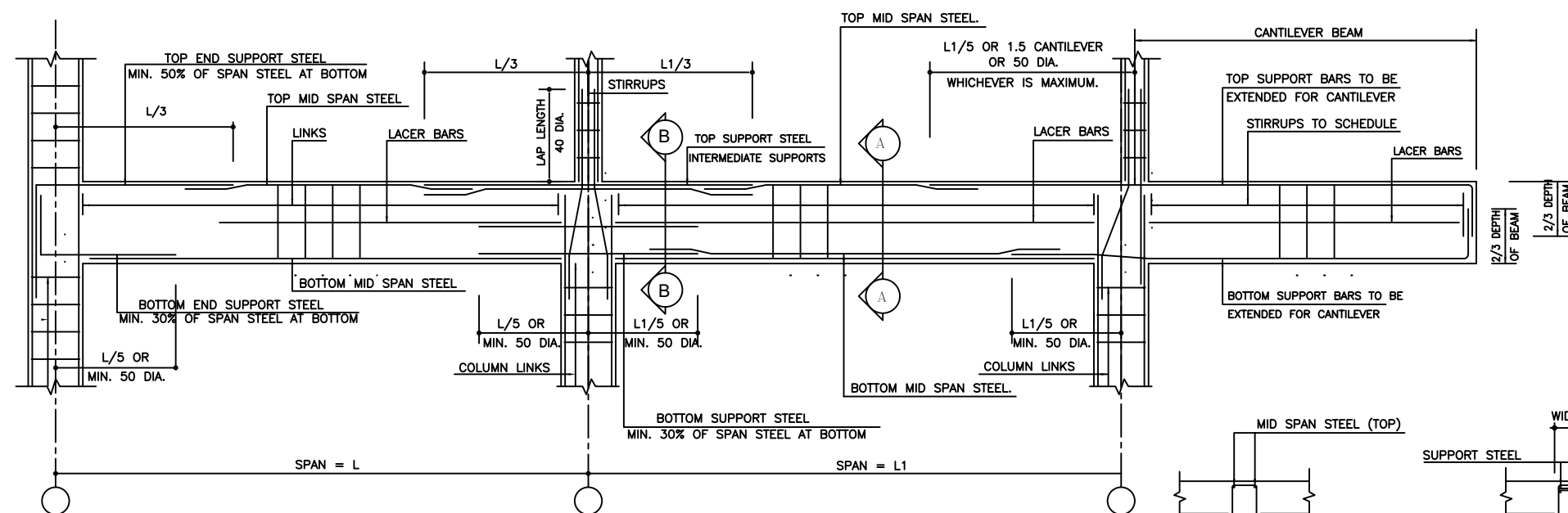
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LOCATION: AL MERKADH	PLOT NO. 470861	
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Structure	AHMED OMAR	
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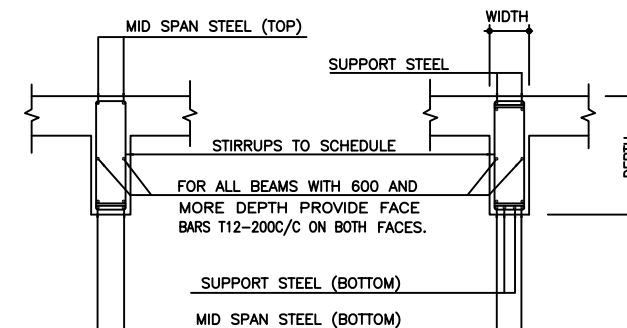
TYPICAL REINFORCEMENT DETAIL OF SHORT SPAN BETWEEN TWO LONG SPANS IN CONTINUOUS BEAM  
NOT TO SCALE



TYPICAL SECTION  
FOR INTERNAL TIE BEAMS



TYPICAL ELEVATION OF CONTINUOUS BEAM  
NOT TO SCALE



SECTION A-A

SECTION B-B

NOTE:-

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DISTRICT ONE-FZ

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PROJECT:  
PROPOSED VILLA ( B+G +1+R)

LOCATION:  
AL MERKADH

PLOT NO.  
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STRUCTURAL DETAILS

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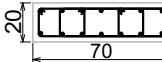
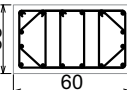



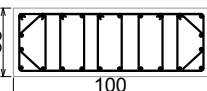
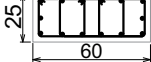
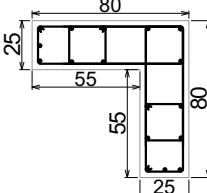

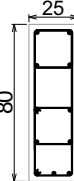
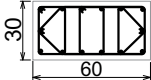
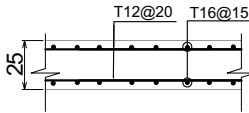
Scale:

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Architecture  
Structure  
MEP

N A M E  
MARWA MOKBEL  
AHMED OMAR

REG. NO.

fcu = 40 N/SQ.MM  
fy = 460 N/SQ.MM

SCHEDULE OF COLUMNS					
TYPE			COLUMNS SECTIONS		
C1			C8		
	MAIN STEEL:	12 T20		MAIN STEEL:	22 T20
	STIRRUP/ TIES:	3-Ø10@15C/C		STIRRUP/ TIES:	6-Ø10@15C/C
C2			C9		
	MAIN STEEL:	14 T20		MAIN STEEL:	16 T20
	STIRRUP/ TIES:	3-Ø10@15C/C		STIRRUP/ TIES:	3-Ø10@15C/C
C3			C10		
	MAIN STEEL:	16 T20		MAIN STEEL:	20 T20
	STIRRUP/ TIES:	4-Ø10@15C/C		STIRRUP/ TIES:	5-Ø10@15C/C
C4			C11		
	MAIN STEEL:	20 T20		MAIN STEEL:	24 T20
	STIRRUP/ TIES:	5-Ø10@15C/C		STIRRUP/ TIES:	6-Ø10@15C/C
C5			W1		
	MAIN STEEL:	14 T20		VERTICAL STEEL:	T16@15
	STIRRUP/ TIES:	3-Ø10@15C/C		HORIZONTAL STEEL:	T12@20
C6			W2		
	MAIN STEEL:	18 T20		VERTICAL STEEL:	T16@15
	STIRRUP/ TIES:	4-Ø10@15C/C		HORIZONTAL STEEL:	T12@20
C7			RW		
	MAIN STEEL:	14 T20		VERTICAL STEEL:	T16@15
	STIRRUP/ TIES:	3-Ø10@15C/C		HORIZONTAL STEEL:	T12@20
NOTES:					
* ALL STIRRUPS WITHIN THE SPLICE LENGTH SHALL BE SPACED AT 0.10m CENTER TO CENTER					
* FULL LENGTH OF COLUMN SHALL BE PROVIDED WITH SCHEDULED STIRRUPS					

COLUMNS SECTIONS

SCALE : 1-100

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المخططات المعتمدة  
إدارة ترخيص المباني

13/01/25  
3470861  
439837-1-3


تاريخ  
رقم الأرض  
رقم الرخصة

NOTE:-

CLIENT:  
DISTRICT ONE-FZ

CONSULTANT :

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CROQUEE LINE CONSULTANT

  
CROQUEE LINE

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PROJECT:  
PROPOSED VILLA ( B+G +1+R)

LOCATION:  
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PLOT NO.  
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DRAWING TITLE:  
COLUMNS SECTIONS

JOB NO.

DATE:  
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Structure	AHMED OMAR	
MEP		



fcu = 40 N/SQ.MM  
fy = 460 N/SQ.MM

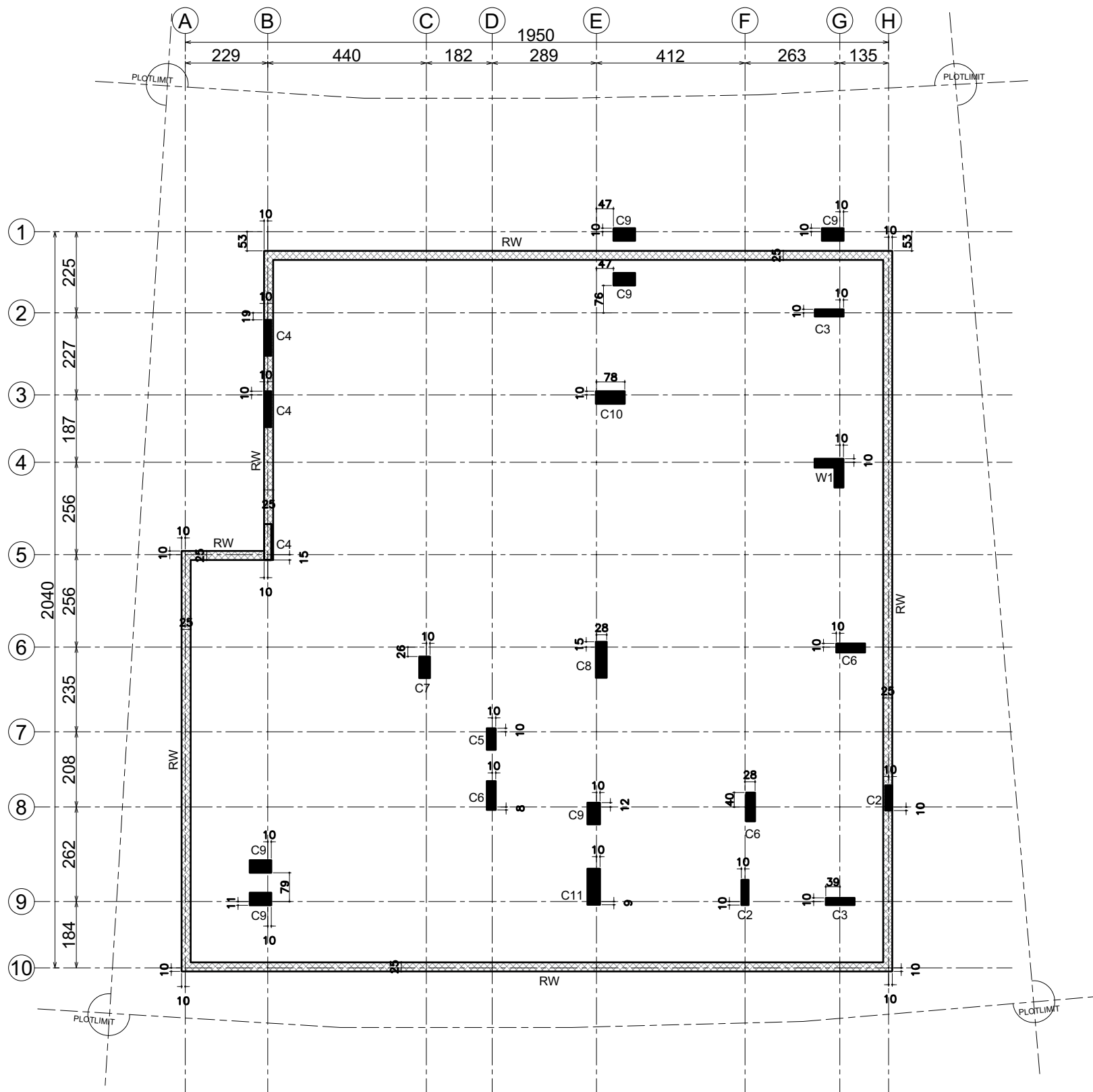
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Dubai Municipality

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رقم الرخصة



# BASEMENT FLOOR COLUMN LAYOUT

SCALE : 1-100

NOTE:-

CLIENT:  
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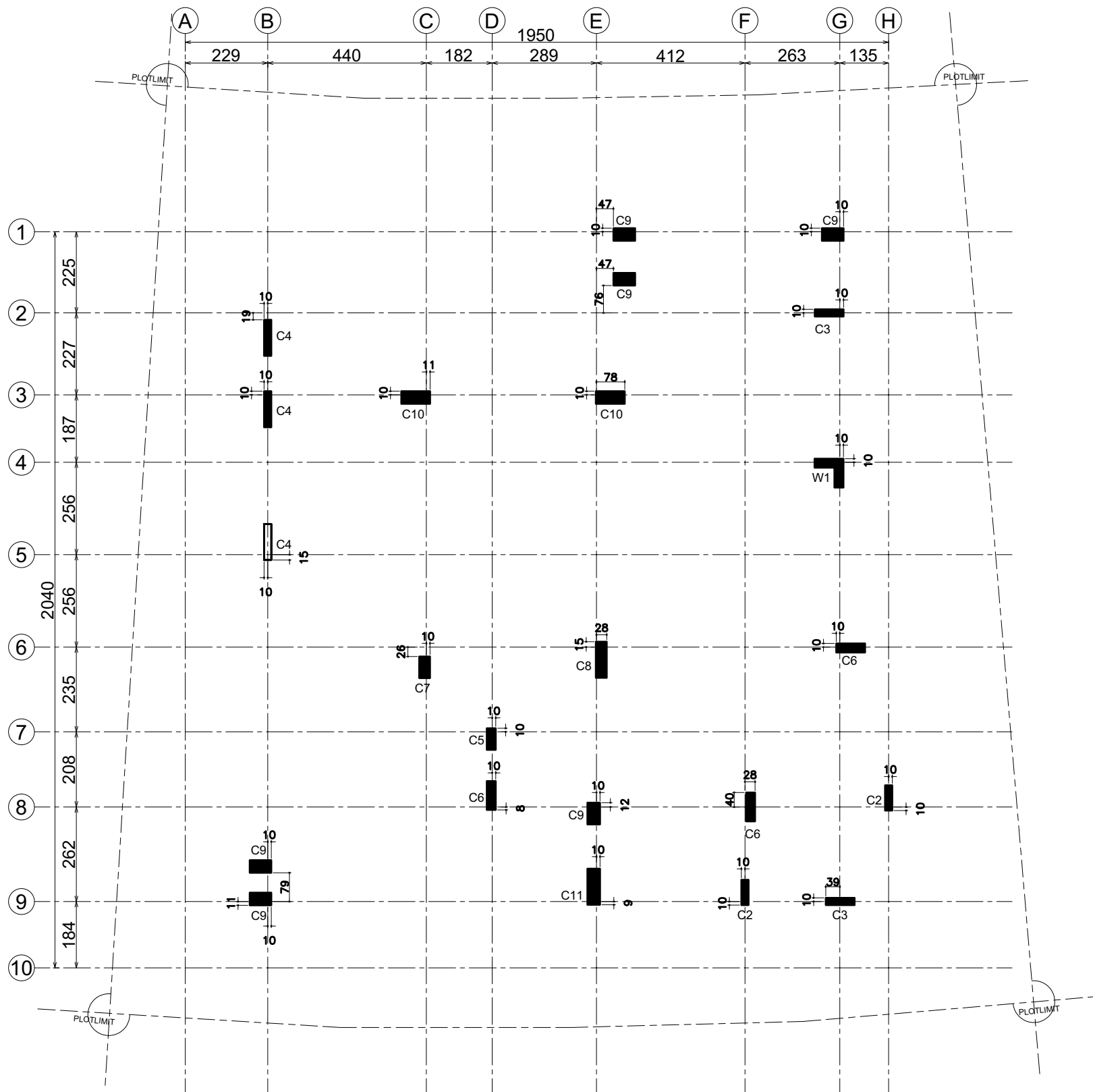
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LOCATION: AL MERKADH	PLOT NO. 470861	
DRAWING TITLE: BASEMENT FLOOR COLUMN LAYOUT		
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المخططات المعتمدة  
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رقم الترخيص  
3470861  
رقم الأرض  
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رقم الرخصة  
13/01/25



## GROUND FLOOR COLUMN LAYOUT

SCALE : 1-100

NOTE:-

CLIENT:  
DISTRICT ONE-FZ

CONSULTANT :

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CROQUEE LINE CONSULTANT

CROQUEE LINE

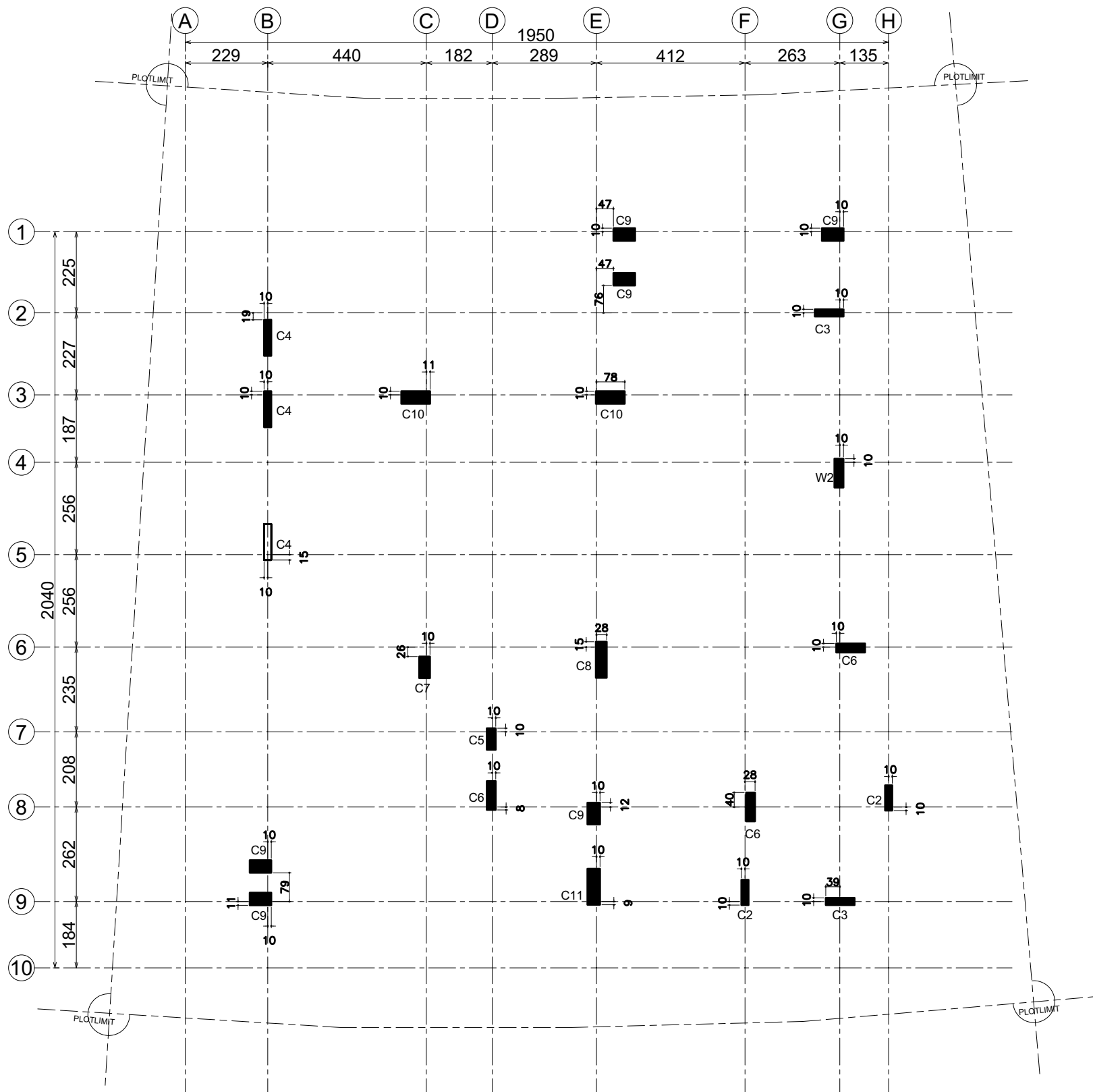
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PROJECT: PROPOSED VILLA ( B+G +1+R)		
LOCATION: AL MERKADH	PLOT NO. 470861	
DRAWING TITLE: GROUND FLOOR COLUMN LAYOUT		
JOB NO.	DATE: 06/11/2024	SHEET NO.
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Architecture	MARWA MOKBEL	
Structure	AHMED OMAR	
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3470861  
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رقم الرخصة  
439837-1-3



## FIRST FLOOR COLUMN LAYOUT

SCALE : 1-100

NOTE:-

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PROJECT:  
PROPOSED VILLA ( B+G +1+R)

LOCATION:  
AL MERKADH

PLOT NO.  
470861

DRAWING TITLE:  
FIRST FLOOR COLUMN LAYOUT

JOB NO.  
A2

DATE:  
06/11/2024

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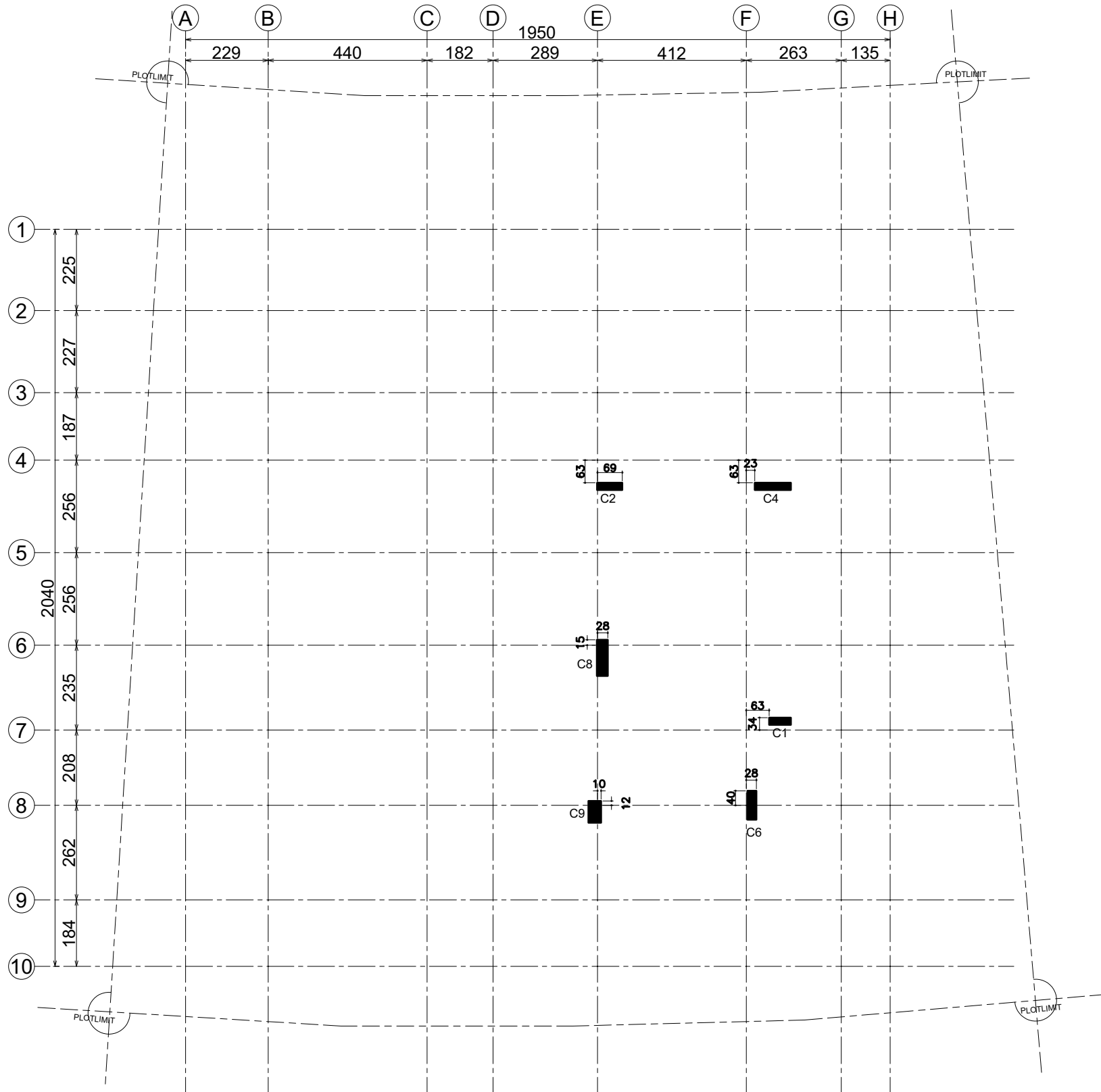
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رقم الأرض

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## ROOF FLOOR COLUMN LAYOUT

SCALE : 1-100

NOTE:-

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PROJECT:

PROPOSED VILLA ( B+G +1+R)

LOCATION:

AL MERKADH

PLOT NO.

470861

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ROOF FLOOR COLUMN LAYOUT

JOB NO.

DATE:

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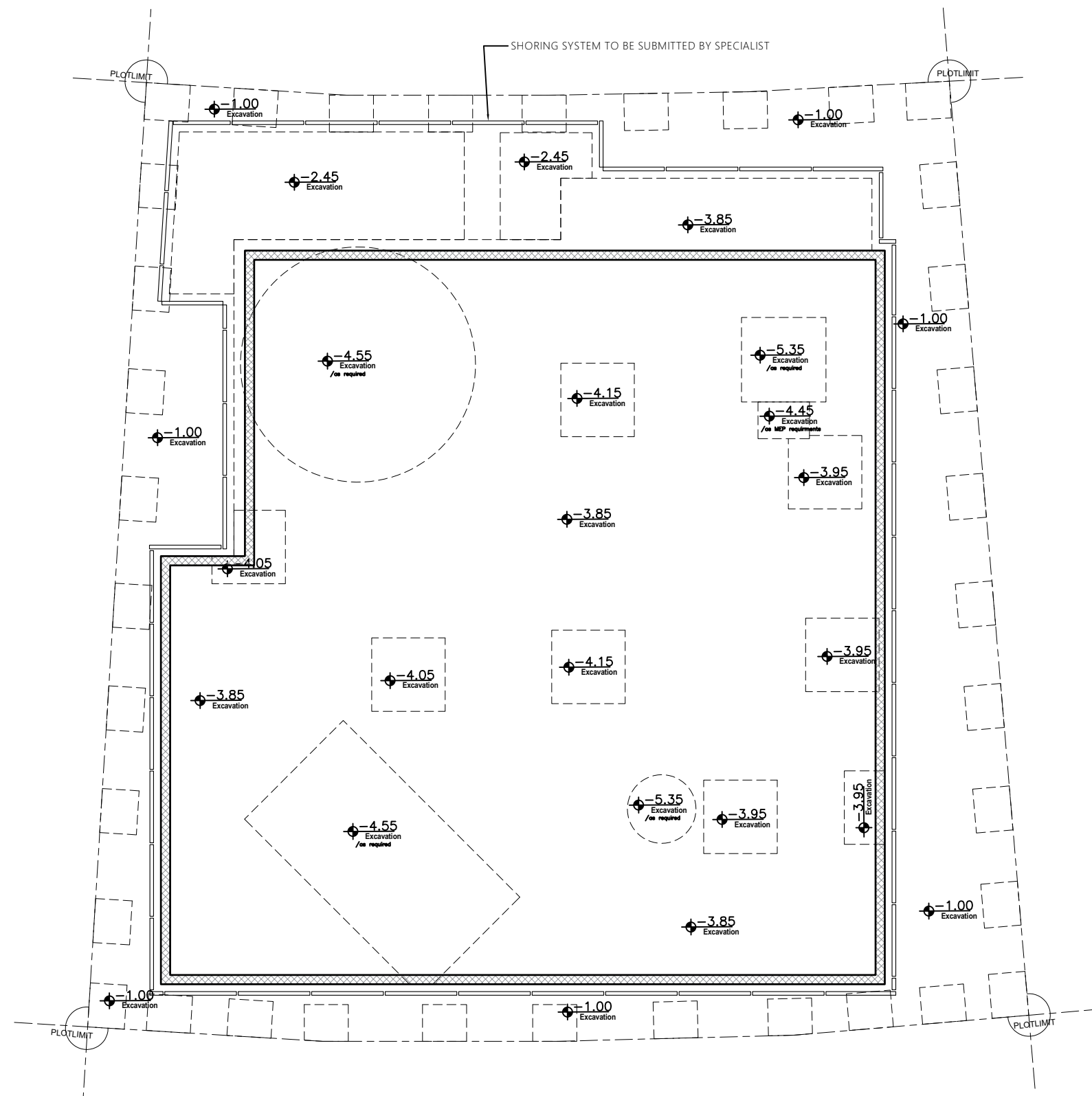
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N A M E

MARWA MOKBEL

AHMED OMAR

REG. NO.



## EXCAVATION & SHORING LAYOUT

SCALE : 1-100

NOTE:-

CLIENT:

DISTRICT ONE-FZ

CONSULTANT :



PROJECT:

PROPOSED VILLA ( B+G +1+R)

LOCATION:

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fy = 460 N/SQ.MM

NOTE:

-RAFT THICK 400mm (UNO).  
-AND MESH T16-150 T&B (UNO).

SSL -3.10m

REPORT REF.: TFL/G-2308/24 DATED: 28th SEP 2024

- FOUNDATIONS SET ON THE TOP OF 0.20M THICK OF ROAD BASE MATERIAL.
- PRIOR TO CONSTRUCTING THE FOUNDATIONS, THE SOIL AT FORMATION LEVEL SHOULD BE THOROUGHLY COMPACTED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE TO NOT LESS THAN(95% FOR SAND OR 98% FOR ROAD BASE) OF THE MAXIMUM DRY DENSITY AS DETERMIND BY THE PROCTOR TEST.
- THE COMPACTED SURFACE SHOULD THEN BE PROTECTED BY IMMEDIATELY COVERING WITH A LAYER OF CONCRETE BLINDING.
- GROUND WATER DEPTH 3.10M BELOW EXISTING GROUND SURFACE AT THE TIME OF SOIL INVESTIGATION.
- PRIOR TO COMMENCING EXCAVATION OPERATIONS FOR THE FOUNDATIONS IT IS STRONGLY RECOMMENDED THAT A SMALL PIT SHOULD BE DUG SUCH THAT THE WATER LEVEL MAY BE MORE ACCURATELY DETERMIND.
- IN ORDER TO PREVENT LOOSENING OF THE SOILS THE BASE OF THE EXCAVATION FOR THE FOUNDATIONS SHOULD BE NOT LESS THAN 0.5M ABOVE THE WATER TABLE ENCOUNTERED AT HIGHER LEVEL THAN RECORDED AT THE TIME OF INVESTIGATION; OTHERWISE DEWATERING WOULD BE REQUIRED.
- MEMBRANE WATER PROOFING SHOULD BE USED FOR FOUNDATIONS 2 LAYERS 4MM.

REBAR LEGEND:

ADD'L TOP REINF. - - - - -  
ADD'L BOTTOM REINF. ————

SCHEDULE OF ADDITIONAL REINFORCEMENT

TYPE	REINFORCEMENT
A	T 12@200 C/C
B	T 16@200 C/C
C	T 16@100 C/C

REINFORCEMENT NOTE:

- ADDITIONAL TOP REINF. IS CONCENTRIC WITH COLUMNS CENTER (U.N.O.)
- ADDITIONAL BOTTOM REINF. SHOULD BE LOCATED AT THE MID PONT BETWEEN COLUMN CENTERS.
- REINFORCEMENT TO BE CUT WHERE NECESSARY.
- THE INDICATED REINF. LENGTH IS THE PROJECTED LENGTH ON THE PLAN REINFORCEMENT TO BE CUT & SPLICES PROPERLY TO ACHIEVE THE PROJECTED LENGTHS.

VILLA FOUNDATION LAYOUT

SCALE : 1-100

NOTE:-

CLIENT:

DISTRICT ONE-FZ

CONSULTANT :



PROJECT:

PROPOSED VILLA ( B+G +1+R)

LOCATION:

AL MERKADH

PLOT NO.

470861

DRAWING TITLE:

VILLA FOUNDATION LAYOUT

JOB NO.

DATE:

06/11/2024

SHEET NO.

Sheet Size:

Scale:

A2

CHECKED BY:

N A M E

REG. NO.

Architecture

MARWA MOKBEL

Structure

AHMED OMAR

MEP

REG. NO.

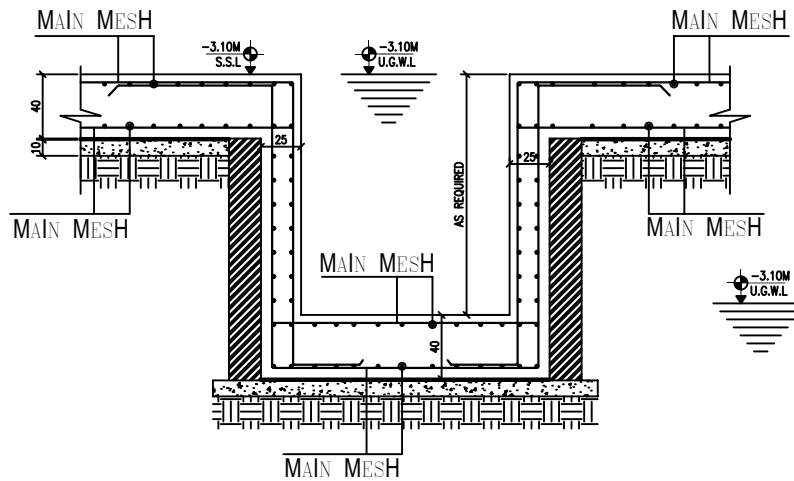
fcu = 40 N/SQ.MM  
fy = 460 N/SQ.MM

بلدية دبي  
Dubai Municipality

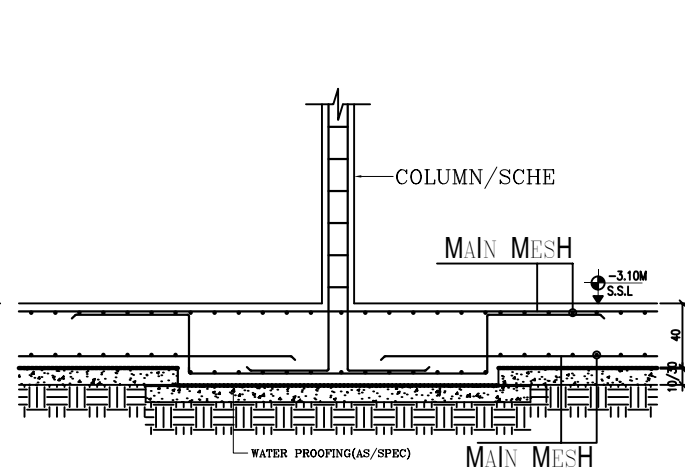
المخططات المعتمدة

13/01/25  
3470861  
439837-1-3

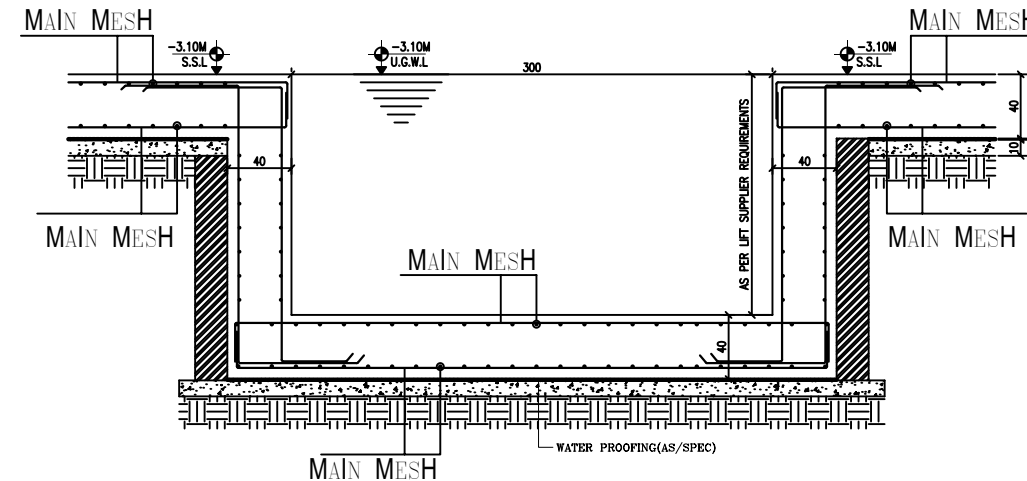
رقم المخطط  
رقم الأرض  
رقم الرخصة



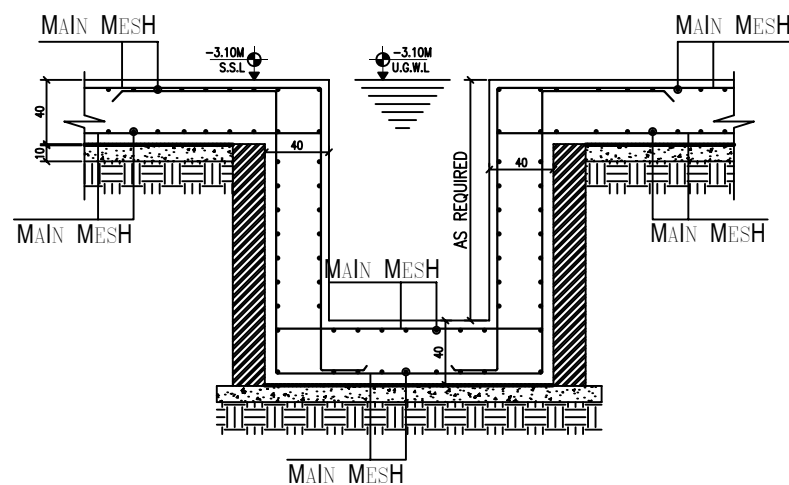
S-10 SECTION - B3- LIFT PIT



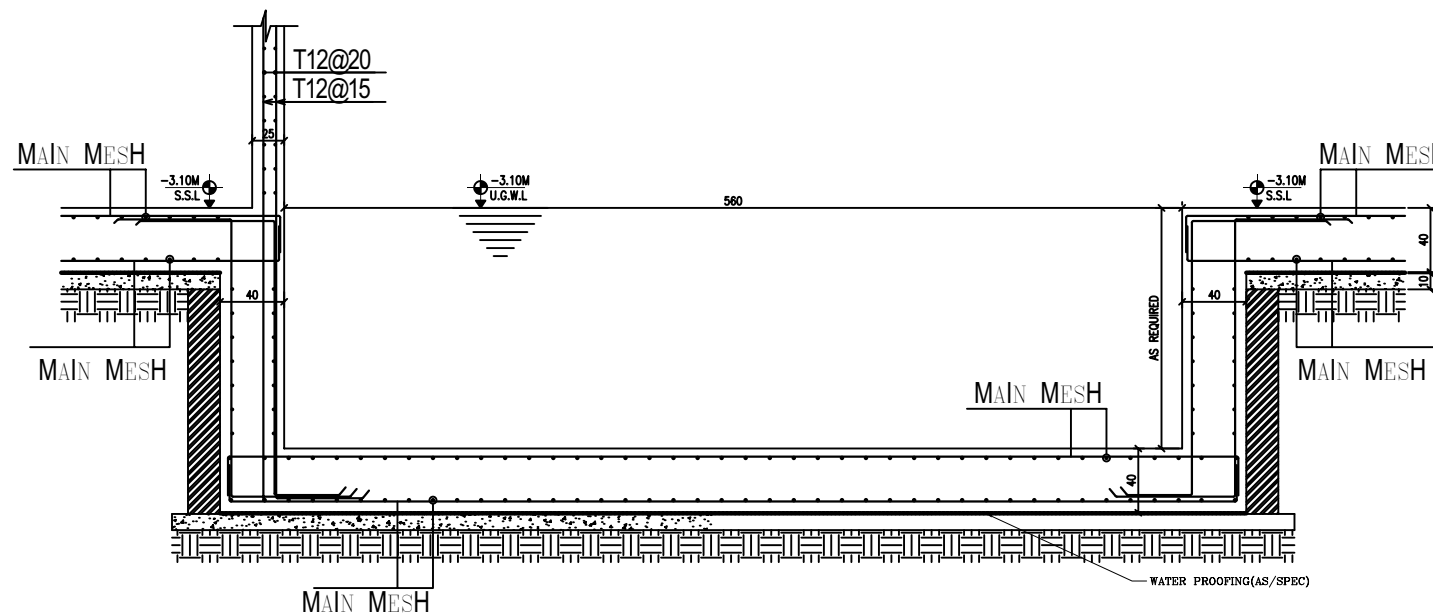
TYPICAL DETAILS FOR DROP



S-10 SECTION - B1 - CAR LIFT PIT



SUMP PIT TYPICAL DETAILS



S-10 SECTION - B2- CAR ROTATING PLATFORM PIT

## VILLA FOUNDATION SECTIONS

SCALE : 1-100

NOTE:-

CLIENT:

DISTRICT ONE-FZ

CONSULTANT :

كروكي للين للاستشارات الهندسية  
CROQUEE LINE CONSULTANT

TEL : +971 503991000

PHONE : 04 5737941

WWW.CROQUEELINE.AE

PROJECT:

PROPOSED VILLA ( B+G +1+R)

LOCATION:

AL MERKADH

PLOT NO.

470861

DRAWING TITLE:

VILLA FOUNDATION SECTIONS

JOB NO.

DATE:

06/11/2024

SHEET NO.

Sheet Size:

Scale:

A2

CHECKED BY:

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REG. NO.

Architecture

MARWA MOKBEL

Structure

AHMED OMAR

MEP



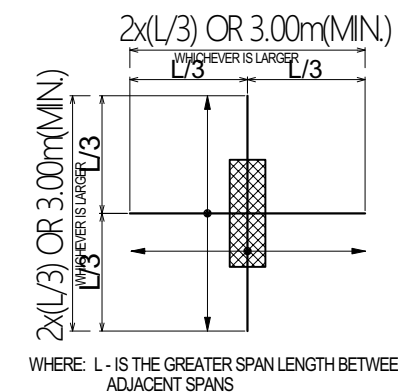
fcu = 40 N/SQ.MM  
fy = 460 N/SQ.MM

DESIGN LOAD:

- 1) FLOOR COVER DL=2KN/m2
- 2) LIVE LOAD LL=2.5KN/m2
- 3) EXT. WALL LOAD=13KN/m
- 4) INT. WALL LOAD=3.5KN/m2

\* LEGEND:

TOP REINFORCEMENT  
BOTTOM REINFORCEMENT

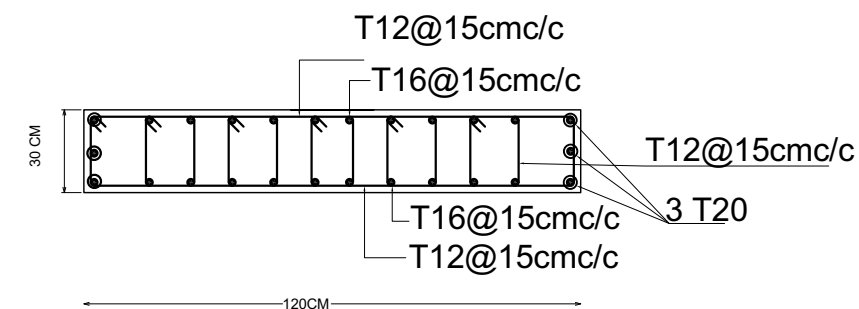


SLAB DESCRIPTION: FLAT SLAB

MAIN SLAB THICKNESS - 30cm

MAIN MESH:

T12@20cm.C/C Both ways Top  
T12@20cm.C/C Both ways Bottom



## SECTION X-X

SLAB EDGE DECOR TO BE CHECKED WITH ARCH DRAWINGS






## GROUND SLAB LAYOUT

SCALE : 1-100

NOTE:-

BEAM WITH (\*) IS INVERTED BEAM @ L.L.

### SCHEDULE OF GROUND SLAB BEAMS

TYPE	SIZE, cm. (b x d)	REINFORCEMENT				FACE BARS	STIRRUPS
		BOTTOM STEEL		TOP STEEL			
		CONTINUOUS	EXTRA @ MIDSPAN	CONTINUOUS	EXTRA @ SUPPORT		
B1	20 x 70	3 T16	---	3 T16	---	2x1 T12	 T8@15cm.C/C
B2	20 x 70	2 T16	2 T16	2 T16	2 T16	2x1 T12	 T8@15cm.C/C
B3	30 x 100	3 T16	3 T16	3 T16	2 T16	2x3 T12	 T10@10cm.C/C
B4	35 x 50	4 T16	---	4 T16	---	---	 T10@15cm.C/C
B5	40 x 100	8 T25	6 T25	3 T16	3 T16	2x3 T16	 T12@10cm.C/C

NOTE:-

CLIENT:

DISTRICT ONE-FZ

CONSULTANT :



PROJECT:

PROPOSED VILLA ( B+G +1+R)

LOCATION:

AL MERKADH

PLOT NO.

470861

DRAWING TITLE:

GROUND SLAB LAYOUT

JOB NO.

DATE:

06/11/2024

Sheet Size:

Scale:

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Architecture

MARWA MOKBEL

Structure

AHMED OMAR

MEP



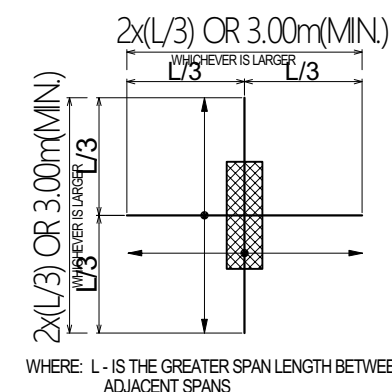
$f_{cu} = 40 \text{ N/SQ.MM}$   
 $f_y = 460 \text{ N/SQ.MM}$

DESIGN LOAD:

- 1) FLOOR COVER  $DL=2\text{KN/m}^2$
- 2) LIVE LOAD  $LL=2.5\text{KN/m}^2$
- 3) EXT. WALL LOAD= $13\text{KN/m}$
- 4) INT. WALL LOAD= $3.5\text{KN/m}^2$

\* LEGEND:

--- TOP REINFORCEMENT  
--- BOTTOM REINFORCEMENT

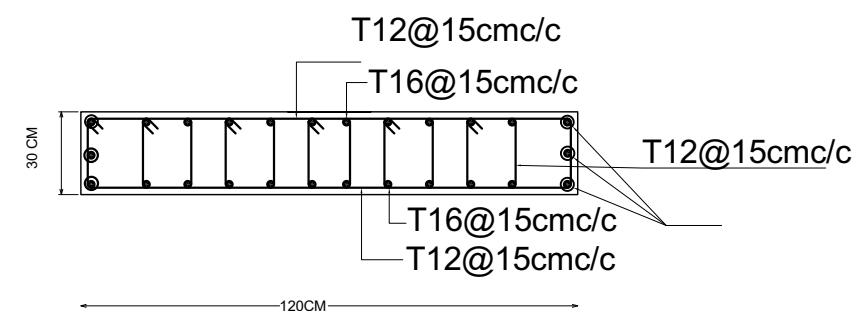


SLAB DESCRIPTION: FLAT SLAB

MAIN SLAB THICKNESS - 25cm

MAIN MESH:








T12@20cm.C/C Both ways Top  
T12@20cm.C/C Both ways Bottom



# SECTION X-X

SLAB EDGE DECOR TO BE CHECKED WITH ARCH DRAWINGS

## SCHEDULE OF FIRST SLAB BEAMS

TYPE	SIZE, cm. (b x d)	REINFORCEMENT				FACE BARS	STIRRUPS
		BOTTOM STEEL		TOP STEEL			
		CONTINUOUS	EXTRA @ MIDSPAN	CONTINUOUS	EXTRA @ SUPPORT		
B1	20 x 70	3 T16	---	3 T16	---	2x1 T12	 T8@15cm.C/C
B2	20 x 70	2 T16	2 T16	2 T16	2 T16	2x1 T12	 T8@15cm.C/C
B3	20 x 80	3 T16	3 T16	3 T16	2 T16	2x2 T12	 T10@15cm.C/C
B4	20 x 100	3 T20	3 T20	3 T16	3 T16	2x3 T12	 T10@15cm.C/C
B5	35 x 50	4 T16	---	4 T16	---	---	 T10@15cm.C/C
CB	20 x 70	2 T16	---	5 T16	---	2x1 T12	 T10@15cm.C/C
HB	50 x 30	5 T16	---	5 T16	---	---	 T8@15cm.C/C

## FIRST SLAB LAYOUT

SCALE : 1-100

NOTE:-

CLIENT:

DISTRICT ONE-FZ

CONSULTANT :



PROJECT:

PROPOSED VILLA ( B+G +1+R)

LOCATION:

AL MERKADH

PLOT NO.

470861

DRAWING TITLE:

FIRST SLAB LAYOUT

JOB NO.

DATE:

06/11/2024

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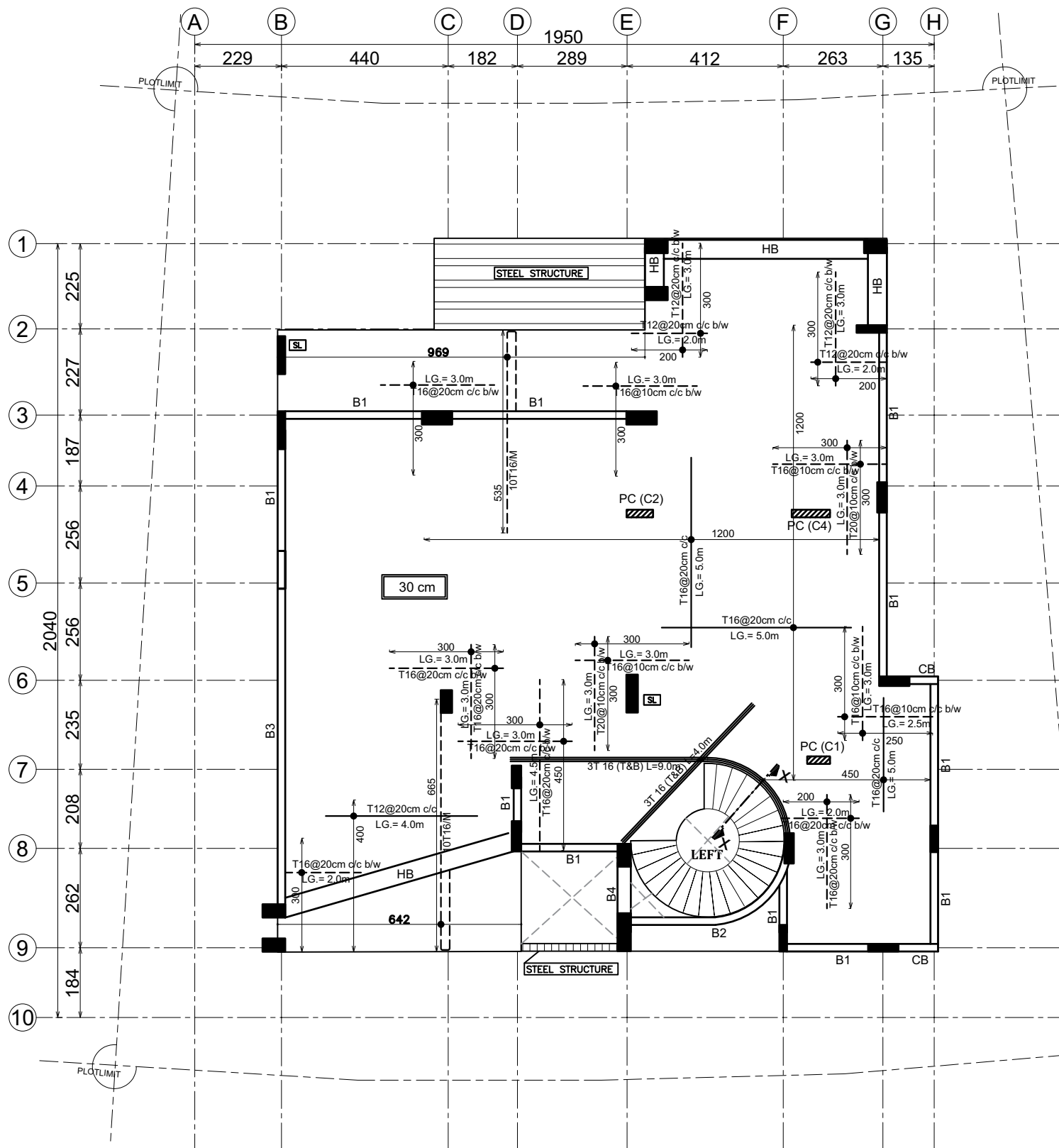
Architecture

MARWA MOKBEL

Structure

AHMED OMAR

MEP



ROOF SLAB LAYOUT

SCALE : 1-100

DESIGN LOAD:

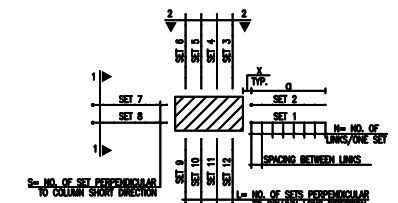
- 1) FLOOR COVER DL=2KN/m2
- 2) LIVE LOAD LL=2.5KN/m2
- 3) EXT. WALL LOAD=13KN/m
- 4) INT. WALL LOAD=3.5KN/m2

fcu = 40 N/SQ.MM  
fy = 460 N/SQ.MM

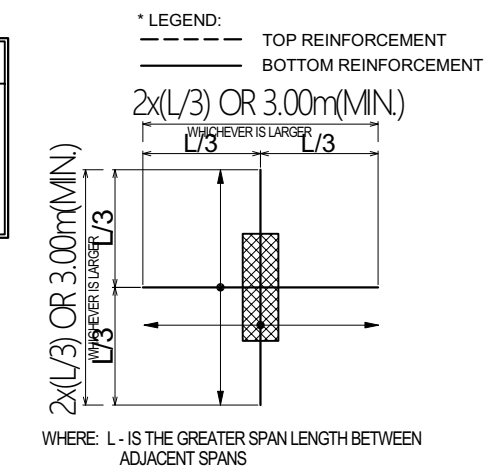
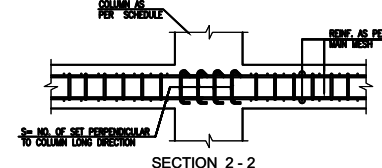
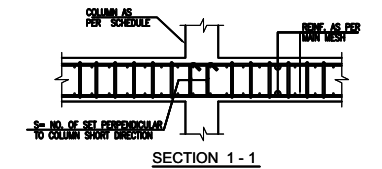
SLAB DESCRIPTION: FLAT SLAB

MAIN SLAB THICKNESS - 30cm

MAIN MESH:  
T12@20cm.C/C Both ways Top  
T12@20cm.C/C Both ways Bottom



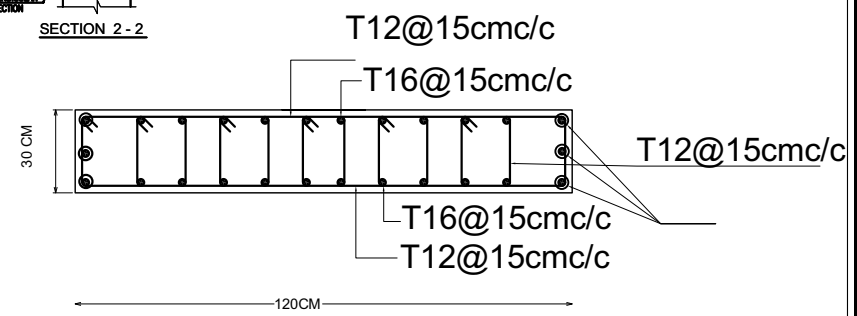
TYPICAL DETAIL OF SHEAR LINK



SHEAR LINKS TABLE







SHEAR LINK TYPE	TOTAL NO. OF REBAR SET	NO. OF SET PER EACH FACE		LINK DIA.	NUMBER OF SINGLE LEG	SPACING (mm)	a (mm)	X (Max) (mm)
		S	L					
SL1	14	2	6	T12	6	100	600	110

SL DENOTES SHEAR LINKS, REFER TO SCHEDULE ABOVE



SECTION X-X

SLAB EDGE DECOR TO BE CHECKED WITH ARCH DRAWINGS

SCHEDULE OF ROOF SLAB BEAMS							
TYPE	SIZE, cm. (b x d)	REINFORCEMENT				FACE BARS	STIRRUPS
		BOTTOM STEEL		TOP STEEL			
		CONTINUOUS	EXTRA @ MIDSPAN	CONTINUOUS	EXTRA @ SUPPORT		
B1	20 x 60	3 T16	---	3 T16	---	2x1 T12	 T8@15cm.C/C
B2	20 x 60	2 T16	2 T16	2 T16	2 T16	2x1 T12	 T8@15cm.C/C
B3	20 x 100	3 T20	3 T20	3 T16	3 T16	2x3 T12	 T10@15cm.C/C
B4	35 x 50	4 T16	---	4 T16	---	---	 T10@15cm.C/C
CB	20 x 60	2 T16	---	5 T16	---	2x1 T12	 T10@15cm.C/C
HB	50 x 30	5 T16	---	5 T16	---	---	 T8@15cm.C/C

بلدية دبي  
Dubai Municipality

المخططات المعتمدة 13/01/25  
رقم الأرض 3470861  
إدارة ترخيص المباني 439837-1-3  
رقم الرخصة

NOTE:-

CLIENT:  
DISTRICT ONE-FZ

CONSULTANT:

كروكيه لاين للاستشارات الهندسية  
CROQUEE LINE CONSULTANT

TEL: +971 503991000 PHONE: 04 5737941  
WWW.CROQUEELINE.AE

PROJECT:  
PROPOSED VILLA ( B+G +1+R)

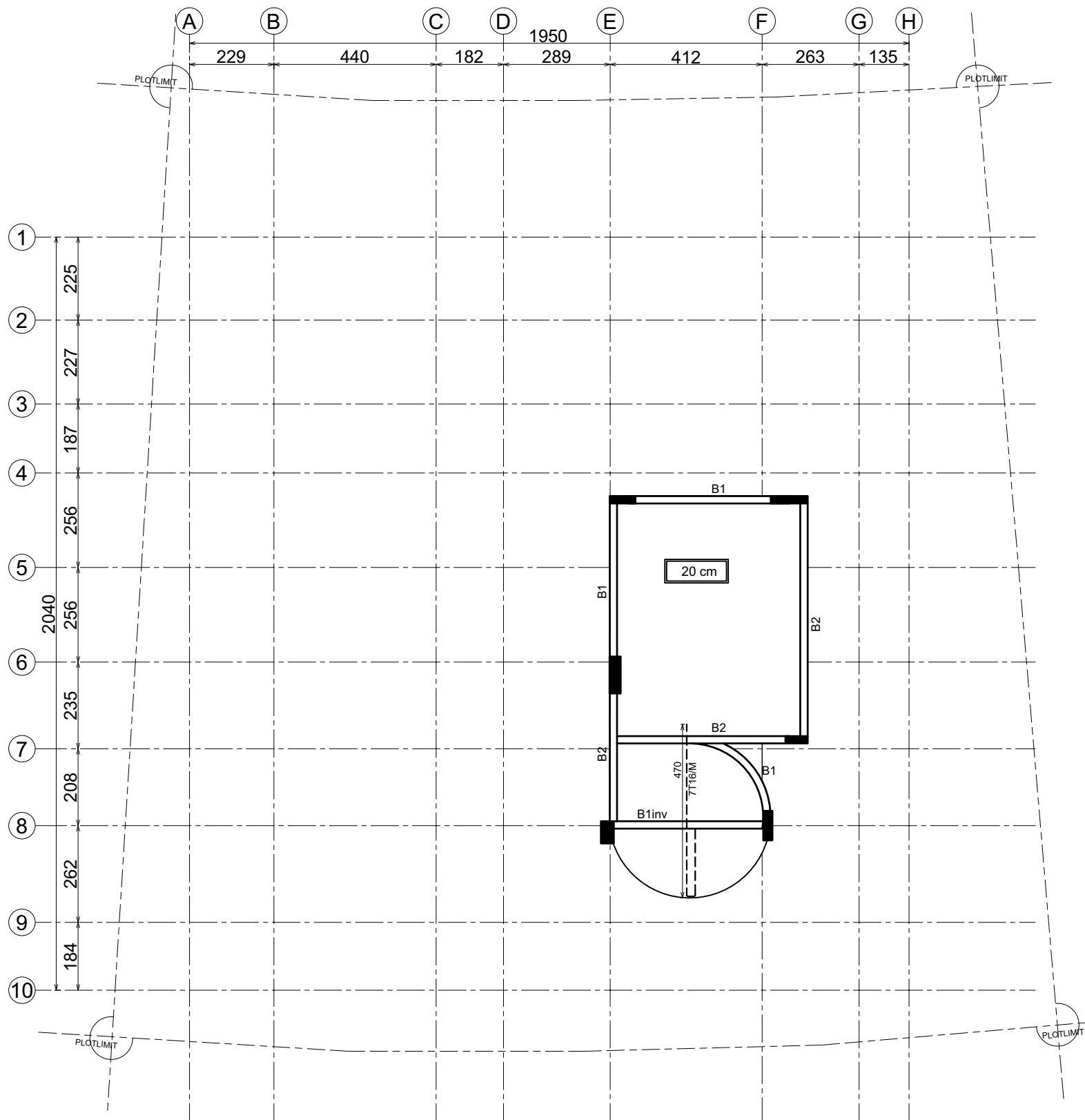
LOCATION:  
AL MERKADH

PLOT NO.  
470861

DRAWING TITLE:  
ROOF SLAB LAYOUT

JOB NO. DATE: 06/11/2024 SHEET NO.  
Sheet Size: A2 Scale:

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Architecture MARWA MOKBEL  
Structure AHMED OMAR  
MEP



TOP ROOF SLAB LAYOUT

SCALE : 1-100

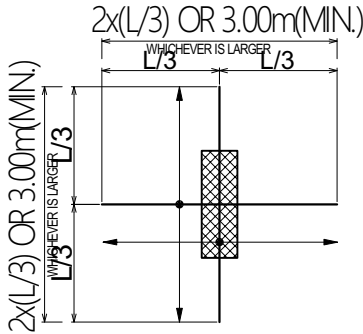
NOTE:-  
BEAM WITH (\*) IS INVERTED BEAM @ L.L.

DESIGN LOAD:

- 1) FLOOR COVER DL=2KN/m2
- 2) LIVE LOAD LL=2.5KN/m2
- 3) EXT. WALL LOAD=13KN/m
- 4) INT. WALL LOAD=3.5KN/m2

$f_{cu} = 40 \text{ N/SQ.MM}$   
 $f_y = 460 \text{ N/SQ.MM}$

\* LEGEND:  
--- TOP REINFORCEMENT  
--- BOTTOM REINFORCEMENT



WHERE: L - IS THE GREATER SPAN LENGTH BETWEEN ADJACENT SPANS



SLAB DESCRIPTION: FLAT SLAB

MAIN SLAB THICKNESS - 20cm

MAIN MESH:  
T12@20cm.C/C Both ways Top  
T12@20cm.C/C Both ways Bottom

SLAB EDGE DECOR TO BE CHECKED WITH ARCH DRAWINGS

SCHEDULE OF TOP ROOF SLAB BEAMS

TYPE	SIZE, cm. (b x d)	REINFORCEMENT				FACE BARS	STIRRUPS
		BOTTOM STEEL		TOP STEEL			
		CONTINUOUS	EXTRA @ MIDSPAN	CONTINUOUS	EXTRA @ SUPPORT		
B1	20 x 60	3 T16	---	3 T16	---	2x1 T12	 T8@15cm.C/C
B2	20 x 60	3 T16	3 T16	2 T16	2 T16	2x1 T12	 T8@15cm.C/C

بلدية دبي  
Dubai Municipality

المخططات المعتمدة  
إدارة ترخيص المباني

التاريخ  
رقم الأرض  
رقم الرخصة

13/01/25  
3470861  
439837-1-3

NOTE:-

CLIENT:  
DISTRICT ONE-FZ

CONSULTANT :

كروكيه لاين للاستشارات الهندسية  
CROQUEE LINE CONSULTANT

CROQUEE LINE

TEL : +971 503993333 PHONE : 04 5737941  
WWW.CROQUEELINE.AE

PROJECT:  
PROPOSED VILLA ( B+G +1+R)

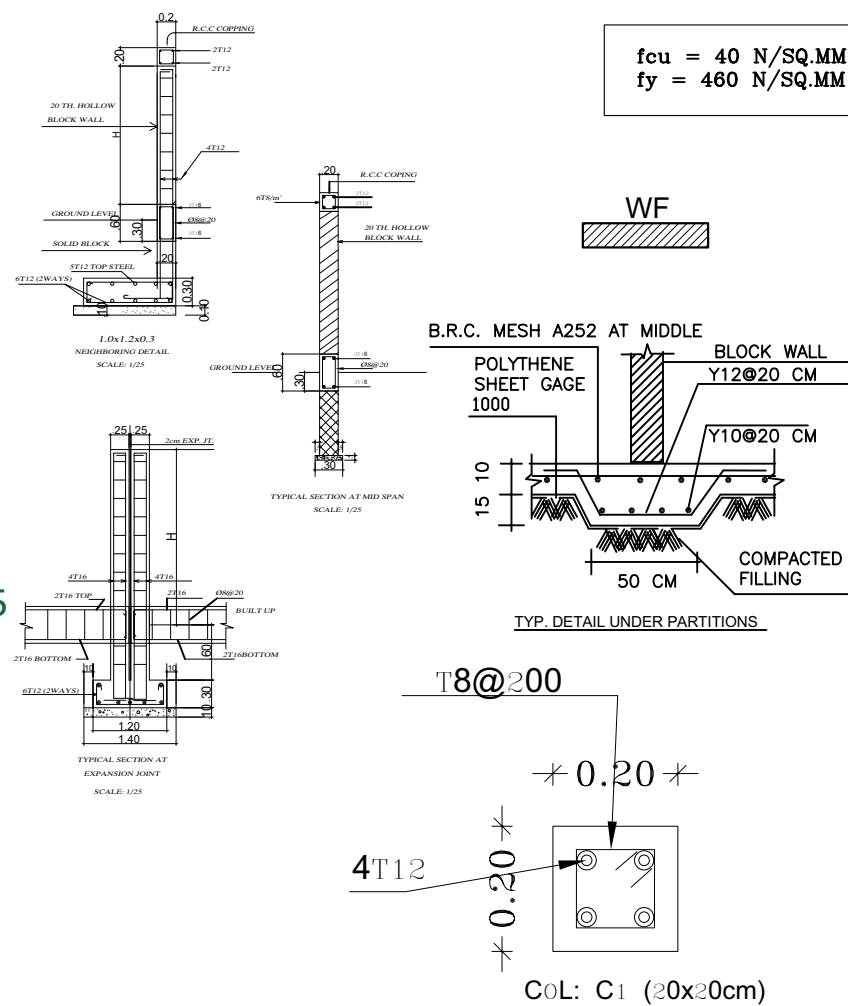
LOCATION:  
AL MERKADH

PLOT NO.  
470861

DRAWING TITLE:  
TOP ROOF SLAB LAYOUT

JOB NO.	DATE: 06/11/2024	SHEET NO.
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Architecture	MARWA MOKBEL	
Structure	AHMED OMAR	
MEP		



REFER TO ARCHITECTURAL DRAWINGS FOR THE LEVELS

- \* NO EXCAVATION ALLOWED BENEATH ANY NEIGHBORING FOUNDATION.
- \* IN CASE A DIFFERENCE IN LEVEL IS ENCOUNTERED BEYOND 1.2 METERS THE CONTRACTOR HAS TO SUBMIT A RETAINING WALL DESIGN FOR APPROVAL.
- \* FORMATION LEVEL OF BOUNDARY WALL FOUNDATION SHALL BE AT A MINIMUM OF -1.0 METER BELOW NATURAL GROUND LEVEL.

BACK FILLING SHALL BE CARRIED OUT TO THE PROPOSED FOUNDATION LEVEL OF 1.00M BELOW THE GATE LEVEL (0.0) LEVEL USING ENGINEERED FILL MATERIAL PLACED IN LAYERS OF THICKNESS 150MM TO 250MM WITH EACH LAYER COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY.

-REFER TO SOIL REPORT FOR FOUNDATION NOTES .

SCHEDULE OF BEAM:									
TYPE	SIZES (cm)	BOTT.RFT.		TOP RFT.		STIRRUPS		FACE BARS EACH SIDE	REMARKS
		CONT.	EXTRA AT CENTRE	CONT.	EXTRA OVER SUPPORT	1 <sup>st</sup> FROM SUPPORT	MIDDLE SPAN		
TB1	20 x 40	2 T 16	1 T 16	2 T 16	1 T 16	T8 @ 200/c	T8 @ 200/c	-	-

**FOOTING SCHEDULE:**

FOOTINGS	SIZES ( RCC cm )	BOTT.RFT.		TOP RFT.		REMARK
		SHORT SPAN	LONG SPAN	SHORT SPAN	LONG SPAN	
F1	100 x 120 x 30	T12 @ 200/c	T12 @ 200/c	T12 @ 200/c	T12 @ 200/c	

SCALE : 1-100

CLIENT:

DISTRICT ONE-FZ

CONSULTANT :

**كروكي لاين للإستشارات الهندسية**  
**CROQUEE LINE CONSULTANT**

TEL : +971 503981030    PHONE : 04 3292841    [WWW.CROQUEELINE.AE](http://WWW.CROQUEELINE.AE)

PROJECT:

PROPOSED VILLA ( B+G +1+R)

LOCATION:

AL MERKADH

PLOT NO. \_\_\_\_\_

470861

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## COMPOUND WALL

JOB NO.

Sheet Size:

A2

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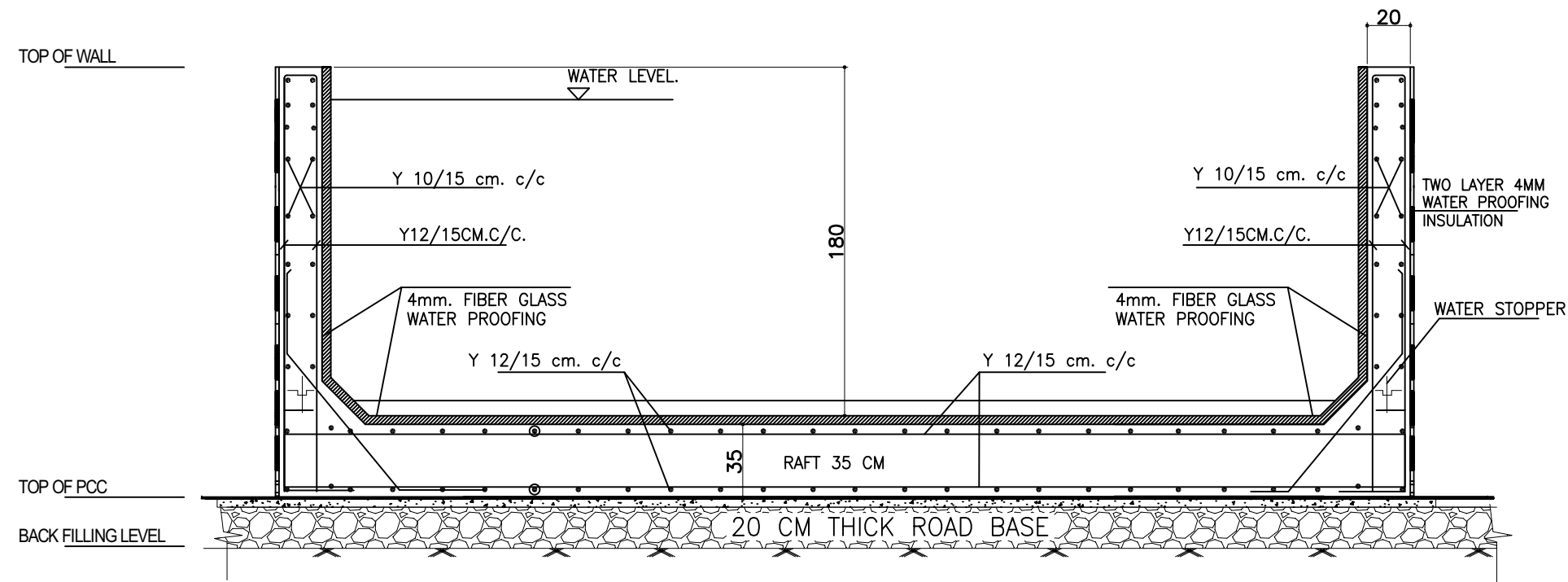
NAME \_\_\_\_\_

REG. NO.

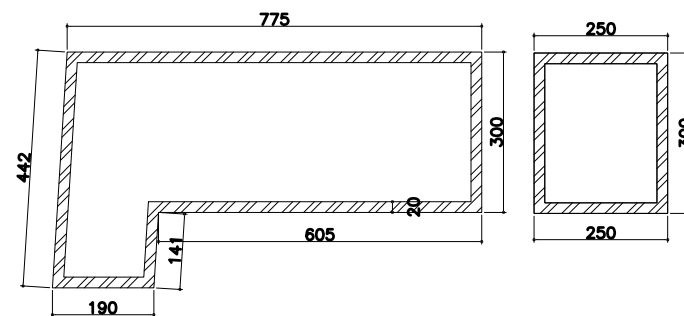
SHORING SYSTEM DESIGN TO BE SUBMITTED BY SPECIALIST

$f_{cu} = 40 \text{ N/SQ.MM}$   
 $f_y = 460 \text{ N/SQ.MM}$

بلدية دبي Dubai Municipality	
المخططات المعتمدة	13/01/25 تاريخ
إدارة ترخيص المباني	3470861 رقم الأرض
	439837-1-3 رقم الرخصة



(SWIMMING POOL SECTION)



SWIMMIN POOL PLAN

SWIMMING POOL SECTION

NOTE:-

CLIENT:

DISTRICT ONE-FZ

CONSULTANT :



PROJECT:

PROPOSED VILLA ( B+G +1+R)

LOCATION:

AL MERKADH

PLOT NO.

470861

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SWIMMING POOL SECTION

JOB NO.

DATE:

06/11/2024

SHEET NO.

Sheet Size:

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REG. NO.

Architecture

MARWA MOKBEL

Structure

AHMED OMAR

MEP