SAUDI COMMITTEE FOR
PALESTINIAN RELEIF

UNITED NATIONS
DEVELOPMENT PROGRAMME

Construction of 300 Residential Units in Rafah

PAL-10-49740

Construction of 36 Residential Units in Rafah

Package (10) - Zone No 8

Tendering Drawings

Annex VI.

List of Drawings

Planning Drawings

P-01 Master Plan

P-02 Master Site Layout

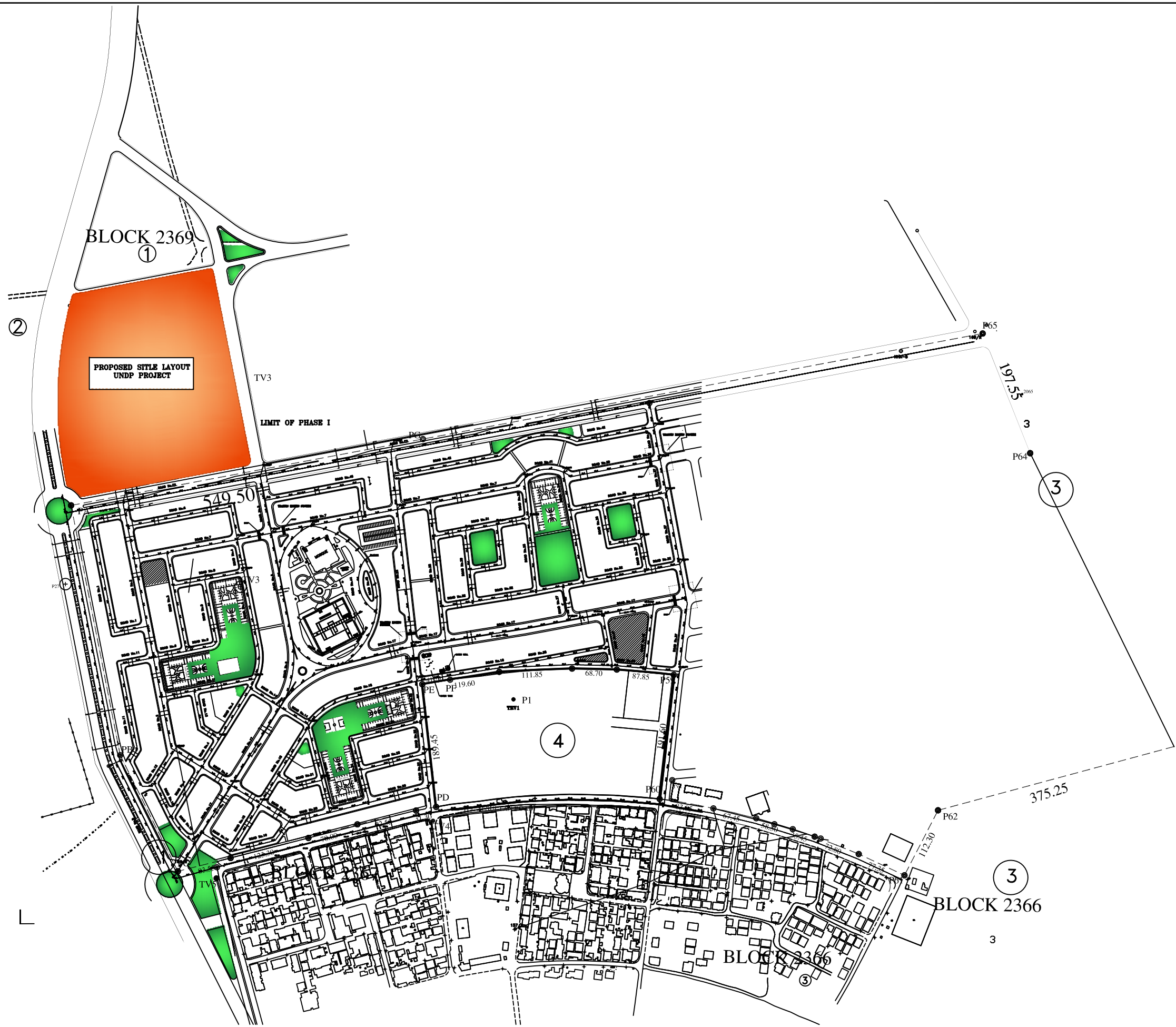
P-03 Units Distribution Plan

P-04 Zoning Plan

P-05 Site Plan- Zone #6

P-06 Ground Floor Plan Zone #6

P-07 Buildings Levels



NOTES:

N

EXISTING ROADS

PROPOSED ROADS

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

MASTER PLAN

Symbol	Drawing No.:	Rev. No.
RES	P-01	R1

NOTES:

N

EXISTING ROADS

PROPOSED ROADS

No.	Description	Date	By
4			
3			
2			
1			

Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

اللجنة السعودية لإغاثة الشعب الفلسطيني

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

MASTER SITE LAYOUT

Symbol	Drawing No.:	Rev. No.
RES	P-02	R1

Requirements Schedule				
NO.	Item	Num	Area	Percentage
1	Units	157 units	36569m2	
2	Schools	2 units	8348m2	
3	Mosque	1 unit	2069m2	
4	Water Well	1 Unit	373m2	
5	Waste Water Pump	1 Unit	855m2	
	Total Built up Area	5 Items	48214m2	54.93%
6	Parking &Serv. Area		2722m2	3.10%
7	Green Area	3 units	6916m2	7.88%
8	Roads		29919m2	34.09%
	Total Area		87771m2	100%

SYMBOLS KEY

Symbol	No. of Floors	Types	Total No.
1	3	LLL	26
2	3	LLS	15
3	3	LSS	23
4	3	SSS	6
5	2	LL	39
6	2	LS	32
7	2	SS	14
			155

NOTES:

N

Future Extension

Green Area

Existing Road Service Area

Proposed Road Pedestrian Roads

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

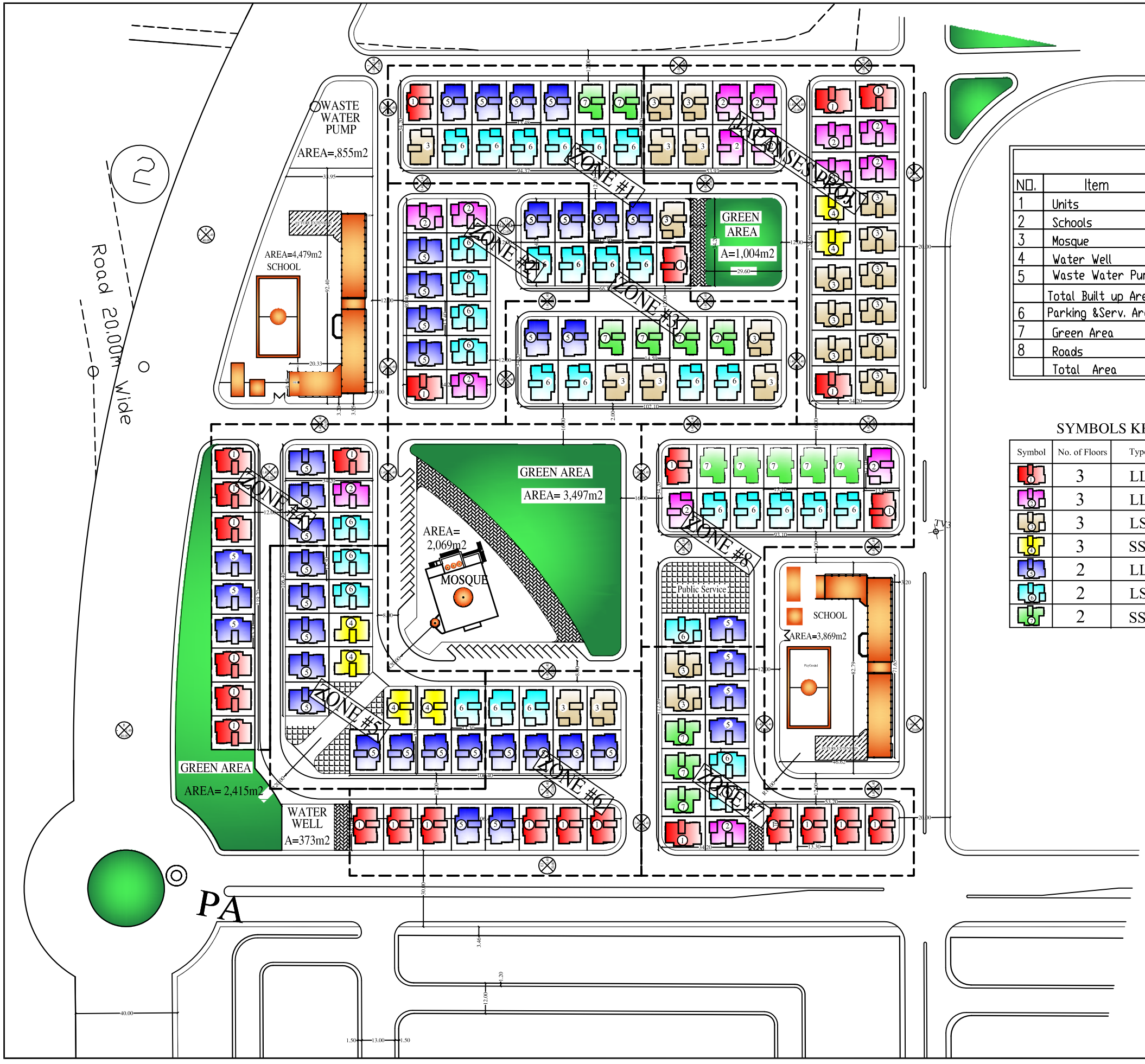
IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

UNITS DISTRIBUTION PLAN

Symbol	Drawing No.:	Rev. No.
RES	P -03	R1



Requirements Schedule				
NO.	Item	Num	Area	Percentage
1	Units	157 units	36569m2	
2	Schools	2 units	8348m2	
3	Mosque	1 unit	2069m2	
4	Water Well	1 Unit	373m2	
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	Total Built up Area	5 Items	48214m2	54.93%
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SYMBOLS KEY

Symbol	No. of Floors	Types	Total No.
1	3	LLL	26
2	3	LLS	15
3	3	LSS	23
4	3	SSS	6
5	2	LL	39
6	2	LS	32
7	2	SS	14
			155

NOTES:

N

Future Extension

Green Area

Service Area

Pedestrian Roads

Existing Road

Proposed Road

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

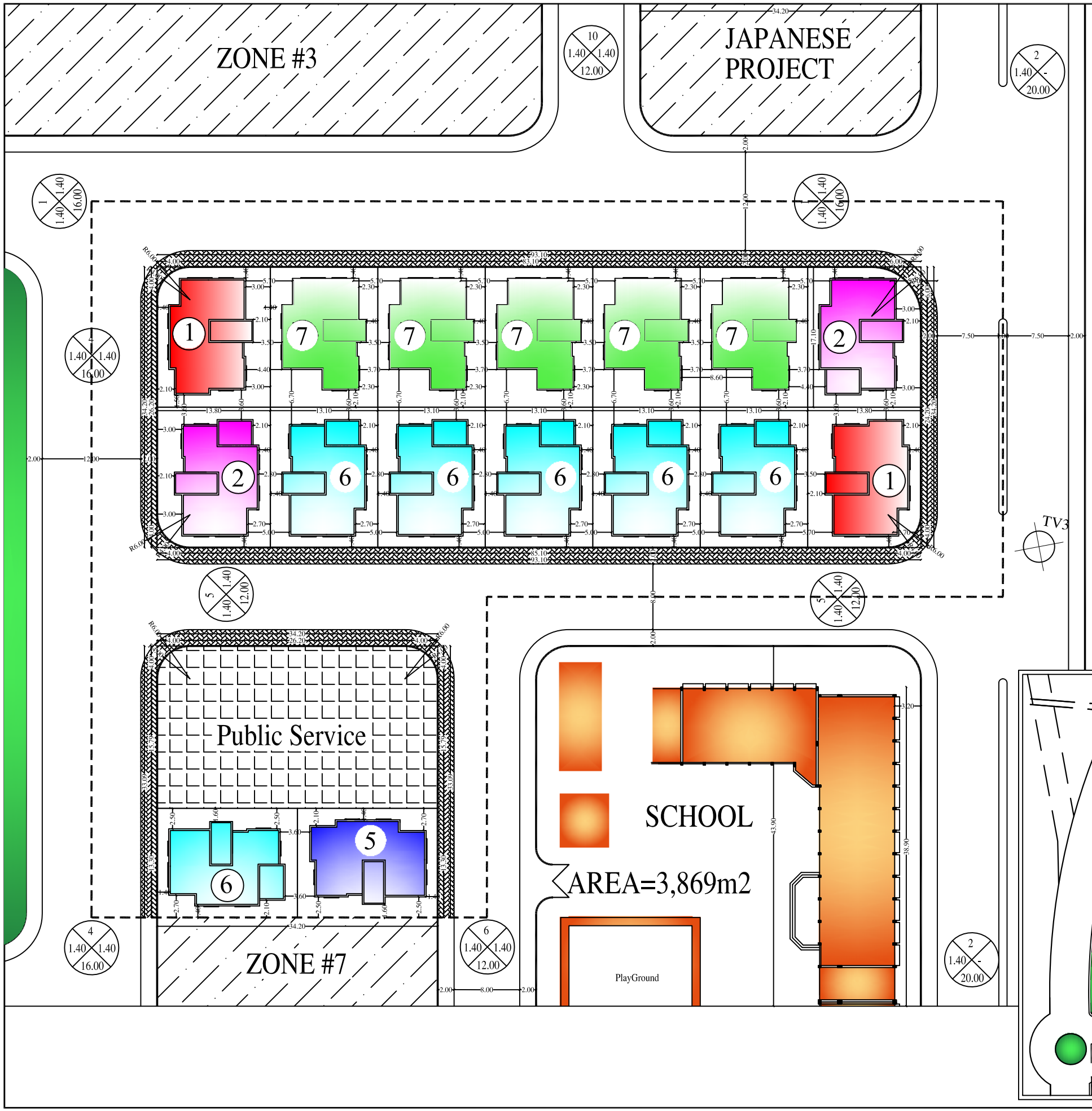
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

ZONING PLAN

Symbol	Drawing No.:	Rev. No.
RES	P -04	R1



SYMBOLS KEY

Symbol	No. of Floors	Types	Total No.
1	3	LLL	2
2	3	LLS	2
5	2	LL	1
6	2	LS	6
7	2	SS	5
			16

NOTES:

N

- Future Extension
- Green Area
- Service Area
- Pedestrian Roads
- Existing Road
- Proposed Road

No.	Description	Date	By
4			
3			
2			
1			

Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

ZONE #8 / SITE PLAN

Symbol	Drawing No.:	Rev. No.
RES		R1

ZONE #3

JAPANESE PROJECT

Public Service

SCHOOL

AREA=3,869m2

TV3

NOTES:

N

Future Extension

Green Area

Service Area

Pedestrian Roads

Existing Road

Proposed Road

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

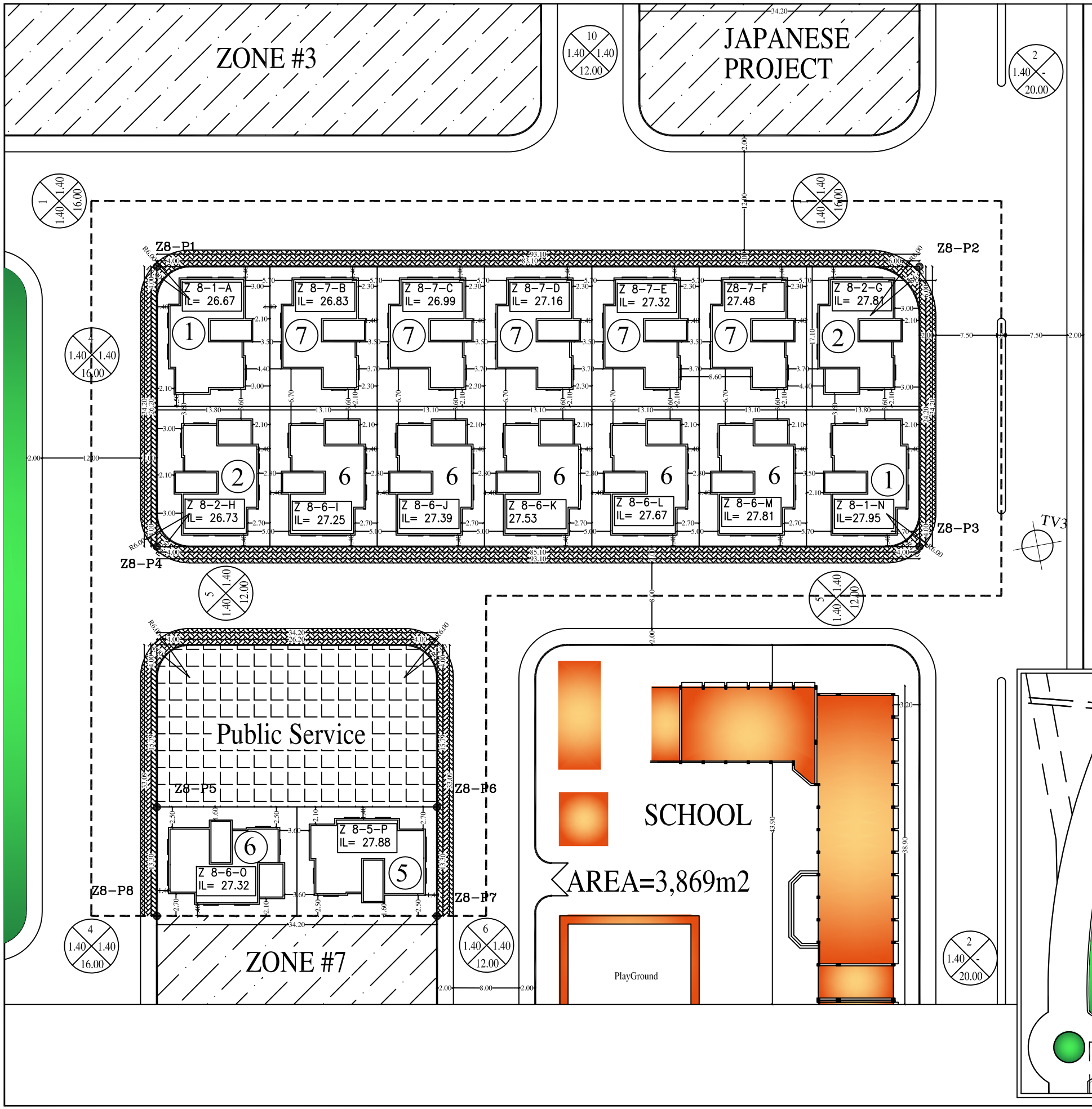
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

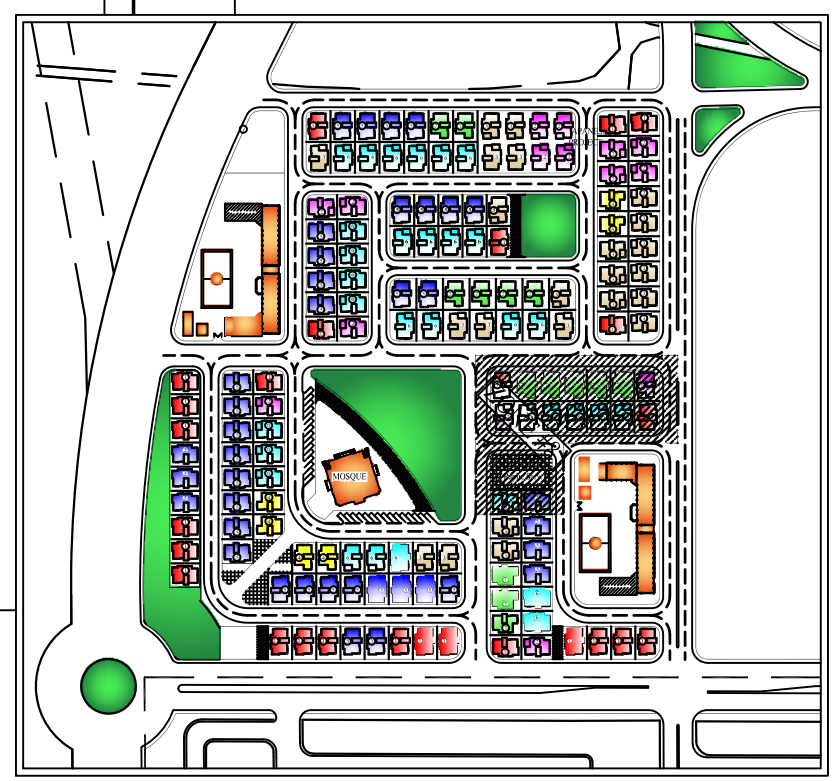
ZONE #8 / GROUND FLOOR PLAN

Symbol	Drawing No.:	Rev. No.
RES		R1



SYMBOLS KEY

Symbol	No. of Floors	Types	Total No.
1	3	LLL	2
2	3	LLS	2
5	2	LL	1
6	2	LS	6
7	2	SS	5
			16



NOTES:

Z 1-7-G
IL= 24.67

The Levels Data Are Refering To The Finish Floor (Interlock Tile) For Interance Of Building.

Coordinates for Referance Points.

N	X	y
Z8-P1	77165.650	81158.797
Z8-P2	77257.202	81175.704
Z8-P3	77263.418	81142.074
Z8-P4	77171.861	81125.166
Z8-P5	77177.635	81093.905
Z8-P6	77211.266	81100.116
Z8-P7	77213.681	81087.037
Z8-P8	77180.050	81080.826

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

ZONE #8 / Building levels

Symbol	Drawing No.:	Rev. No.
RES	P 07	R1

ZONE #3

JAPANESE PROJECT

Public Service

SCHOOL

AREA=3,869m2

TV3

NOTES:

N

Future Extension

Green Area

Service Area

Pedestrian Roads

Existing Road

Proposed Road

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

ZONE #8 / GROUND FLOOR PLAN

Symbol	Drawing No.:	Rev. No.
RES		R1

ARCHITECTURAL DRAWINGS

LL (TYPE 5)

List of Drawings- LL (Type 5)

Architectural Drawings

T5-A-01 Ground Floor Plan- Type L

T5-A-02 First Floor Plan- Type L

T5-A-03 Roof Floor Plan- Type L

T5-A-04 Furniture Plan- Typical Floor (Type L)

T5-A-05 Main Elevation- No. 1

T5-A-06 Rigth Side Elevation- No. 2

T5-A-07 Rare Elevation- No. 3

T5-A-08 Left Side Elevation- No. 4

T5-A-09 Section A---A

T5-A-10 Section B---B

Mechanical Drawings

T5-M-01 Legened, General Notes, & List of Mechanical Drawings

T5-M-02 Typical Detail of Manhole & Pipeline

T5-M-03 Drainage System for Ground Floor

T5-M-04 Drainage System for First Floor

T5-M-05 Drainage System for Second Floor

T5-M-06 Water System for First Floor

T5-M-07 Water Supply & Distribution Box

T5-M-08 Water Tanks on Stair

T5-M-09 Water System For Typical Floor

T5-M-10 Roof Floor Drainage System

Civil Drawings

T5-C-01 Axies of Columns Necks

T5-C-02 Axies of Columns

T5-C-03 Footings Plan

T5-C-04 Footings Details

T5-C-05 Footings Table

T5-C-06 Secondary Beam Plan & Details

T5-C-07 Columns Table & Details

T5-C-08 Columns & Ground Slab Details

T5-C-09 Main Ground Beams Plan

T5-C-10 Main Ground Beams Details

T5-C-11 Beam Details & Reinforcement For Typical Floor-1

T5-C-12 Beam Details & Reinforcement For Typical Floor-2

T5-C-13 Beam Details & Reinforcement For Typical Floor-3

T5-C-14 Beam Details & Reinforcement For Typical Floor-4

T5-C-15 Ribs Details & Reinforcement For Typical Floor

Electrical Drawings

T5-E-01 Legend for Electrical Fitting

T5-E-02 Earthing System

T5-E-03 Main Electrical Incoming and Distributions

T5-E-04 Distribution Boards For First Floor

T5-E-05 Power Outlets Layout For Ground Floor

T5-E-06 Power Outlets Layout For First Floor

T5-E-07 Lighting Layout For Ground Floor

T5-E-08 Lighting Layout For First Floor

T5-E-09 Intercom, TV. and Telephone Layout For Ground Floor

T5-E-10 Intercom, TV. and Telephone For First Floor

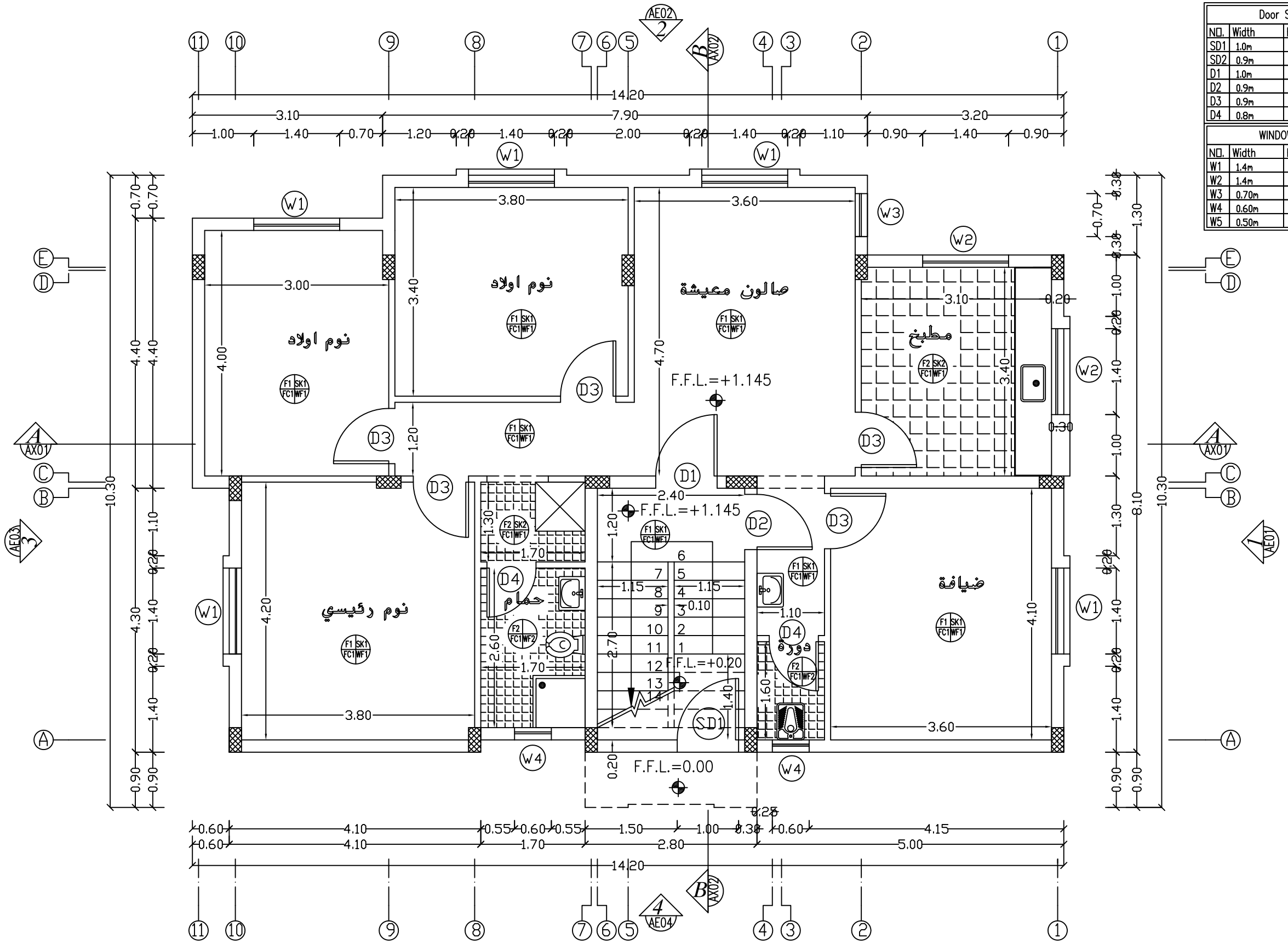
T5-E-11 Typical Distribtion Board For Staircase

T5-E-12 Tv., Tel., Sat and Intercom Riser Diagram

T5-E-13 Power Riser Diagram

T5-E-14 Typical Flat Distribtion Board

T5-E-15 Main Distribution Board, Single Line Diagram



GROUND FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

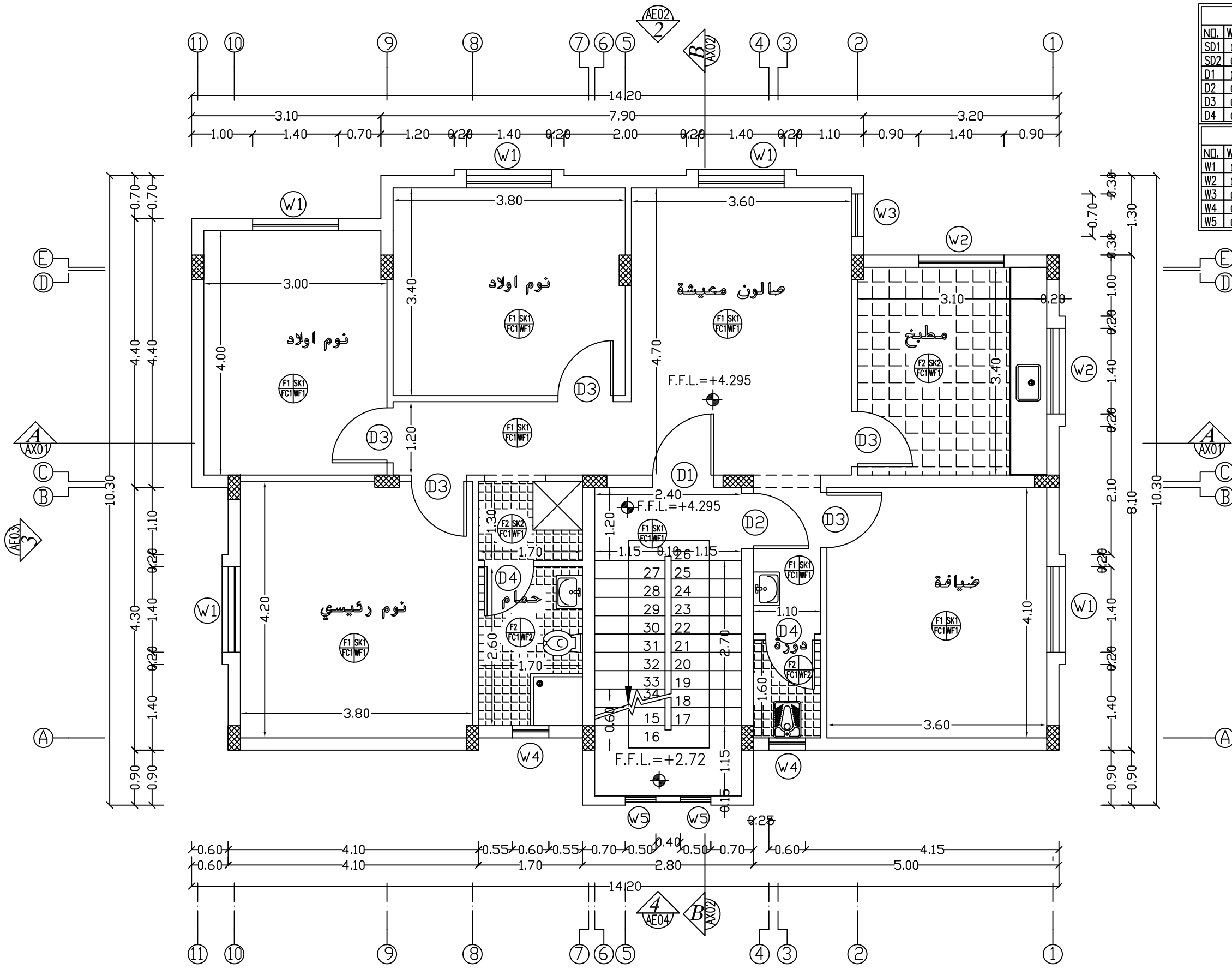
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Ground Floor Plan
Type L

Symbol	Drawing No.:	Rev. No.
RES	T5-A01	R1



FIRST FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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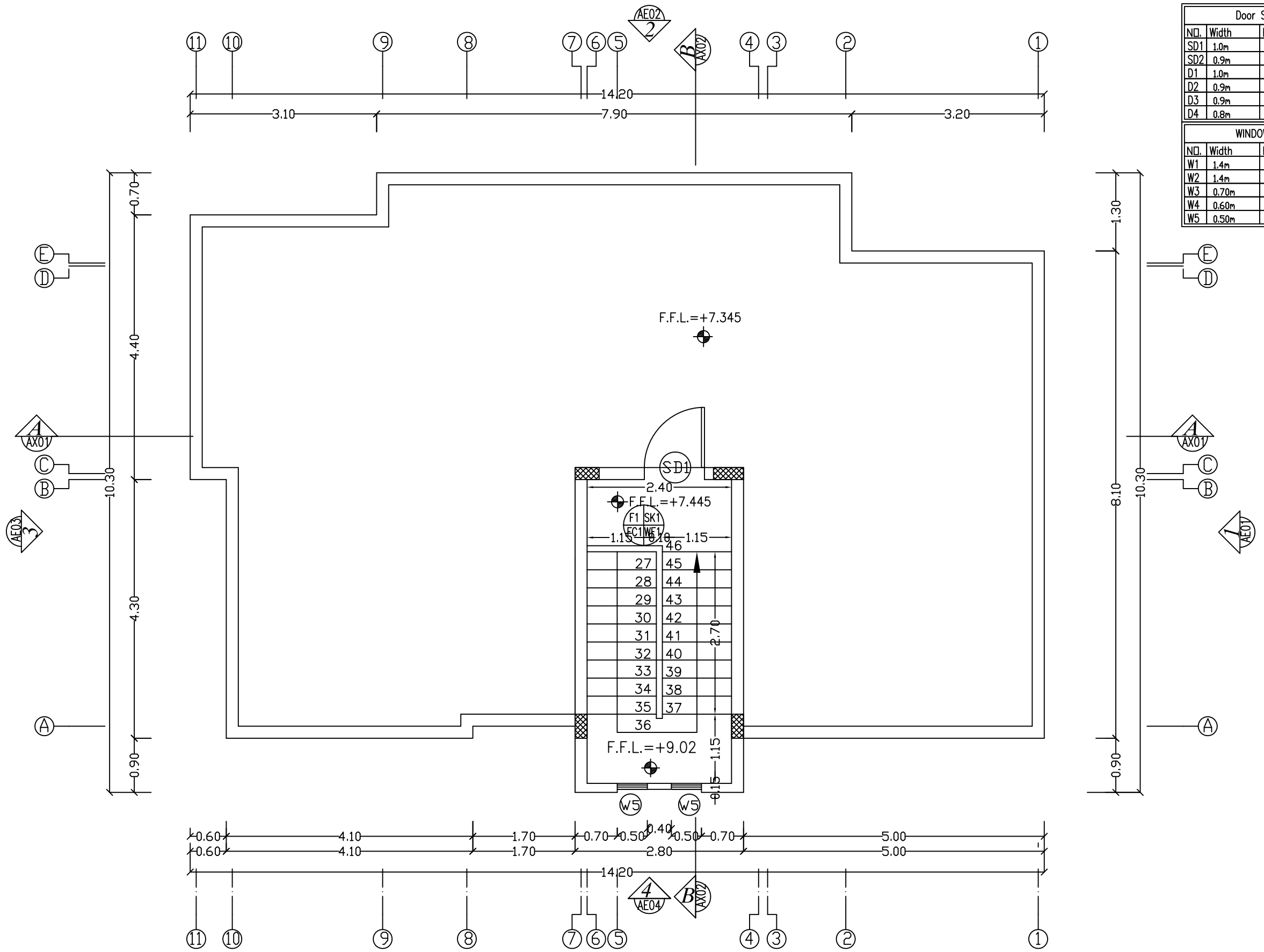
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

First Floor Plan
Type L

Symbol	Drawing No.:	Rev. No.
RES	T5-A02	R1



ROOF FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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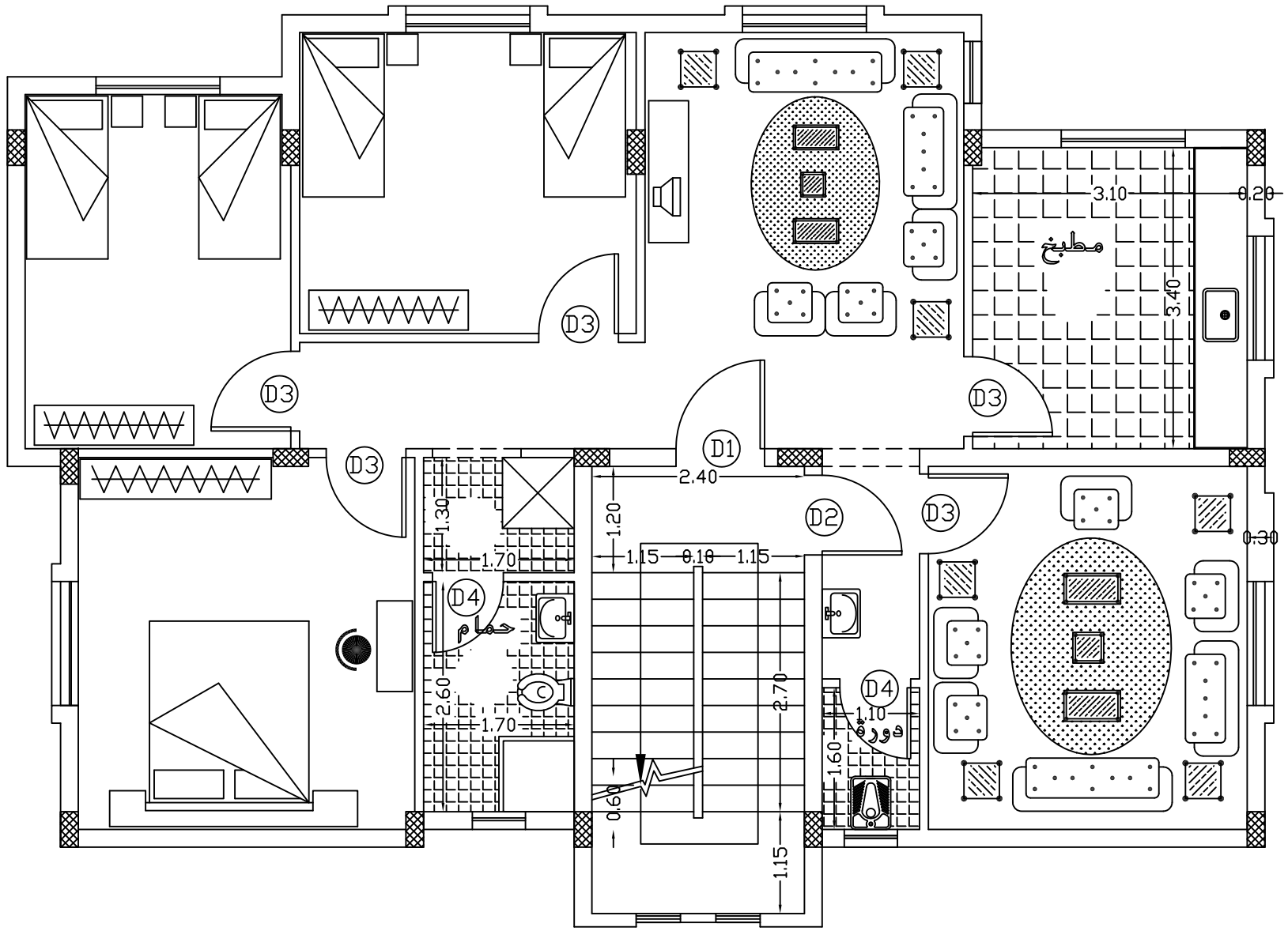
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Roof Floor Plan
Type L

Symbol	Drawing No.:	Rev. No.
RES	T5-A03	R1



FURNITURE PLAN TYPICAL FLOOR

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

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*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
3			
2			
1			

Revisions

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PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

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PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Furniture Plan Typical Floor
Type L

Symbol	Drawing No.:	Rev. No.
RES	T5-A04	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

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*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
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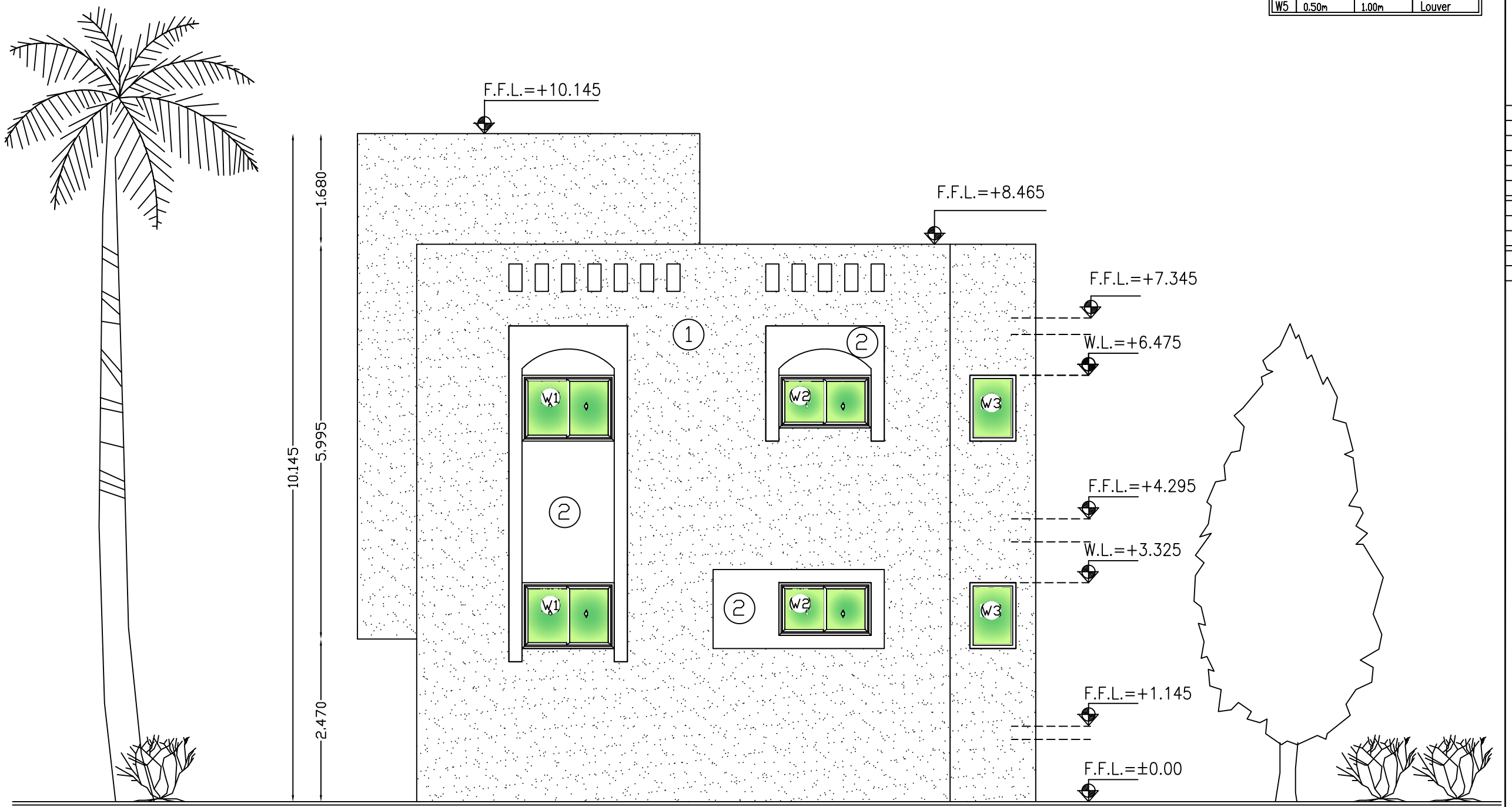

Main Elevation

NO. 1

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Elevation NO. 1

Symbol	Drawing No.:	Rev. No.
RES	T5-A05	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
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*SK2–Non Slip Ceramic Skirting 1*7cm.
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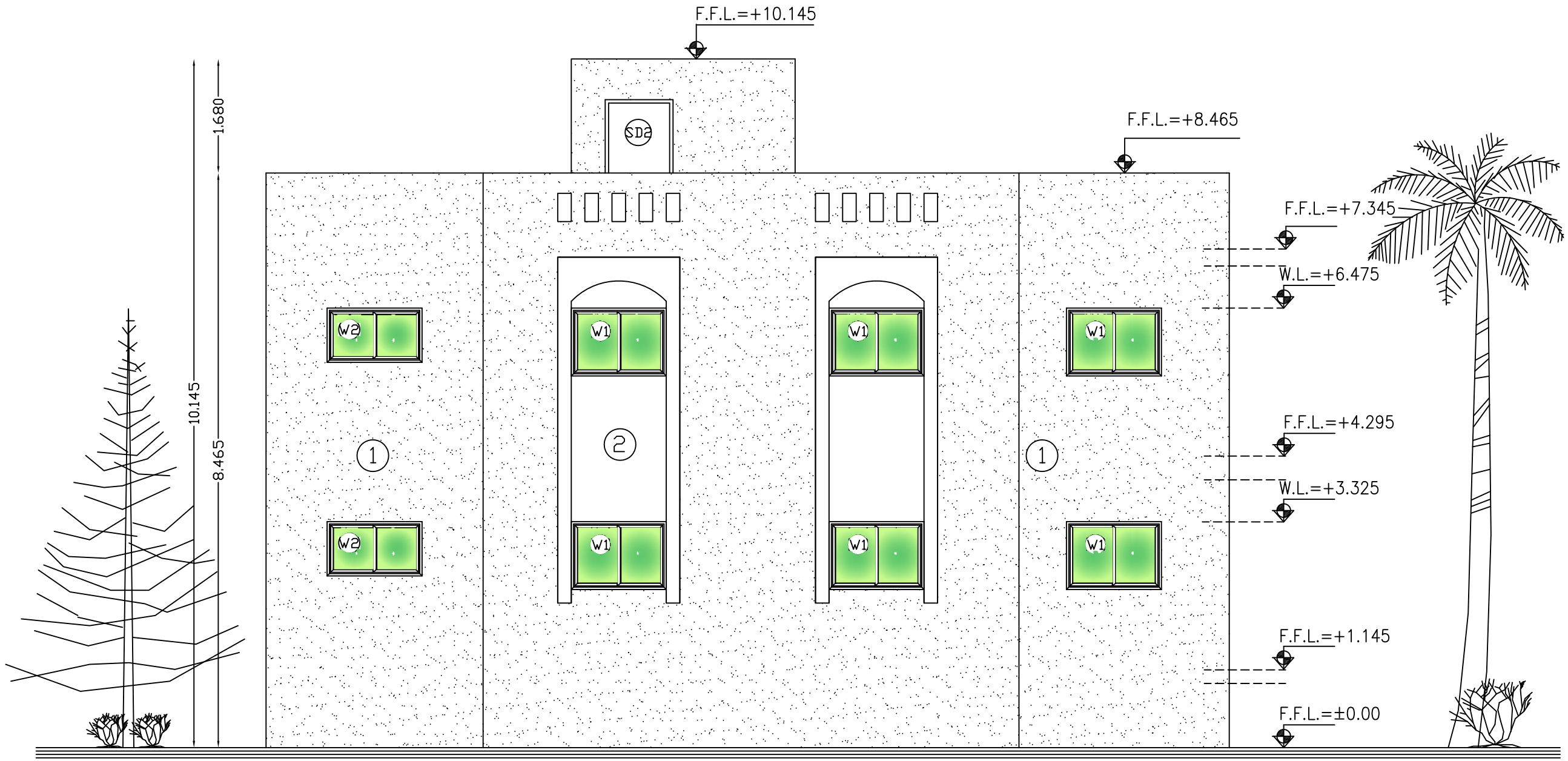


Right Side Elevation

NO. 2

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

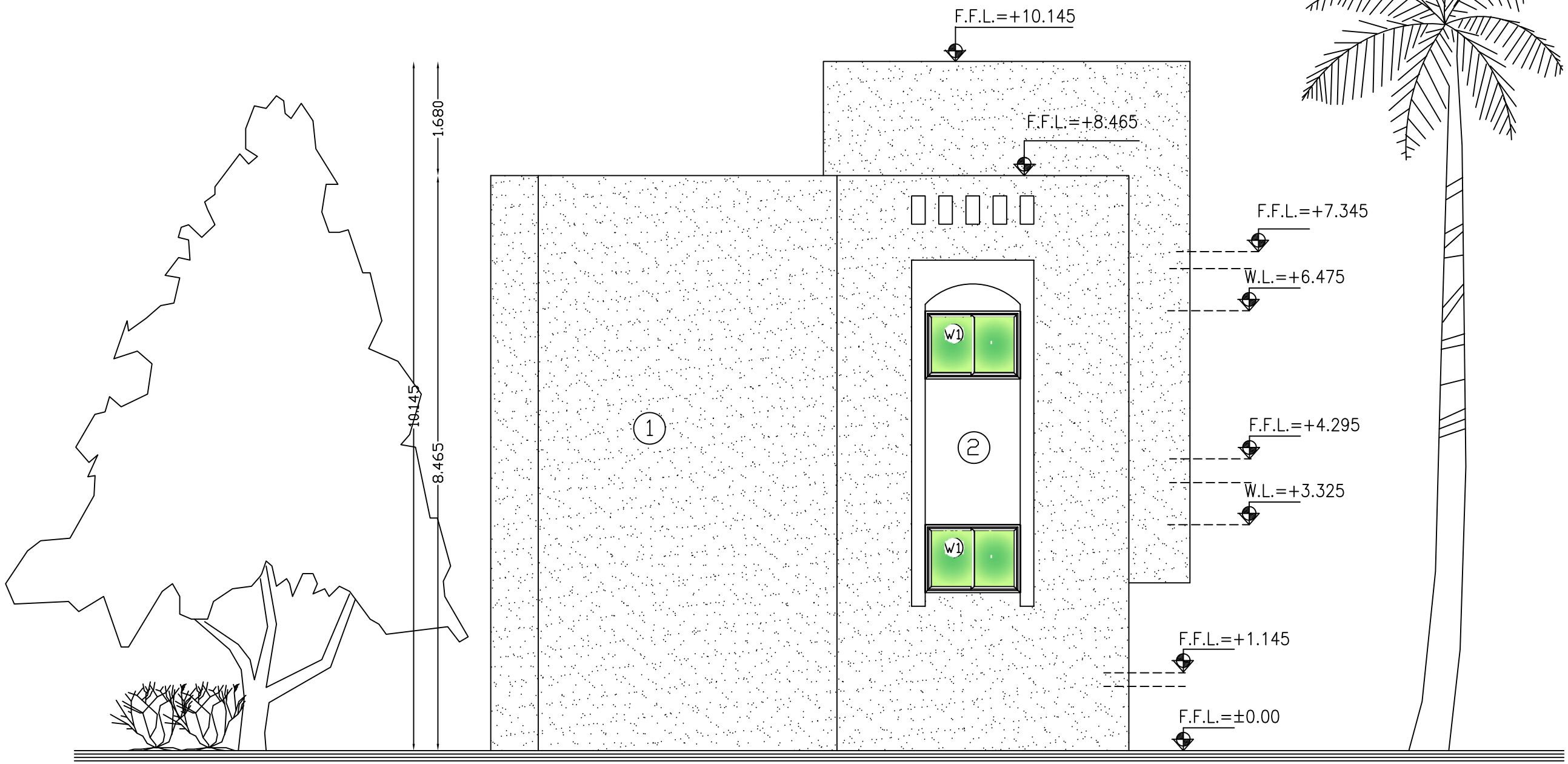
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Right Side Elevation NO. 2

Symbol	Drawing No.:	Rev. No.
RES	T5-A06	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver



Rare Elevation

NO. 3

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
3			
2			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Rare Elevation
NO. 3

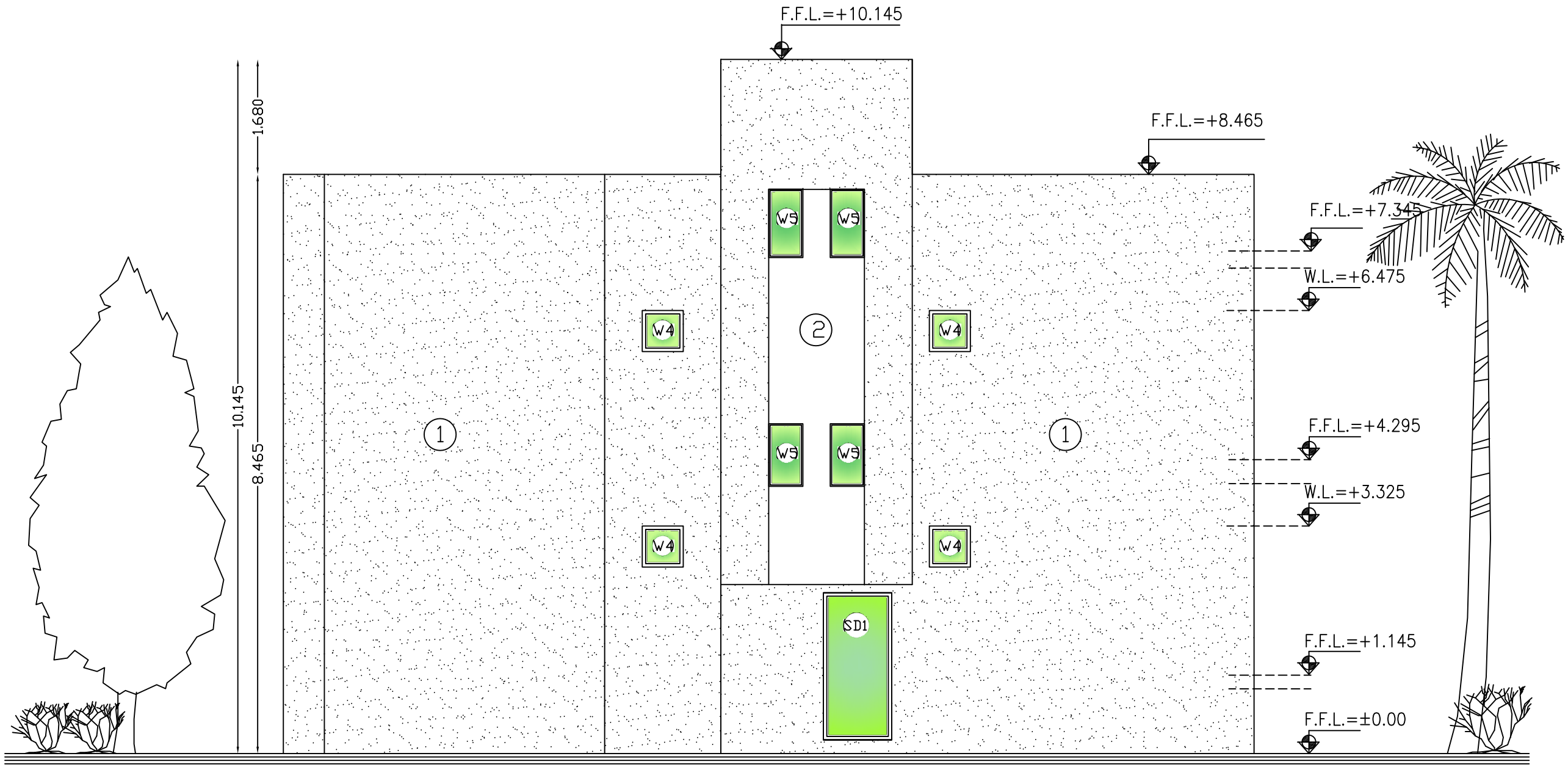
Symbol	Drawing No.:	Rev. No.
RES	T5-A07	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Left Side Elevation

NO. 4

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

اللجنة السعودية لإغاثة الشعب الفلسطيني

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Left Side Elevation NO. 4

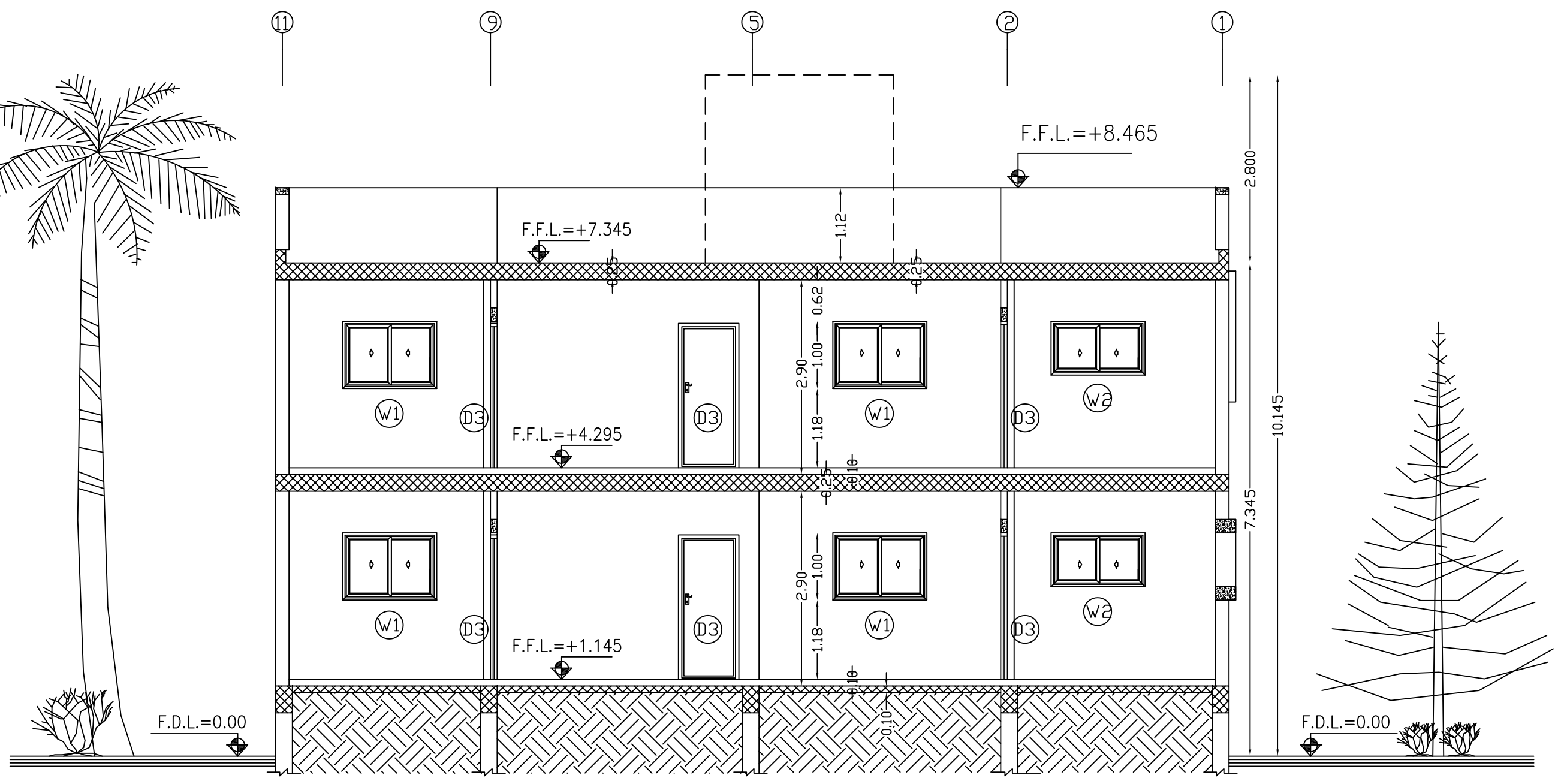
Symbol	Drawing No.:	Rev. No.
RES	T5-A08	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Section A___A

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

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IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Section A----A

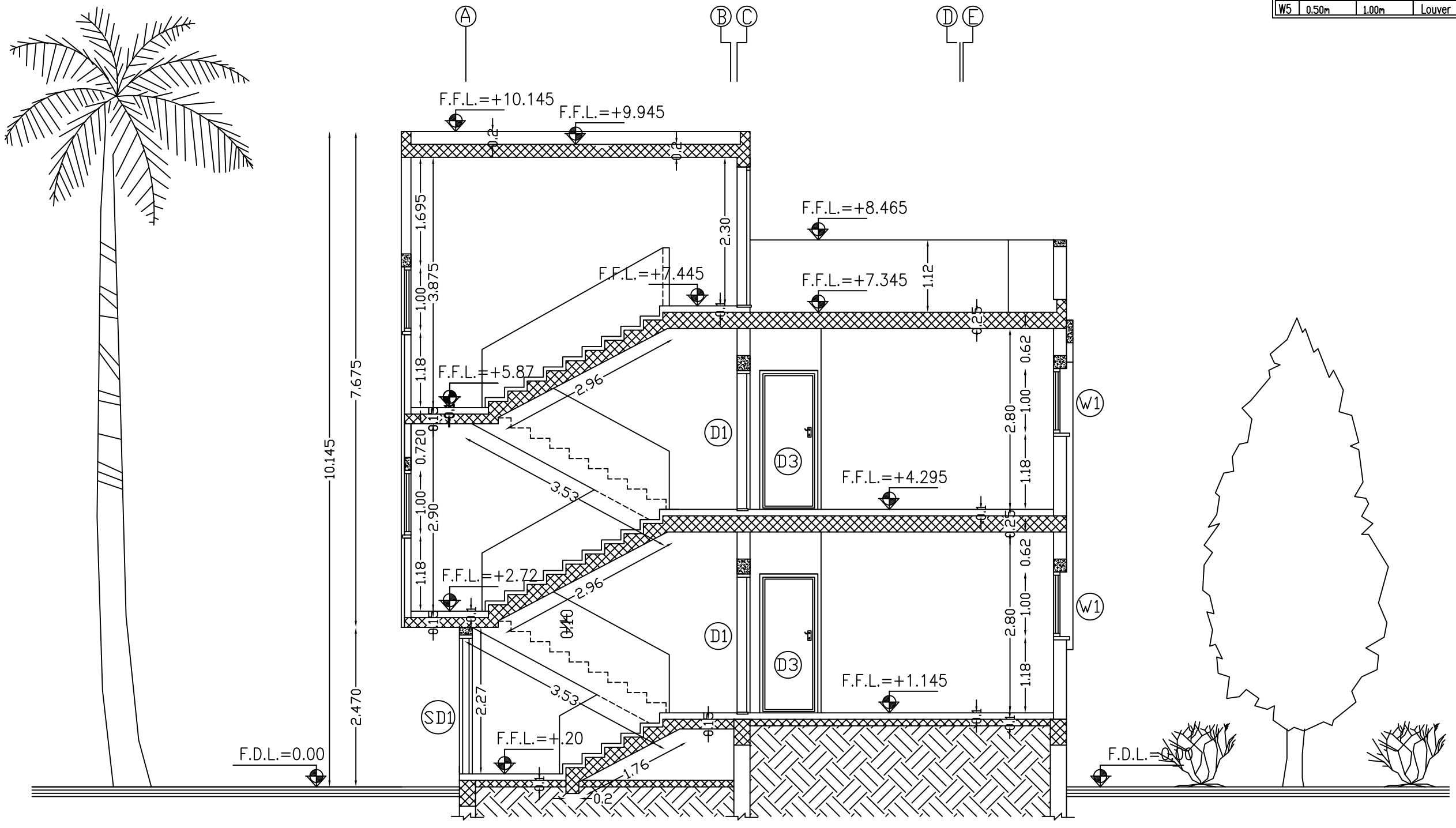
Symbol	Drawing No.:	Rev. No.
RES	T5-A09	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Section B____B

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Section B----B

Symbol	Drawing No.:	Rev. No.
RES	T5-A10	R1

LEGEND, ABBREVIATIONS AND SYMBOLS

BD	⊠	BALCONY DRAIN
BDR		BALCONY DRAIN RISER
CW		COLD WATER PIPE
MH	◯	MANHOLE
RW		RAIN WATER PIPE
——		Cold water
- - -		Hot water
WDB		BOX
– –◯		FLOAT VALVE
– –		GATE VALVE
–NC–		NORMALLY CLOSED VALVE
		GLOBE VALVE
		BUTTERFLY VALVE
		SOLINOID VALVE
R.W.P		RAIN WATER PIPE WITH FLOOR TRAP
		2" UPVC DRINAG PIPE
		4" UPVC DRAINAG PIPE
		6" UPVC PIPE (MANHOLE CONECTION)
F.T		4''UPVC B.D.P BALCONY DRAIN PIPE
◯◯		4"UPVC RISER SOLID, FLUID WASTE
F.T		FLOOR TRAP
		WATER METER 3/4"

SANITARY FIXTURES CONNECTION

UNLESS OTHERWISE NOTED THE CONNECTIONS FOR THE FIXTURE UNITS WILL BE AS FOLLOWS .

KS	KITCHEN SINK	2" (50 mm)
JS/LS	JANITOR SINK/LAVATORY	2" (50 mm)
WB/LAV	HAND WASH BASIN	2" (50 mm)
WC	WATER CLOSET	4" (100 mm)
W/M	WASHING MACHINE	2" (50 mm)
FD	FLOOR DRAIN	3" (75 mm)

NOTES:

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

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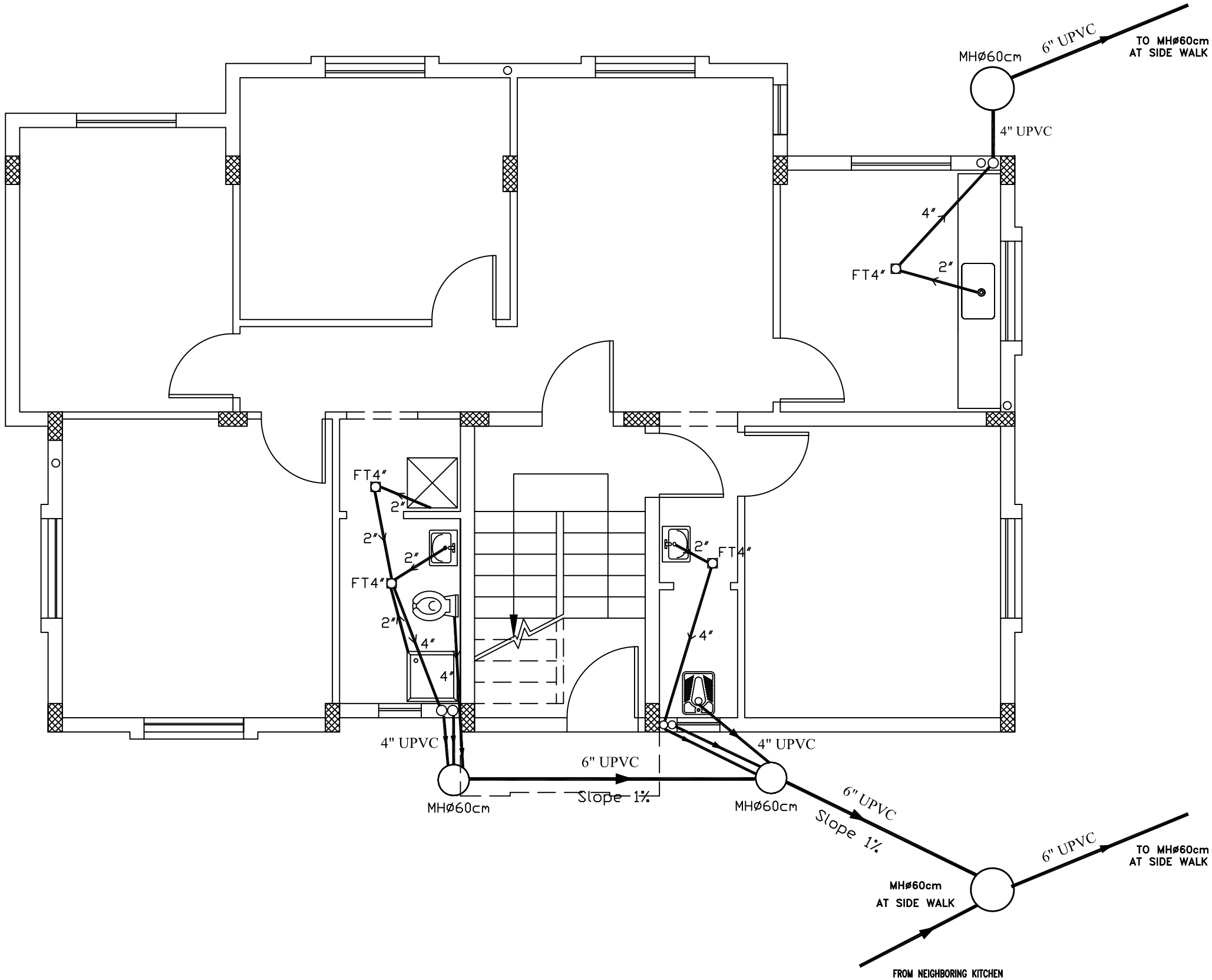
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Legend, General Notes & List of Mechanical Drawings

Symbol	Drawing No.:	Rev. No.
RES	T5 - M 01	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4''UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

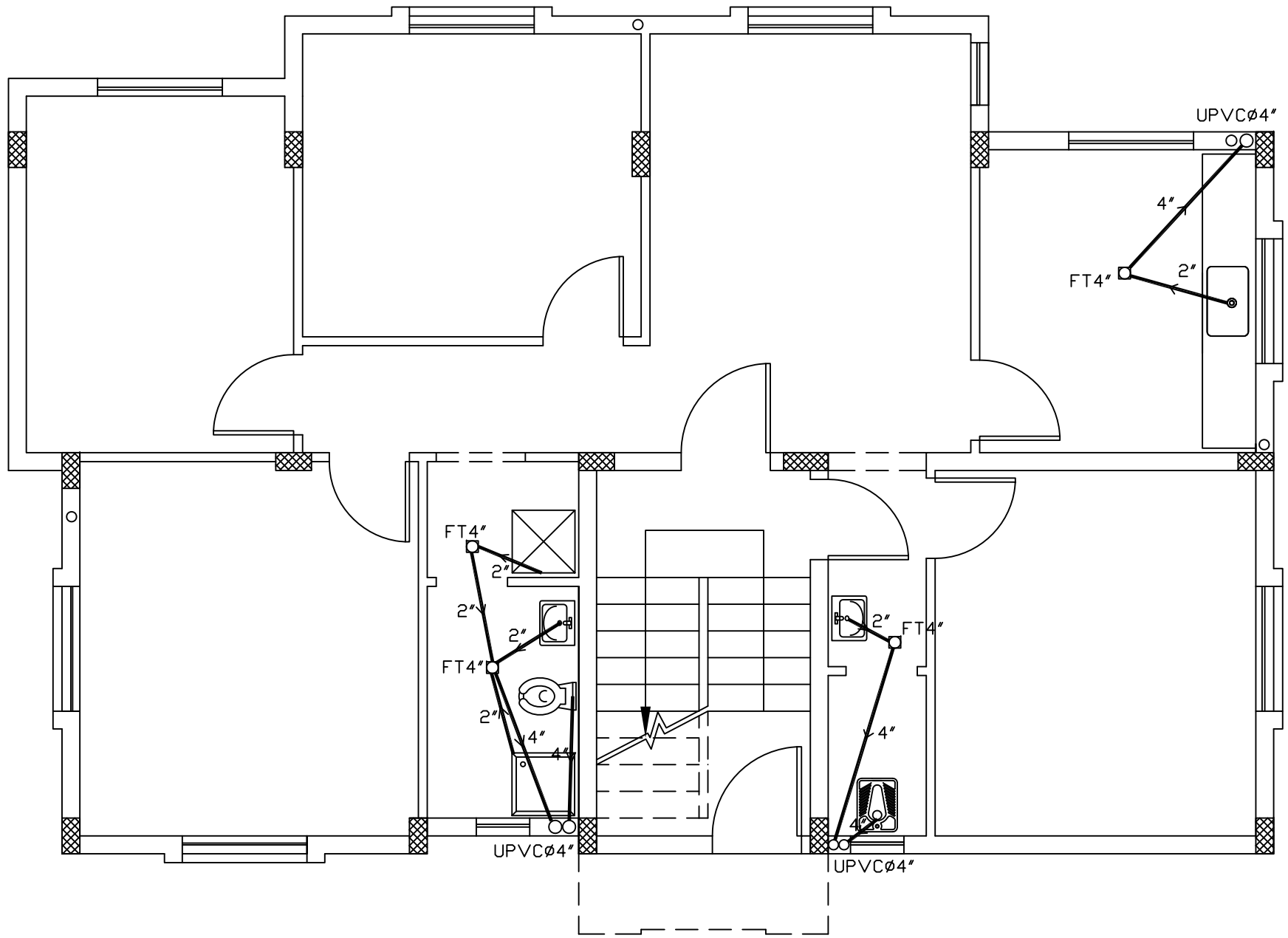
UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Typical Detail Of Manhole & Pipeline

Symbol	Drawing No.:	Rev. No.
RES	T5 - M 02	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

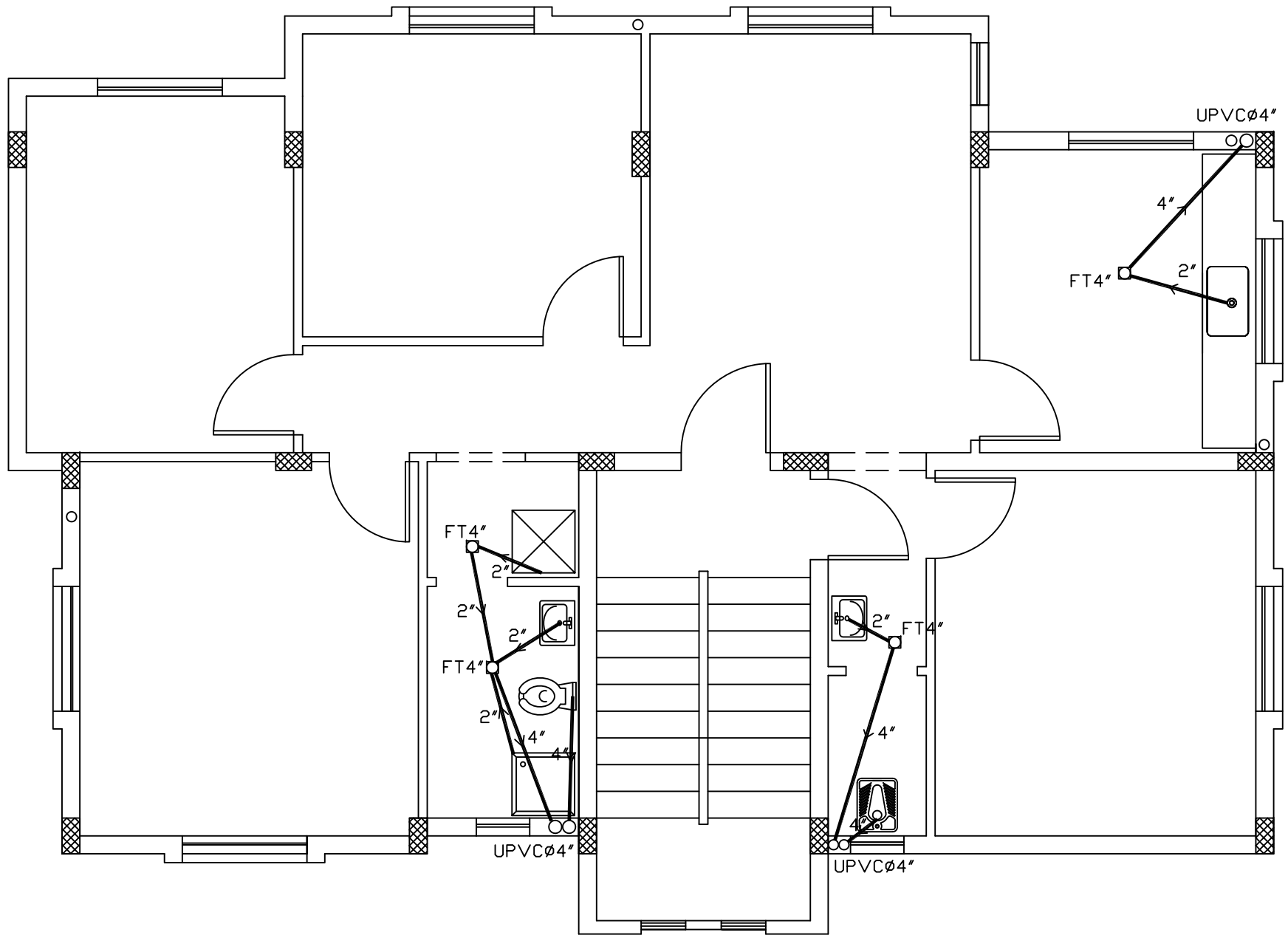
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Drainage System for Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	*T5 - M 03*	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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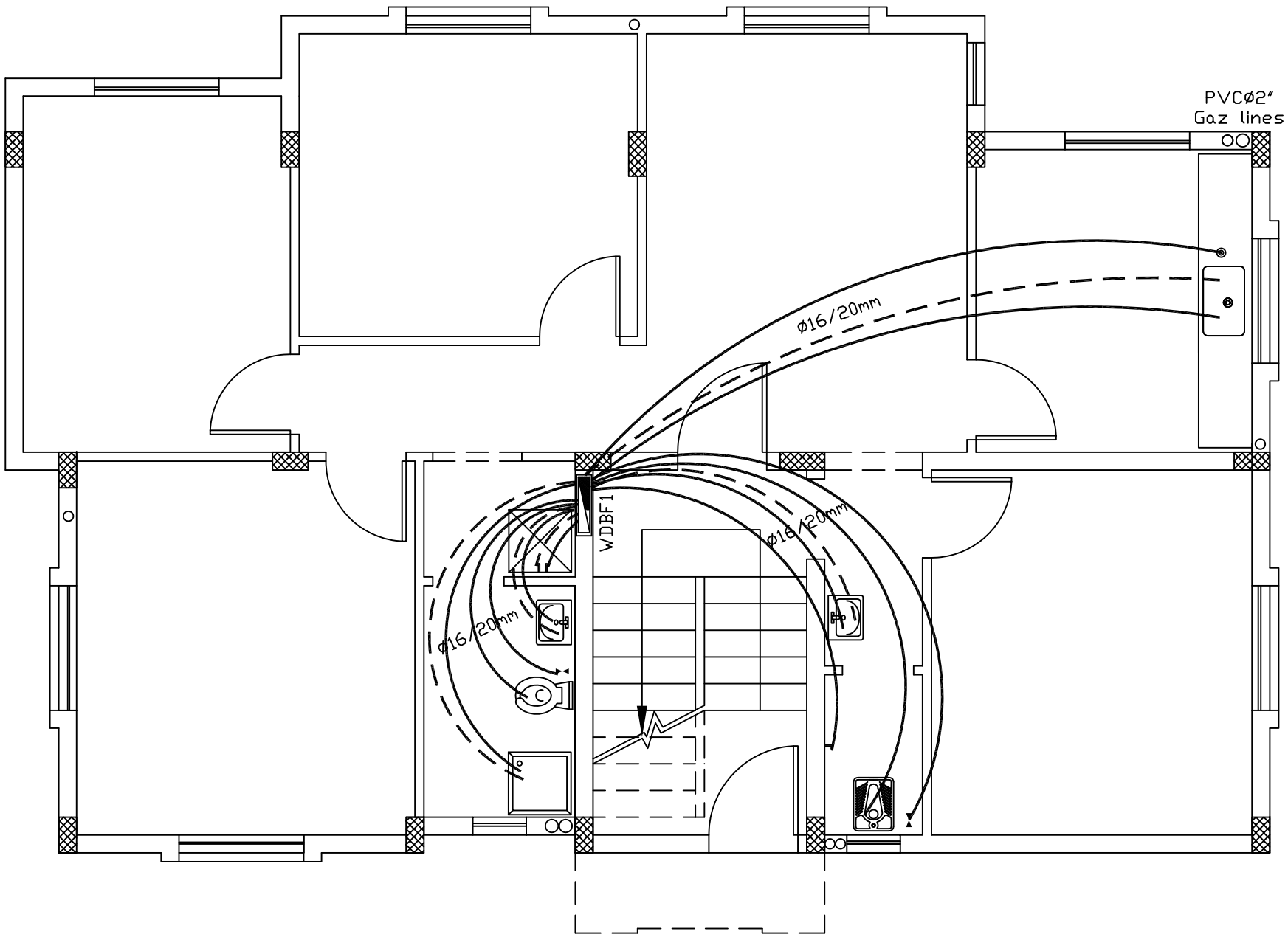
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Drainage System for First Floor

Symbol	Drawing No.:	Rev. No.
RES	T5 - M 04	R1



NOTES:

———	COLD (GOLLANI)
- - - -	HOT (GOLLANI)
EWH	WATER HEATER 150 LITERS
WDB	BOX
F.H	2" HOSE REEL 3/4
⋈ 2"w.o	WASH OUT VALVE
3/4" A.V	WATER AIR VENT
3/4" w.i	
R.W.T & FH. L.	
⊣⊢	
	WATER METER 3/4"

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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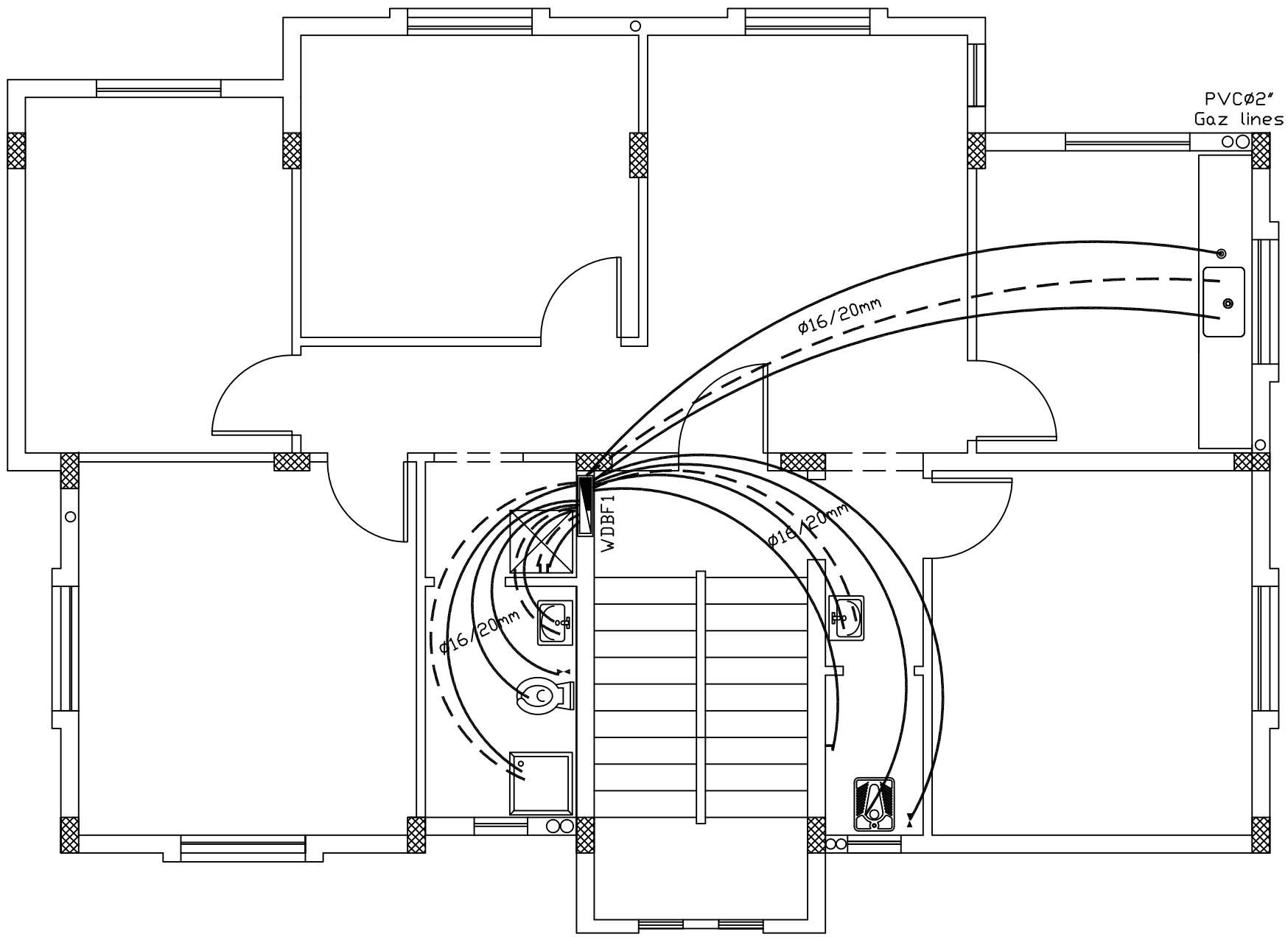
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water System for Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	*T5 - M 05*	R1



NOTES:

———	COLD (GOLLANI)
- - - -	HOT (GOLLANI)
EWH	WATER HEATER 150 LITERS
WDB	BOX
F.H	2" HOSE REEL 3/4
⋈ 2"w.o	WASH OUT VALVE
3/4" A.V	WATER AIR VENT
3/4" w.i	
R.W.T & FH. L.	
⊣⊢	
	WATER METER 3/4"

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

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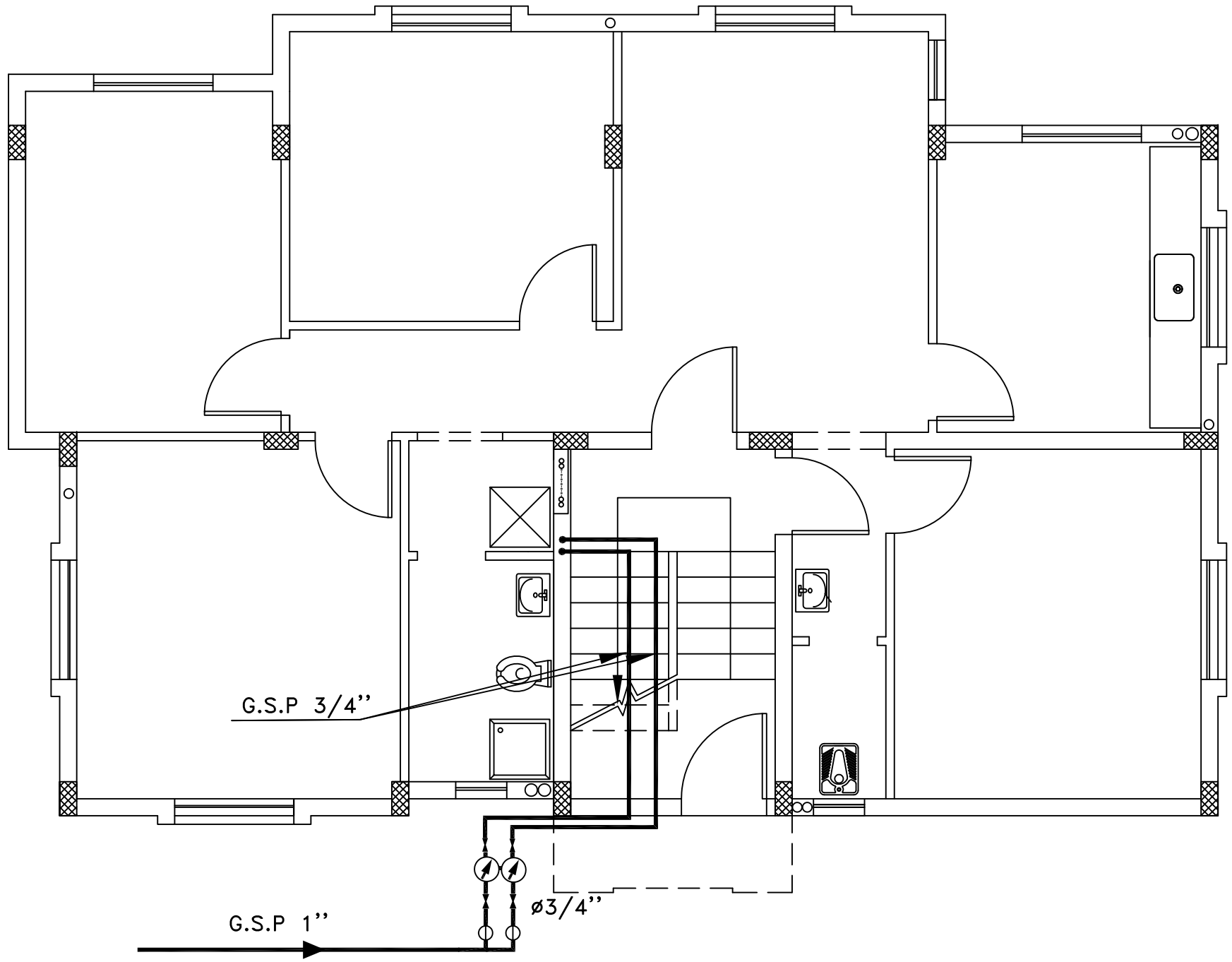
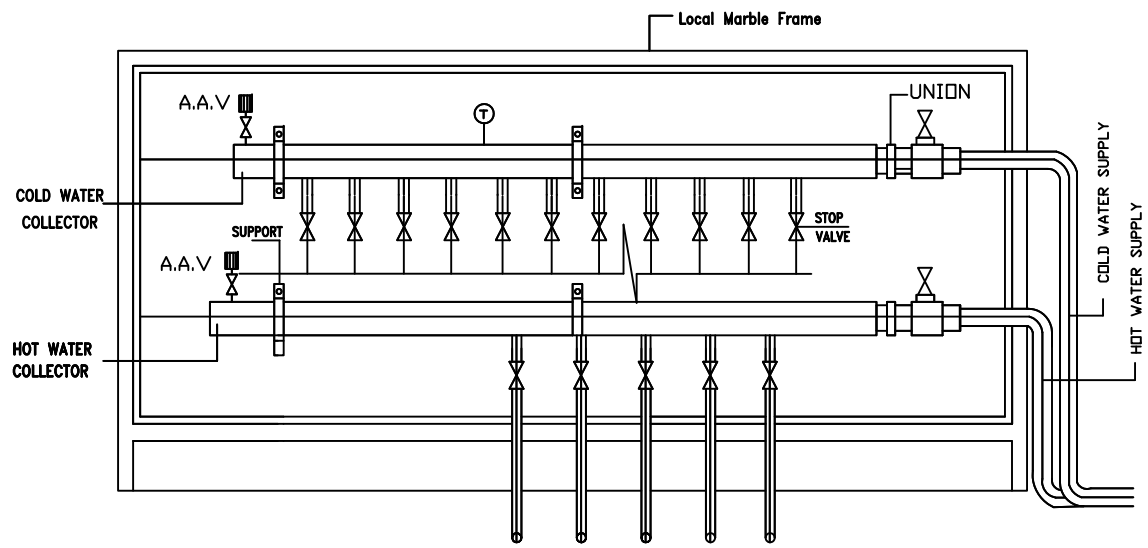
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water System for First Floor

Symbol	Drawing No.:	Rev. No.
RES	*T5 - M 06*	R1





DISTRIBUTION BOX

Size of DB according to actual outlets

NOTES:

- COLD (GOLLANI)
- HOT (GOLLANI)
- EWH — WATER HEATER 150 LITERS
- WDB — BOX
- F.H — 2''
- HOSE REEL 3/4
- 2''w.o — WASH OUT VALVE
- 3/4'' A.V — WATER AIR VENT
- 3/4'' w.i
- R.W.T & FH. L.
- WATER METER 3/4"

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

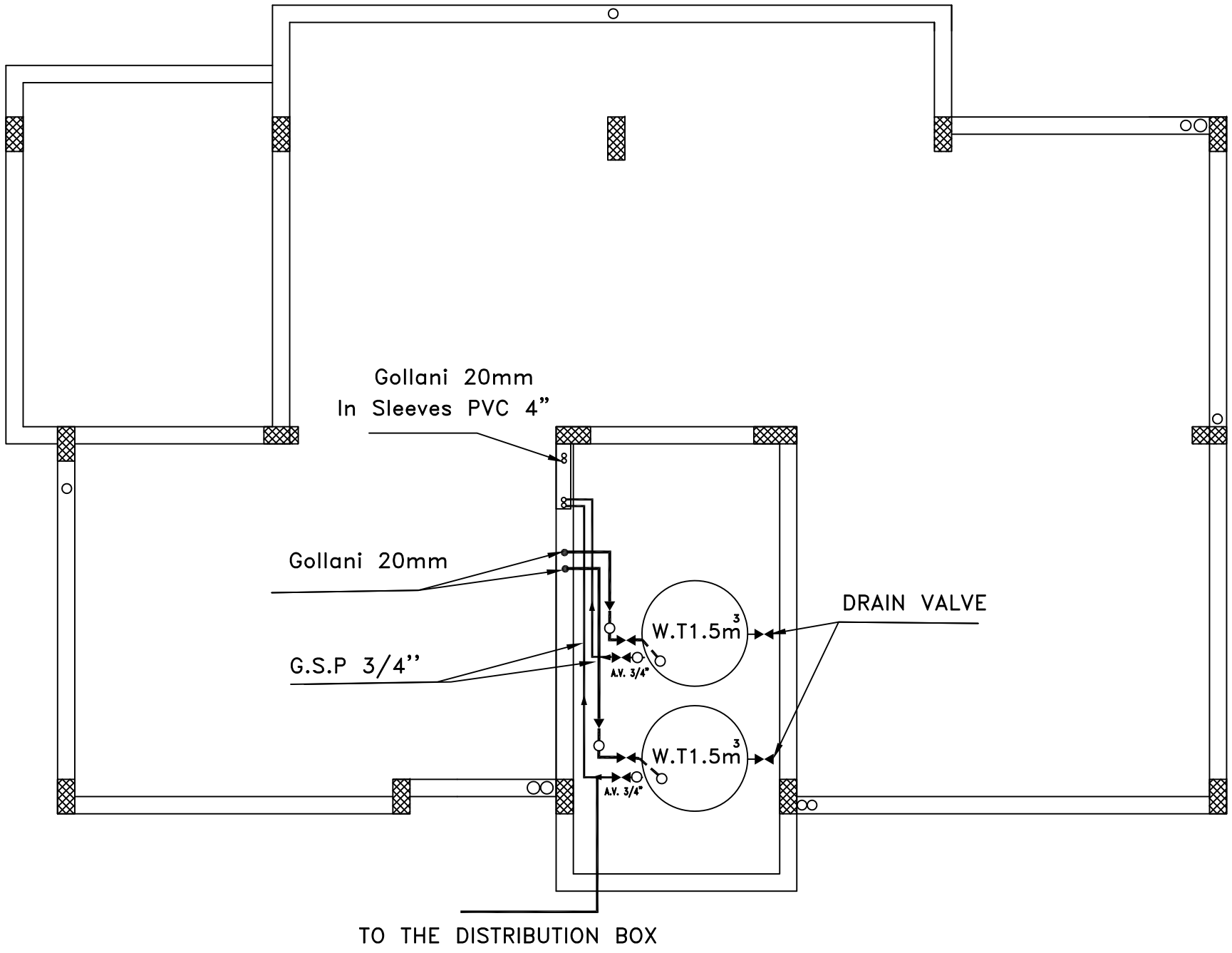
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water Supply And Distribution Box

Symbol	Drawing No.:	Rev. No.
RES	*T5 - M 07*	R1



NOTES:

- COLD (GOLLANI)
- HOT (GOLLANI)
- EWH — WATER HEATER 150 LITERS
- WDB — BOX
- F.H — 2''
- HOSE REEL 3/4
- 2''w.o — WASH OUT VALVE
- 3/4'' A.V — WATER AIR VENT
- 3/4'' w.i
- R.W.T & FH. L.
- WATER METER 3/4"

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

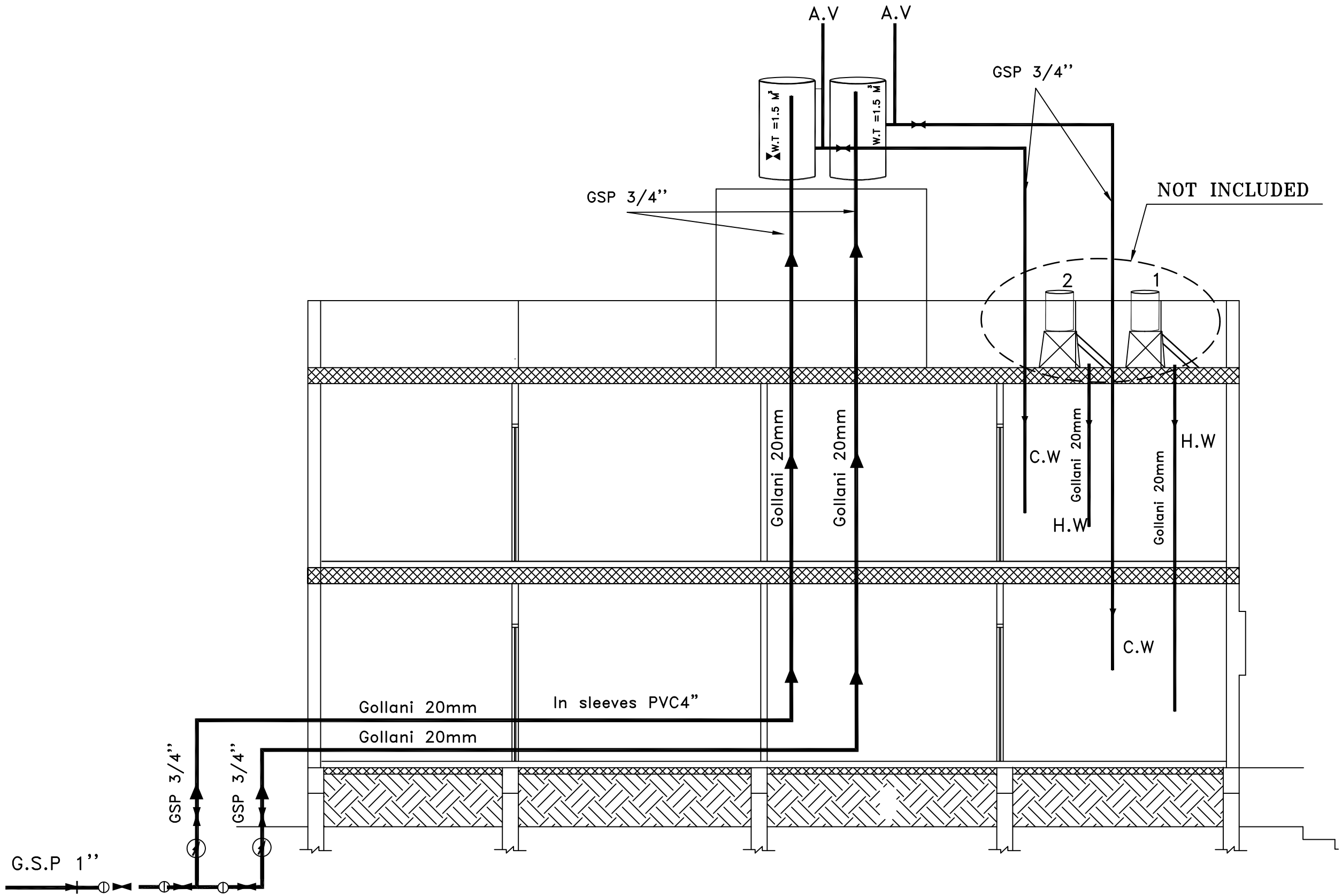
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water Tanks on Stair

Symbol	Drawing No.:	Rev. No.
RES	*T5 - M 08*	R1



NOTES:

- COLD (GOLLANI)
- HOT (GOLLANI)
- EWH — WATER HEATER 150 LITERS
- WDB — BOX
- F.H — 2''
- HOSE REEL 3/4
- 2''w.o — WASH OUT VALVE
- 3/4'' A.V — WATER AIR VENT
- 3/4'' w.i
- R.W.T & FH. L.
- WATER METER 3/4"

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

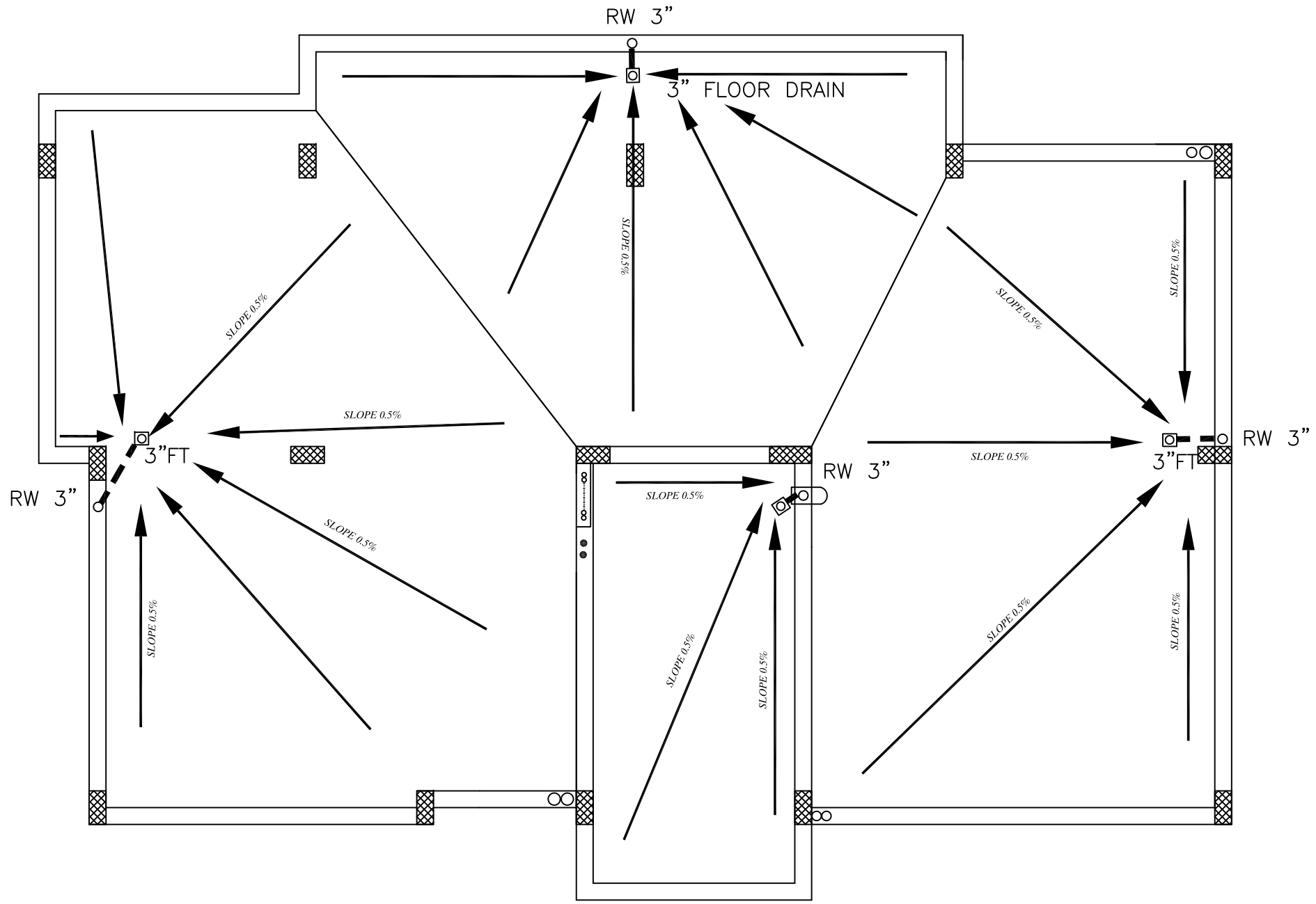
UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water System For Typical Floor

Symbol	Drawing No.:	Rev. No.
RES	*T5 - M 09*	R1



NOTES:

——— COLD (GOLLANI)

- - - - HOT (GOLLANI)

EWH WATER HEATER 150 LITERS

WDB BOX

F.H 2"

HOSE REEL 3/4

2"w.o WASH OUT VALVE

3/4" A.V WATER AIR VENT

3/4" w.i

R.W.T & FH. L.

WATER METER 3/4"

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

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IMPLEMENTED BY:

UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Roof Floor Drainage System

Symbol	Drawing No.:	Rev. No.
RES	T5 - M 10	R1

CIVIL DRAWINGS

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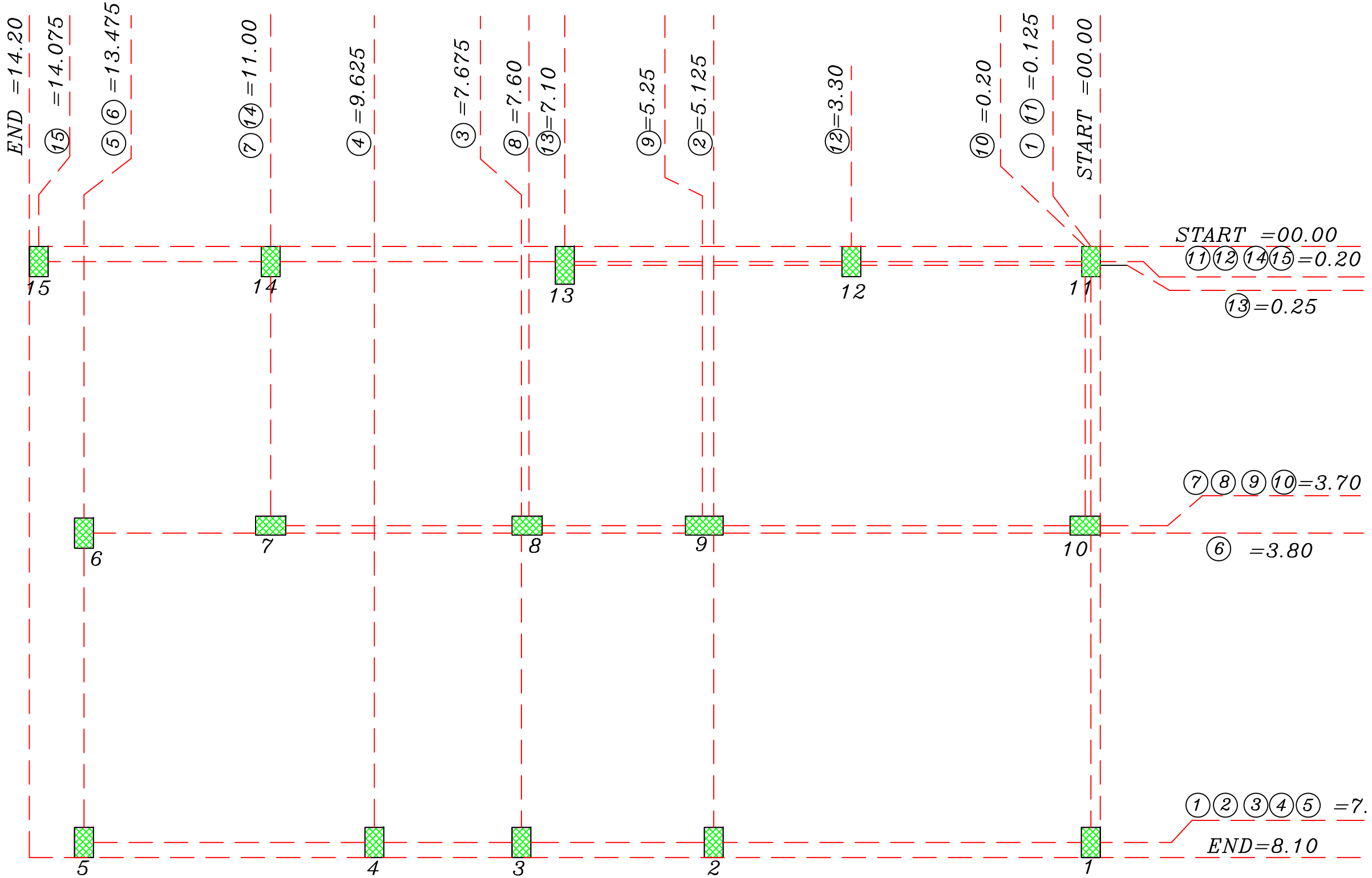

Axies Of Columns Necks

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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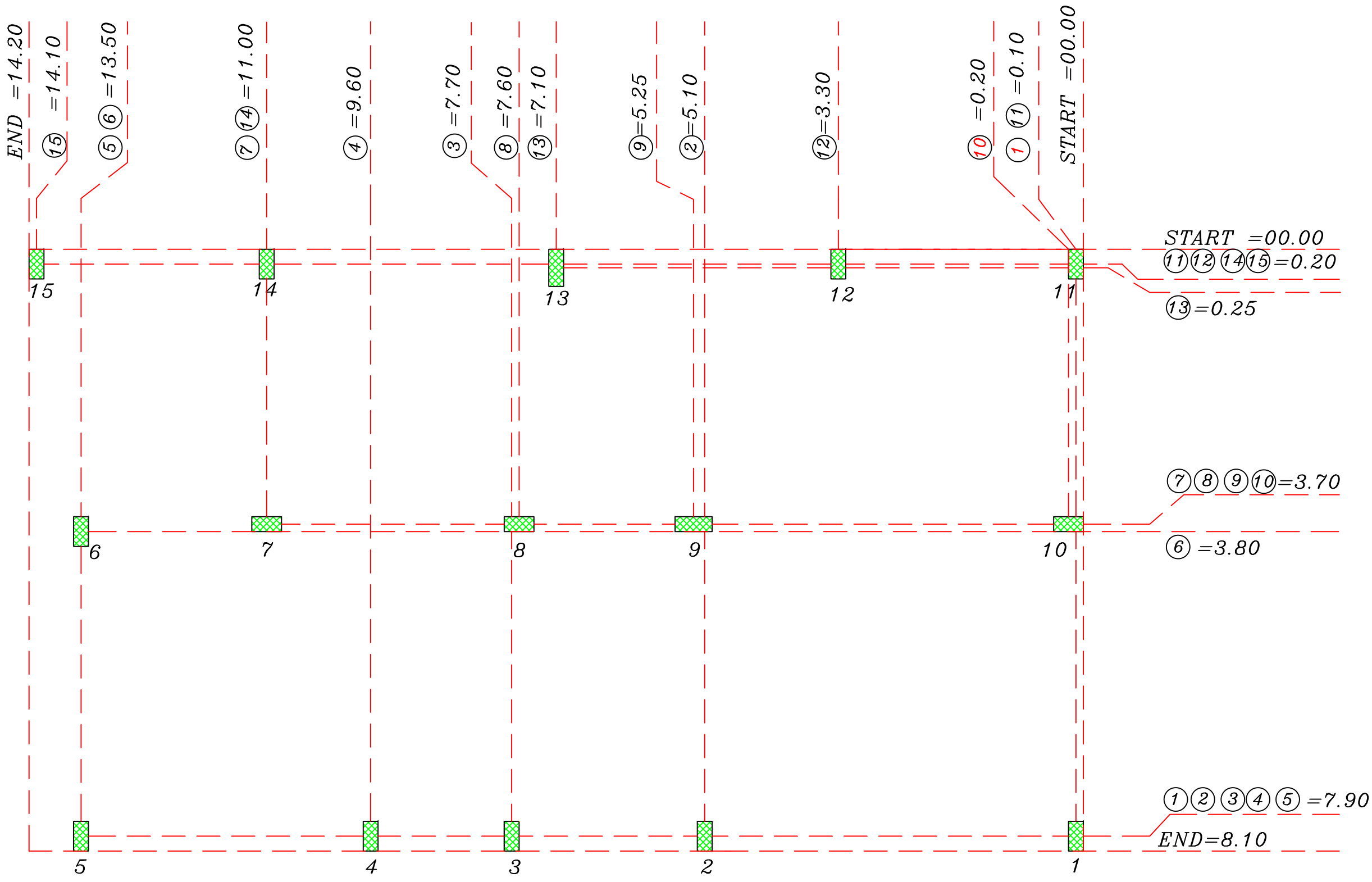
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Axies Of Column Necks

Symbol	Drawing No.	Rev. No.
RES	T5-C 01	R1



Axies Of Columns

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm²)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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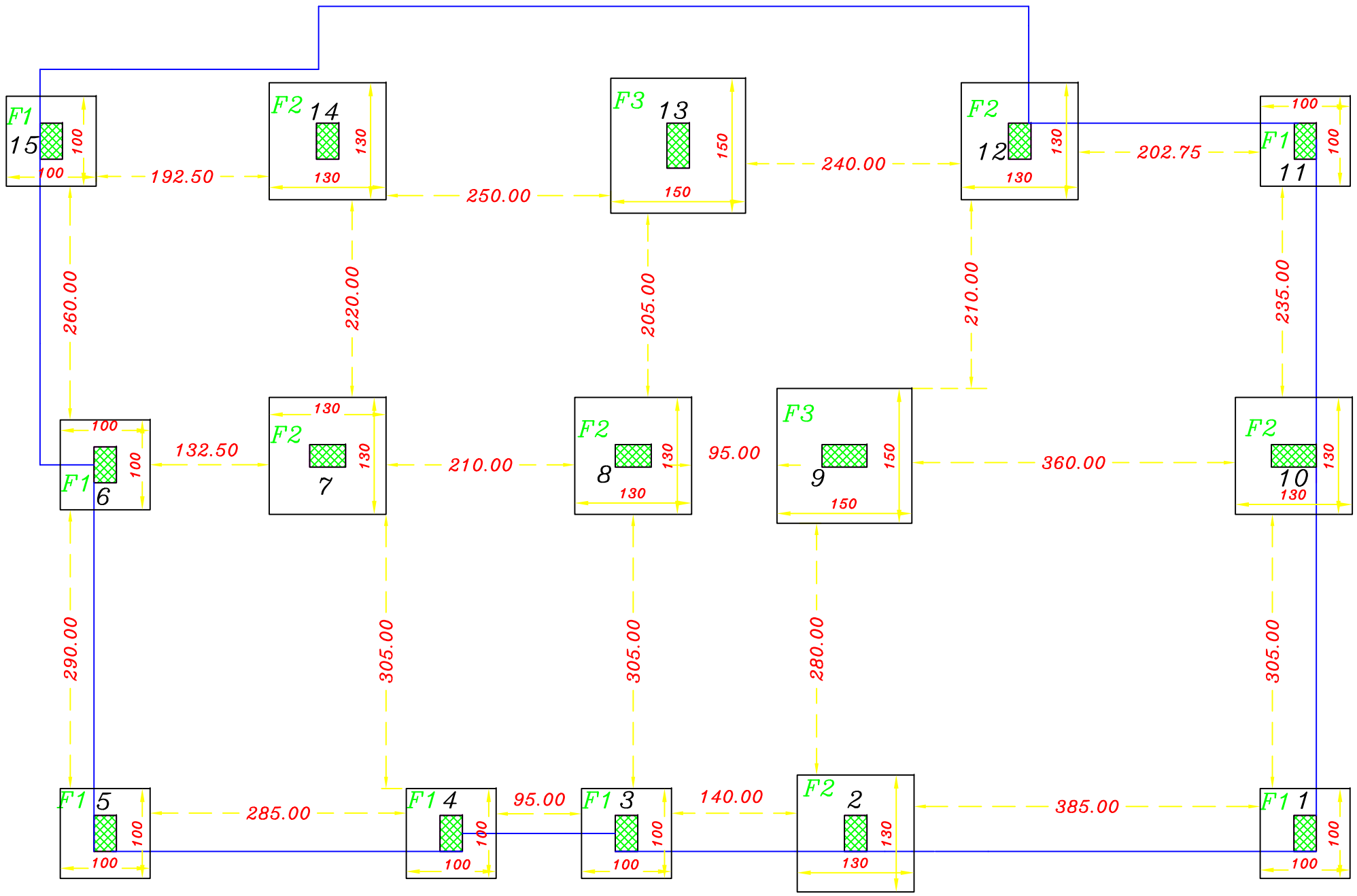
UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Axies Of Columns

Symbol	Drawing No.	Rev. No.
RES	T5- C 02	R1



Footings Plan

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
- All Dimensions in cm

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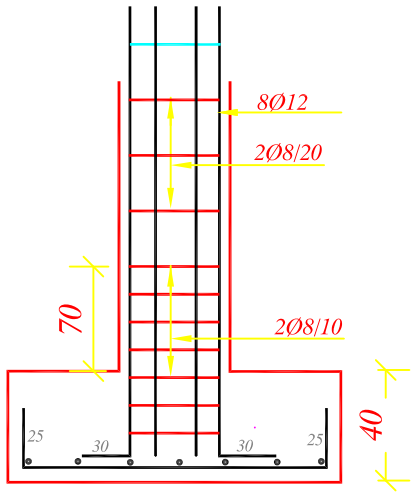
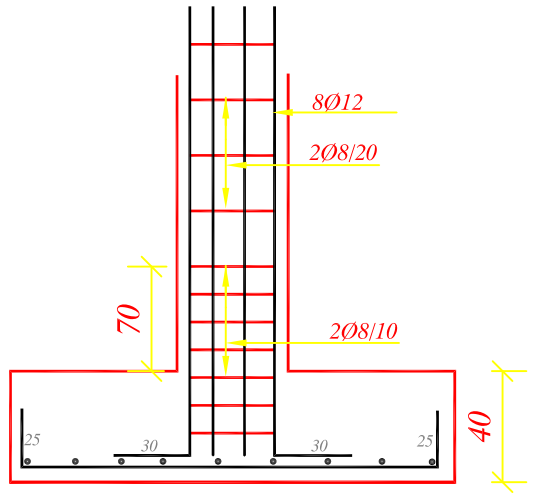
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Footings Plan

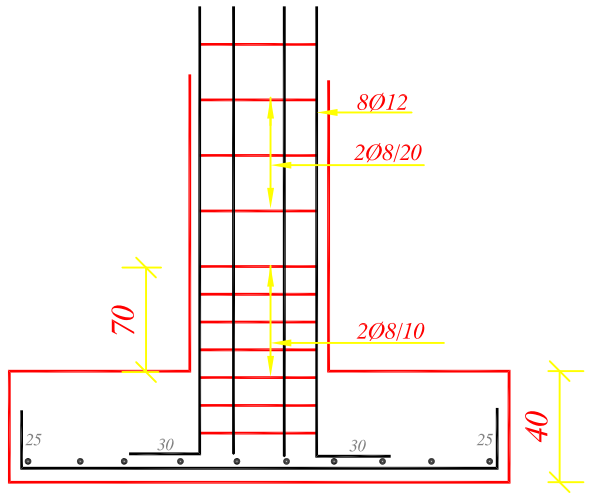
Symbol	Drawing No.	Rev. No.
RES	T5- C 03	R1



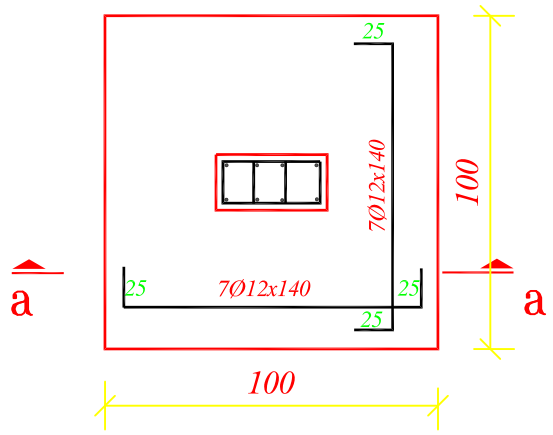
SECTION (a-a)



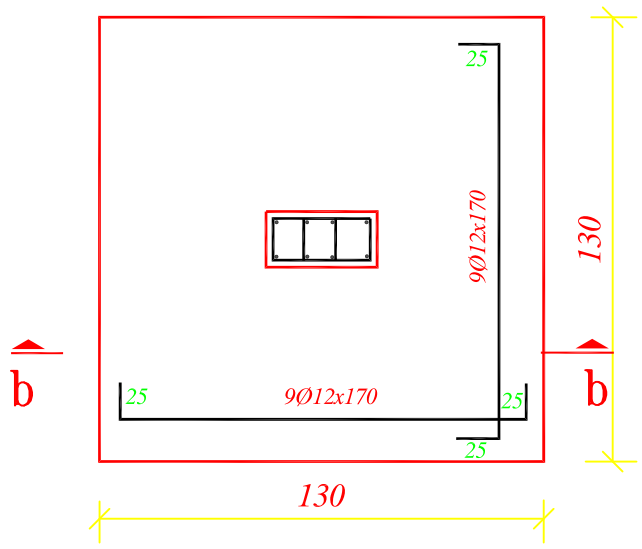
SECTION (b - b)



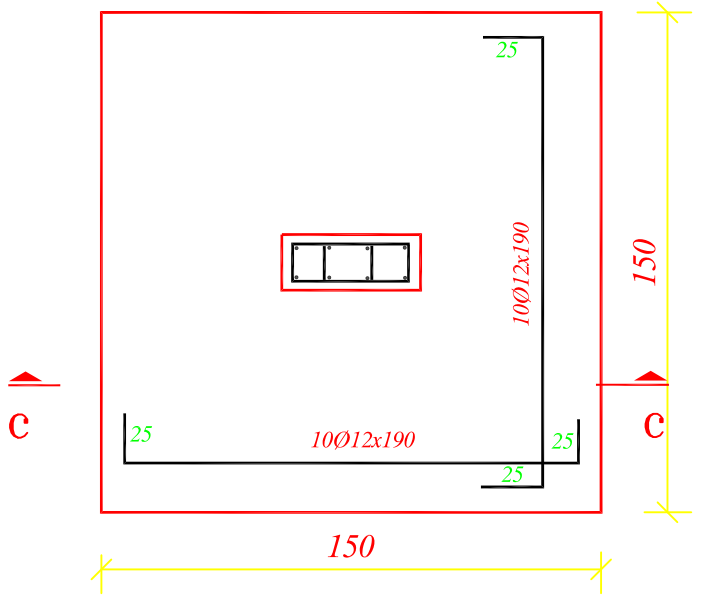
SECTION (c - c)



TYPICAL DETAIL IN F1



TYPICAL DETAIL IN F2



TYPICAL DETAIL IN F3

Footings Details

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
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  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

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Footings Details

Symbol	Drawing No.	Rev. No.
RES	T5- C 04	R1

Type	Column NO.	Number	Size	Reinforcement	Bar Shape & Length
F1	1-3-4-5-6-11-15	7	100 x 100 x 40	7Ø12x 140cm (Long. & Trav.)	25 — 90 — 25
F2	2-7-8-10-12-14	6	130 x 130 x 40	9Ø12x170 (Long. & Trav.)	25 — 120 — 25
F3	9-13	2	150 x 150 x 40	10Ø12x190 (Long. & Trav.)	25 — 140 — 25
F4	Foundation Under Secondary Ground Beam	4	60 x 60 x 30	5Ø12x80 (Long. & Trav.)	15 — 50 — 15

Footings Table

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
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  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

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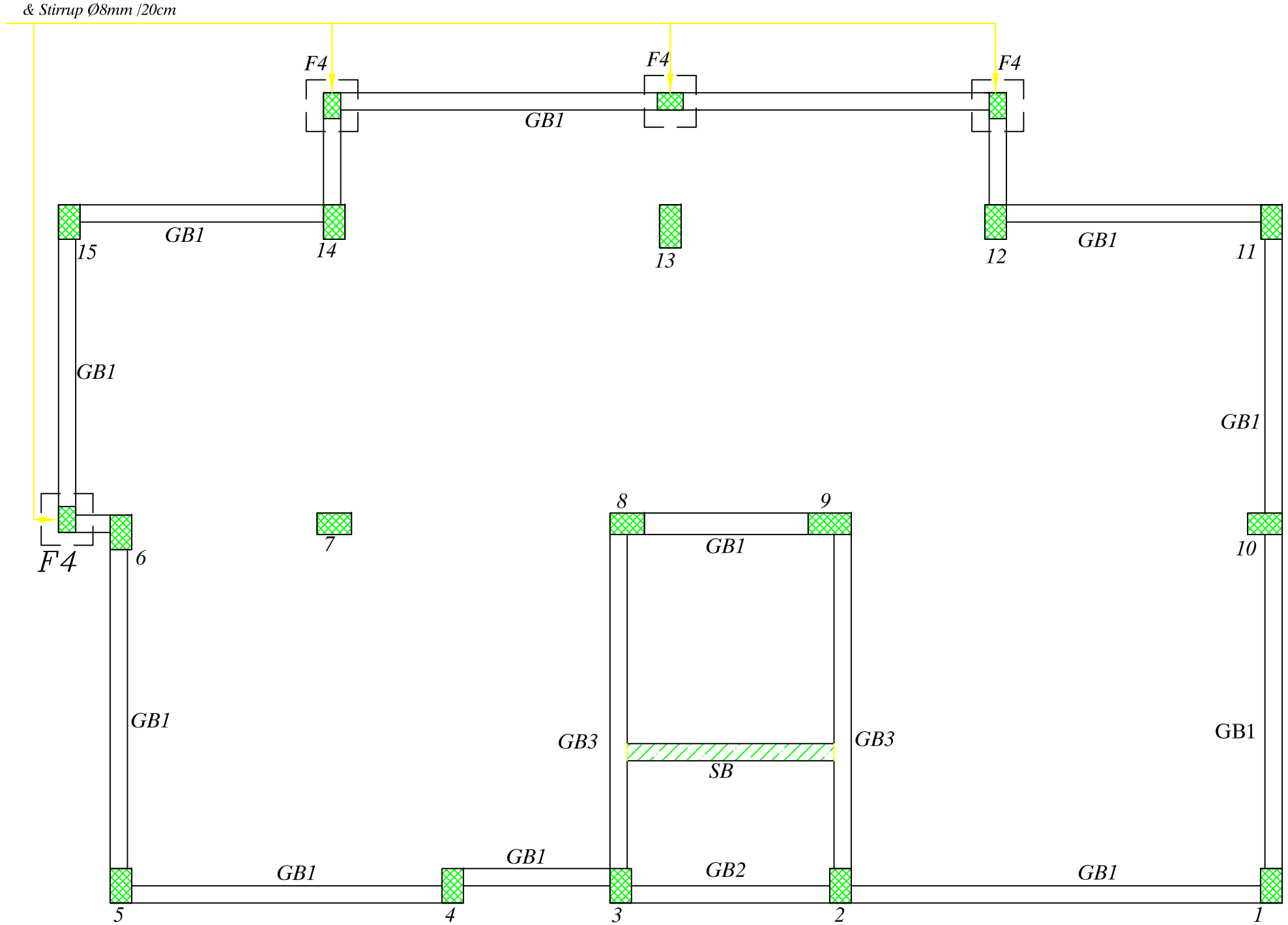
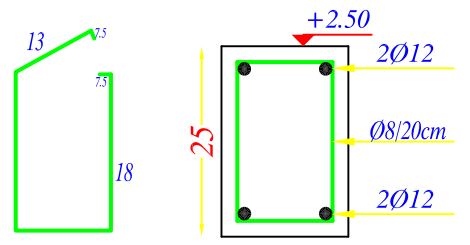
Footings Table

Symbol	Drawing No.	Rev. No.
RES	T5- C 05	R1

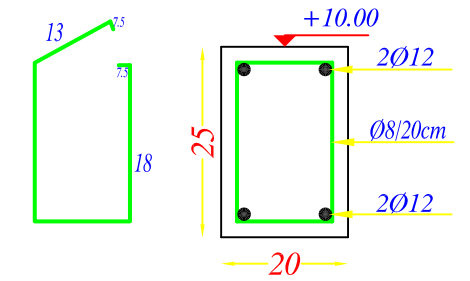
Columns Necks 20X30cm
Longitudinal Steel 6 Ø12
& Stirrup Ø8mm /20cm



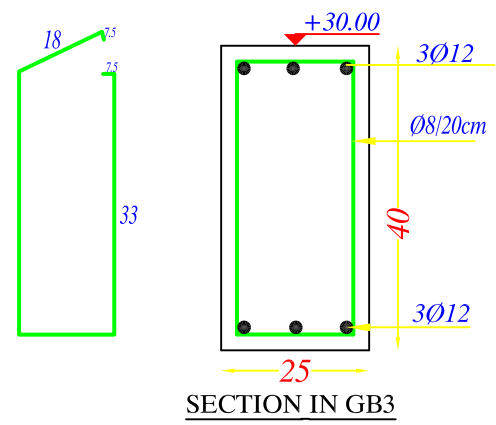
Secondary Beams Plan and Details



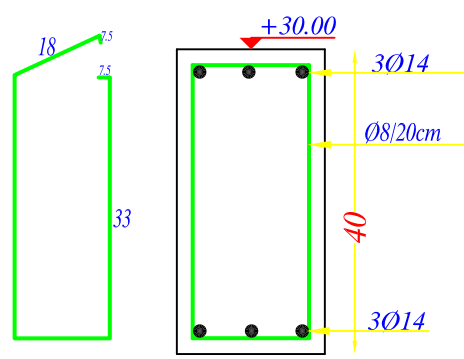
SECTION IN GB1



SECTION IN GB2



SECTION IN GB3



SECTION IN SB

NOTES

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* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
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  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

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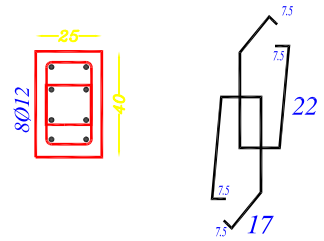
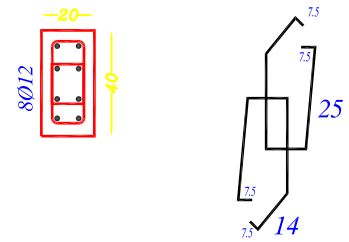
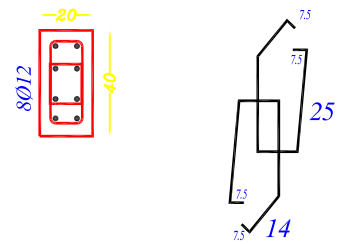
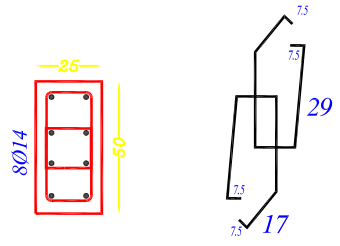
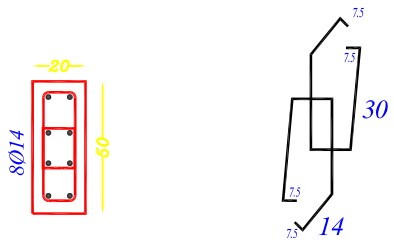
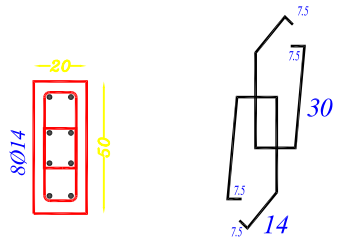
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Secondary Beams Plan & Details

Symbol	Drawing No.	Rev. No.
RES	T5- C 06	R1

Column NO.	Columns Neck	Ground Floor	First Floor
1-2-3-4-5-6-7-8-10-11-12-14-15	 St. 2Ø8/20 Number =13	 St. 2Ø8/20 Number =13	 St. 2Ø8/20 Number =13
9-13	 St. 2Ø8/20 Number =2	 St. 2Ø8/20 Number =2	 St. 2Ø8/20 Number =2

Columns Table & Details

NOTES

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  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
- All Dimensions in cm

No.	Description	Date	By
4			
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Revisions

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Date	File Name	Scale

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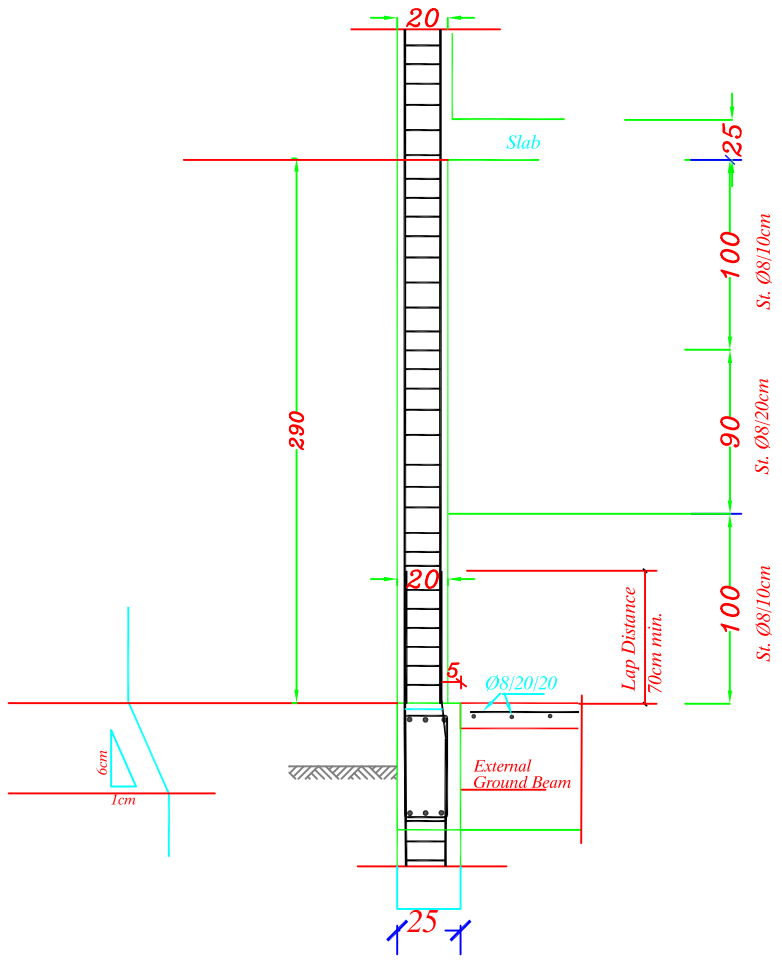
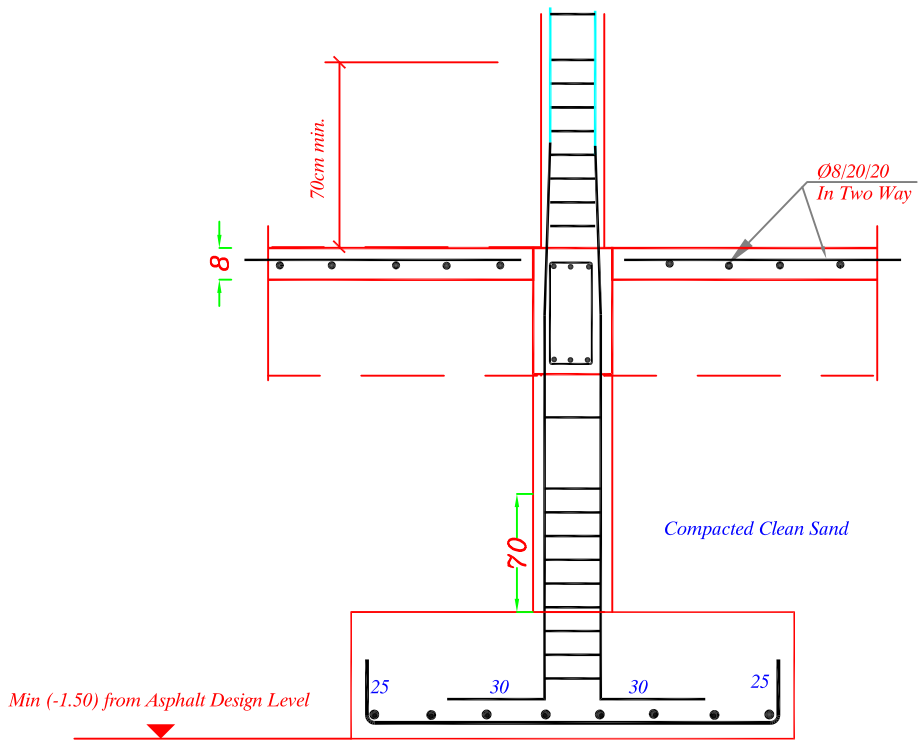
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Columns Table & Details

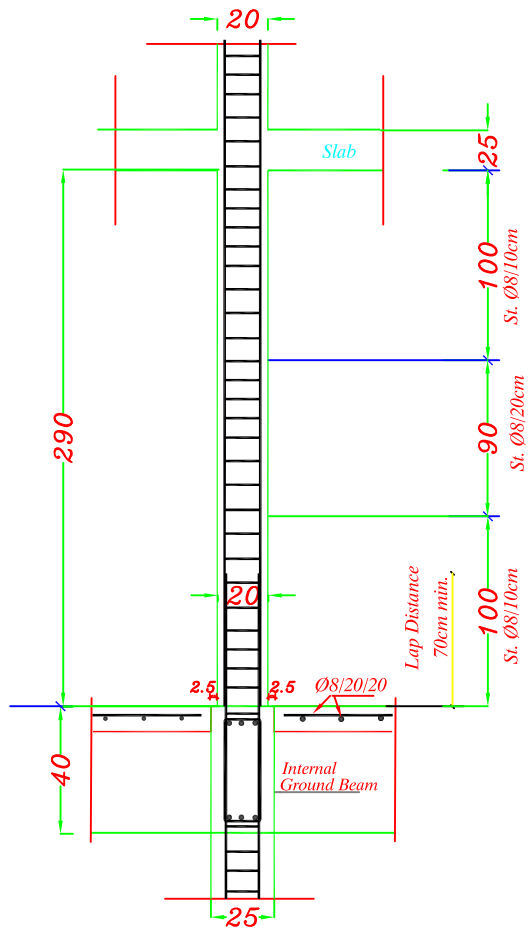
Symbol	Drawing No.	Rev. No.
RES	T5- C 07	R1



External Column Detail.



CONECTION DETAIL BETWEEN COLUMN
& FOOT & GROUND BEAM



Internal Column Detail

Columns & Ground Slab Details

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
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- The used reinforcement steel is according to to the following notation :
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- The concrete cover :
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  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

All Dimensions in cm

No.	Description	Date By
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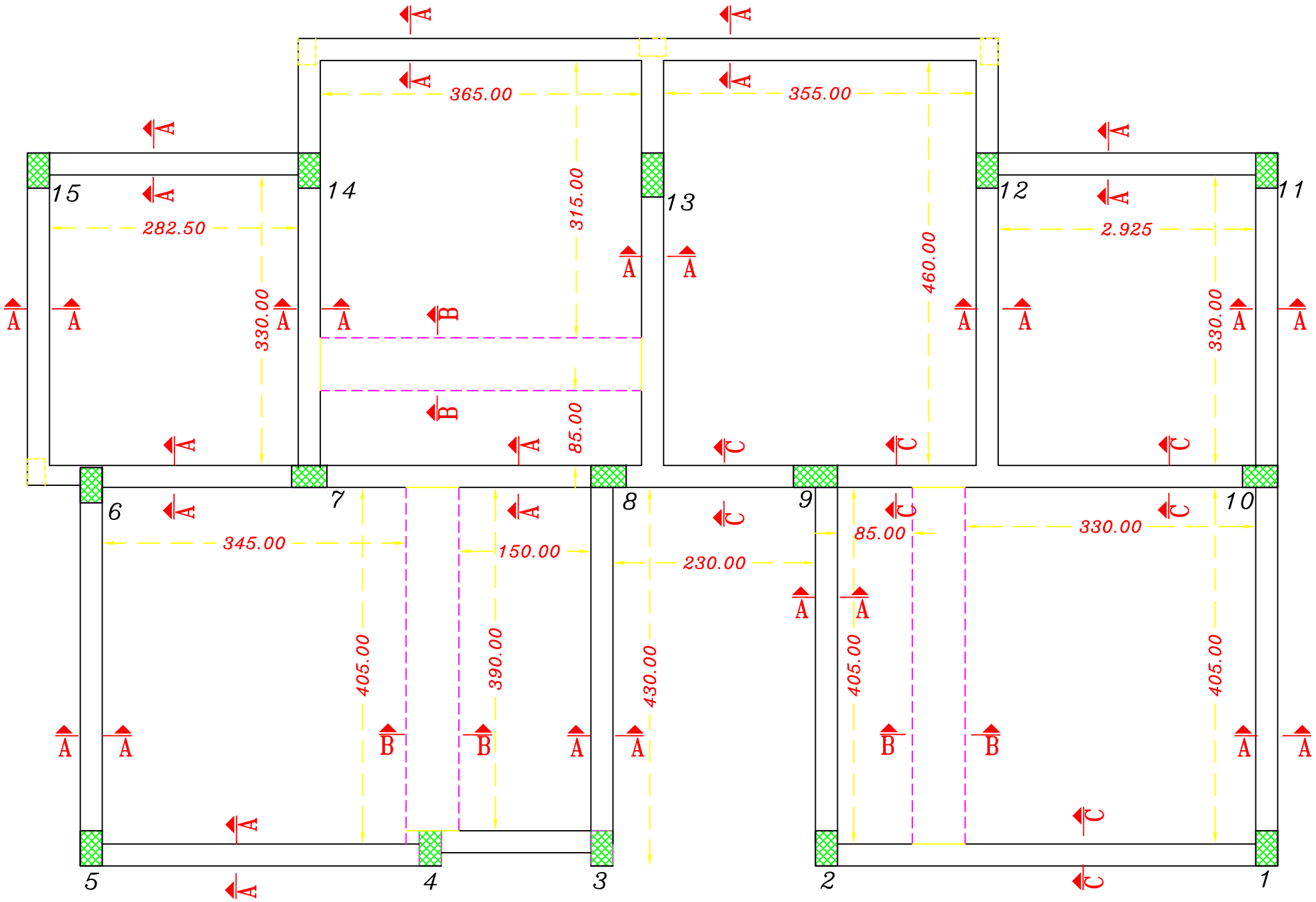
Columns & Ground Slab Details

Symbol	Drawing No.	Rev. No.
RES	T5- C 08	R1



Main Ground Beams Plan

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
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All Dimensions in cm

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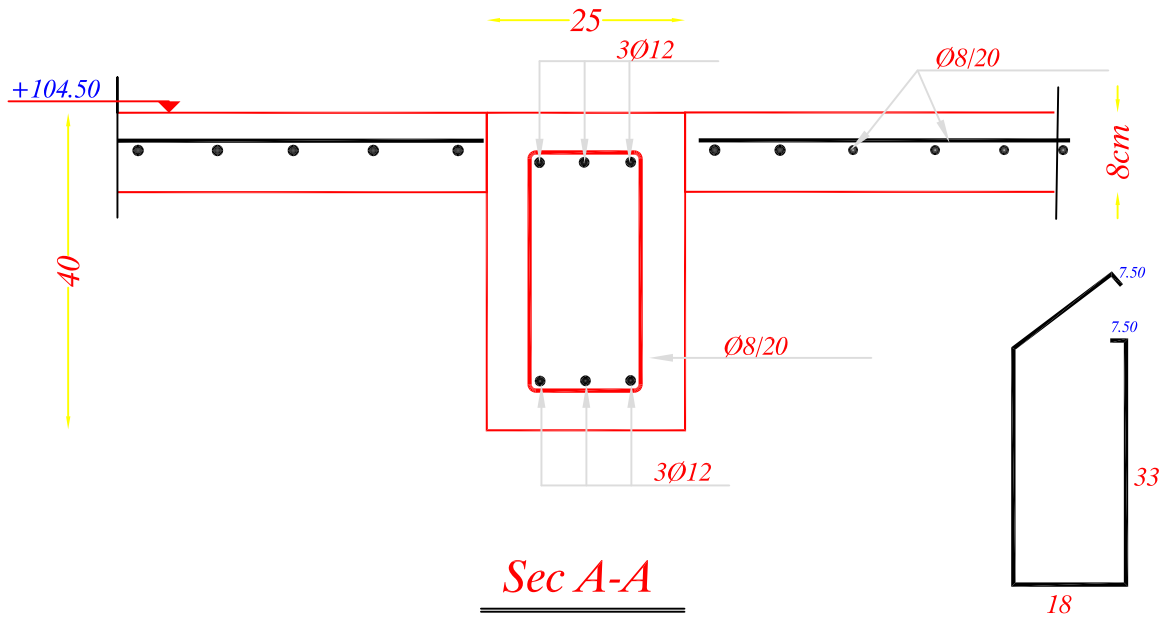
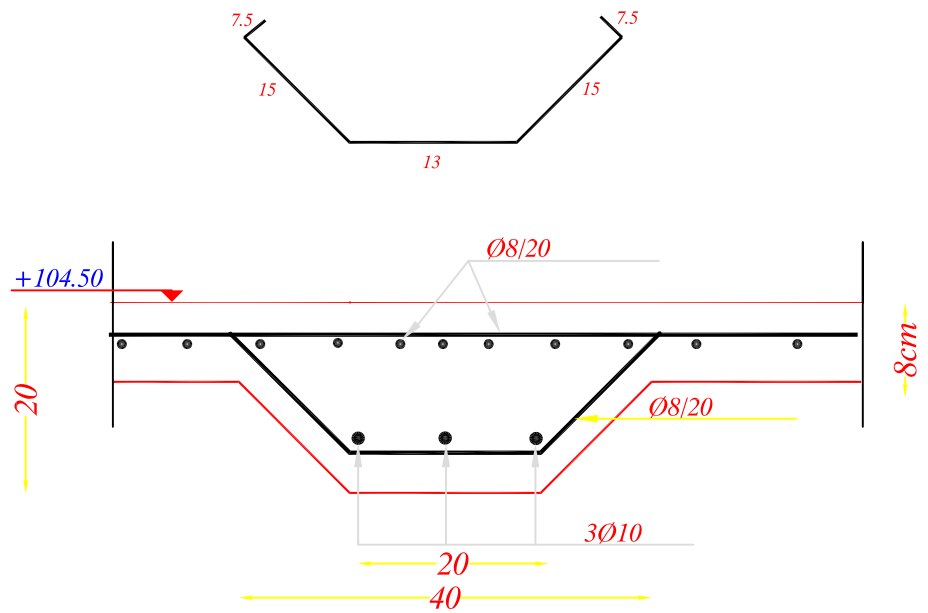
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Ground Beams Plan

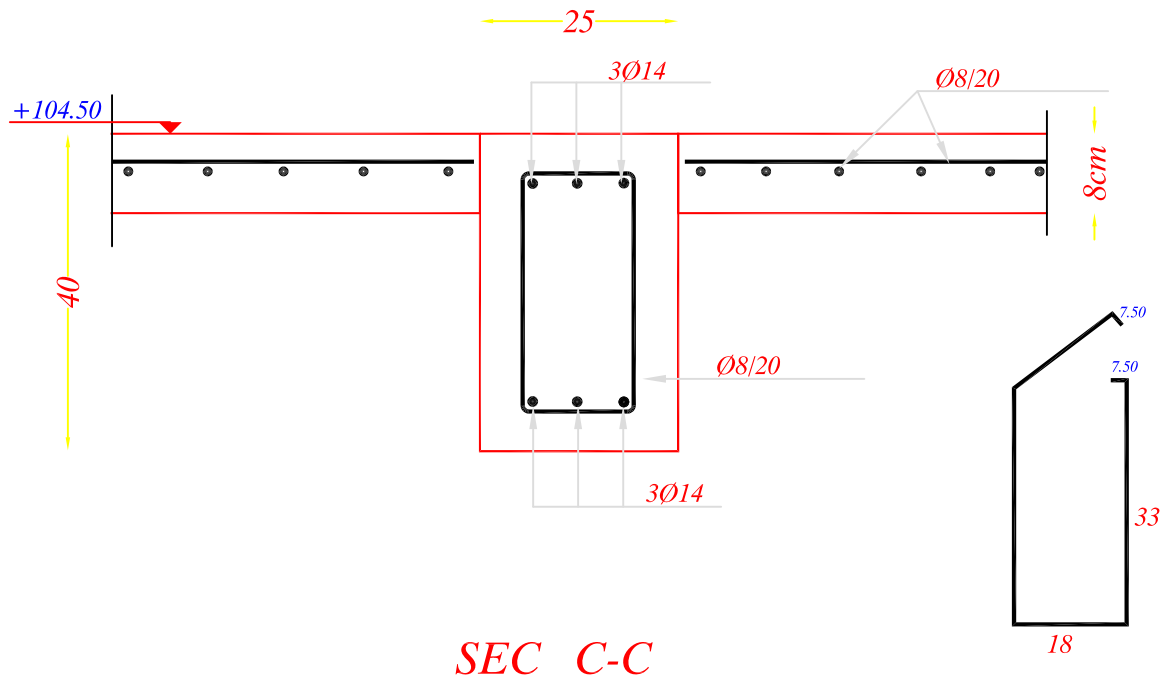
Symbol	Drawing No.	Rev. No.
RES	T5- C 09	R1



Sec A-A



Sec B-B



SEC C-C

Main Ground Beams Details

NOTES

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- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
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All Dimensions in cm

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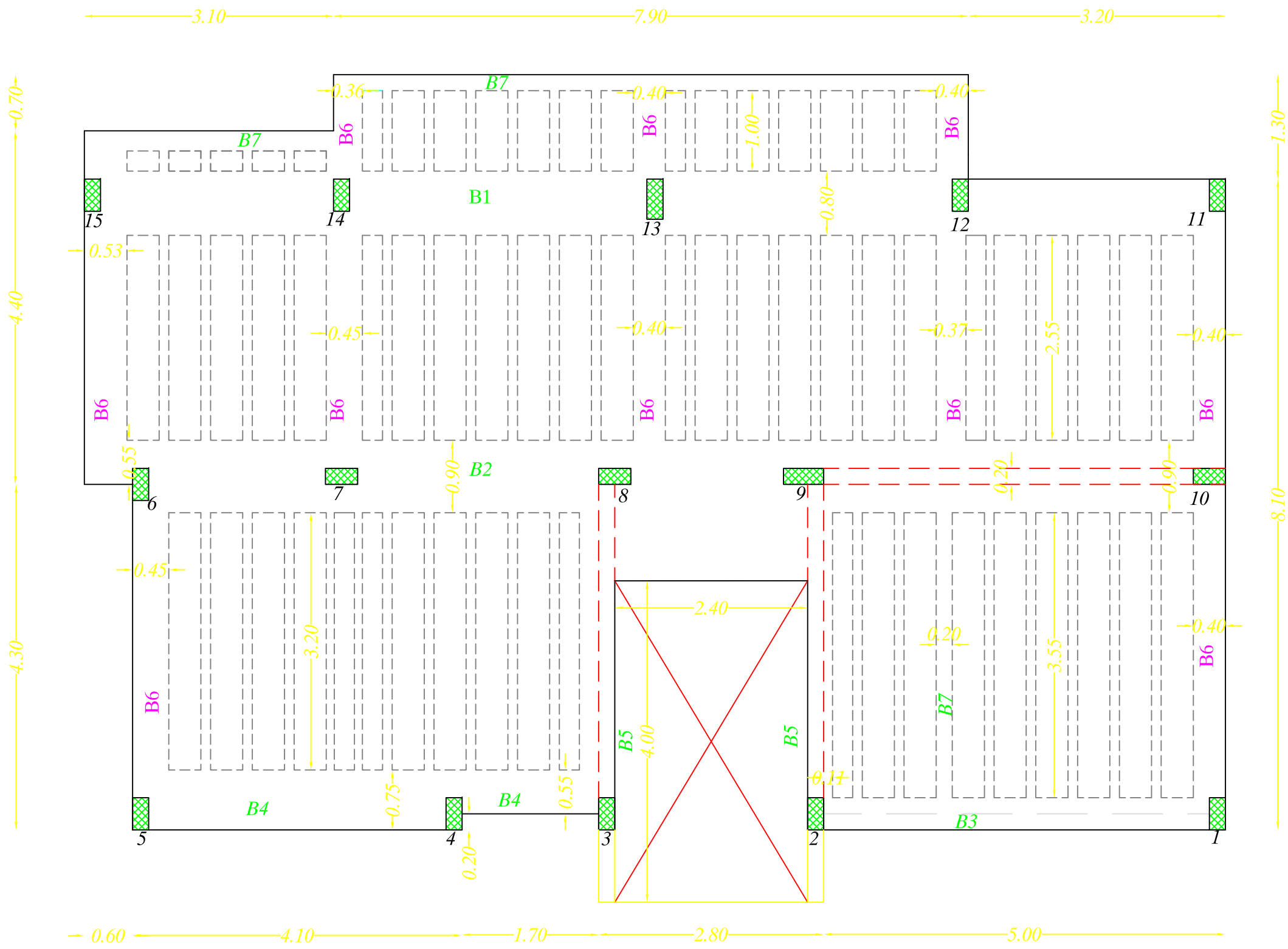
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Ground Beams Details

Symbol	Drawing No.	Rev. No.
RES	T5- C 10	R1



Beam Details & Reinforcement

For Typical Floor

NOTES

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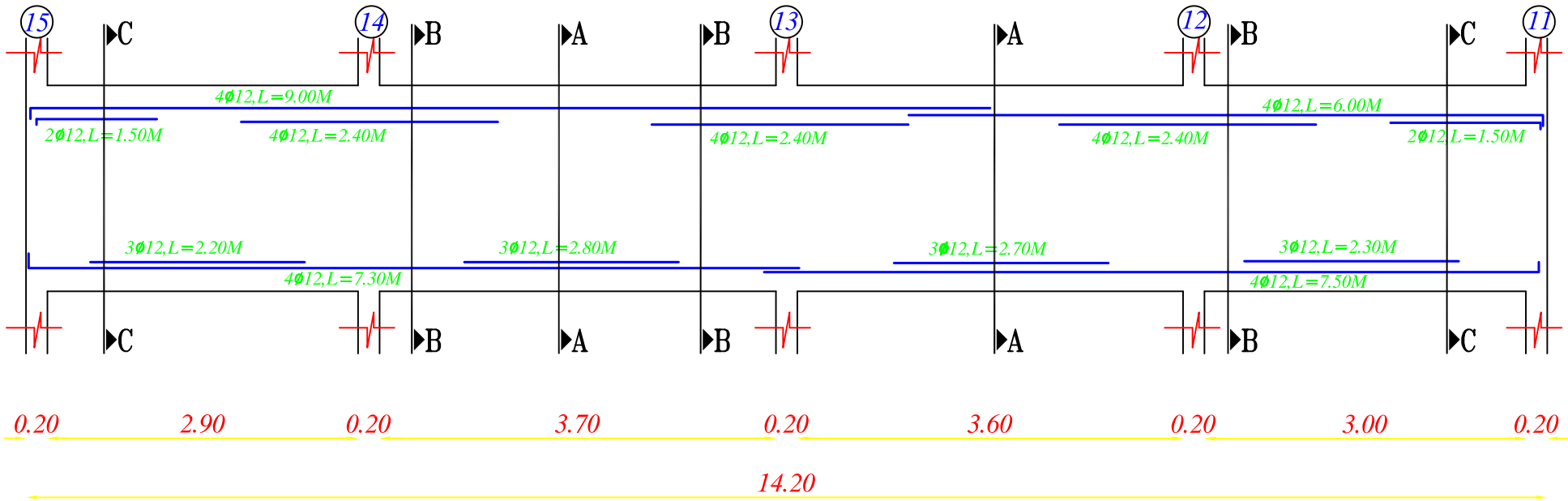
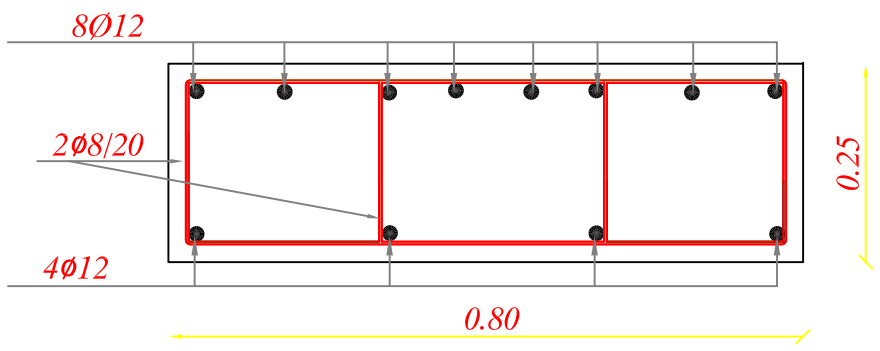
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Typical Floor-1

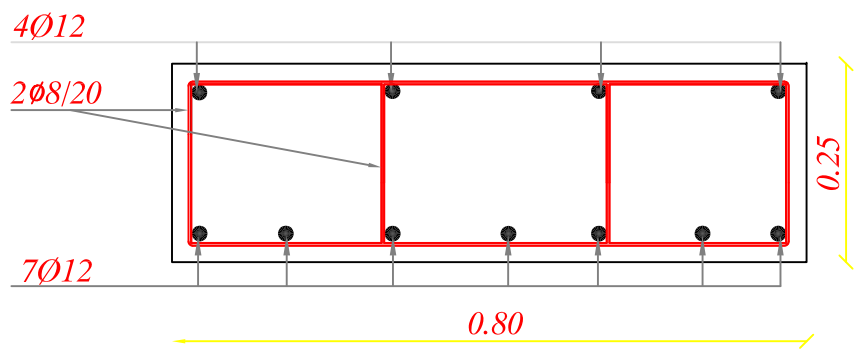
Symbol	Drawing No.	Rev. No.
RES	T5- C 11	R1

B1=25X80cm

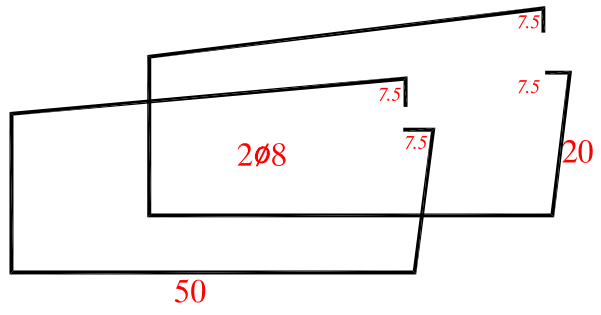


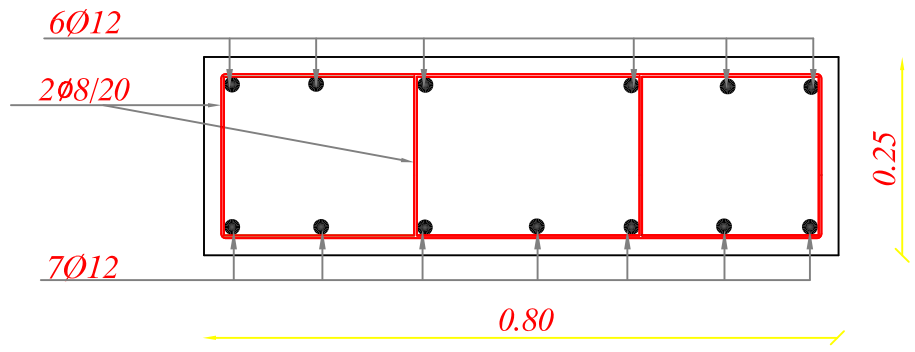


SECTION B-B



SECTION A-A





SECTION C-C

Beam Details & Reinforcement For Typical Floor-1

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

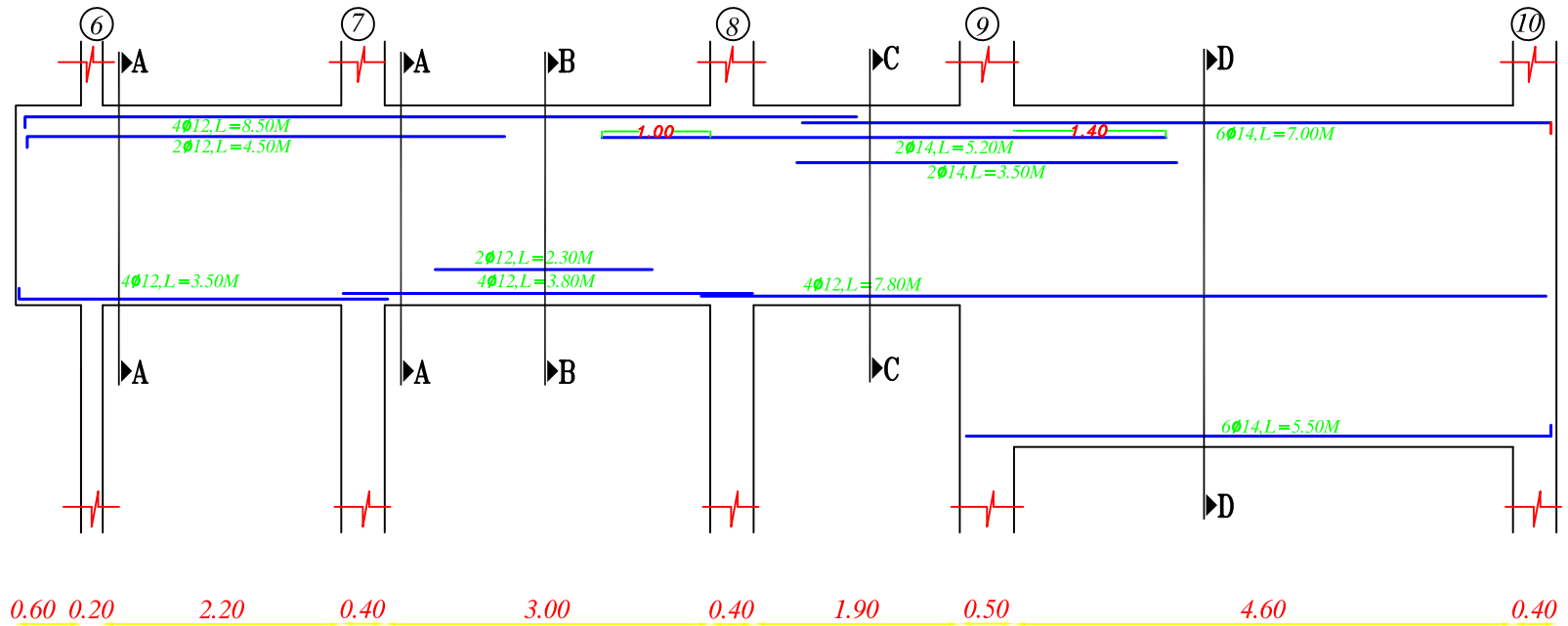
UNDP

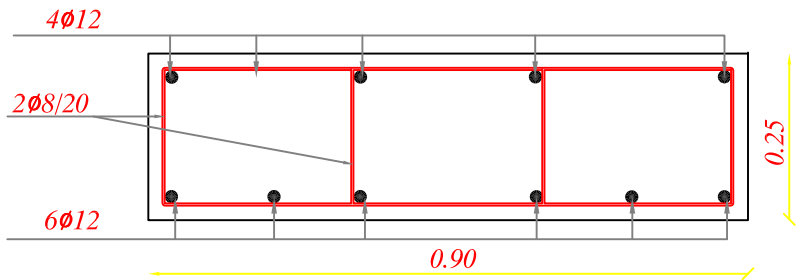
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Typical Floor-2

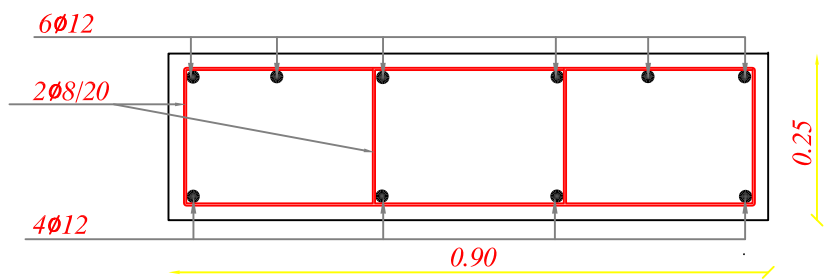
Symbol	Drawing No.	Rev. No.
RES	T5- C 12	R1

B2=25X90CM

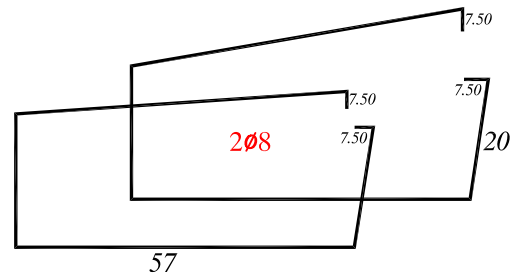


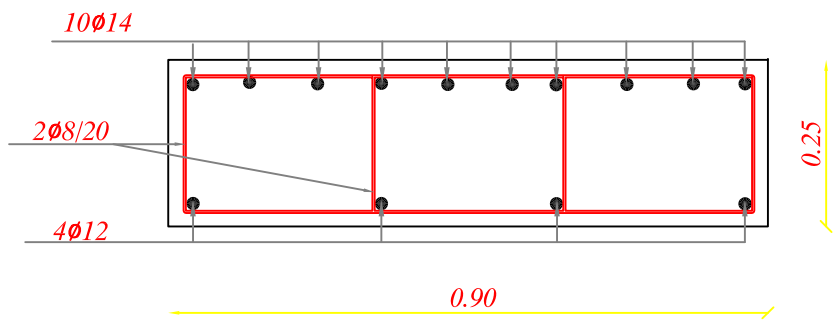


SECTION B-B

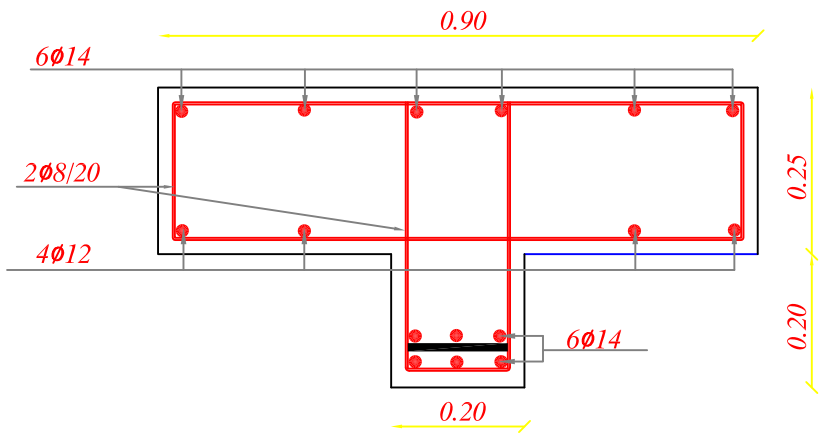


SECTION A-A

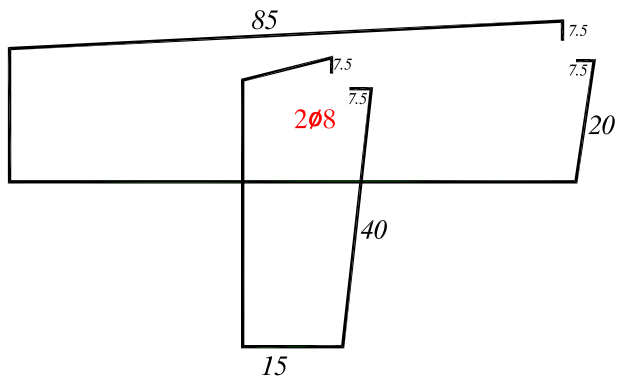




SECTION C-C



SECTION D-D



Beam Details & Reinforcement For Typical Floor-2

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel (fy=4200kg/cm)
  (R) mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

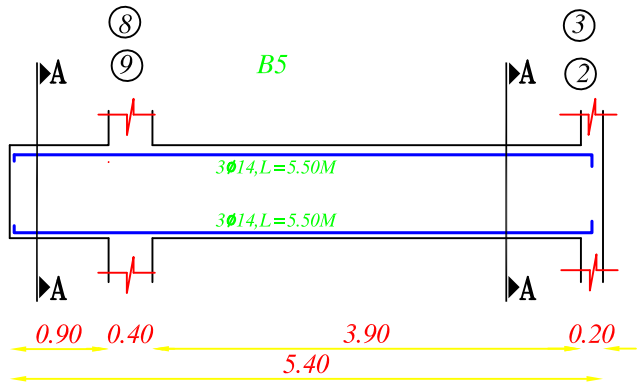
IMPLEMENTED BY:

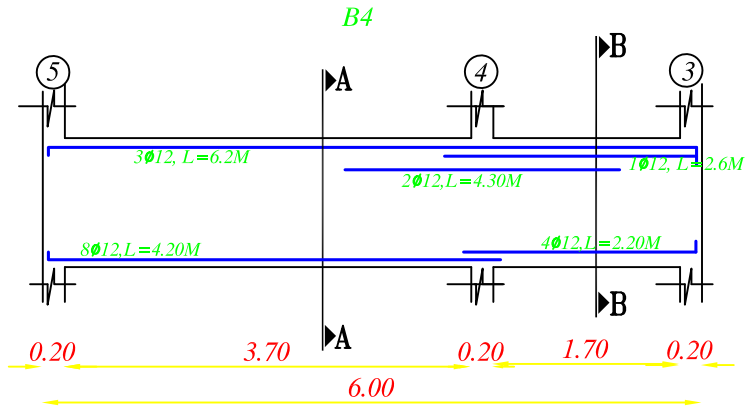
UNDP

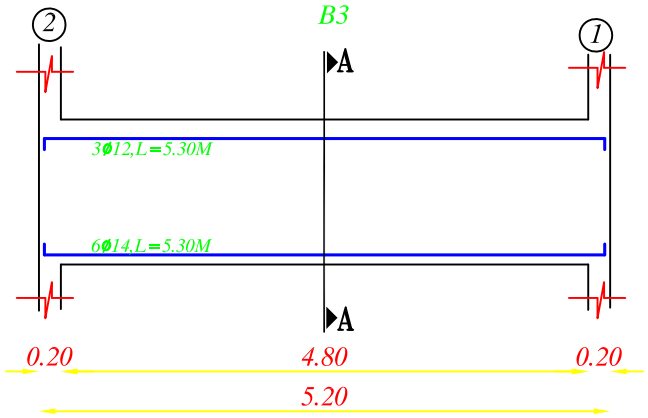
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

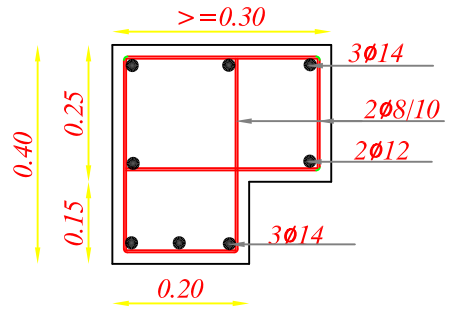
Beam Details & Reinforcement For Typical Floor-3

Symbol	Drawing No.	Rev. No.
RES	T5-C 13	R1

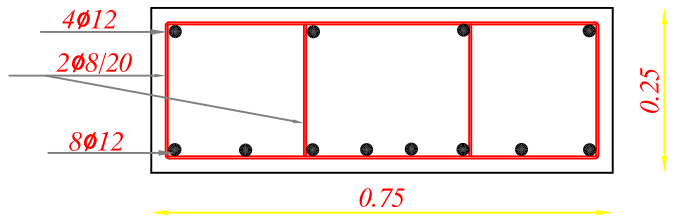








SECTION A-A



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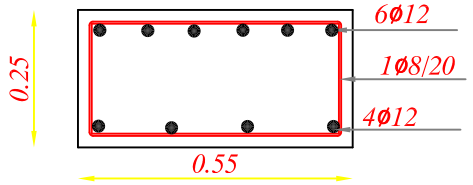

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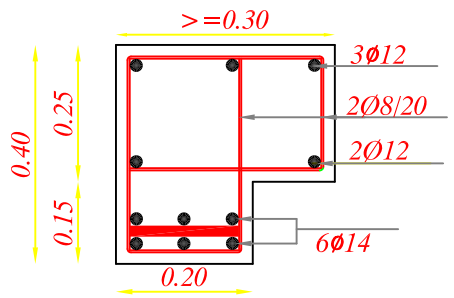
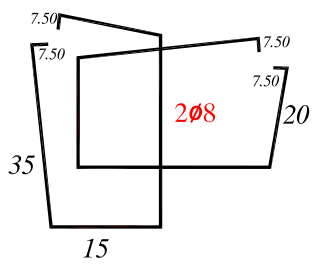
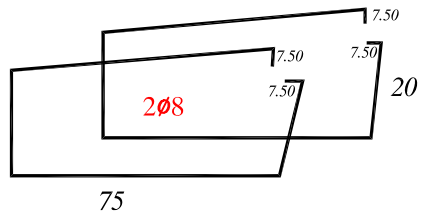
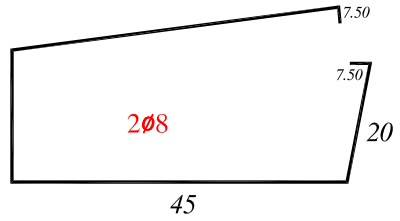
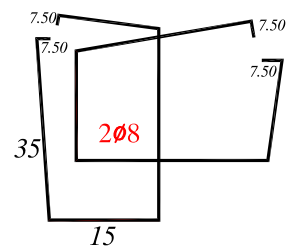


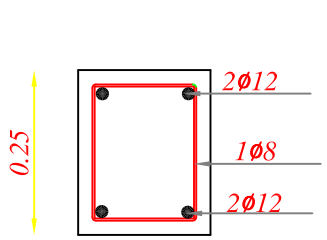
SECTION A-A











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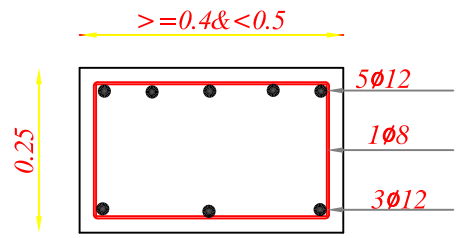
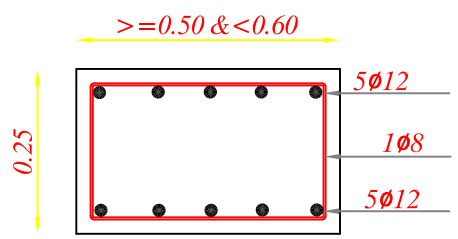


SECTION IN B6 FOR CANTILIVER



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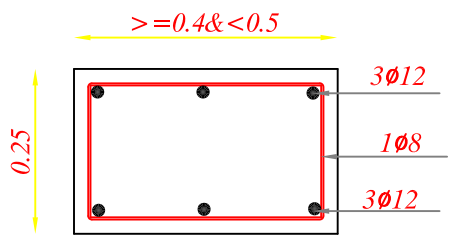

SECTION IN B6

Beam Details & Reinforcement For Typical Floor-3

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm²)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
4		
3		
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Revisions

Designed	Drawn	Checked	Approved
Date			

	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

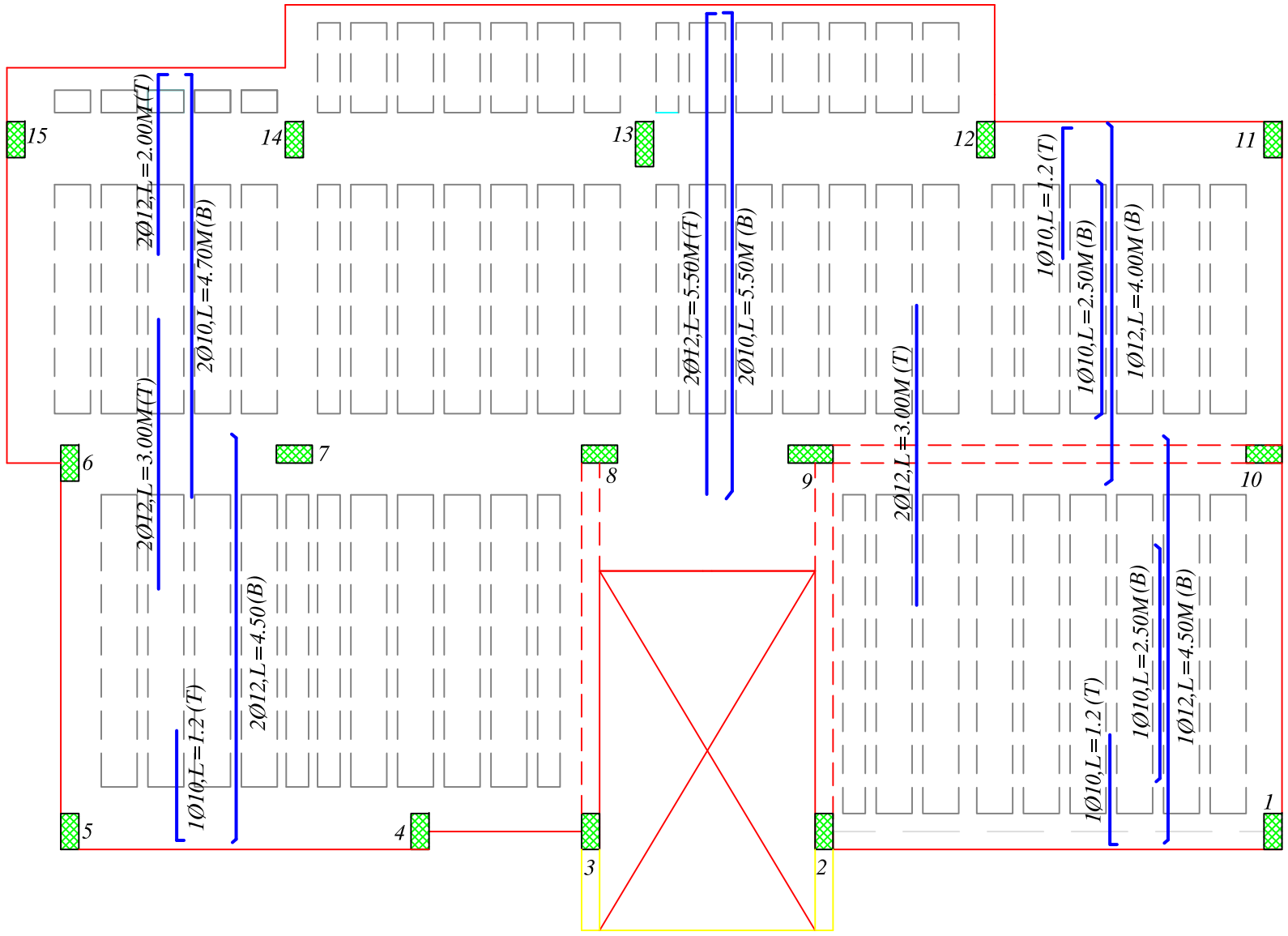
IMPLEMENTED BY:

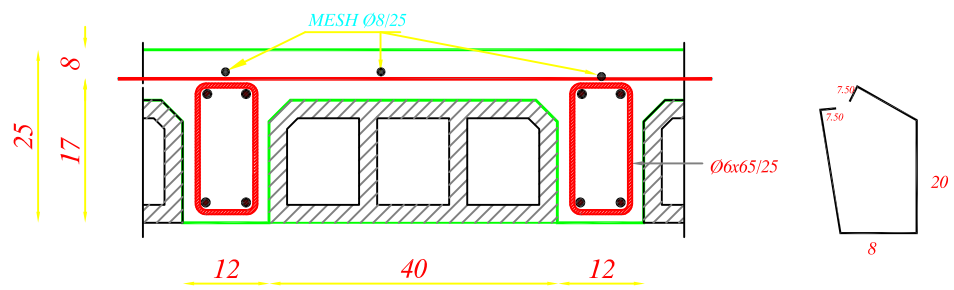
UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Typical Floor-4

Symbol	Drawing No.	Rev. No.
RES	T5-C 14	R1





SECTION IN RIBS

Ribs Details & Reinforcement For Typical Floor

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm^2)
  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
4		
3		
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

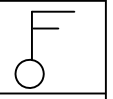
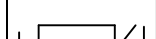
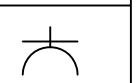
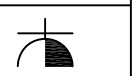
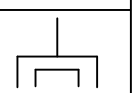
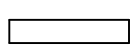
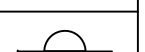
Ribs Details & Reinforcement For Typical Floor

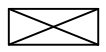
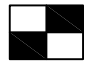
Symbol	Drawing No.	Rev. No.
RES	T5-C 15	R1

ELECTRICAL DRAWINGS

LL

جدول الرموز الكهربائية

الرمز	البيان
	مفتاح كهرباء مفرد
	مفتاح كهرباء دوج
	مفتاح ثلاثى
	ضاغط جرس
	ضاغط انارة الدرج
	جرس كهرباء
	مخرج كهرباء عادى ١٦ أمبير
	مخرج كهرباء بغطاء ١٦ أمبير
	مخرج تليفون
	مخرج تليفون
	مصباح فلورسنت مفرد
	كلوب دائرى
	مصباح سقف عادى معلق
	مصباح حائط عادى
	مصباح حائط خافت
	مصباح مراة الحمام

	مروحة شفط
	وحدة الانتركوم الداخلية
	وحدة الانتركوم الخارجية
	لوحة توزيع كهرباء رئيسية
	لوحة توزيع كهرباء فرعية
	لوحة توزيع اتصالات رئيسية
	لوحة توزيع اتصالات فرعية

NOTES

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

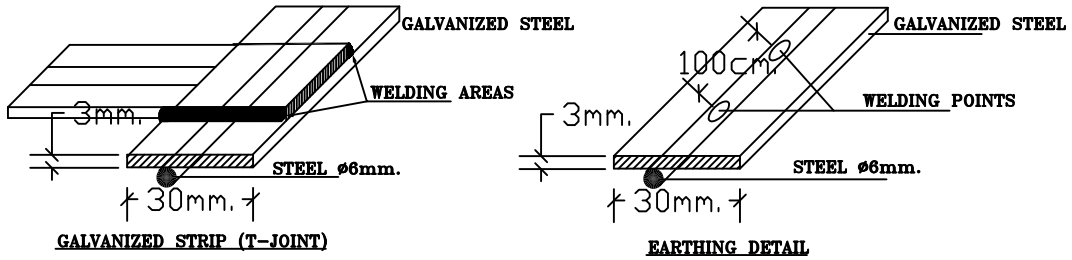
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

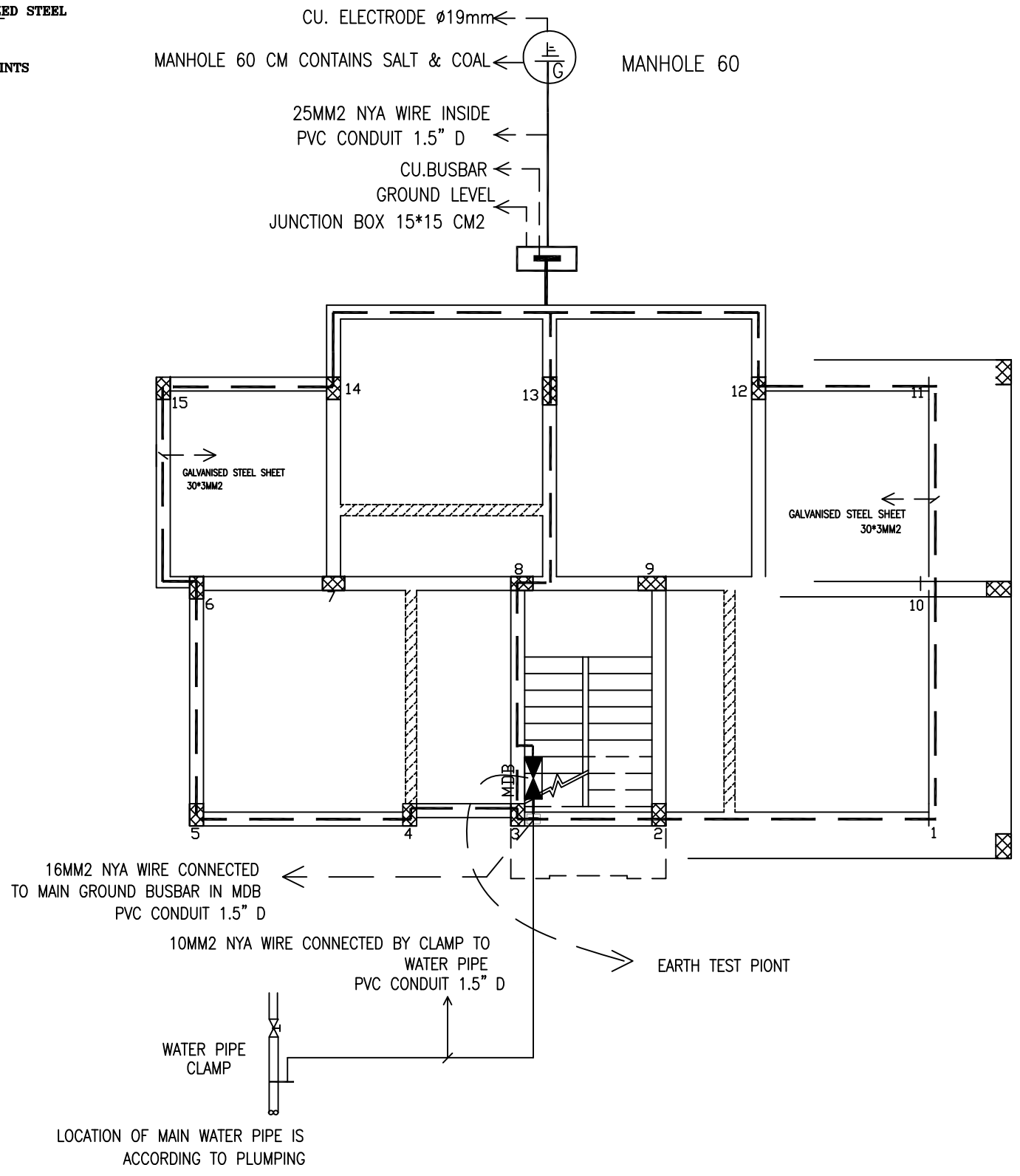
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Legend For Electrical Fittings

Symbol	Drawing No.:	Rev. No.
RES	T1 - E 01	R1



يجب تمديد الارث الكهربائي قبل الصب



THE EARTHING SYSTEM RESISTANCE SHOULD BE LESS THAN OR EQUAL 2 OHM

NOTES

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

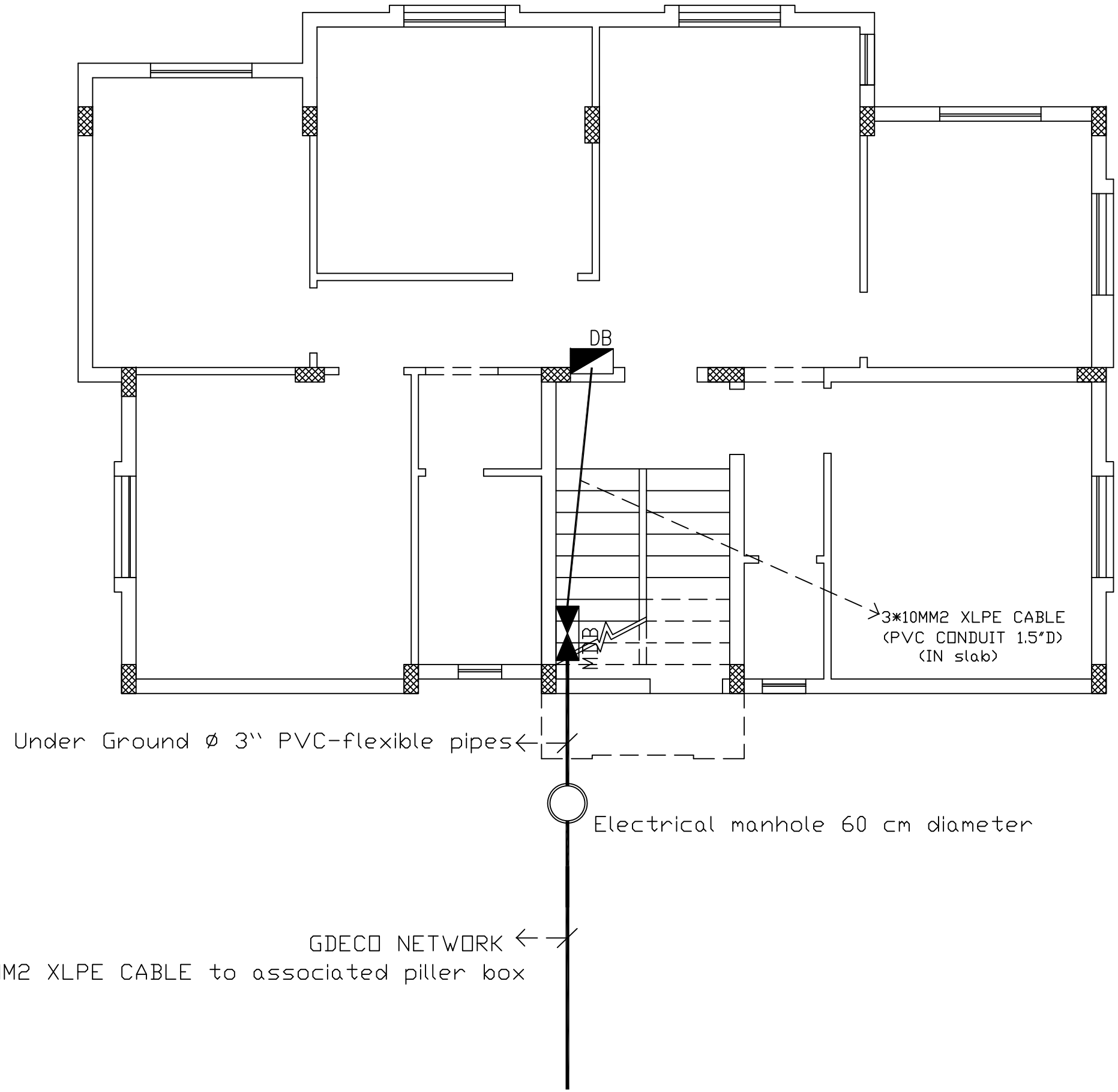
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Earthing System

Symbol	Drawing No.:	Rev. No.
RES	*T5 - E 02*	R1



NOTES

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

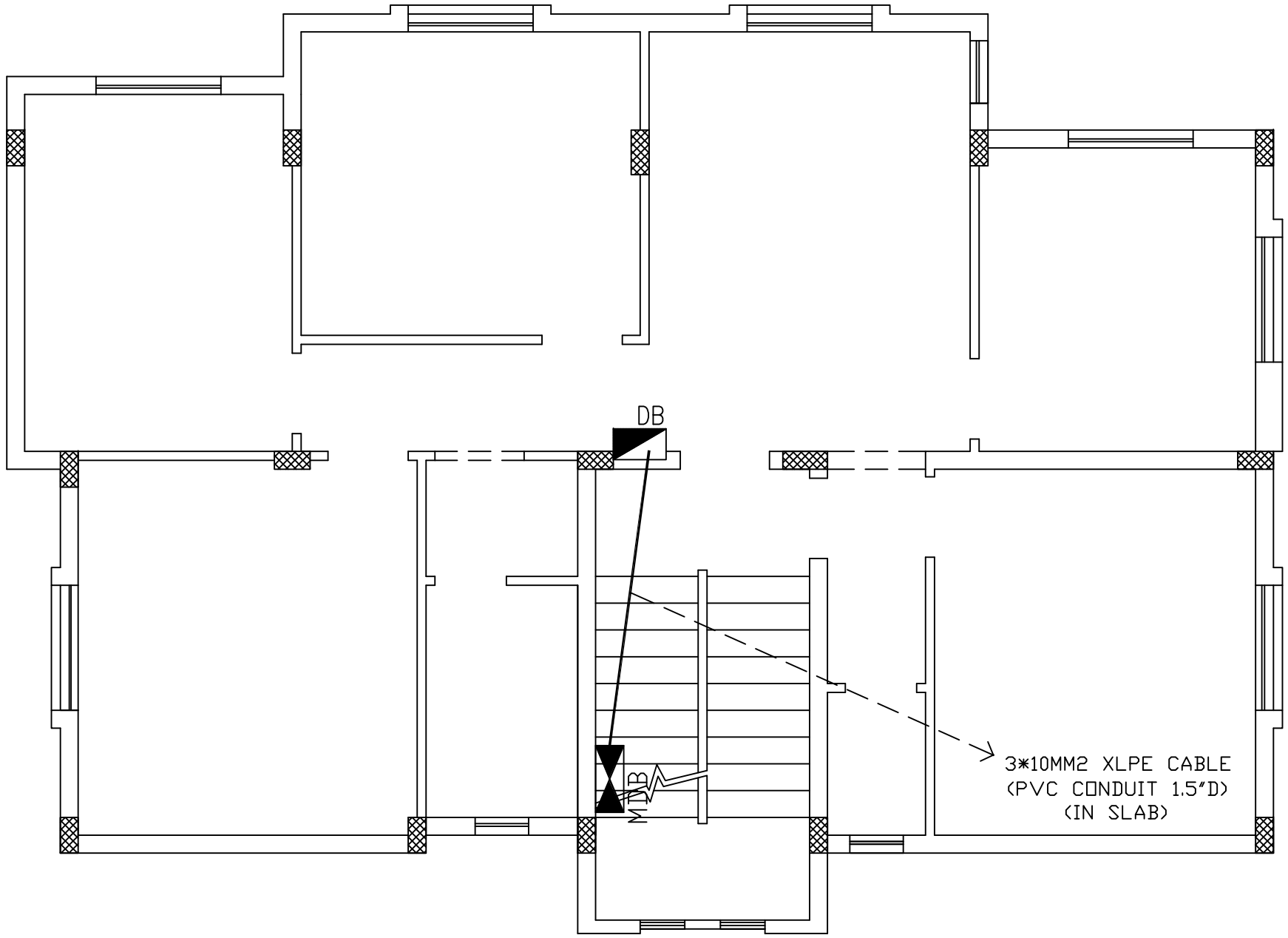
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Main Electrical Incoming and Distributions

Symbol	Drawing No.:	Rev. No.
RES	*T5 - E 03*	R1



NOTES

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

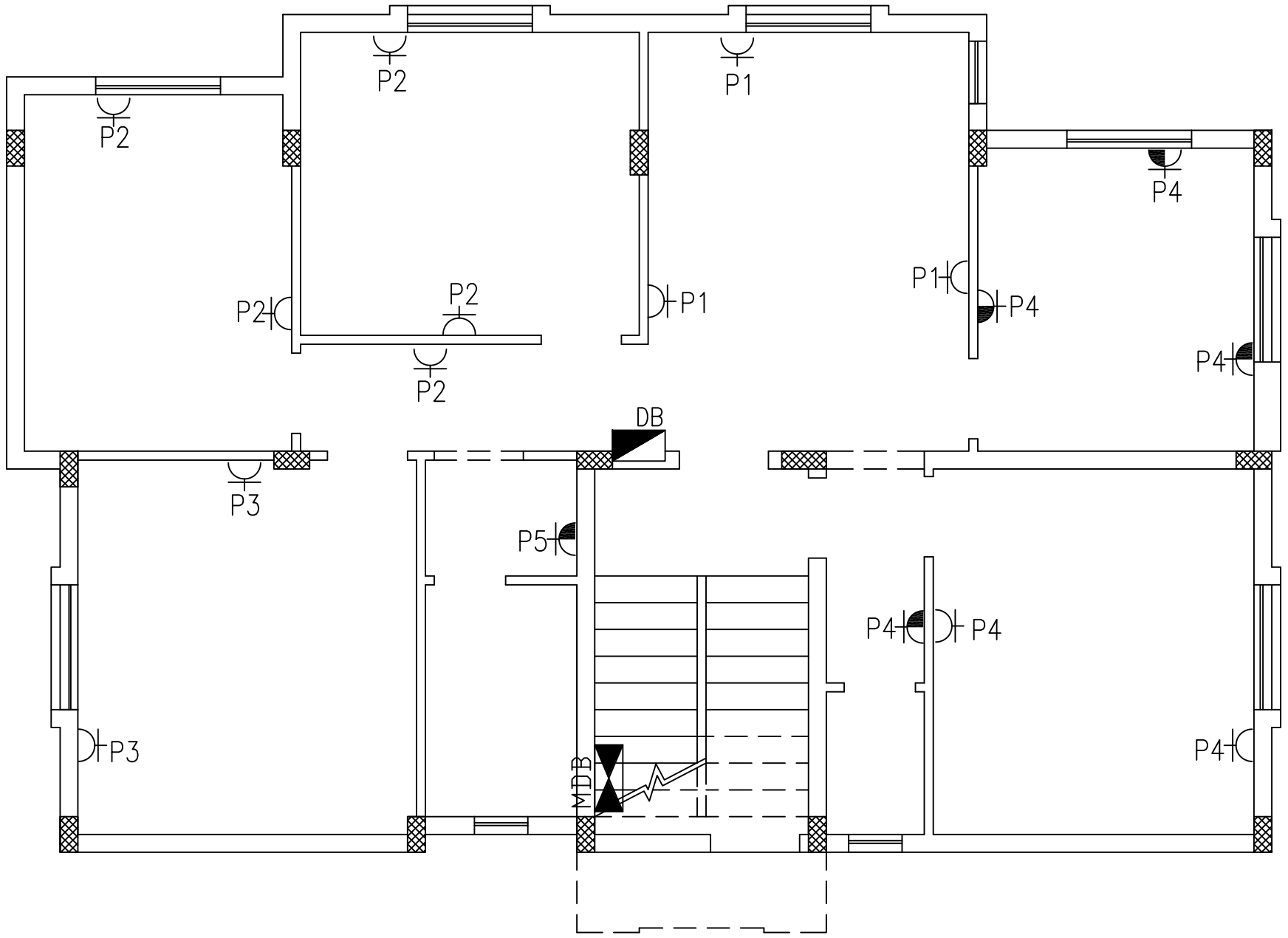
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Distribution Boards for First and Typical Floor

Symbol	Drawing No.:	Rev. No.
RES	*T5 - E 04*	R1



NOTES

HEIGHT OF SOCKET =90 CM FROM FFL

HEIGHT OF SOCKET =120 CM FROM FFL AT KITCHEN

HEIGHT OF BOARDS =180 CM FROM FFL TO BOTTOM

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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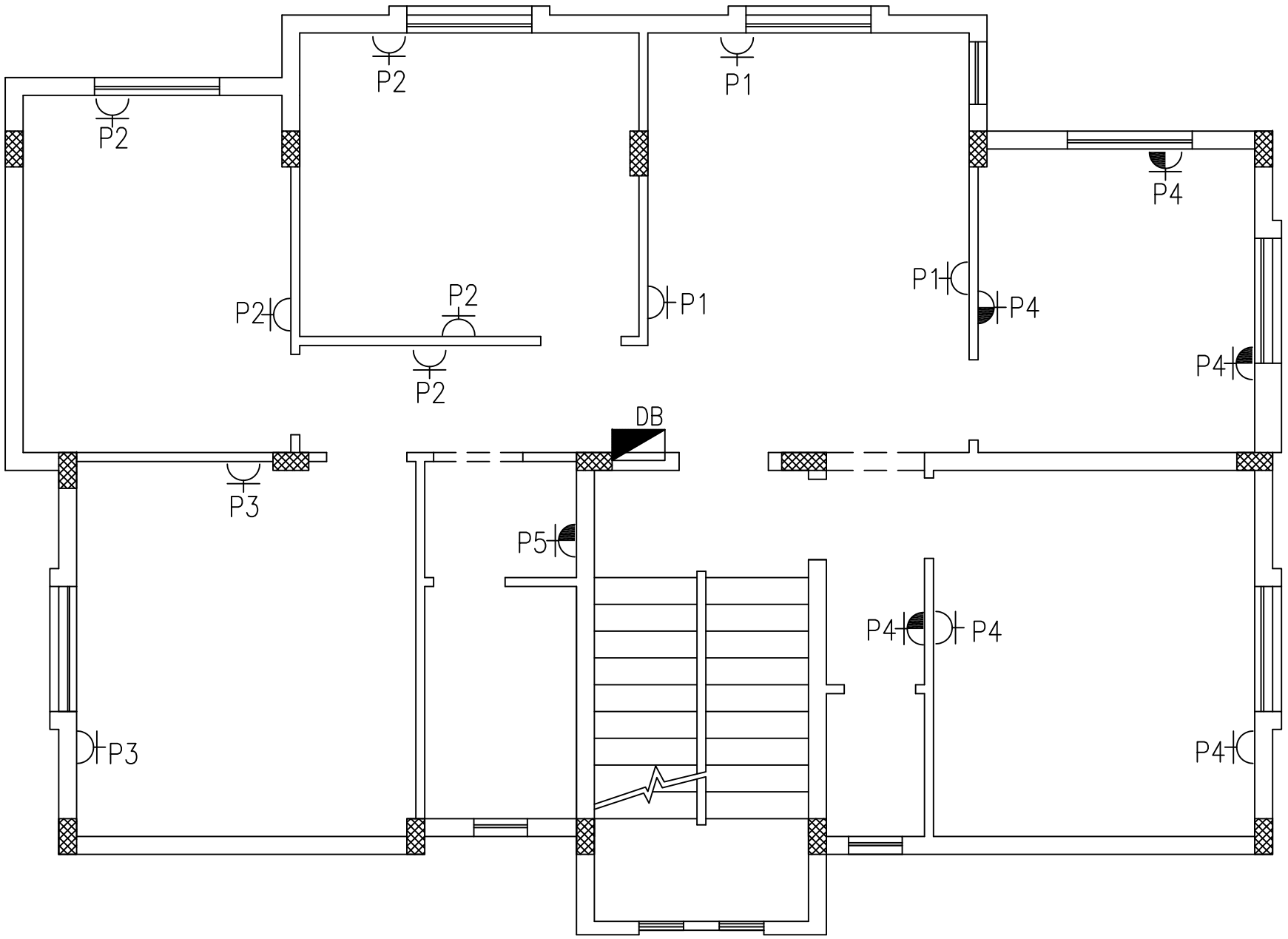
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Power Outlets Layout For Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	*T5 - E 05*	R1



NOTES

HEIGHT OF SOCKET =90 CM FROM FFL

HEIGHT OF SOCKET =120 CM FROM FFL AT KITCHEN

HEIGHT OF BOARDS =180 CM FROM FFL TO BOTTOM

No.	Description	Date	By
4			
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Revisions

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Date	File Name	Scale

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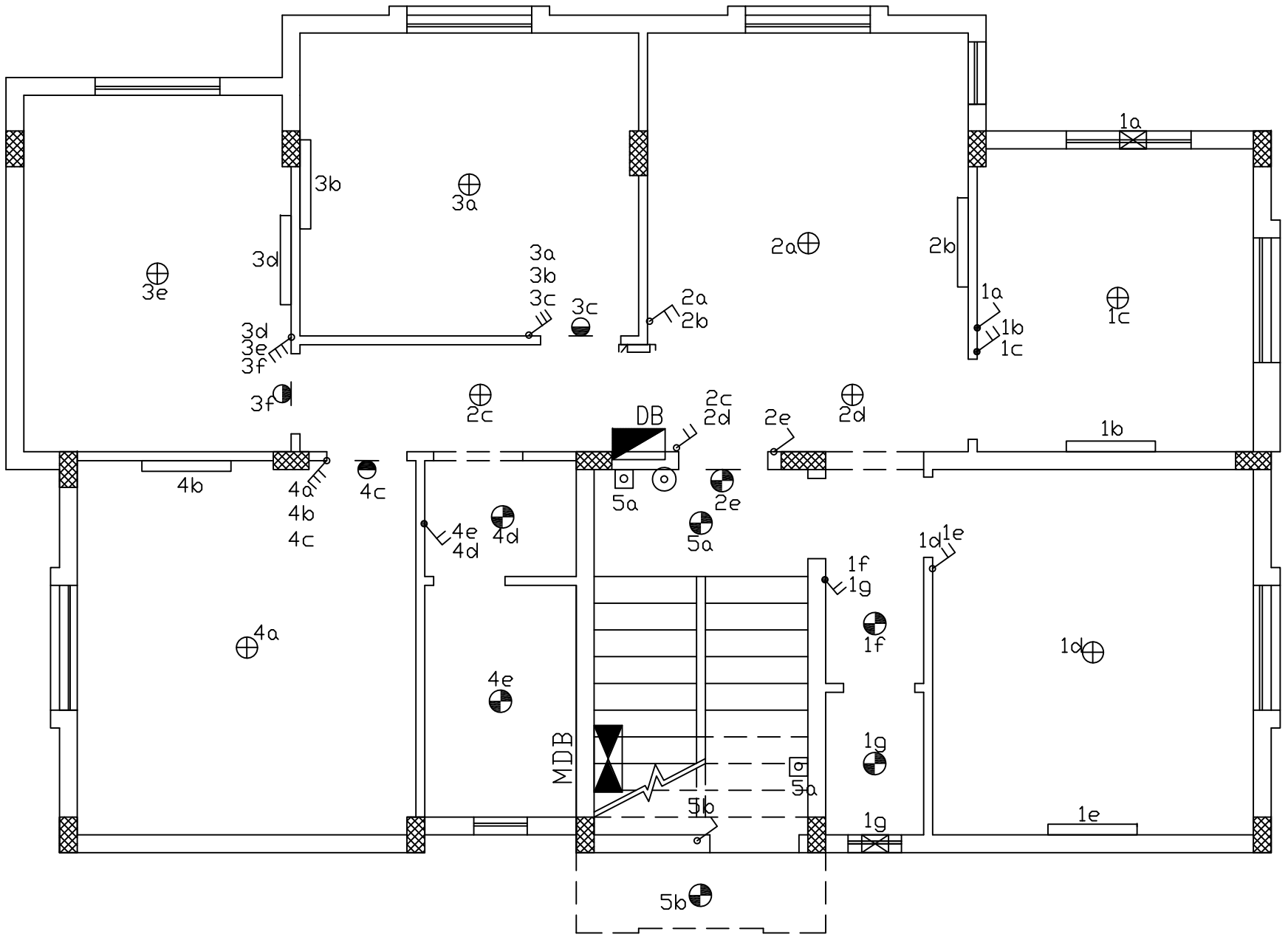
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Power Outlets Layout for First Floor

Symbol	Drawing No.:	Rev. No.
RES	*T5 - E 06*	R1



NOTES

HEIGHT OF SWITCHES =137 CM FROM FFL

EXHAUST FAN =220 CM FROM FFL

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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PROJECT:-

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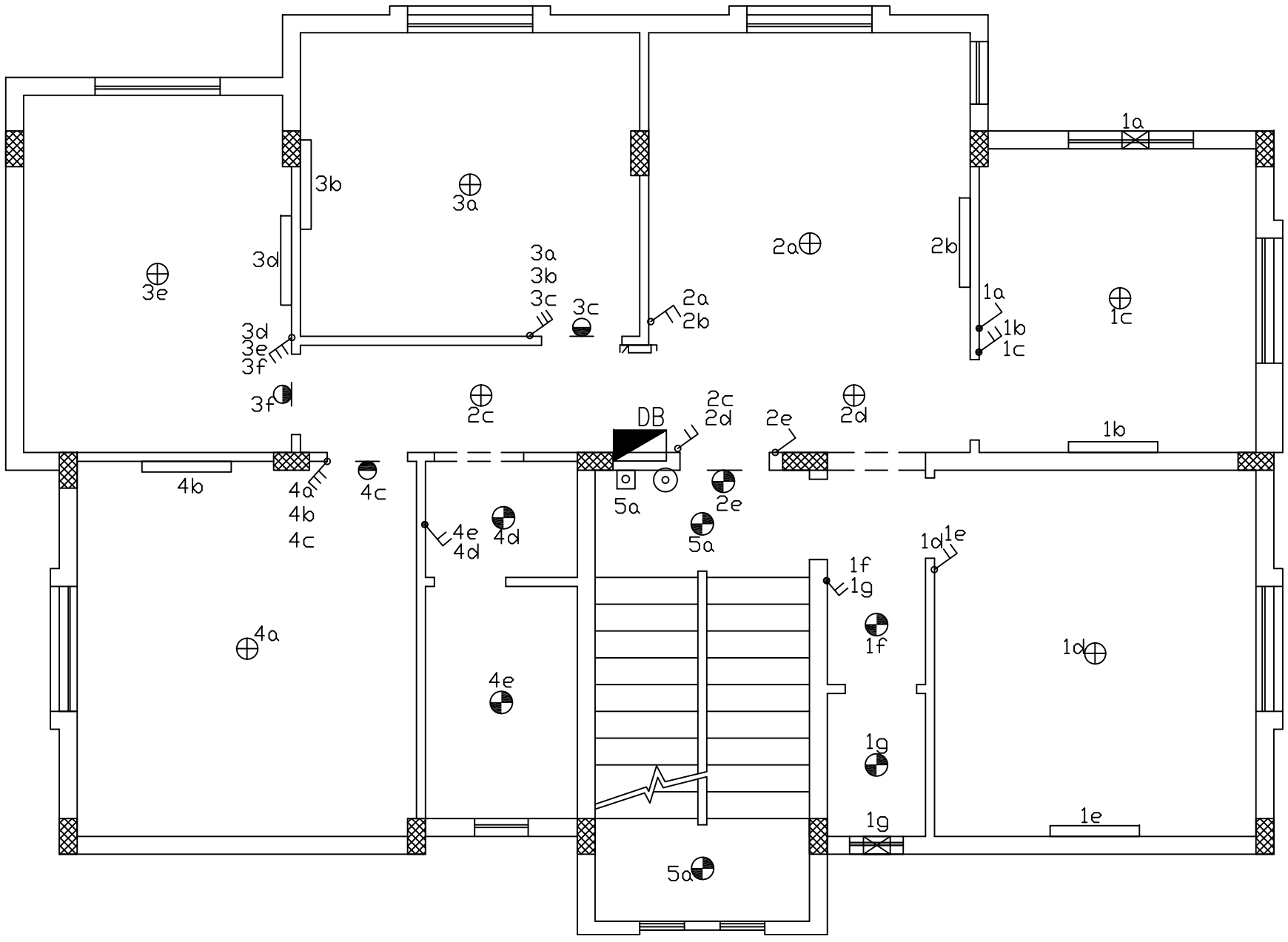
Lighting Layout For Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	*T5 - E 07*	R1



NOTES

HEIGHT OF SWITCHES =137 CM FROM FFL

EXHAUST FAN =220 CM FROM FFL

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

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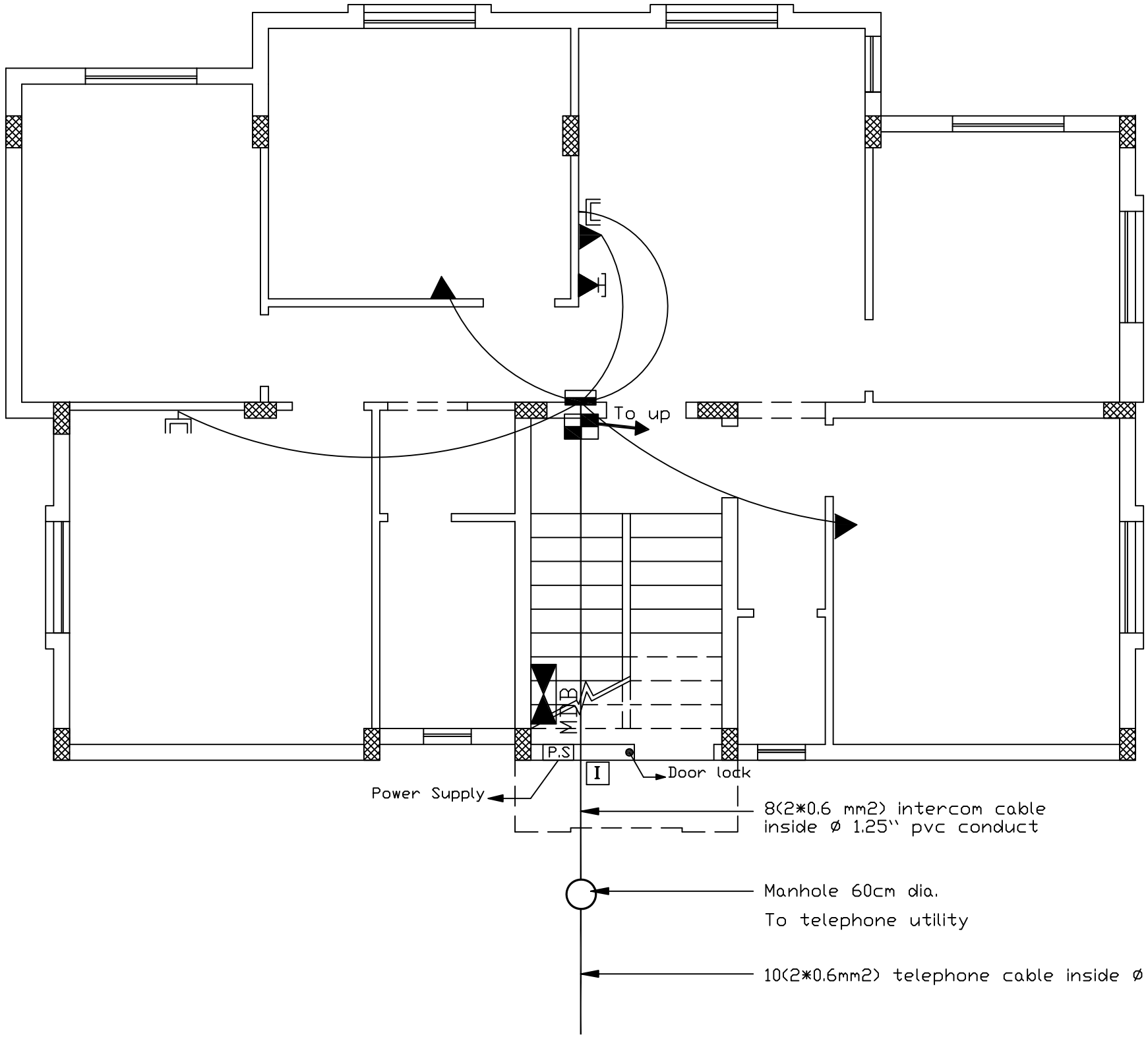
Lighting Layout for First Floor

Symbol	Drawing No.:	Rev. No.
RES	T5 - E 08	R1



NOTES

No.	Description	Date	By
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Revisions

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

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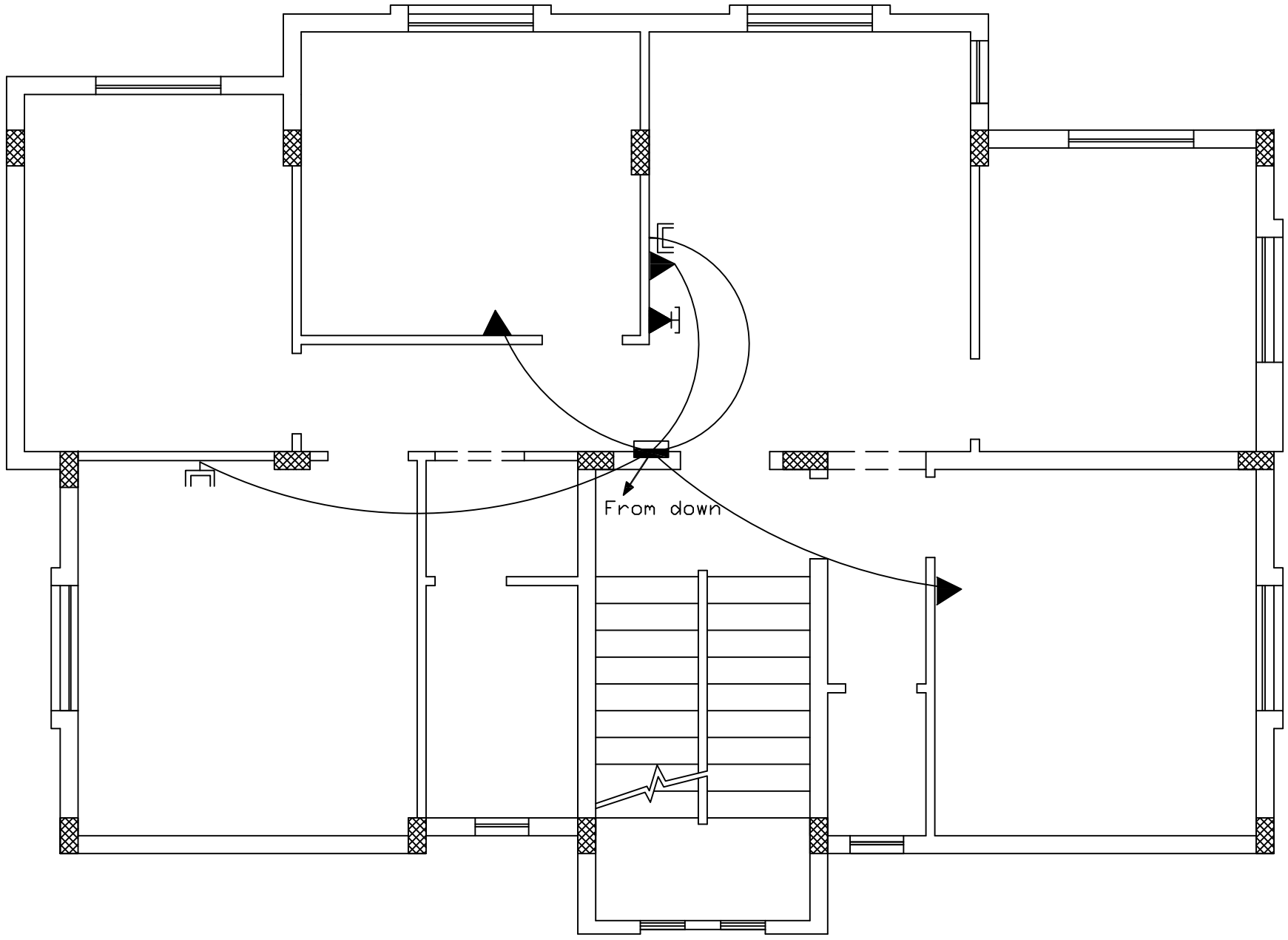
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Intercom, TV. and Telephone Layout for Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	T5 - E 09	R1



NOTES

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

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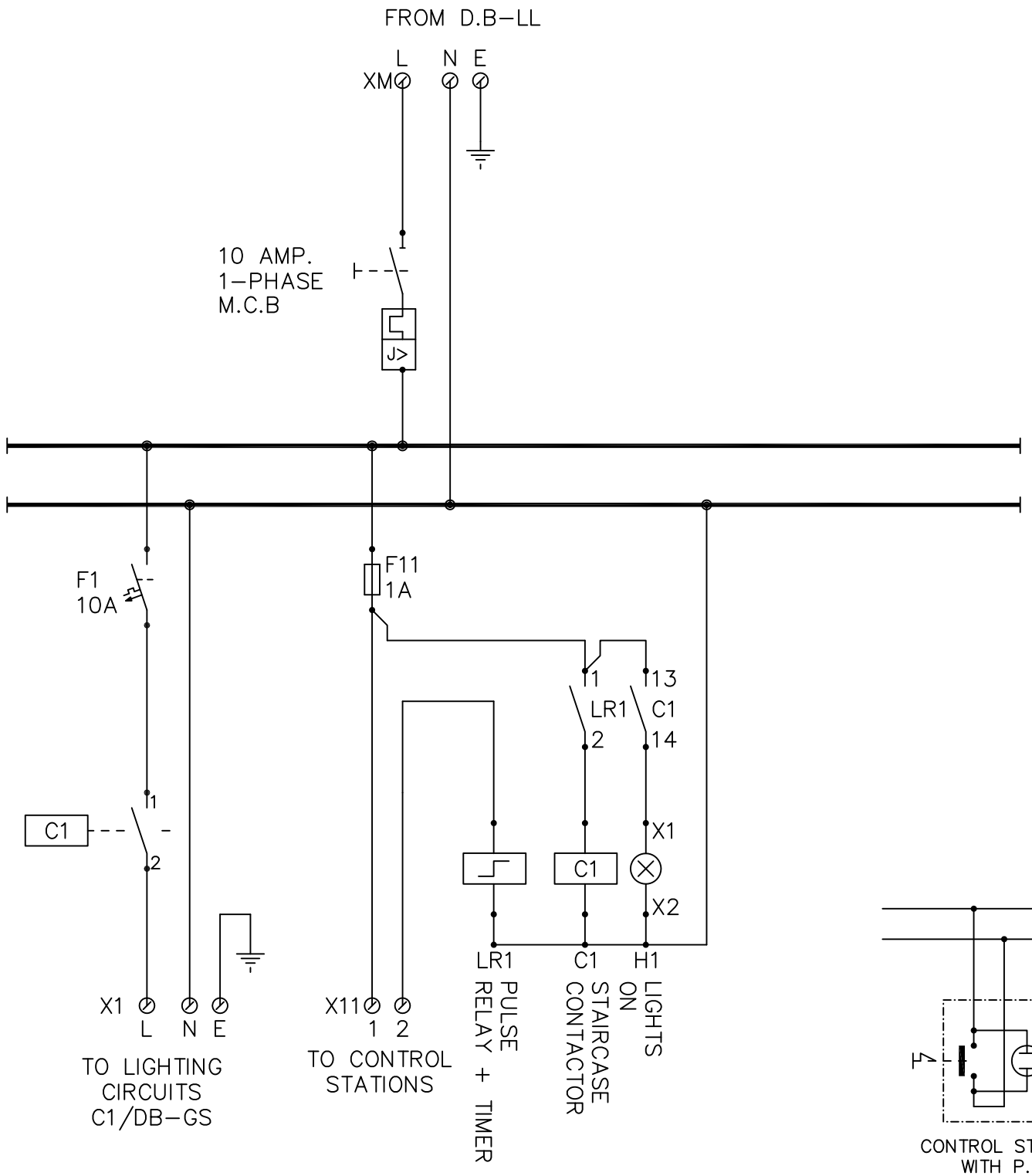
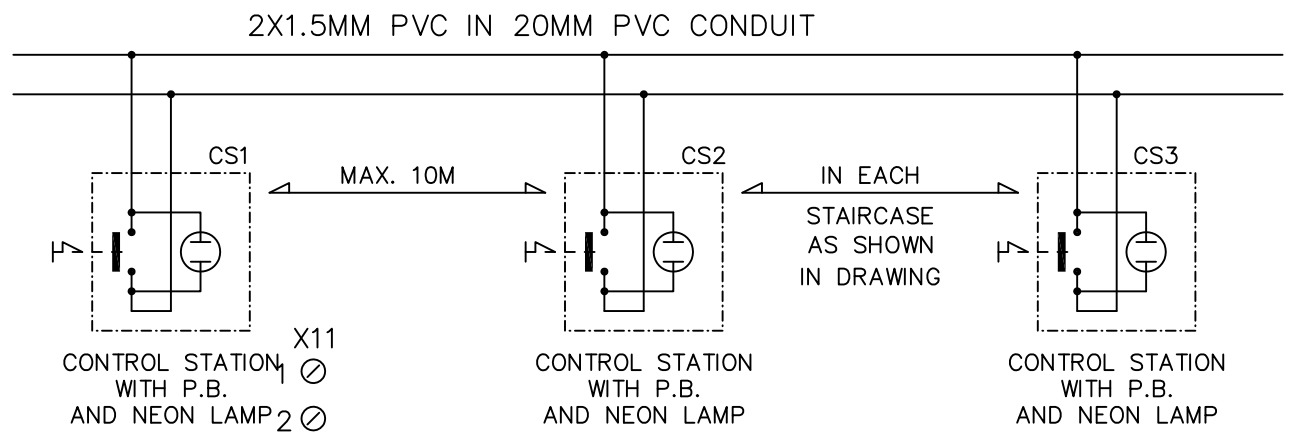
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Intercom, TV. and Telephone Layout for First Floor

Symbol	Drawing No.:	Rev. No.
RES	*T5 - E 10*	R1



TYPICAL STAIRCASE LIGHTING CIRCUIT



TYPICAL LIGHTING CIRCUIT DETAIL FOR STAIRCASE

NOTES

No.	Description	Date	By
4			
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Revisions

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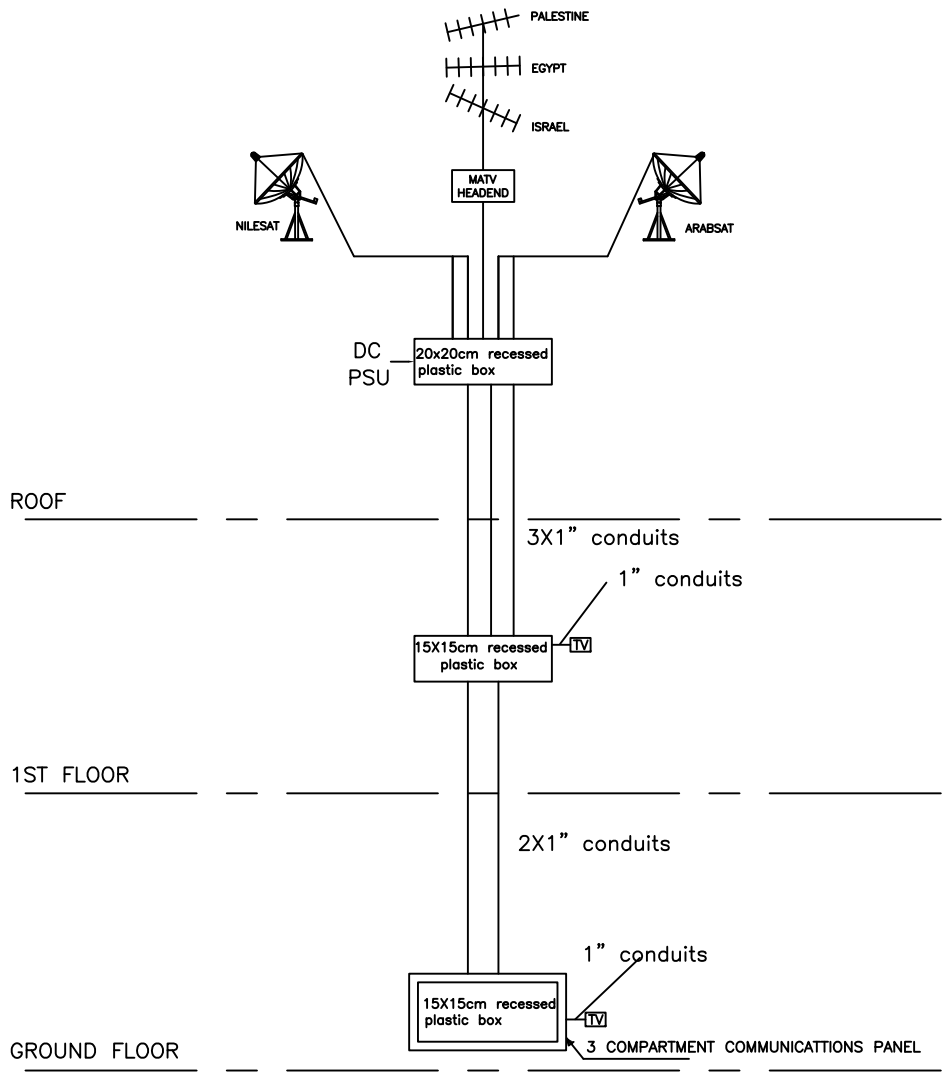
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

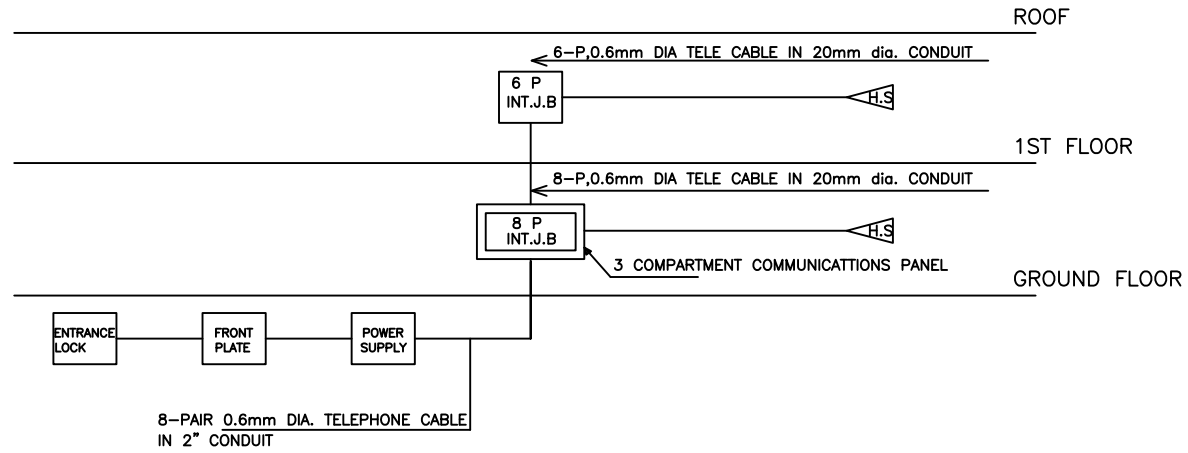
TYPICAL FLAT DISTRIBUTION BOARD

Symbol	Drawing No.:	Rev. No.
RES	T5 - E 11	R1

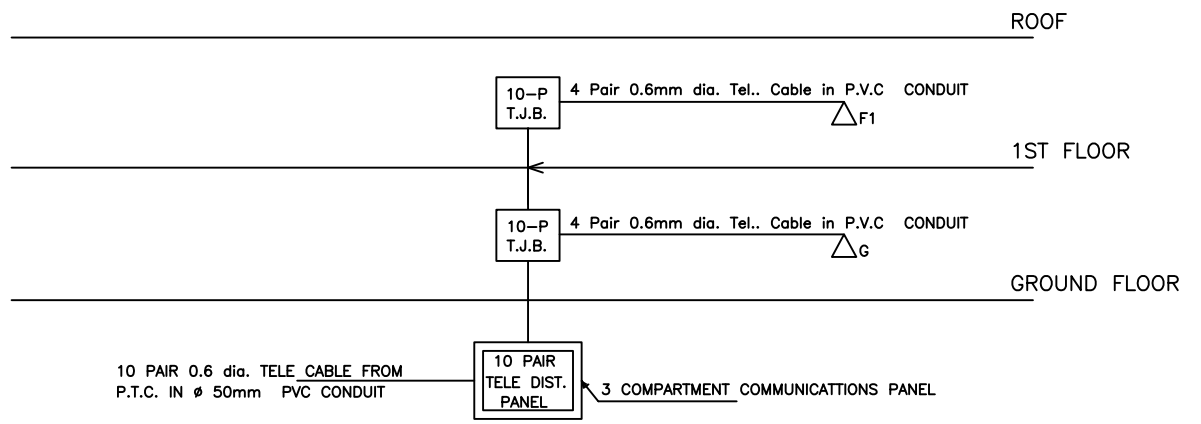


CENTRAL SATELLITE AND TELEVISION RISER DIAGRAM

Carcassing Only (boxes and conduits)



INTERCOM SYSTEM RISER DIAGRAM



TELEPHONE RISER DIAGRAM

NOTES

LEGEND:

P: DENOTES ONE PAIR OF CABLE

H.S : HAND SET COMPLETE WITH LOCK OPENING PUSH BUTTON

FRONT PLATE SHALL BE EQUIPPED WITH:

a) AUDIO MODULE
b) CALL BUTTON MODULE
c) REMOTE MIC

No.	Description	Date	By
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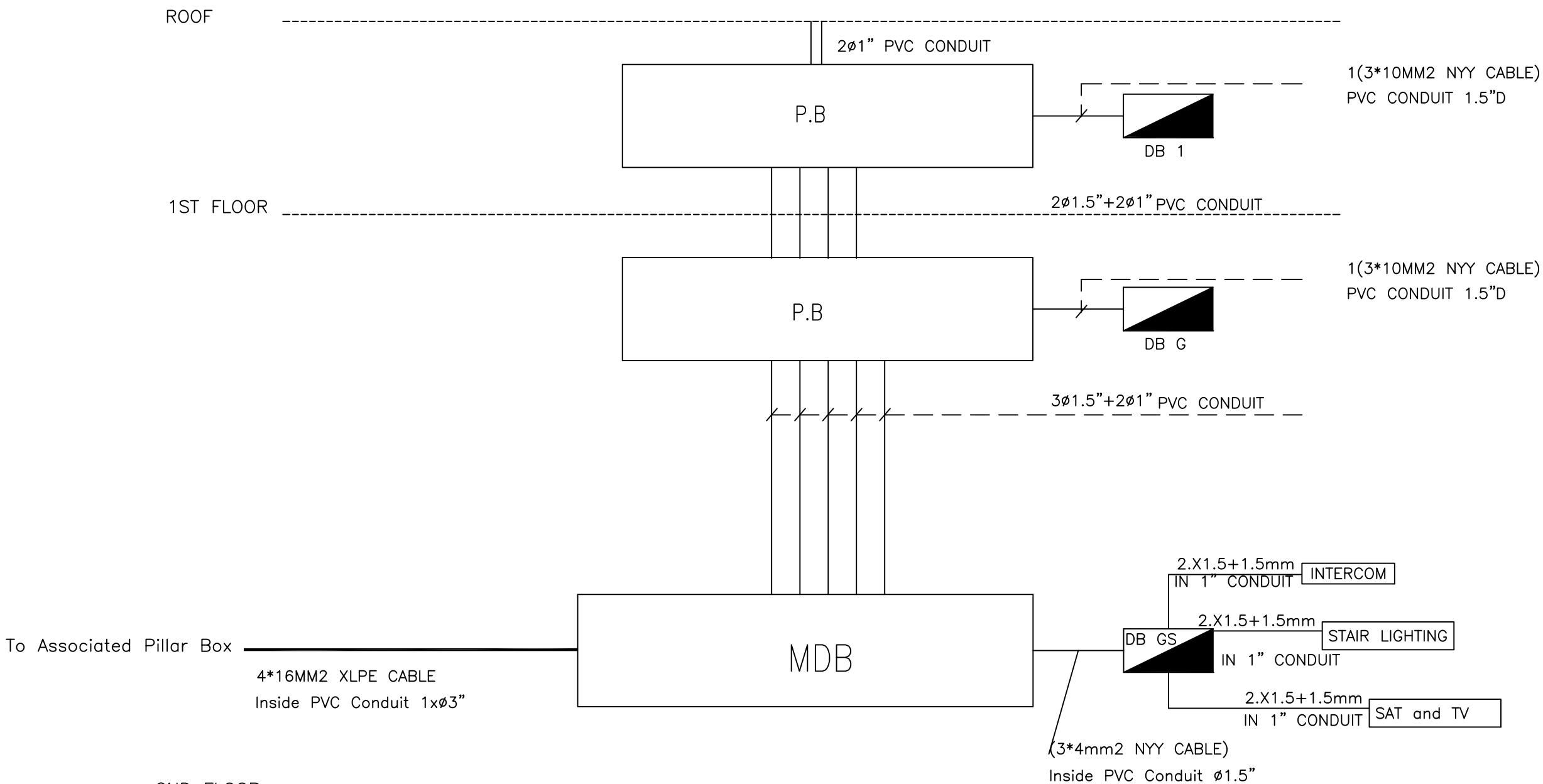
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Tv., Tel., Sat & Intercom Riser Diagram

Symbol	Drawing No.:	Rev. No.
RES	T5 - E 12	R1

NOTES:

1. DO NOT SCALE FROM THIS DRAWING
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL, STRUCTURAL MECHANICAL, ELECTRICAL, ALL OTHER DRAWINGS AND ALL THE RELEVANT SECTIONS OF THE SPECIFICATION
3. EACH K.W.H.M CABINET TO HAVE SUITABLE LOCK WITH MODULAR CONSTRUCTION EQUIPPED WITH DOOR AND SUITABLE GLAZED WINDOW TO READ THE K.W.H.M WITHOUT OPENING THE DOOR.



NOTES

LEGEND

DB SECONDARY DISTRIB. BOARD

DB XY X=FLOOR NO.,Y=FLAT NO.

P.B PULL BOX 40*25*8 CM

No.	Description	Date	By
4			
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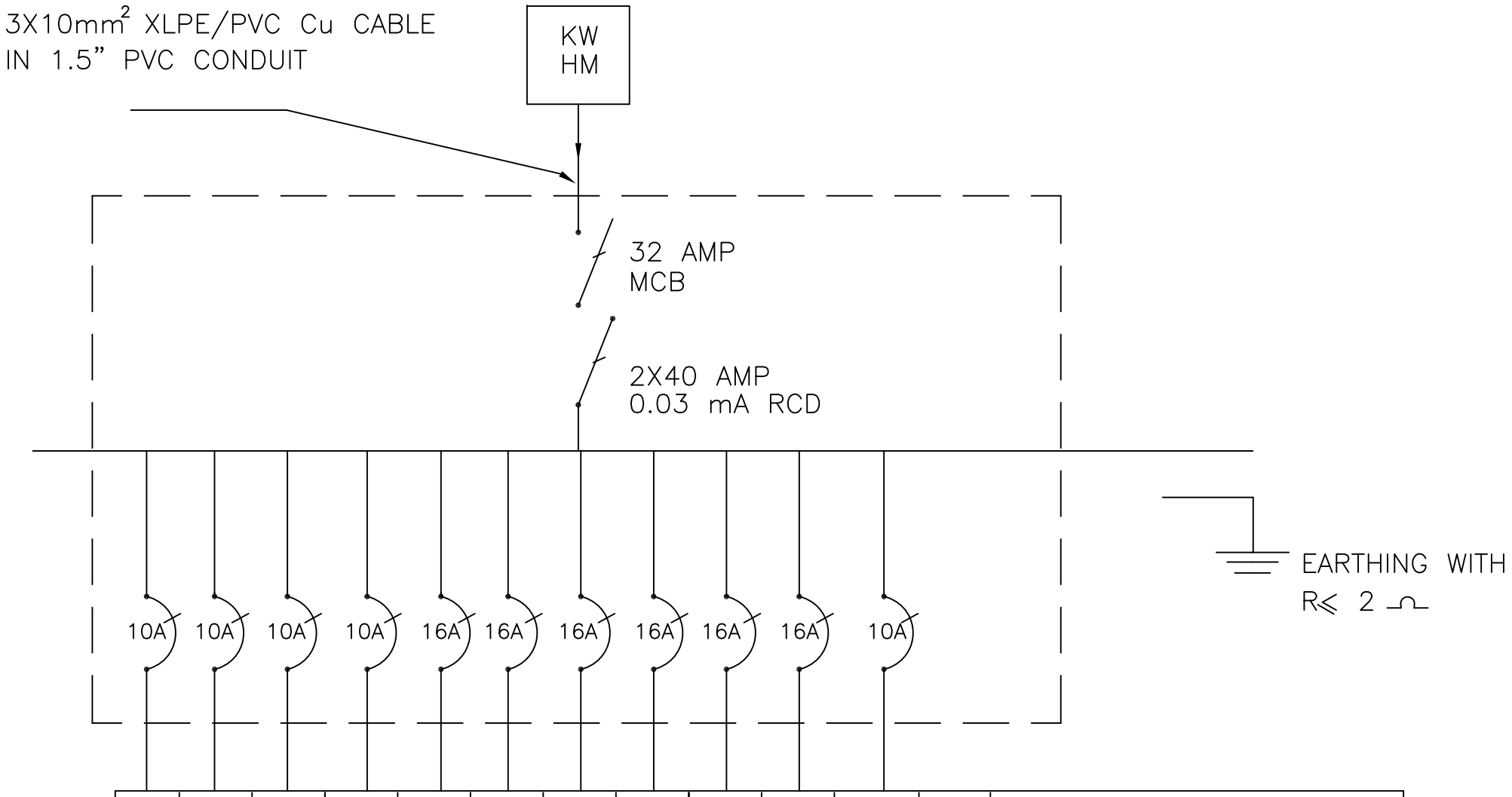
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Power Riser Diagram

Symbol	Drawing No.:	Rev. No.
RES	*T5 - E 13*	R1



L1	L2	L3	L4	P1	P2	P3	P4	P5	PS	LS		CIRCUIT NUMBER
800	700	700	700	800	1000	500	1500	1500		–	–	LOAD IN V.A.
2900				5300					SPARES			8200 TOTAL CONNECTED LOAD V.A
3X1.5 mm²				2x4+2.5 mm²								SIZE OF WRING MM²
20mm DIA HEAVY GAUGE PVC												SIZE OF CONDUIT AND TYPE
LIGHTING				SW. SOCKET OUTLET					SPARE			LOAD SERVED

TOTAL CONNECTED LOAD=8200 VA
DEMAND FACTOR:30%
TOTAL DEMAND=5740 VA

TYPICAL FLAT DISTRIBUTION BOARD

DB-G,1&2

NOTES

No.	Description	Date	By
4			
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Date	File Name	Scale

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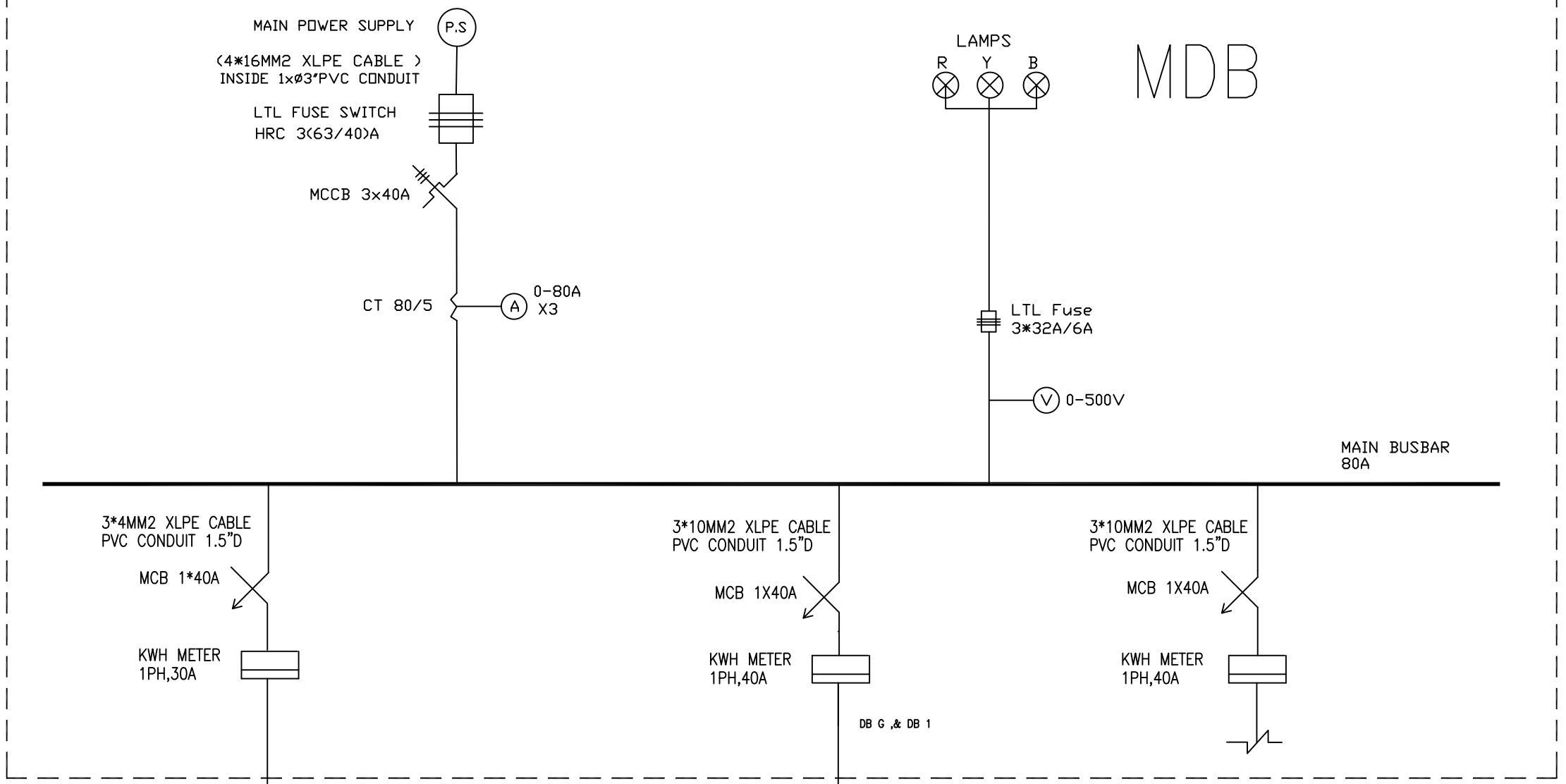
TYPICAL FLAT DISTRIBUTION BOARD

Symbol	Drawing No.:	Rev. No.
RES	*T5 - E 14*	R1



NOTES

No.	Description	Date	By
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PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Distribution Board
Single Line Diagram

Symbol	Drawing No.:	Rev. No.
RES	T5 - E 15	R1

ARCHITECTURAL DRAWINGS

LLL (TYPE 1)

List of Drawings- LLL (Type1)

Architectural Drawings

T1-A-01 Ground Floor Plan- Type L
T1-A-02 First Floor Plan- Type L
T1-A-03 Second Floor Plan- Type L
T1-A-04 Roof Floor Plan- Type L
T1-A-05 Furniture Plan- Typical Floor (Type L)
T1-A-06 Main Elevation- No. 1
T1-A-07 Rigth Side Elevation- No. 2
T1-A-08 Rare Elevation- No. 3
T1-A-09 Left Side Elevation- No. 4
T1-A-10 Section A---A
T1-A-11 Section B---B

Mechanical Drawings

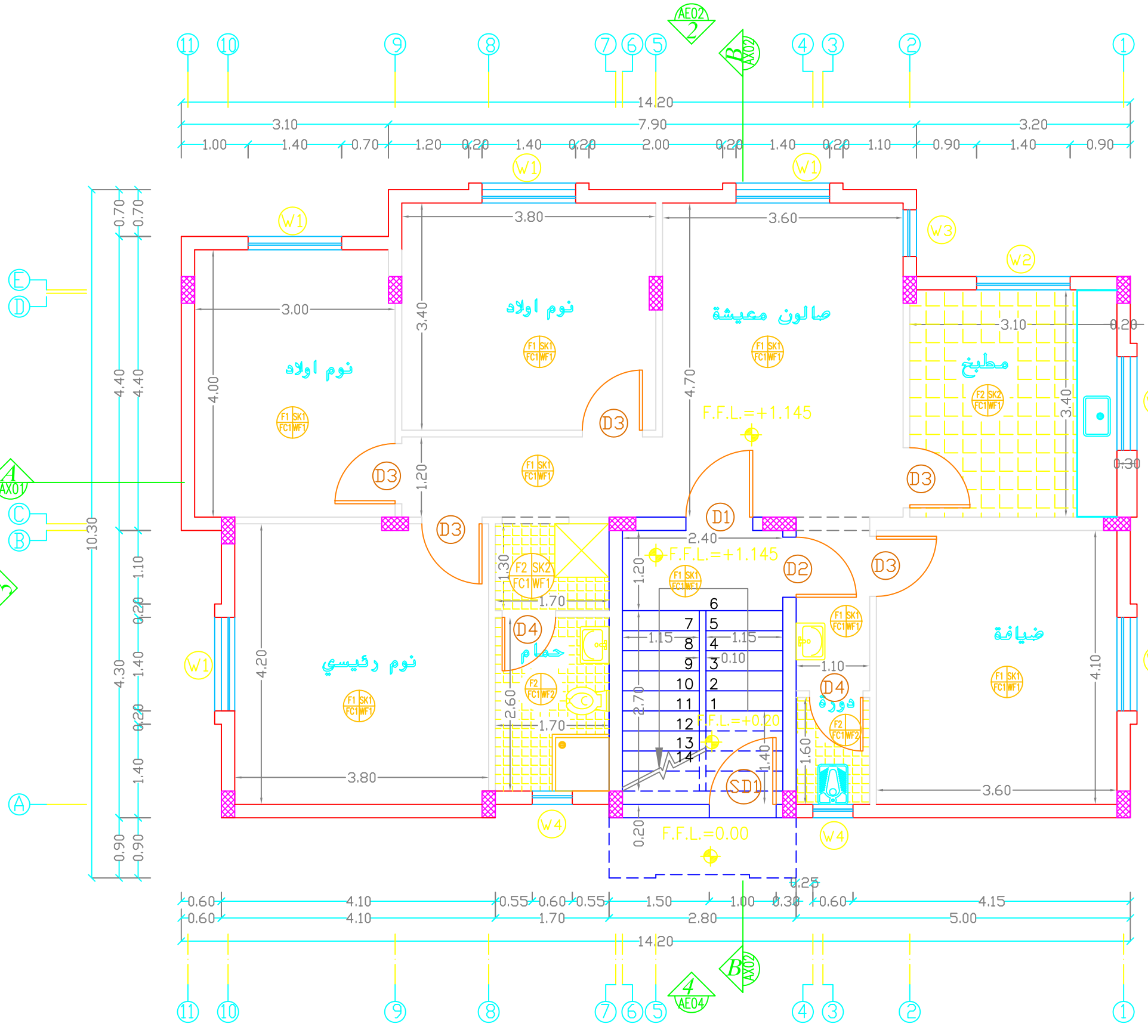
T1-M-01 Legened, General Notes, & List of Mechanical Drawings
T1-M-02 Typical Detail of Manhole & Pipeline
T1-M-03 Drainage System for Ground Floor
T1-M-04 Drainage System for First & Second Floor
T1-M-05 Water System for Ground Floor
T1-M-06 Water System for First & Second Floor
T1-M-07 Water Supply & Distribution Box
T1-M-08 Water Tanks on Stair
T1-M-09 Water System For Typical Floor
T1-M-10 Roof Floor Drainage System

Civil Drawings

T1-C-01 Axies of Columns Necks
T1-C-02 Axies of Columns
T1-C-03 Footings Plan
T1-C-04 Footings Details
T1-C-05 Footings Table
T1-C-06 Secondary Beam Plan & Details
T1-C-07 Columns Table & Details
T1-C-08 Columns & Ground Slab Details
T1-C-09 Main Ground Beams Plan
T1-C-10 Main Ground Beams Details
T1-C-11 Beam Details & Reinforcement For Typical Floor-1
T1-C-12 Beam Details & Reinforcement For Typical Floor-2
T1-C-13 Beam Details & Reinforcement For Typical Floor-3
T1-C-14 Beam Details & Reinforcement For Typical Floor-4
T1-C-15 Ribs Details Reinforcement For Typical Floor

Electrical Drawings

T1-E-01 Legend for Electrical Fitting
T1-E-02 Earthing System
T1-E-03 Main Electrical Incoming and Distributions
T1-E-04 Distribution Boards For First & Typical Floor
T1-E-05 Power Outlets Layout For Ground Floor
T1-E-06 Power Outlets Layout For First & Typical Floor
T1-E-07 Lighting Layout For Ground Floor
T1-E-08 Lighting Layout For First & Typical Floor
T1-E-09 Intercom, TV. and Telephone Layout For Ground Floor
T1-E-10 Intercom, TV. and Telephone For First & Typical Floor
T1-E-11 Typical Distribtion Board For Staircase
T1-E-12 Tv., Tel., Sat and Intercom Riser Diagram
T1-E-13 Power Riser Diagram
T1-E-14 Typical Flat Distribtion Board
T1-E-15 Main Distribution Board, Single Line Diagram



GROUND FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
3			
2			
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Revisions

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Date	File Name	Scale

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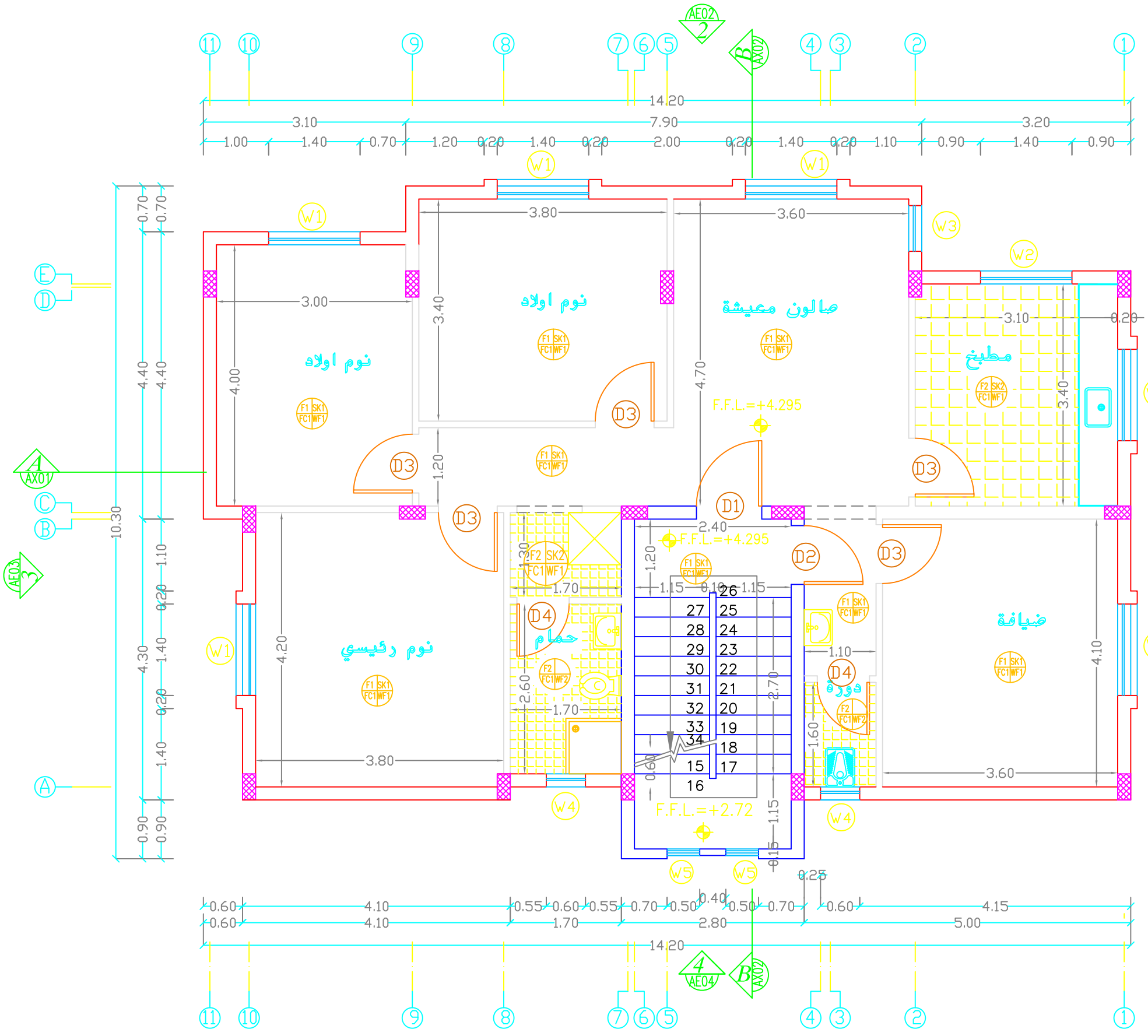
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Ground Floor Plan
Type L

Symbol	Drawing No.:	Rev. No.
RES	T1-A01	R1



FIRST FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

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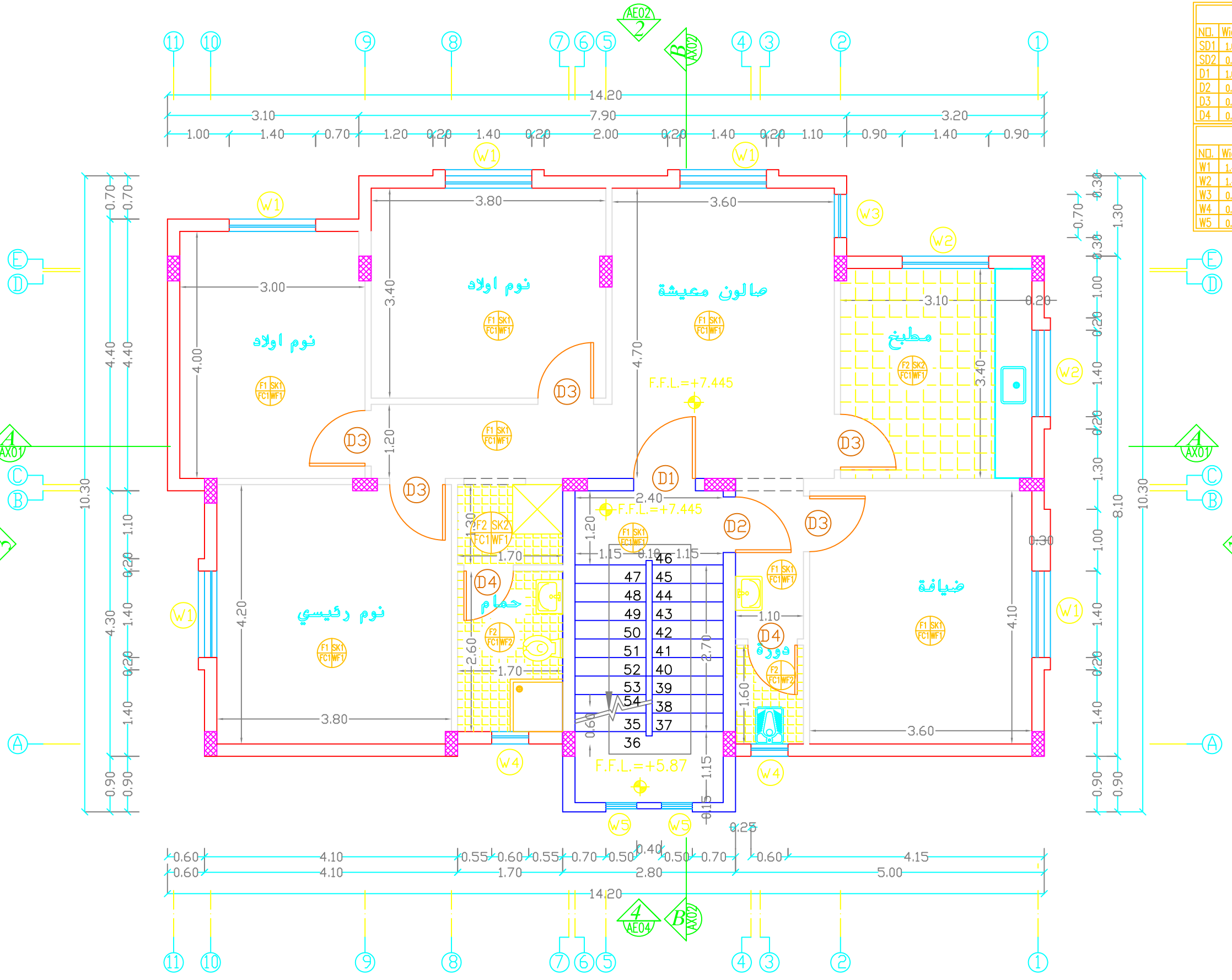
First Floor Plan
Type L

Symbol	Drawing No.:	Rev. No.
RES	T1-A02	R1



SECOND FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
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Revisions

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Date	File Name	Scale

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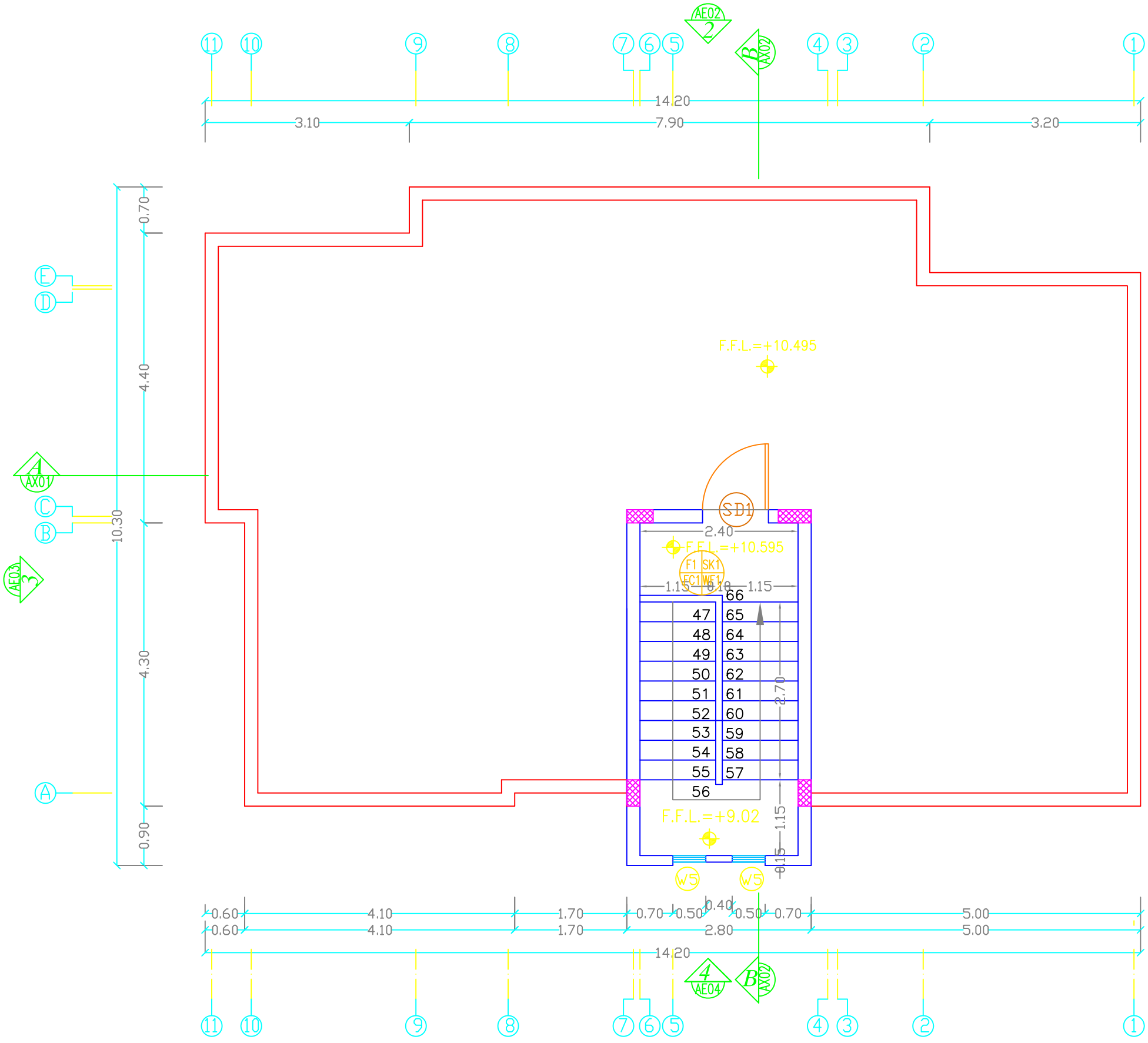
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Second Floor Plan
Type L

Symbol	Drawing No.:	Rev. No.
RES	T1-A03	R1



ROOF FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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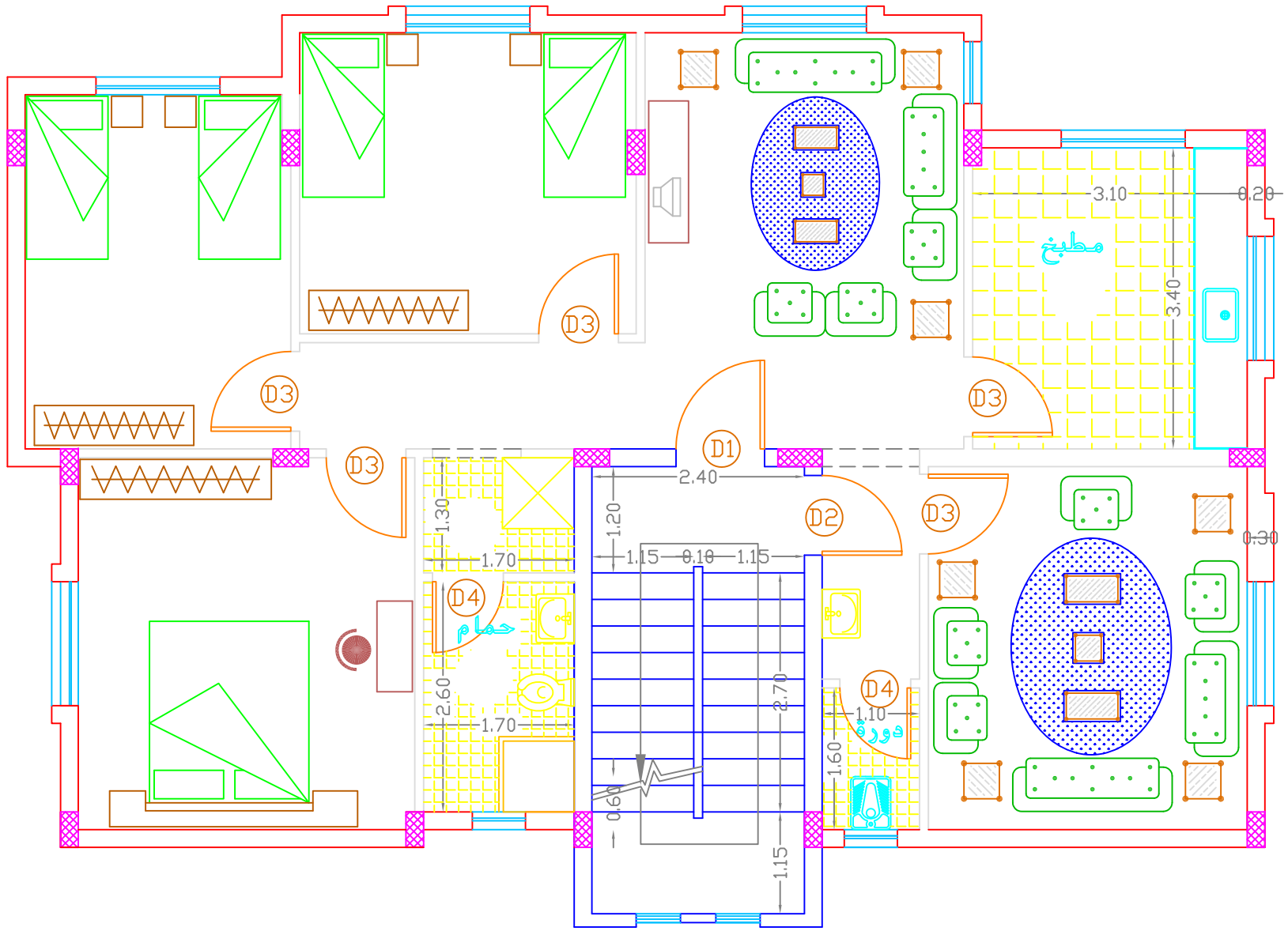
Roof Floor Plan
Type L

Symbol	Drawing No.:	Rev. No.
RES	T1-A04	R1



FURNITURE PLAN TYPICAL FLOOR

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

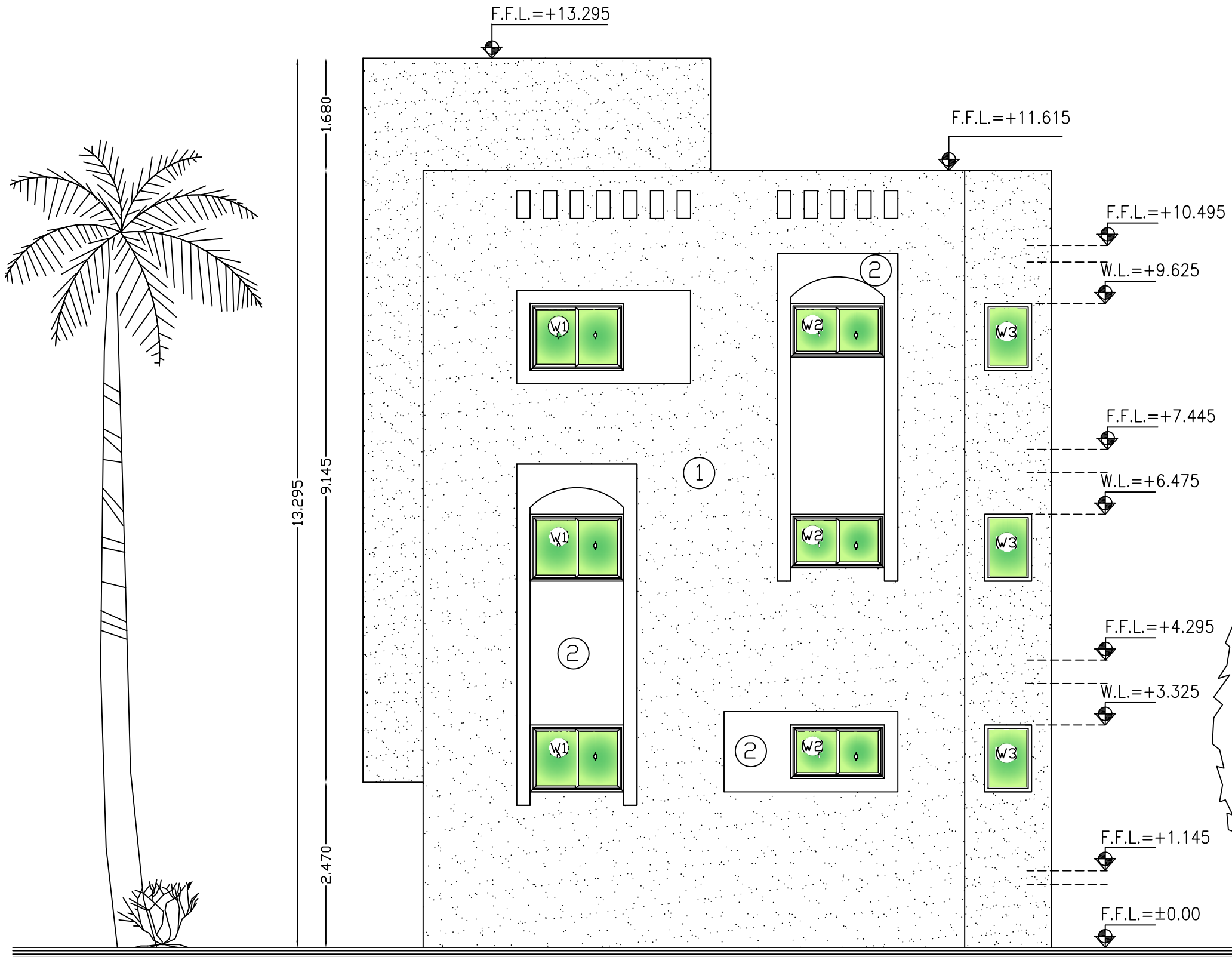
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Furniture Plan Typical Floor
Type L

Symbol	Drawing No.:	Rev. No.
RES	T1-A05	R1



Main Elevation

NO. 1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
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2			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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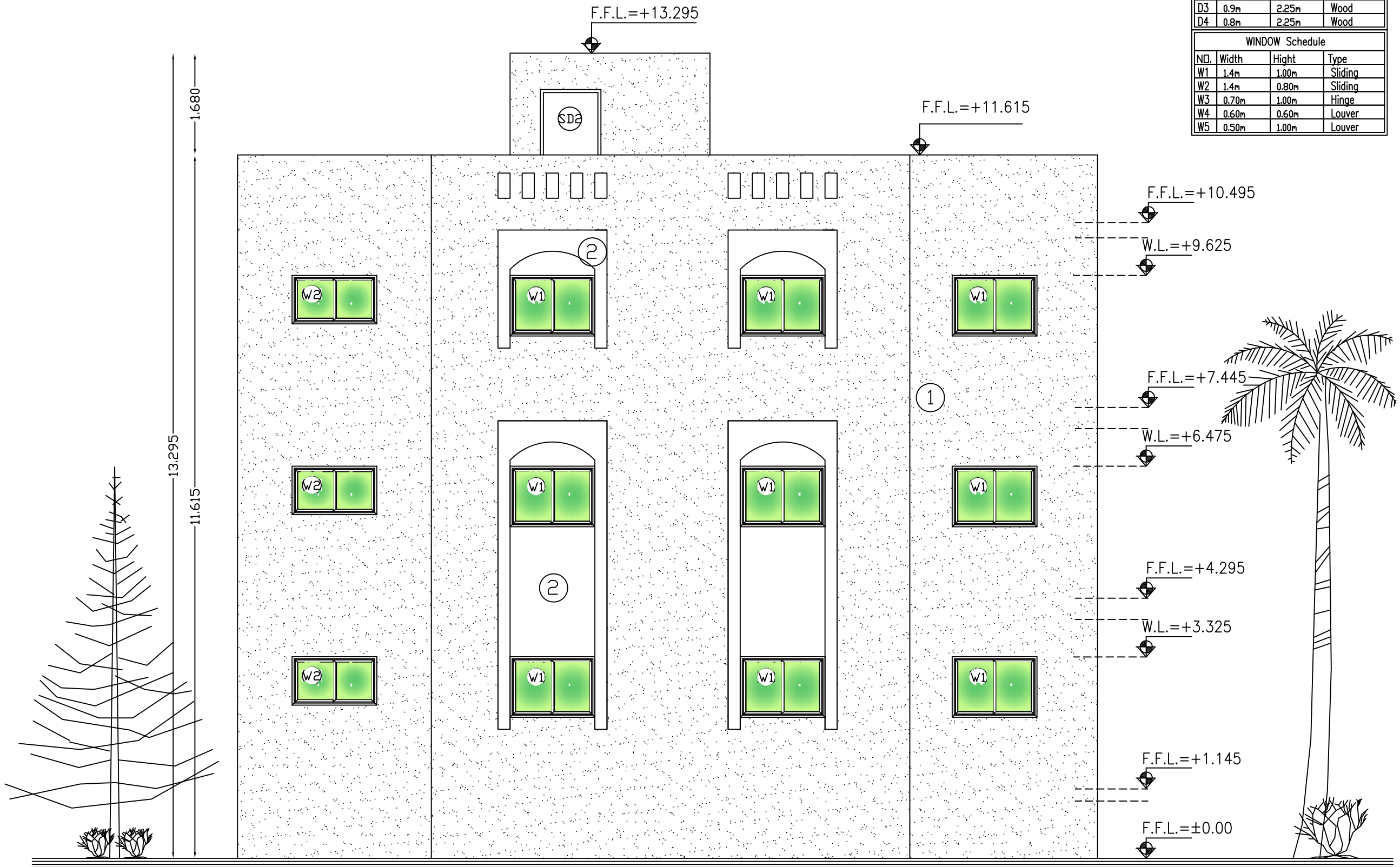
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Elevation NO. 1

Symbol	Drawing No.:	Rev. No.
RES	T1-A06	R1



Right Side Elevation

NO. 2

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
3			
2			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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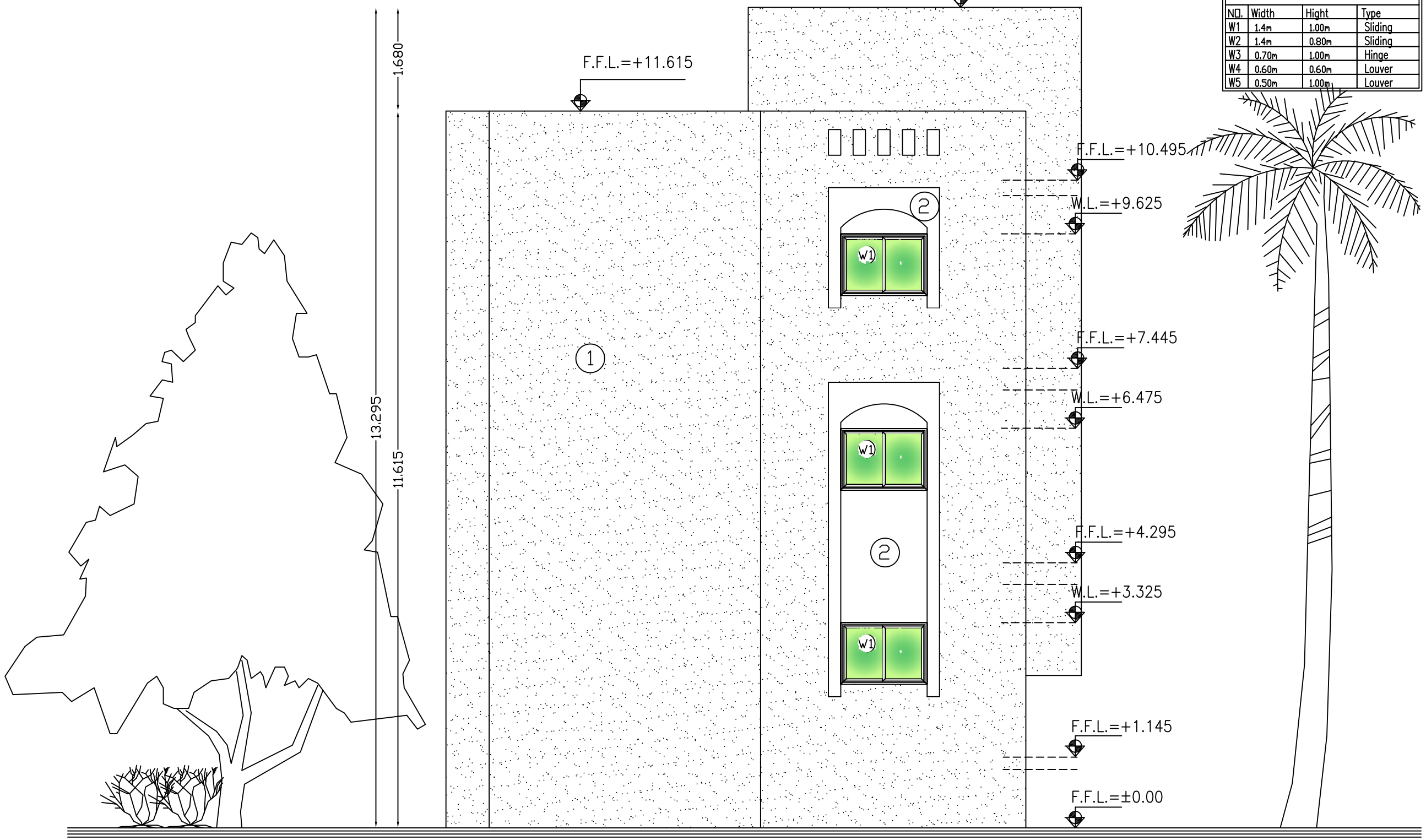
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Right Side Elevation NO. 2

Symbol	Drawing No.:	Rev. No.
RES	T1-A07	R1



Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
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2			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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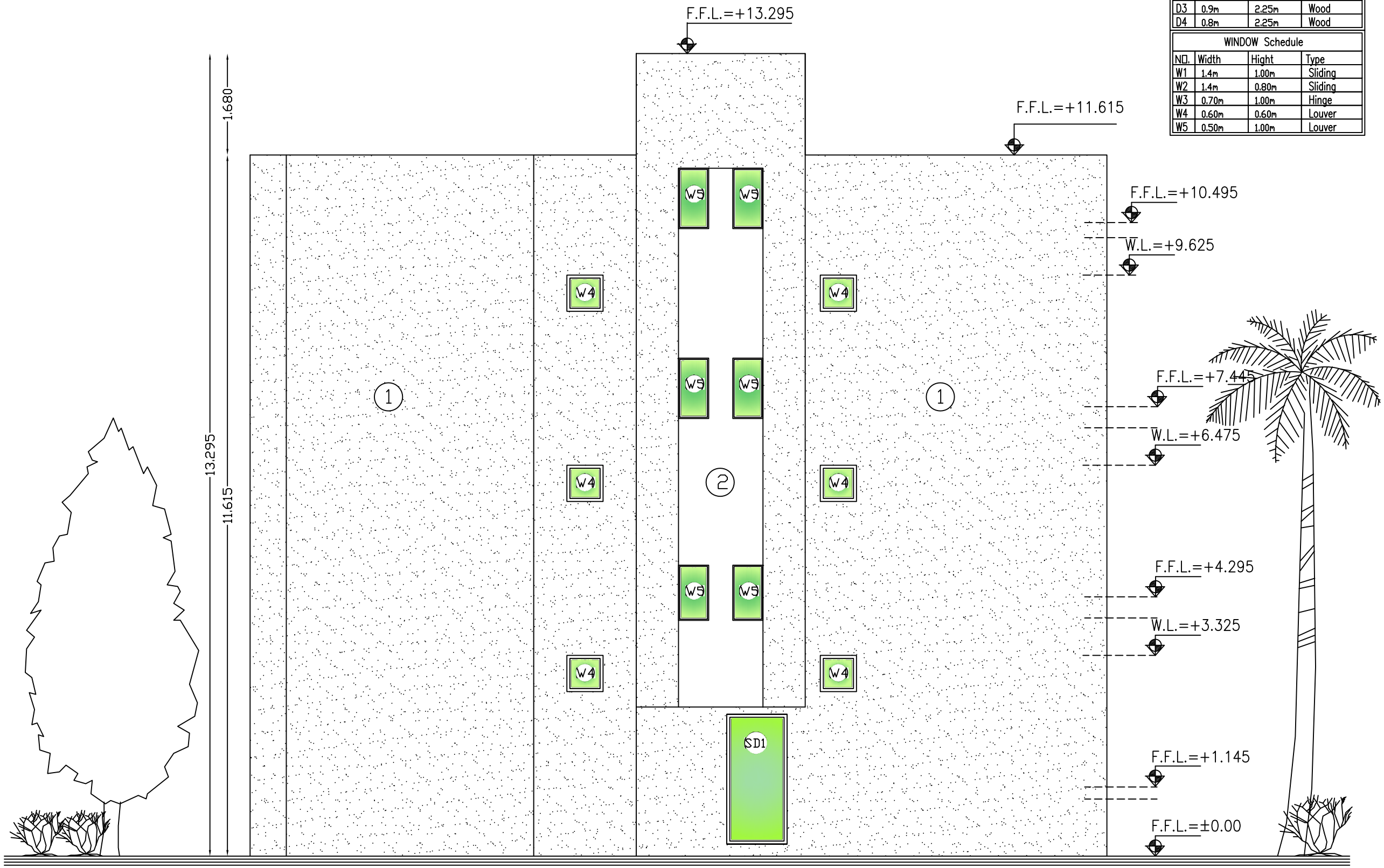
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Rare Elevation NO. 3

Symbol	Drawing No.:	Rev. No.
RES	T1-A08	R1

Rare Elevation

NO. 3



Left Side Elevation

NO. 4

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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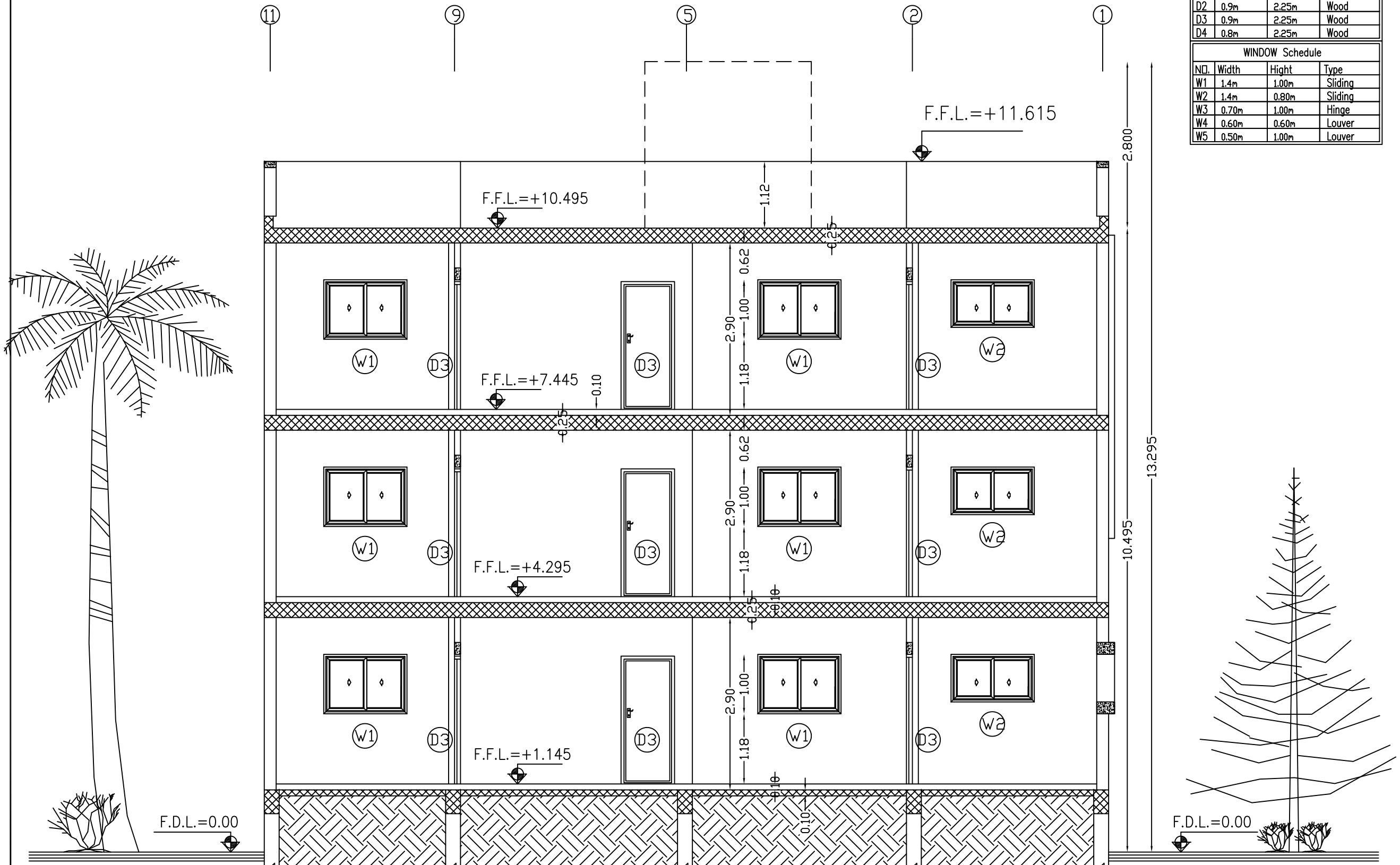
IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Left Side Elevation NO. 4

Symbol	Drawing No.:	Rev. No.
RES	T1-A09	R1



Section A___A

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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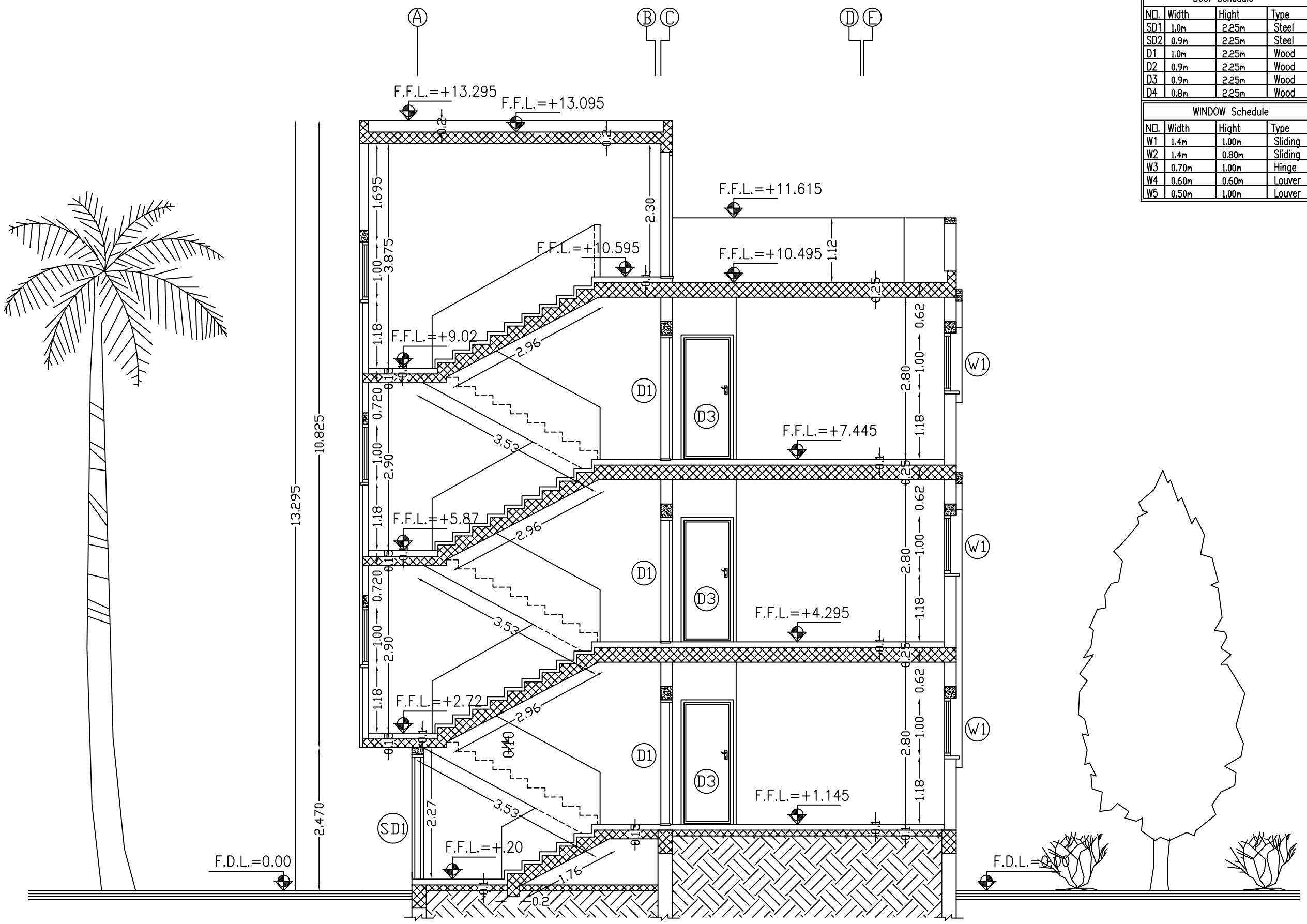
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Section A----A

Symbol	Drawing No.:	Rev. No.
RES	T1-A10	R1



Section B____B

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Section B----B

Symbol	Drawing No.:	Rev. No.
RES	T1-A11	R1

MECHANICAL DRAWINGS

LLL (TYPE 1)

LEGEND, ABBREVIATIONS AND SYMBOLS

BD	⊠	BALCONY DRAIN
BDR		BALCONY DRAIN RISER
CW		COLD WATER PIPE
MH	◯	MANHOLE
RW		RAIN WATER PIPE
——		Cold water
- - -		Hot water
WDB		BOX
– ⟍◯		FLOAT VALVE
– –		GATE VALVE
–NC–		NORMALLY CLOSED VALVE
⋈		GLOBE VALVE
⋈		BUTTERFLY VALVE
⋈		SOLINOID VALVE
R.W.P		RAIN WATER PIPE WITH FLOOR TRAP
———		2" UPVC DRINAG PIPE
———		4" UPVC DRAINAG PIPE
———		6" UPVC PIPE (MANHOLE CONECTION)
F.T		4''UPVC B.D.P BALCONY DRAIN PIPE
○○		4"UPVC RISER SOLID, FLUID WASTE
F.T		FLOOR TRAP
⊘		WATER METER 3/4"

SANITARY FIXTURES CONNECTION

UNLESS OTHERWISE NOTED THE CONNECTIONS FOR THE FIXTURE UNITS WILL BE AS FOLLOWS .

KS	KITCHEN SINK	2" (50 mm)
JS/LS	JANITOR SINK/LAVATORY	2" (50 mm)
WB/LAV	HAND WASH BASIN	2" (50 mm)
WC	WATER CLOSET	4" (100 mm)
W/M	WASHING MACHINE	2" (50 mm)
FD	FLOOR DRAIN	3" (75 mm)

NOTES:

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

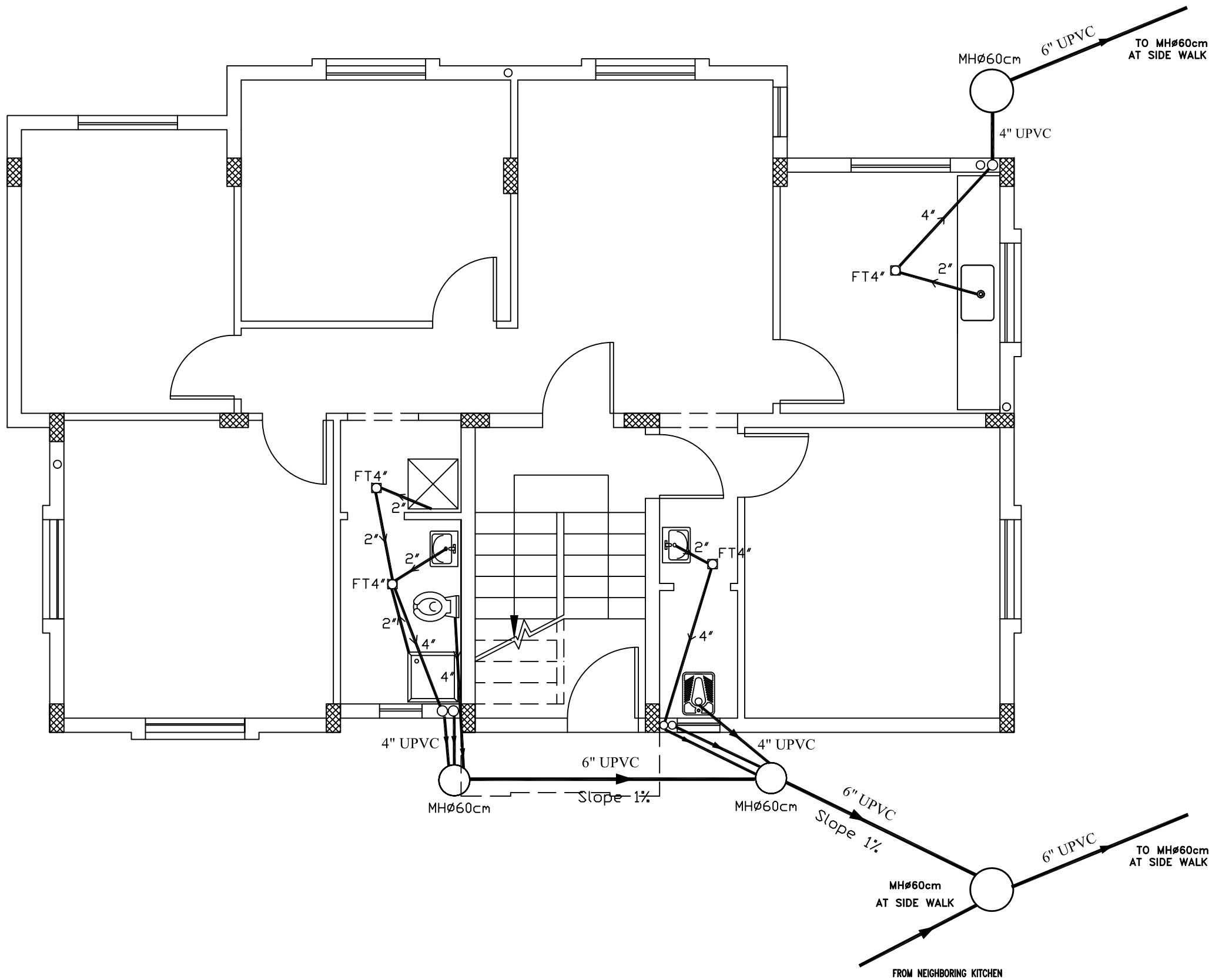
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Legend, General Notes & List of Mechanical Drawings

Symbol	Drawing No.:	Rev. No.
RES	T1 - M 01	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

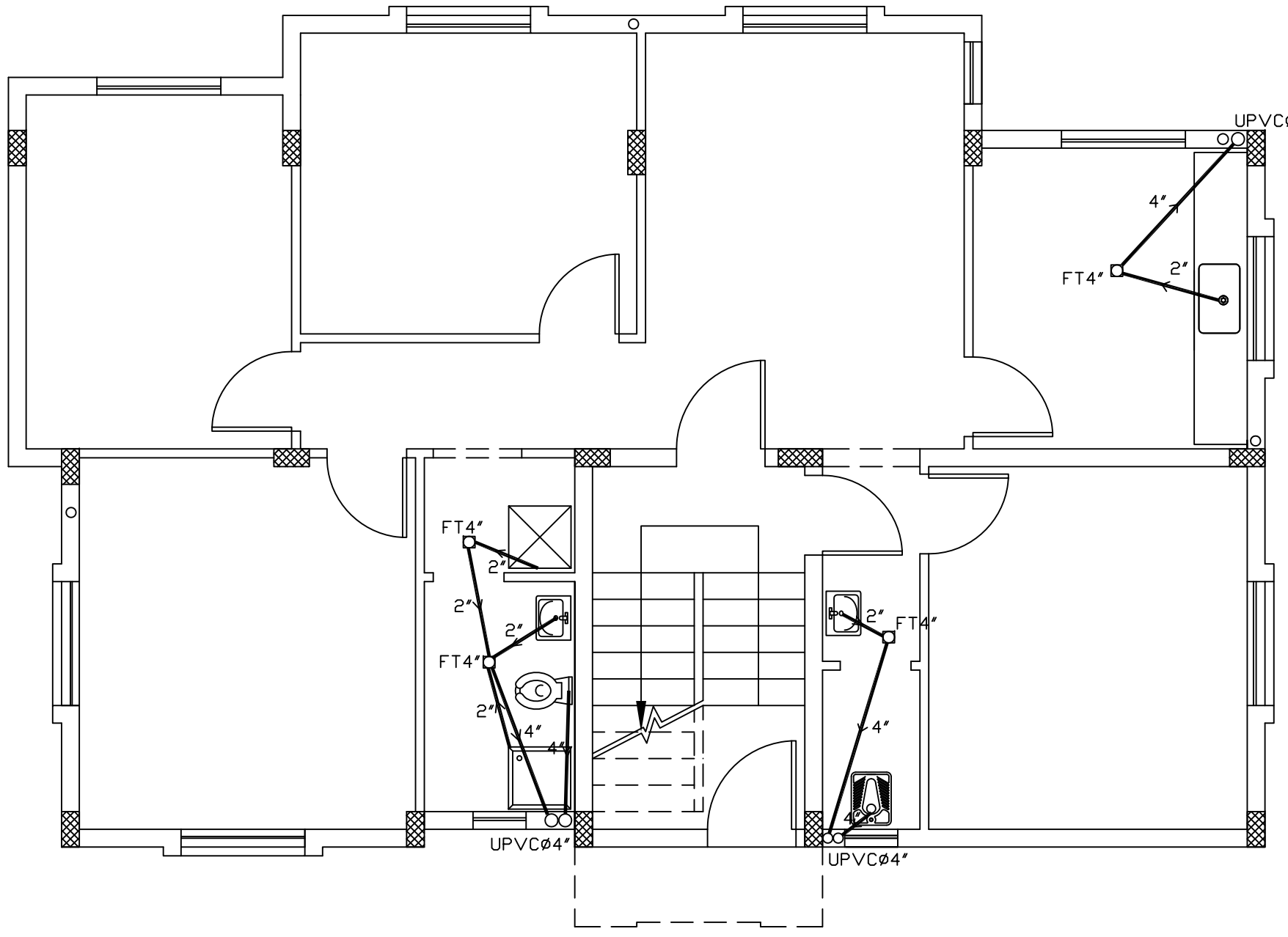
UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Typical Detail Of Manhole & Pipeline

Symbol	Drawing No.:	Rev. No.
RES	T1 - M 02	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

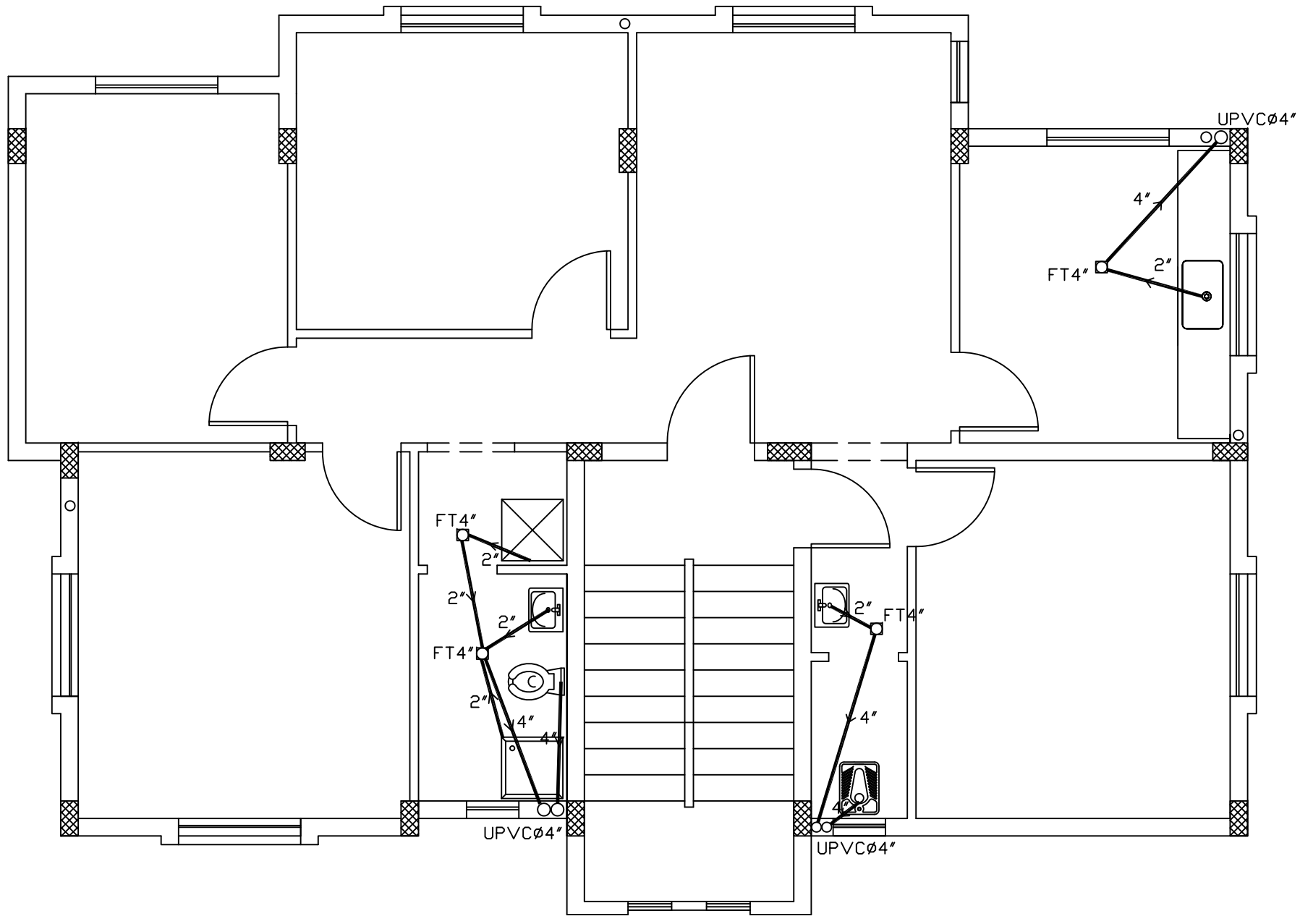
UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Drainage System for Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	*T1 - M 03*	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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IMPLEMENTED BY:

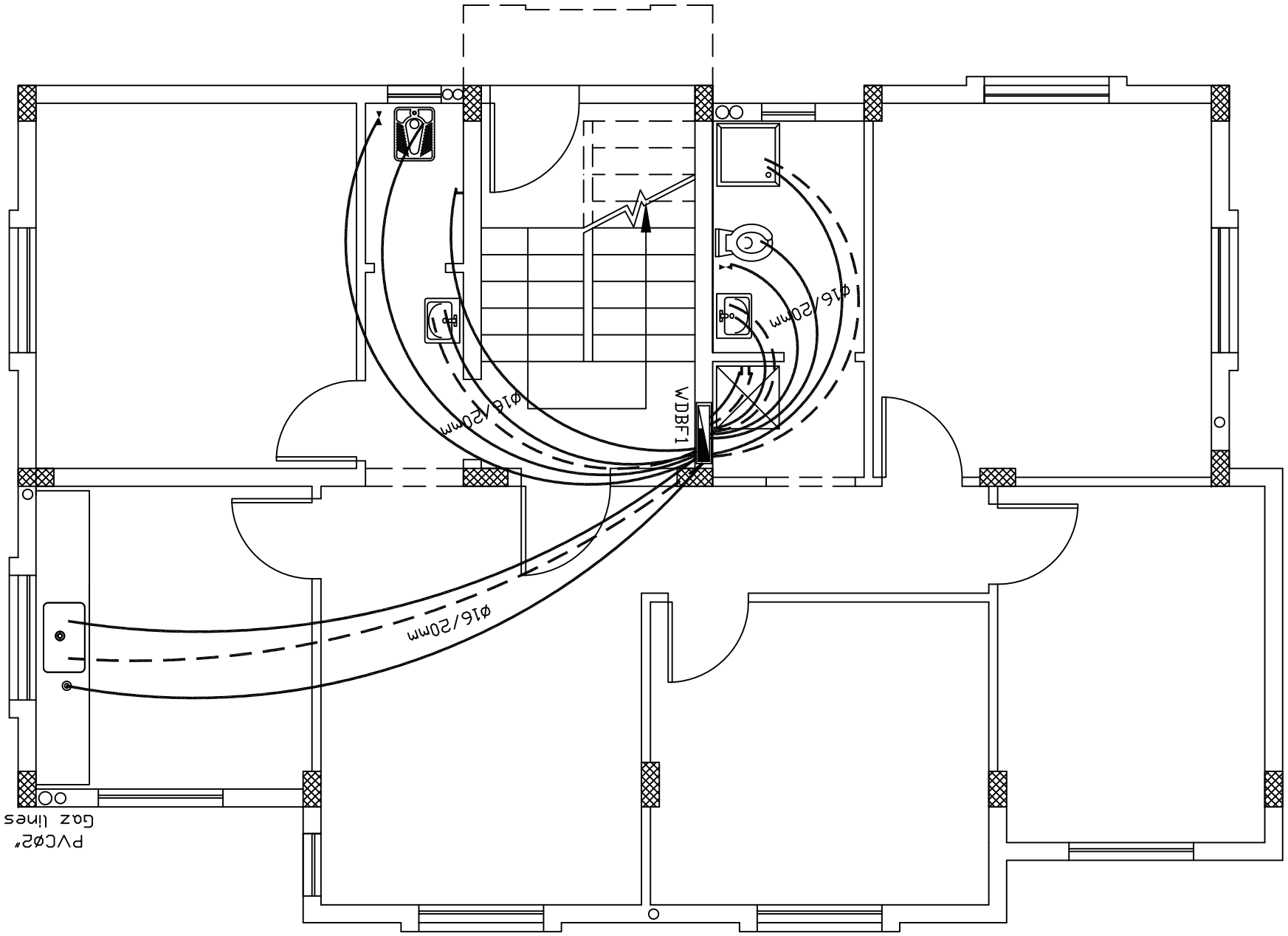
UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Drainage System for First and Second Floor

Symbol	Drawing No.:	Rev. No.
RES	*T1 - M 04*	R1



NOTES:

COLD (GOLLANI)

HOT (GOLLANI)

EWH WATER HEATER 150 LITERS

WDB BOX

F.H 2" HOSE REEL 3/4

2"w.o WASH OUT VALVE

3/4" A.V WATER AIR VENT

3/4" w.i

R.W.T & FH. L.

WATER METER 3/4"

No.	Description	Date	By
1			
2			
3			
4			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

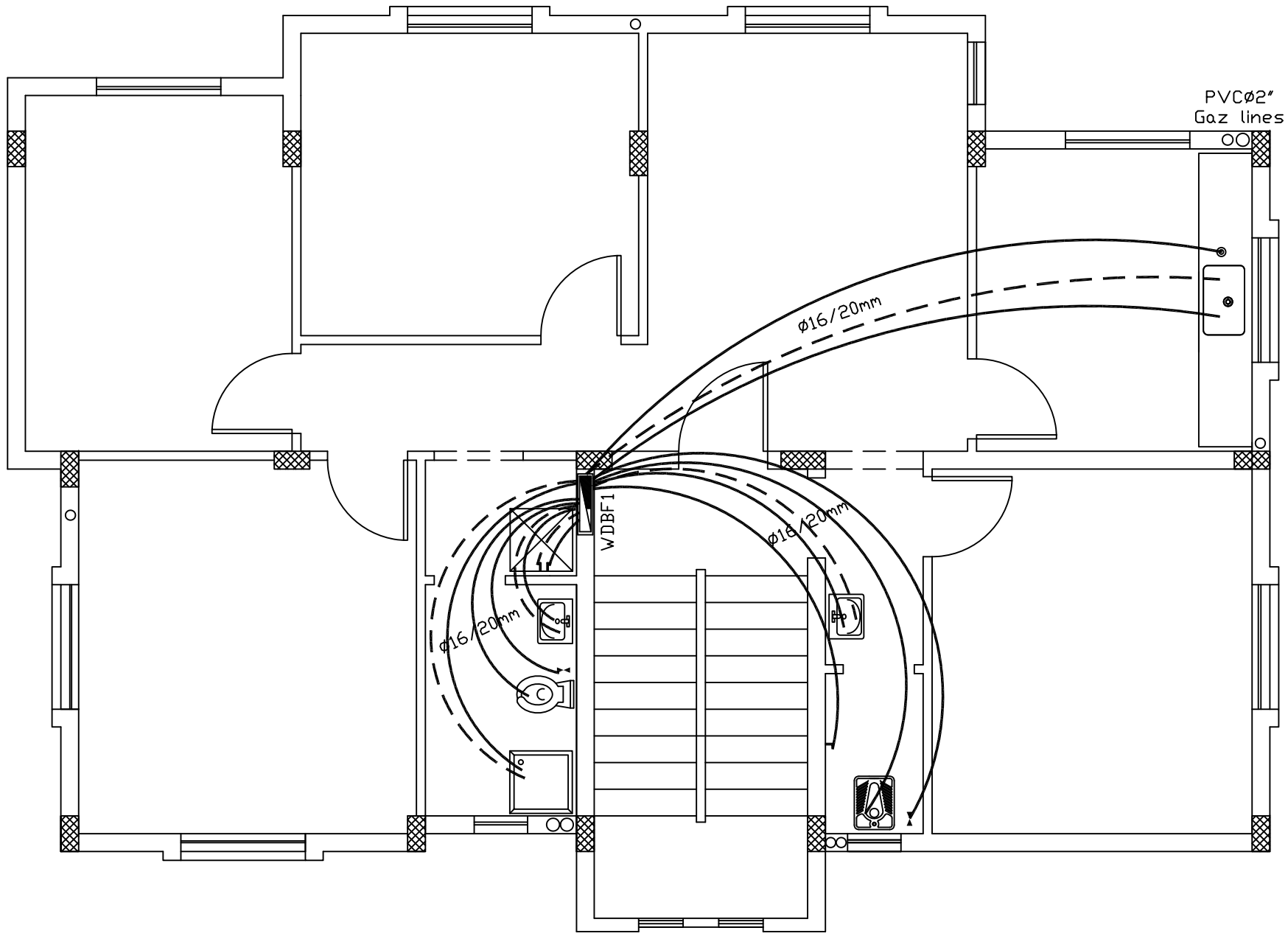
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water System for Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	T1 - M 05	R1



NOTES:

———	COLD (GOLLANI)
- - - -	HOT (GOLLANI)
EWH	WATER HEATER 150 LITERS
WDB	BOX
F.H	2"
	HOSE REEL 3/4
2"w.o	WASH OUT VALVE
3/4" A.V	WATER AIR VENT
3/4" w.i	
R.W.T & FH. L.	
	WATER METER 3/4"

No.	Description	Date	By
4			
3			
2			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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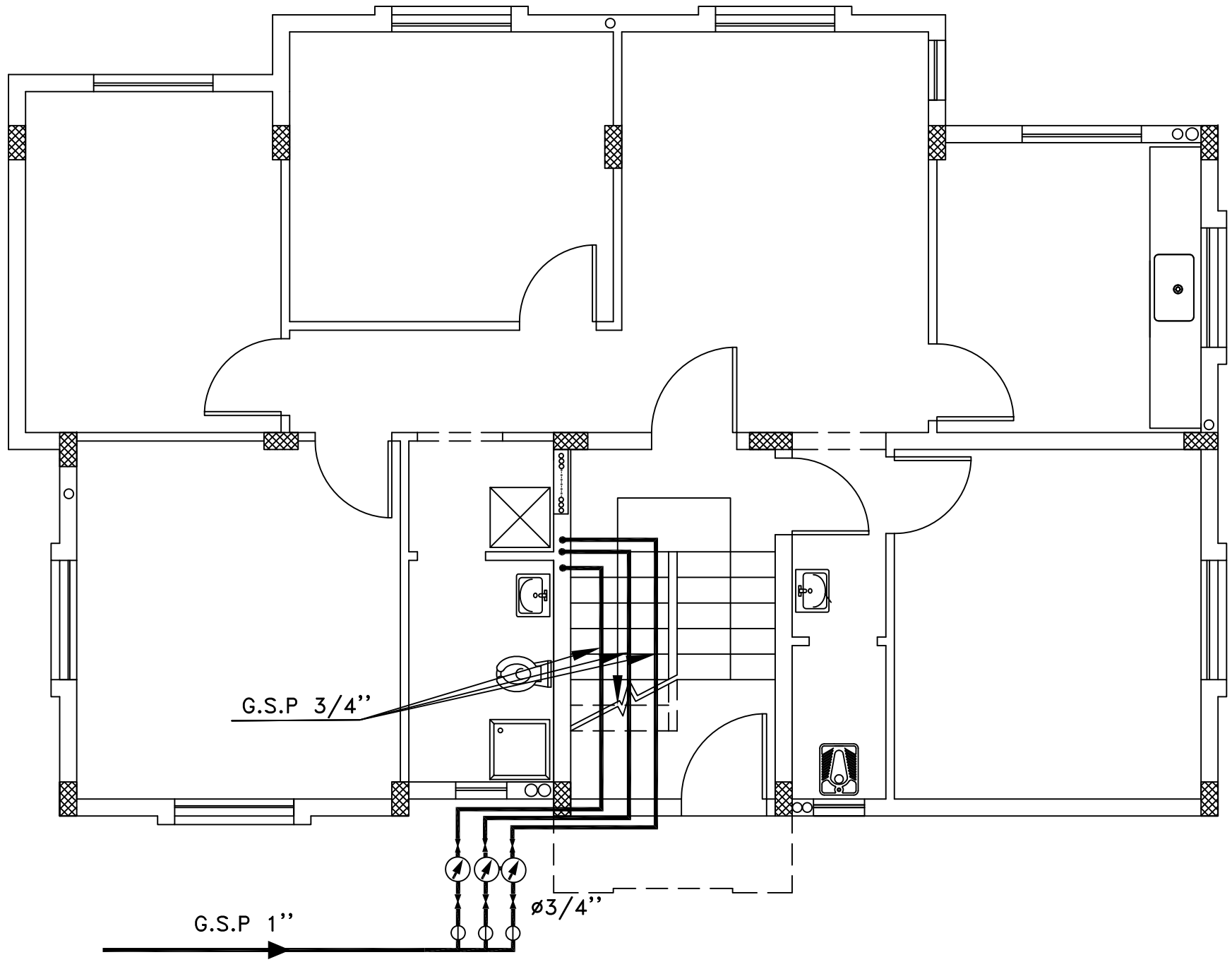
IMPLEMENTED BY:

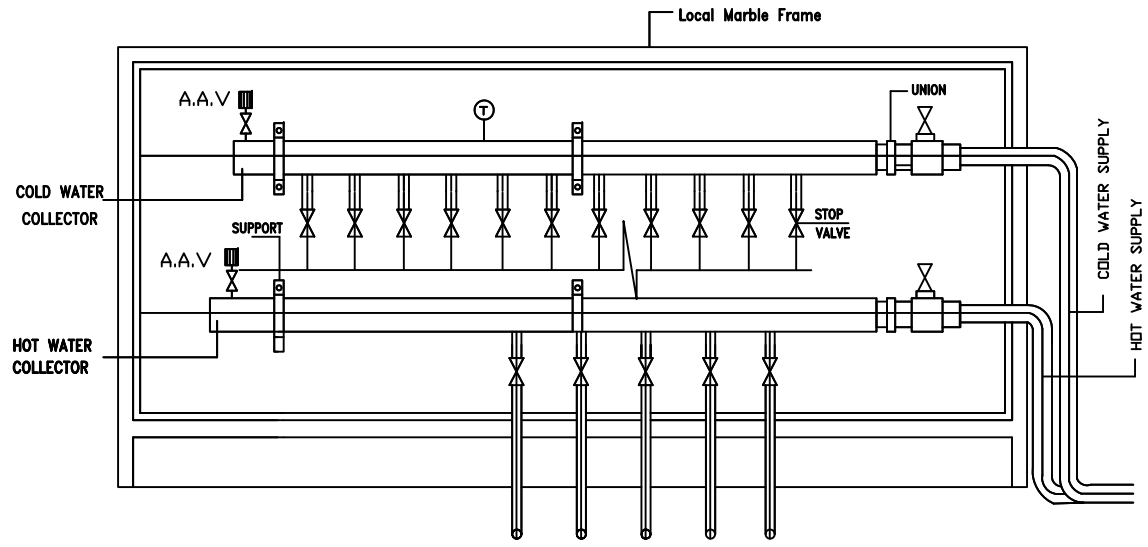
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water System for First & Second Floor

Symbol	Drawing No.:	Rev. No.
RES	*T1 - M 06*	R1





DISTRIBUTION BOX

Size of DB according to actual outlets

NOTES:

- COLD (GOLLANI)
- HOT (GOLLANI)
- EWH — WATER HEATER 150 LITERS
- WDB — BOX
- F.H 2''
- HOSE REEL 3/4
- 2''w.o — WASH OUT VALVE
- 3/4'' A.V — WATER AIR VENT
- 3/4'' w.i
- R.W.T & FH. L.
- WATER METER 3/4"

No.	Description	Date	By
4			
3			
2			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

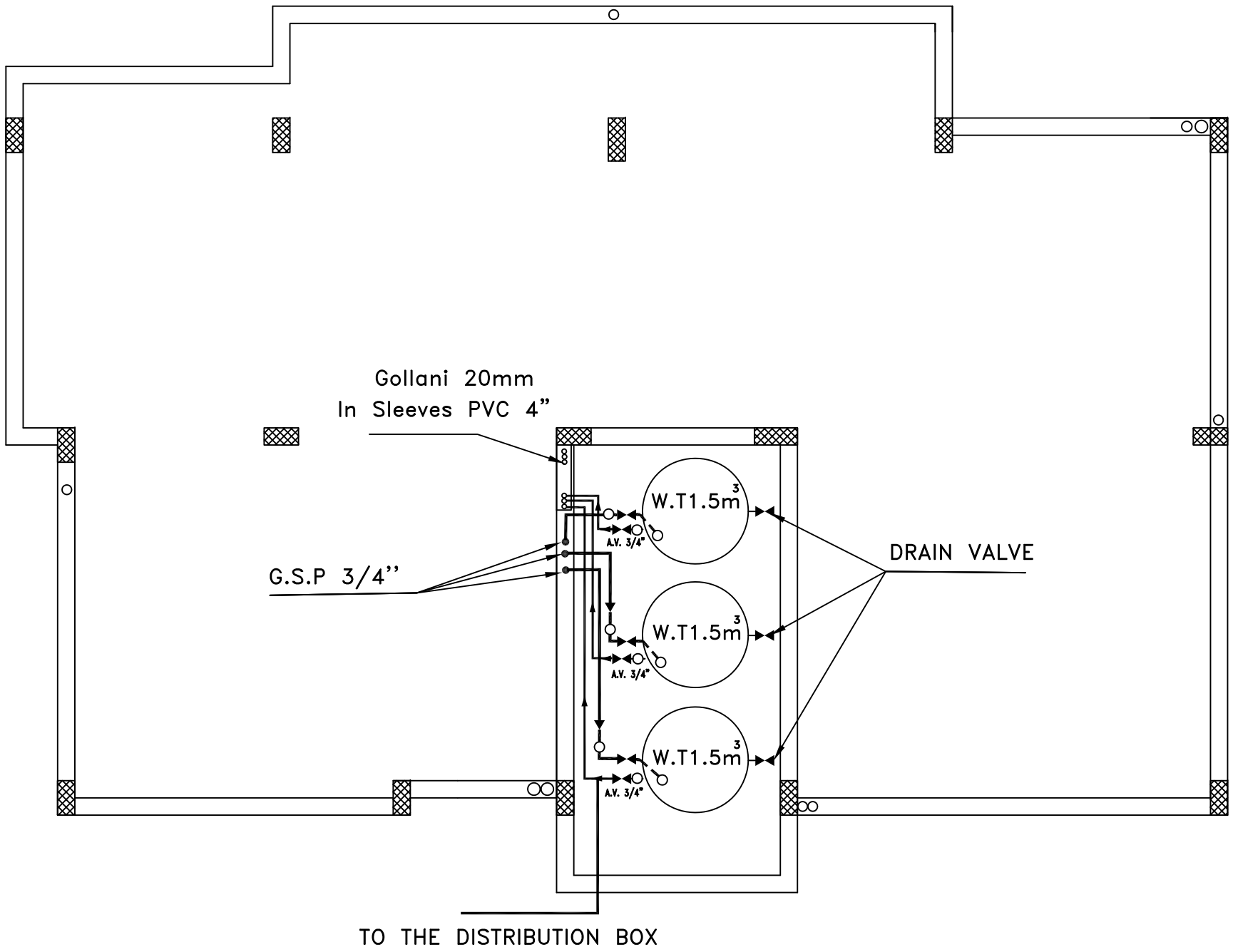
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water Supply And Distribution Box

Symbol	Drawing No.:	Rev. No.
RES	*T1 - M 07*	R1



NOTES:

COLD (GOLLANI)

HOT (GOLLANI)

EWH — WATER HEATER 150 LITERS

WDB — BOX

F.H 2”

HOSE REEL 3/4

2”w.o — WASH OUT VALVE

3/4” A.V — WATER AIR VENT

3/4” w.i

R.W.T & FH. L.

WATER METER 3/4”

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

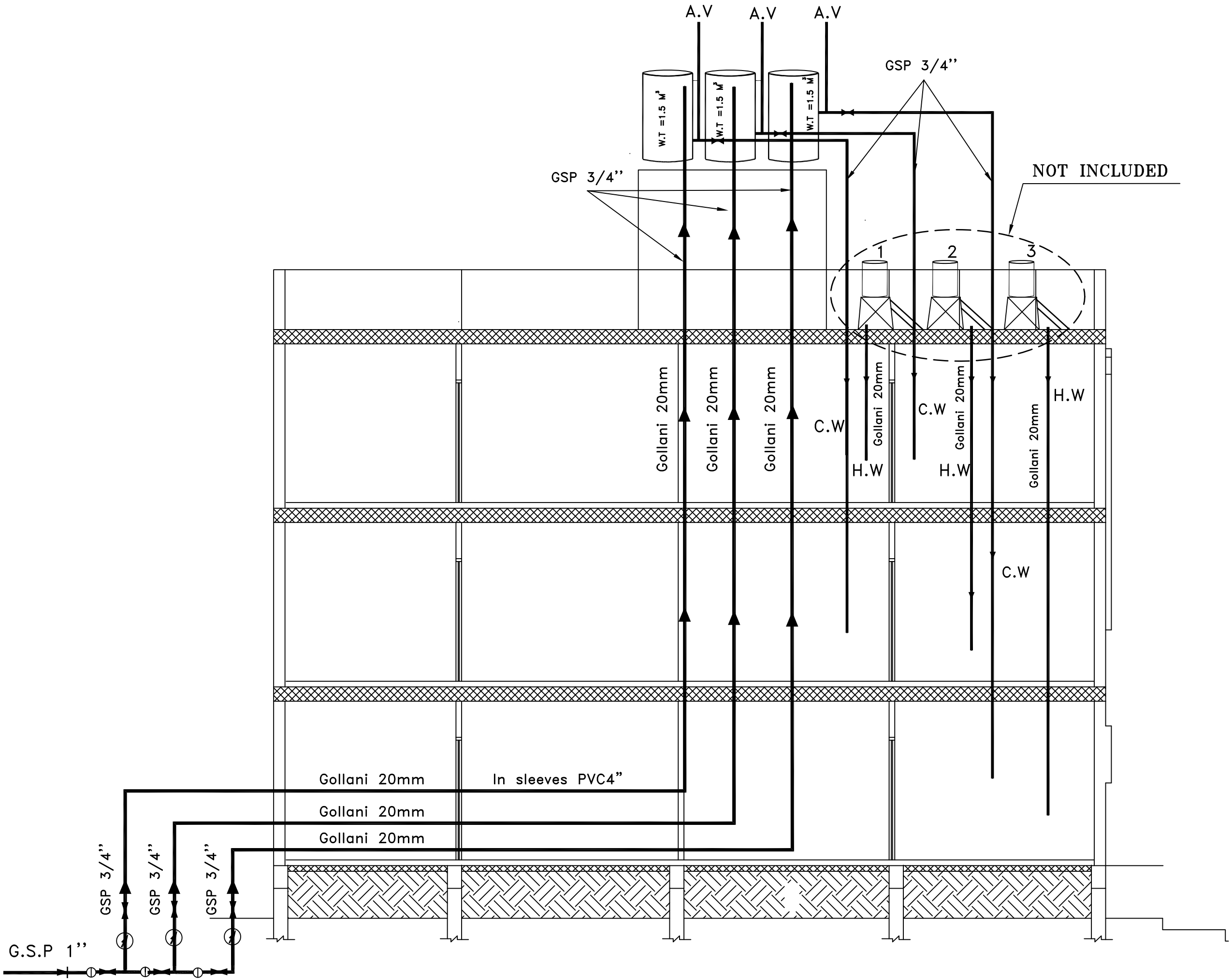
UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water Tanks on Stair

Symbol	Drawing No.:	Rev. No.
RES	*T1 - M 08*	R1



NOTES:

COLD (GOLLANI)

HOT (GOLLANI)

EWH — WATER HEATER 150 LITERS

WDB — BOX

F.H 2”

HOSE REEL 3/4

2”w.o WASH OUT VALVE

3/4” A.V WATER AIR VENT

3/4” w.i

R.W.T & FH. L.

WATER METER 3/4”

No.	Description	Date	By
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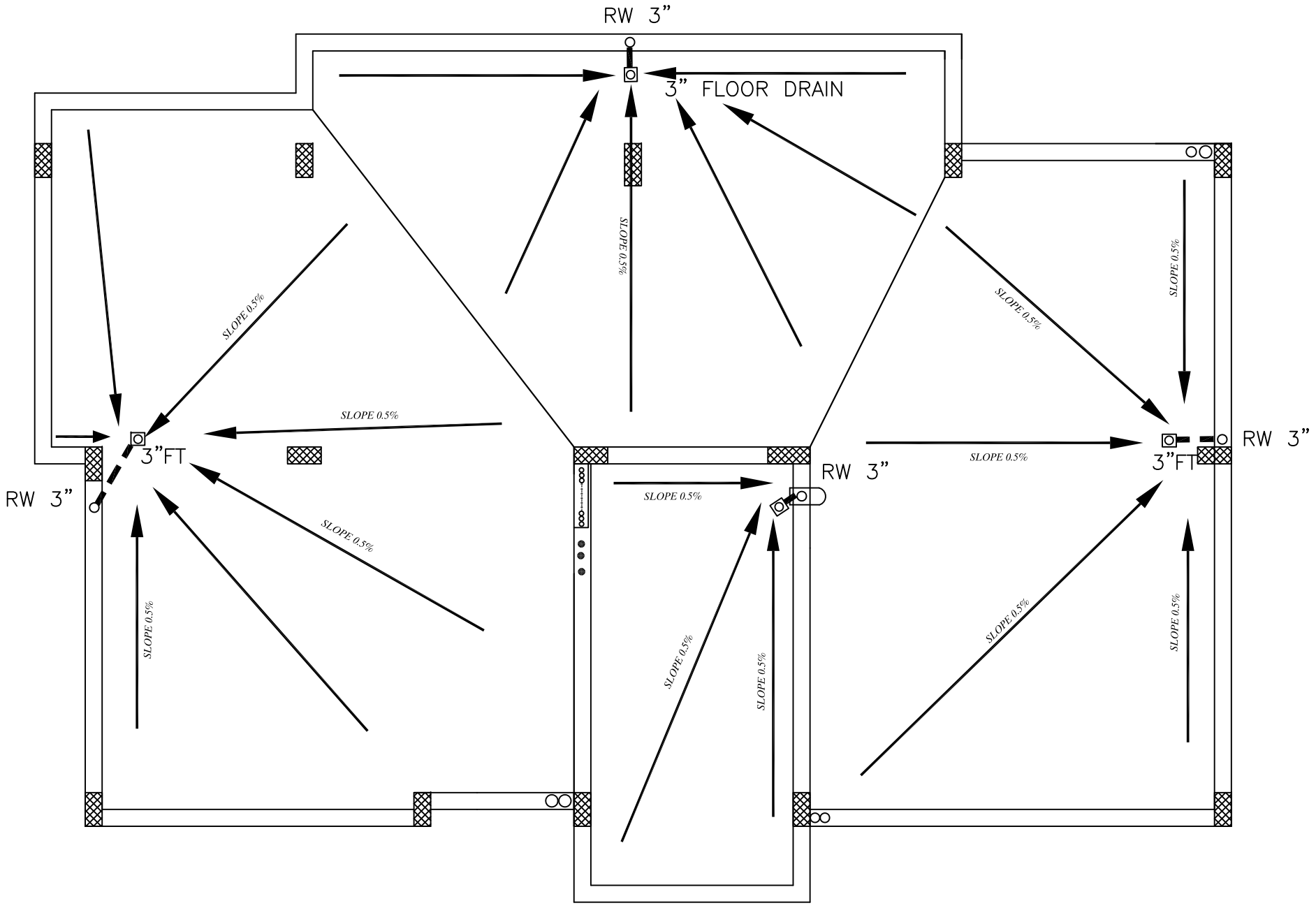
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water System For Typical Floor

Symbol	Drawing No.:	Rev. No.
RES	*T1 - M 09*	R1



NOTES:

———	COLD (GOLLANI)
- - - -	HOT (GOLLANI)
EWH	WATER HEATER 150 LITERS
WDB	BOX
F.H	2"
	HOSE REEL 3/4
	2"w.o WASH OUT VALVE
3/4" A.V	WATER AIR VENT
3/4" w.i	
R.W.T & FH. L.	
	WATER METER 3/4"

No.	Description	Date	By
4			
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IMPLEMENTED BY:

PROJECT:-

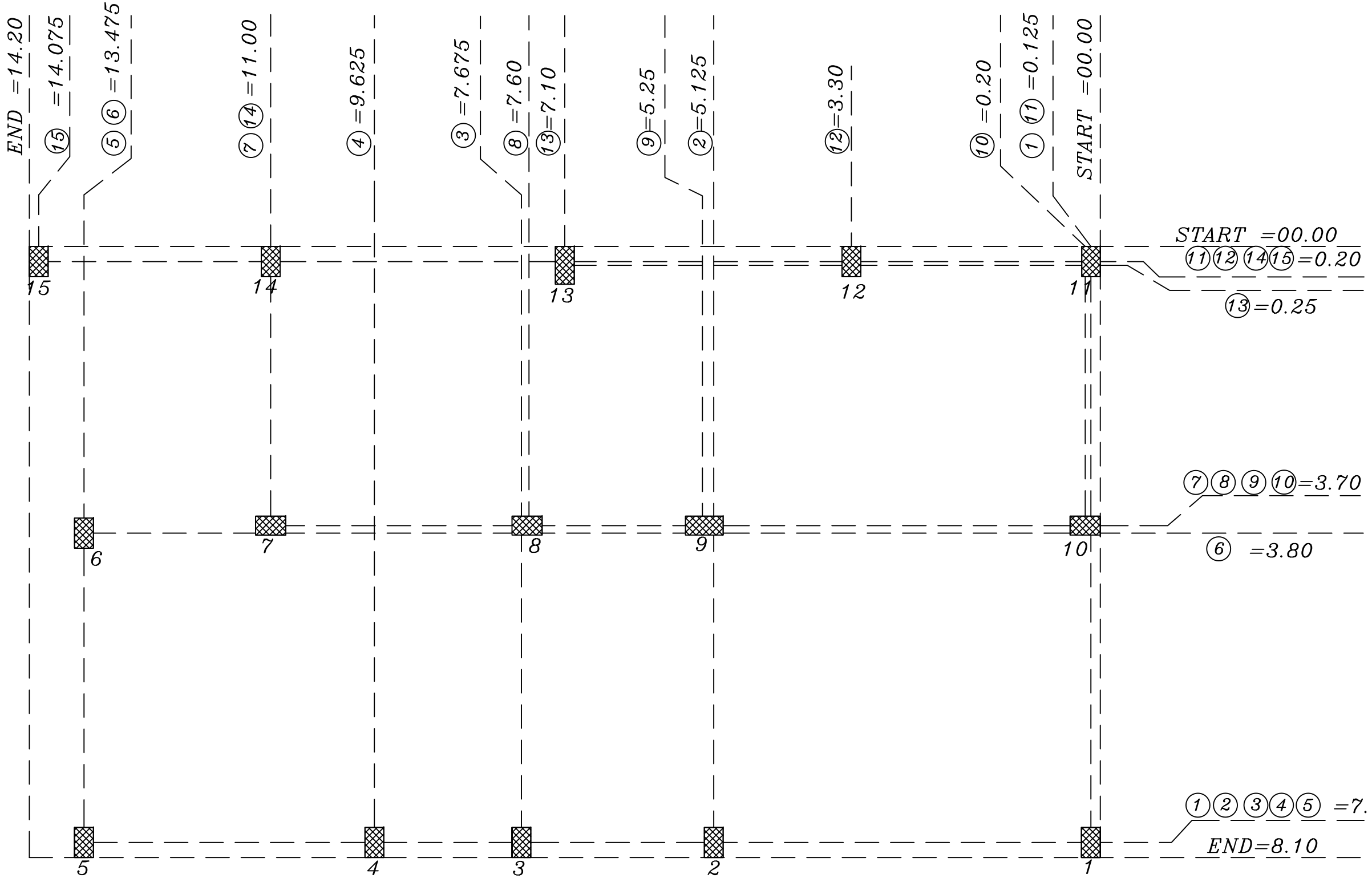
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Roof Floor Drainage System

Symbol	Drawing No.:	Rev. No.
RES	*T1 - M 10*	R1

CIVIL DRAWINGS

LLL (Type1)



Axies Of Columns Necks

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date By
4		
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Revisions

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Date	File Name	Scale

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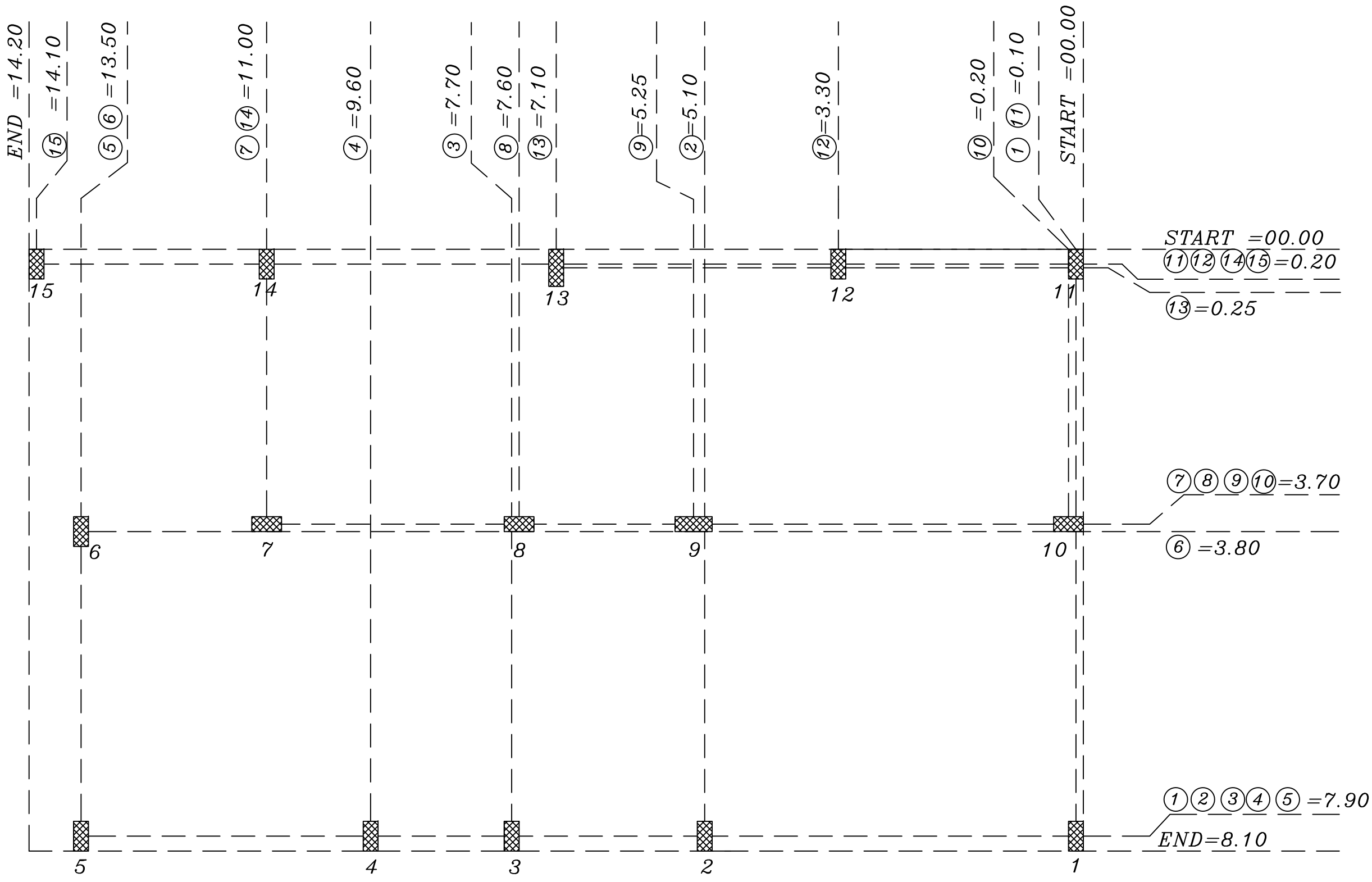
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Axies Of Column Necks

Symbol	Drawing No.	Rev. No.
RES	T1-C 01	R1



Axies Of Columns

NOTES

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* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

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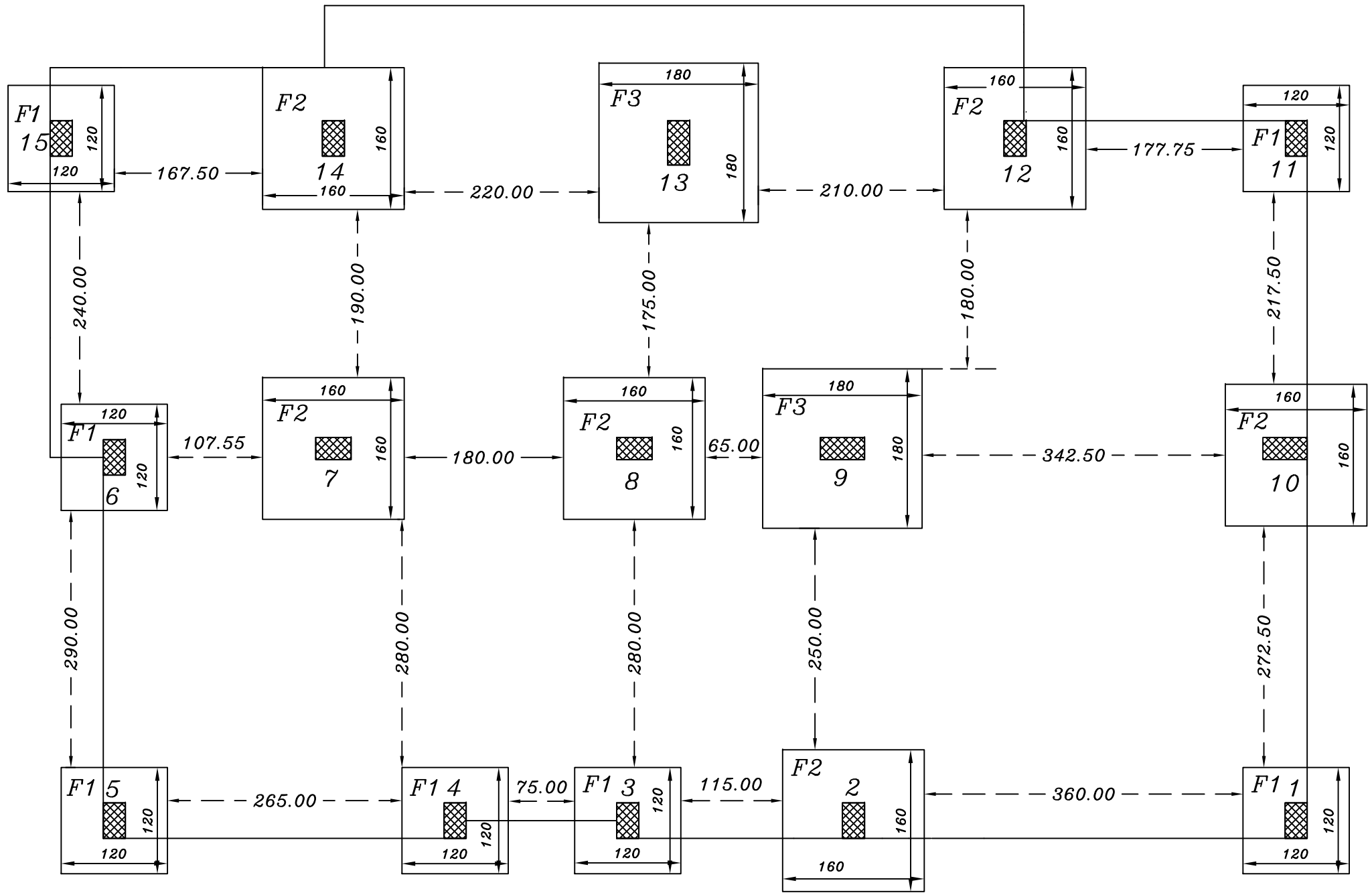
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Axies Of Columns

Symbol	Drawing No.	Rev. No.
RES	T1- C 02	R1



Footings Plan

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
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  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

No.	Description	Date By
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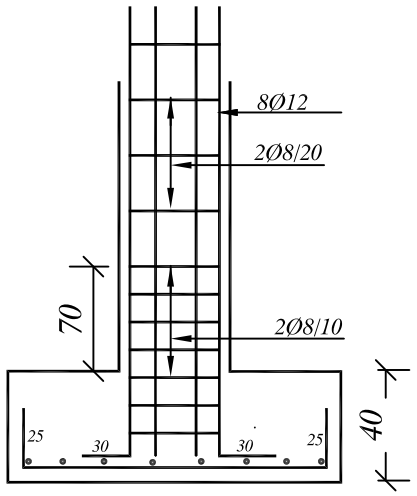
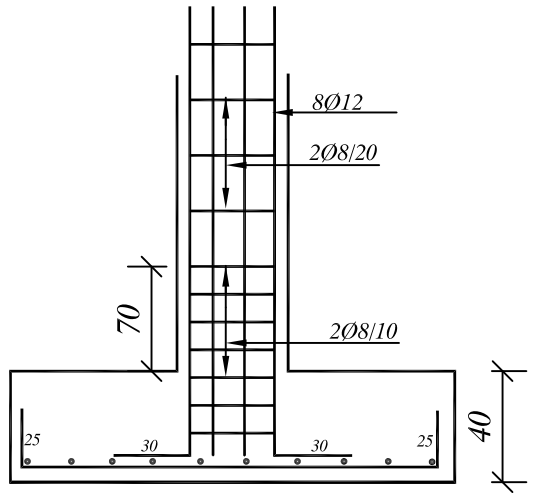
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Footings Plan

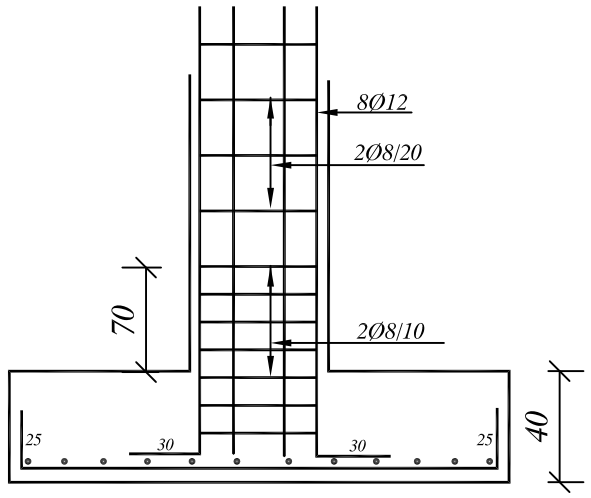
Symbol	Drawing No.	Rev. No.
RES	T1- C 03	R1



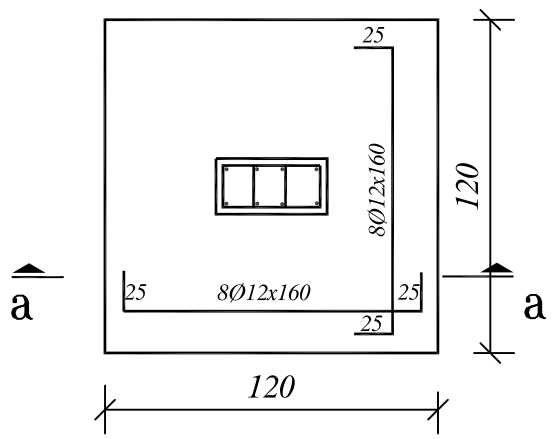
SECTION (a-a)



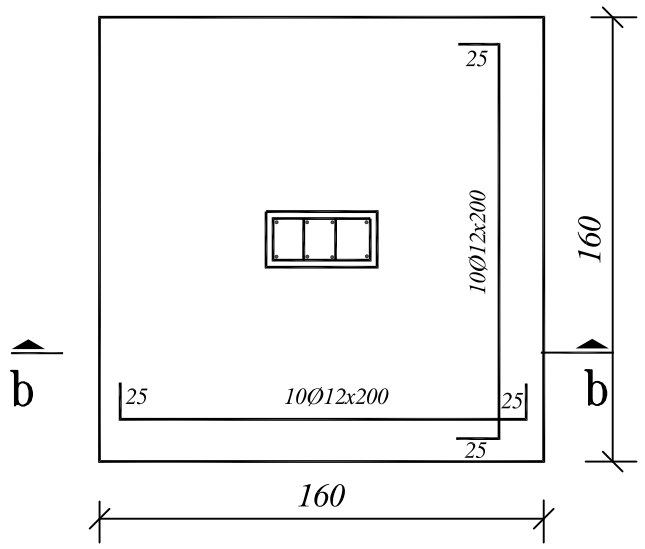
SECTION (b - b)



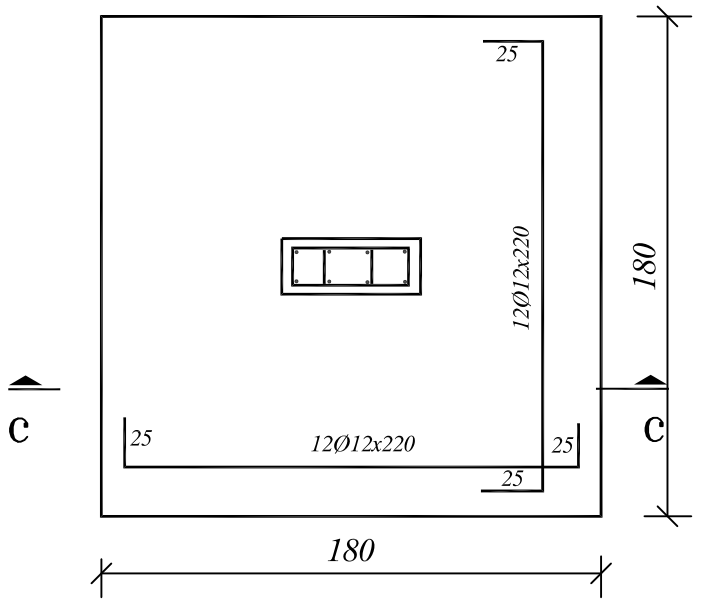
SECTION (c - c)



TYPICAL DETAIL IN F1



TYPICAL DETAIL IN F2



TYPICAL DETAIL IN F3

Footings Details

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
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  B300 for columns
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  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
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  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

No.	Description	Date By
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Date	File Name	Scale

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CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Footings Details

Symbol	Drawing No.	Rev. No.
RES	T1- C 04	R1

Type	Column NO.	Number	Size	Reinforcement	Bar Shape & Length
F1	1-3-4-5-6-11-15	7	120 x 120 x 40	8Ø12x 160cm (Long. & Trav.)	25 — 25 / 110
F2	2-7-8-10-12-14	6	160 x 160 x 40	10Ø12x200 (Long. & Trav.)	25 — 25 / 150
F3	9-13	2	180 x 180 x 40	12Ø12x220 (Long. & Trav.)	25 — 25 / 170
F4	Foundation Under Secondary Ground Beam	4	60 x 60 x 30	5Ø12x80 (Long. & Trav.)	15 — 15 / 50

Footings Table

NOTES

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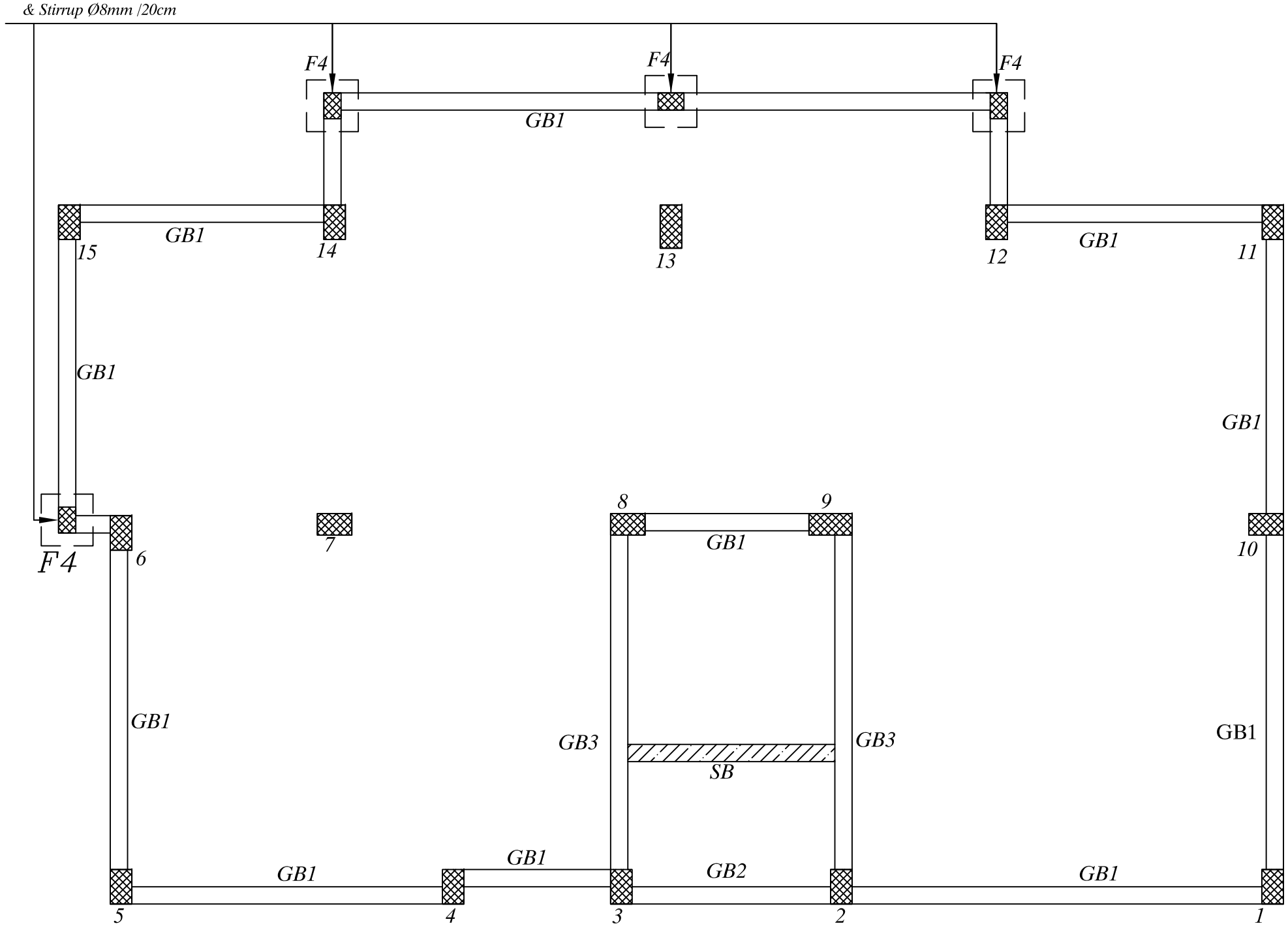
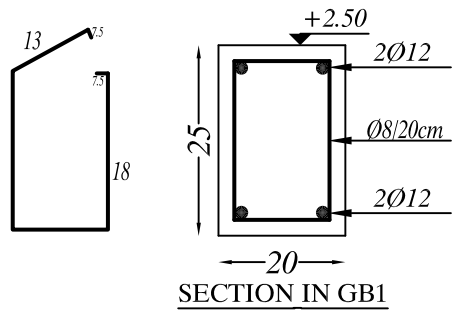
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Footings Table

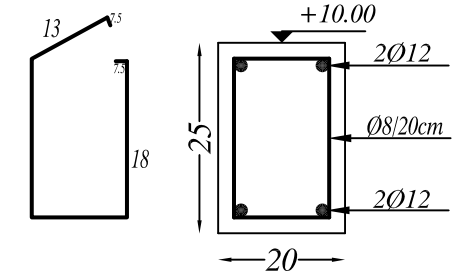
Symbol	Drawing No.	Rev. No.
RES	T1- C 05	R1

Columns Necks 20X30cm
Longitudinal Steel 6 Ø12
& Stirrup Ø8mm /20cm

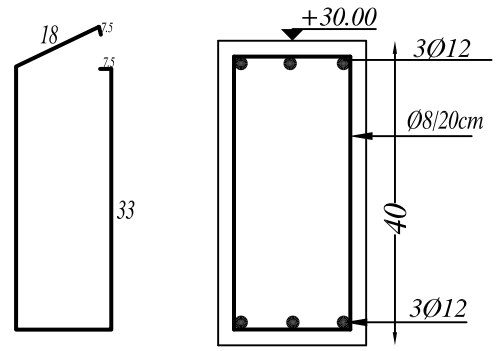




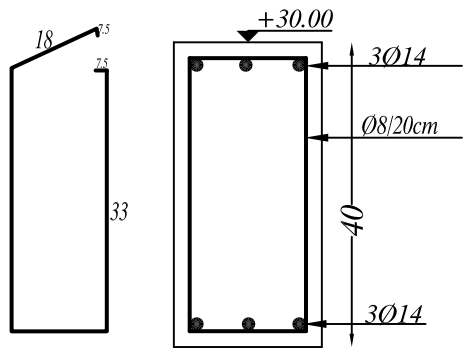
SECTION IN GB1



SECTION IN GB2



SECTION IN GB3



SECTION IN SB

Secondary Beams Plan and Details

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
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* All Dimensions in cm

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Revisions

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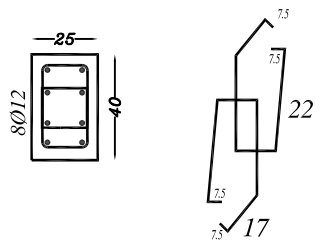
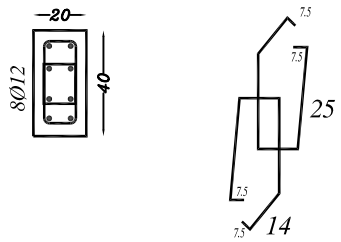
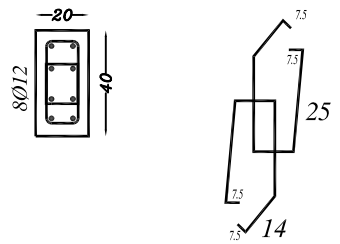
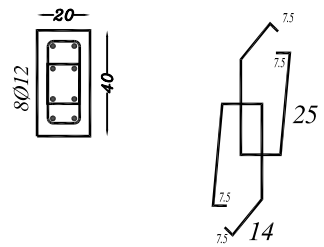
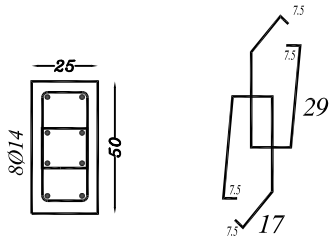
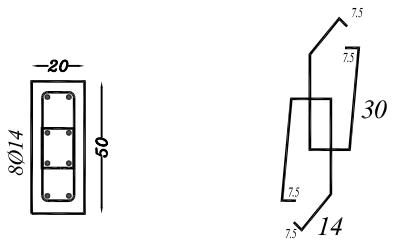
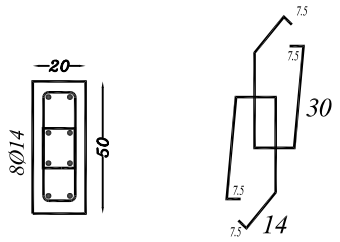
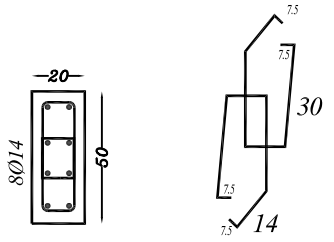
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Secondary Beams Plan & Details

Symbol	Drawing No.	Rev. No.
RES	T1- C 06	R1

Column NO.	Columns Neck	Ground Floor	First Floor	Second Floor
1-2-3-4-5-6-7-8-10-11-12-14-15	 St. 2Ø8/20 Number =13	 St. 2Ø8/20 Number =13	 St. 2Ø8/20 Number =13	 St. 2Ø8/20 Number =13
9-13	 St. 2Ø8/20 Number =2	 St. 2Ø8/20 Number =2	 St. 2Ø8/20 Number =2	 St. 2Ø8/20 Number =2

Columns Table & Details

NOTES

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  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
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* All Dimensions in cm

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4			
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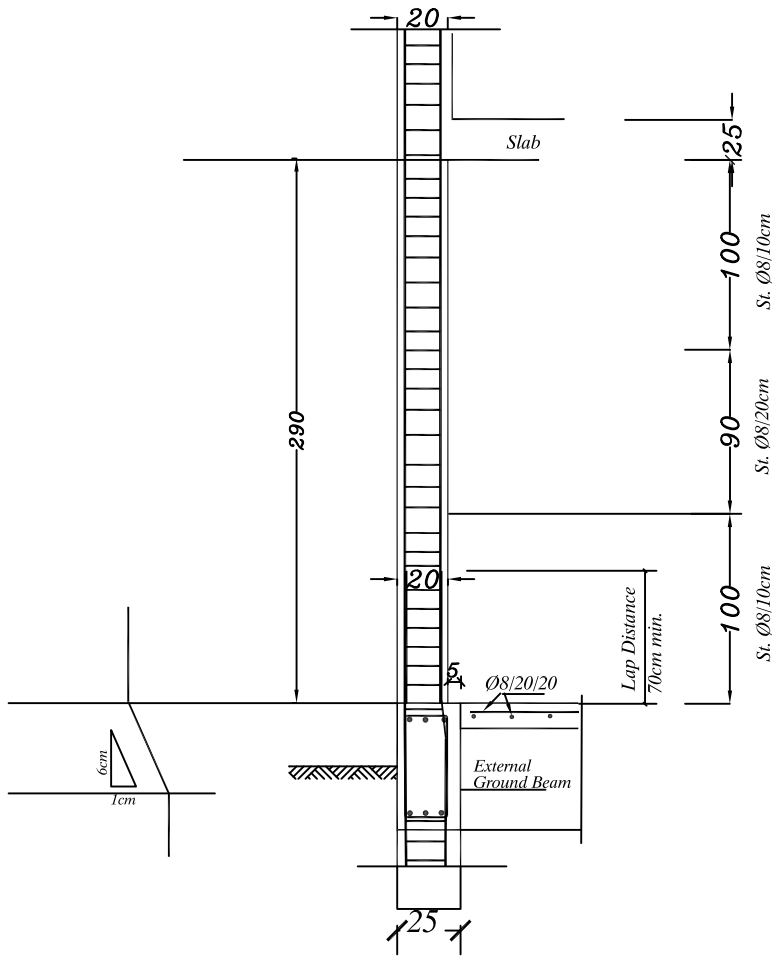
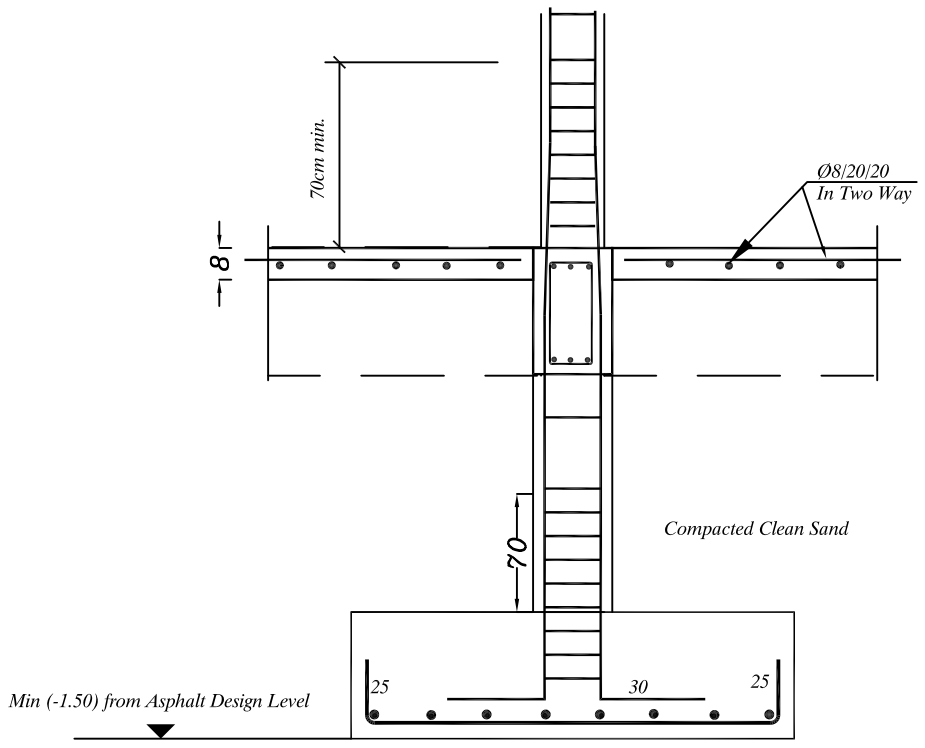
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Columns Table & Details

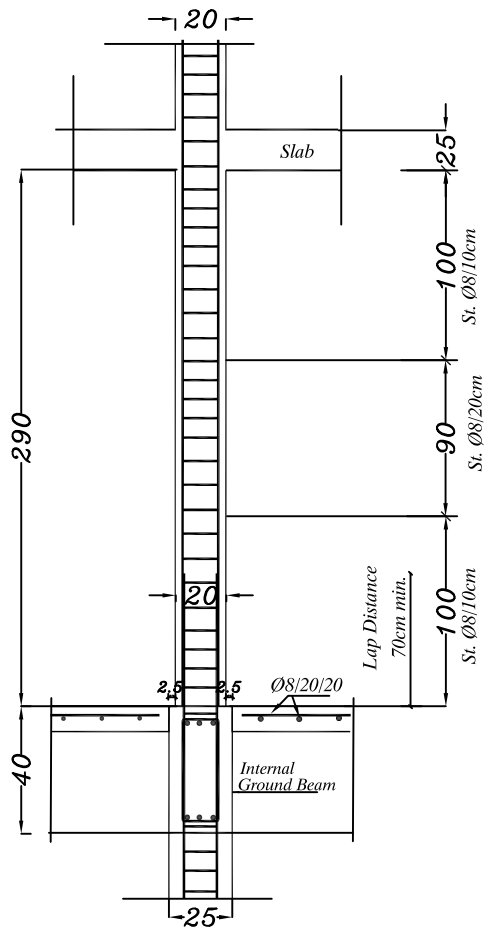
Symbol	Drawing No.	Rev. No.
RES	T1- C 07	R1



External Column Detail.



CONECTION DETAIL BETWEEN COLUMN
& FOOT & GROUND BEAM



Internal Column Detail

Columns & Ground Slab Details

NOTES

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  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

All Dimensions in cm

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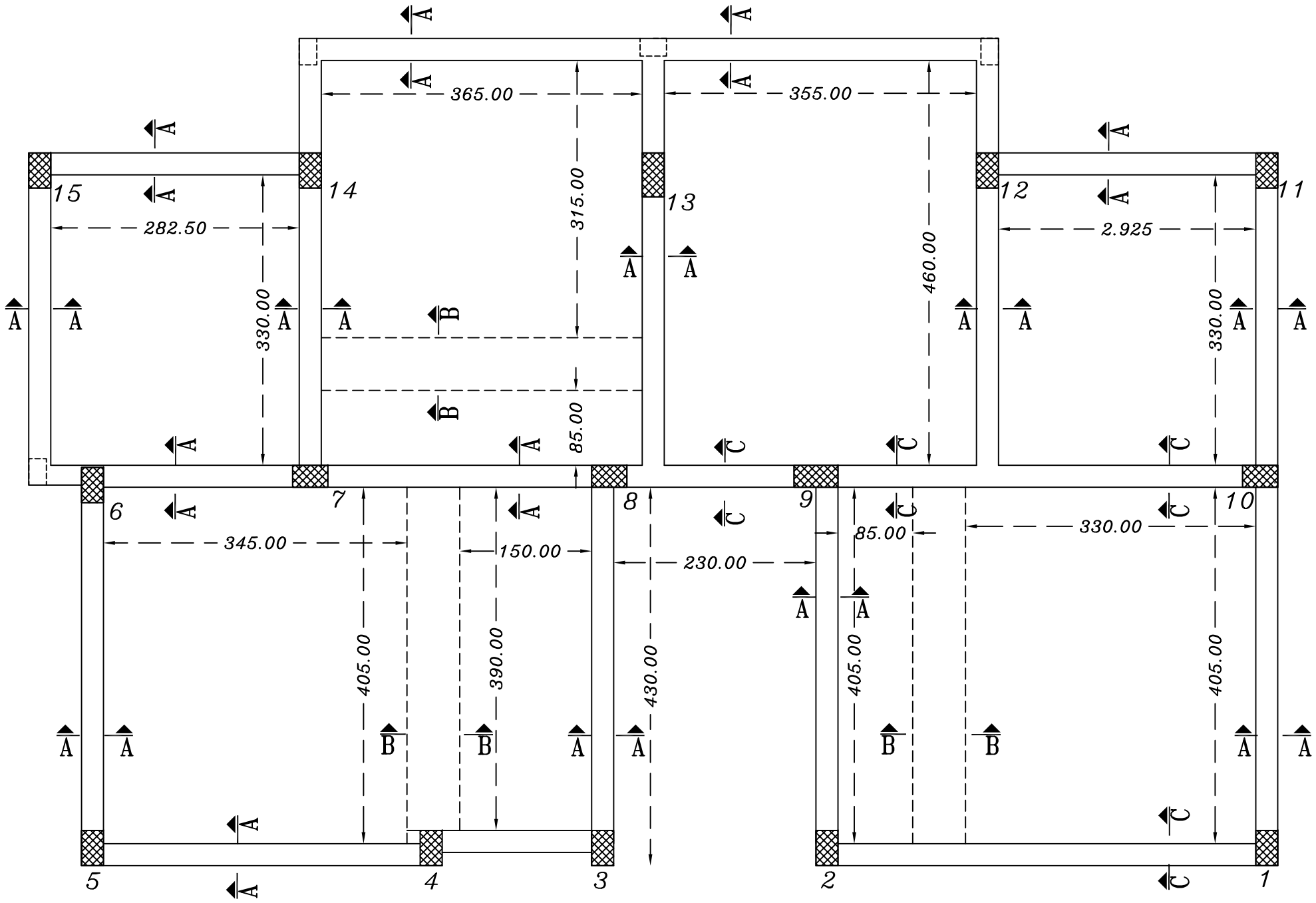
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Columns & Ground Slab Details

Symbol	Drawing No.	Rev. No.
RES	T1- C 08	R1



Main Ground Beams Plan

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

All Dimensions in cm

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

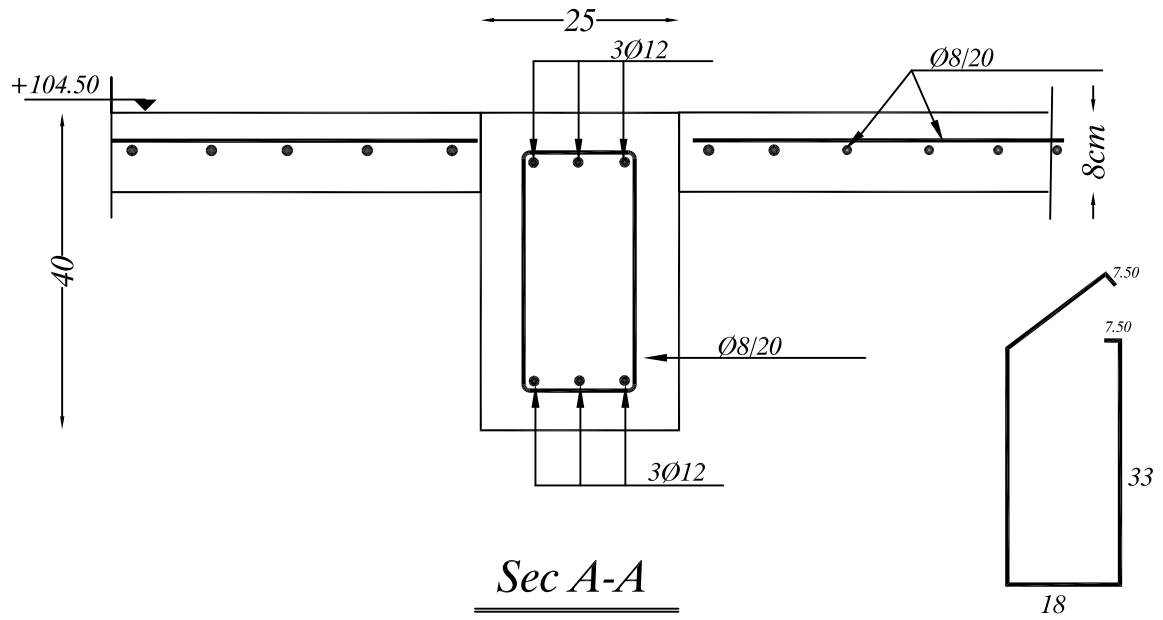
IMPLEMENTED BY:

UNDP

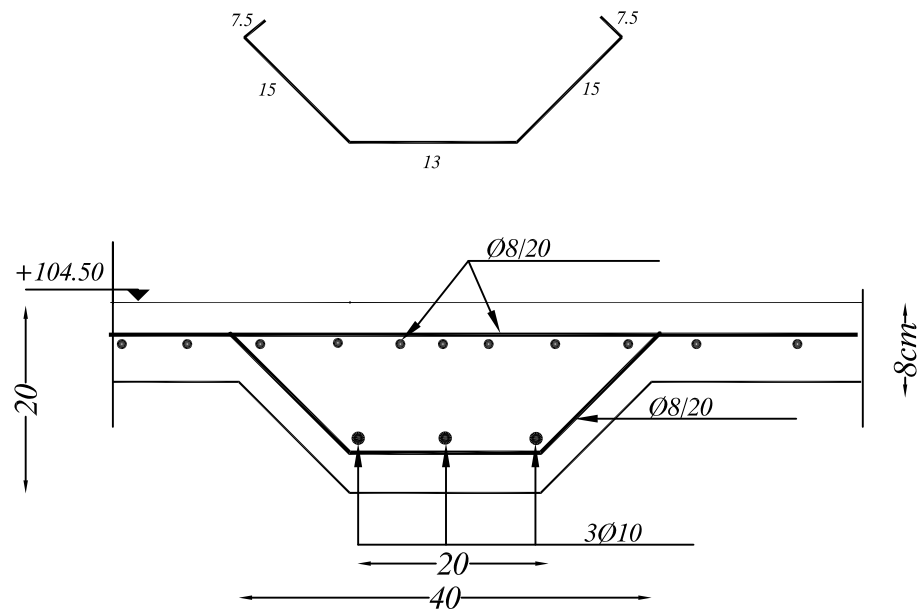
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Ground Beams Plan

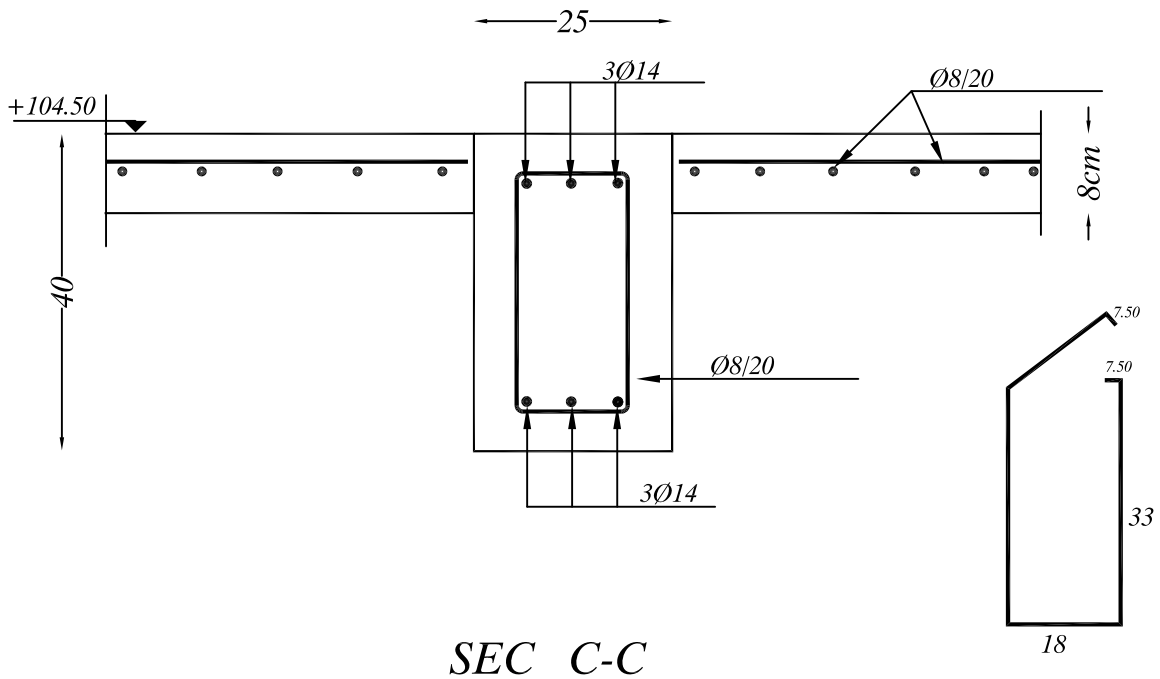
Symbol	Drawing No.	Rev. No.
RES	T1- C 09	R1



Sec A-A



Sec B-B



SEC C-C

Main Ground Beams Details

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

All Dimensions in cm

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

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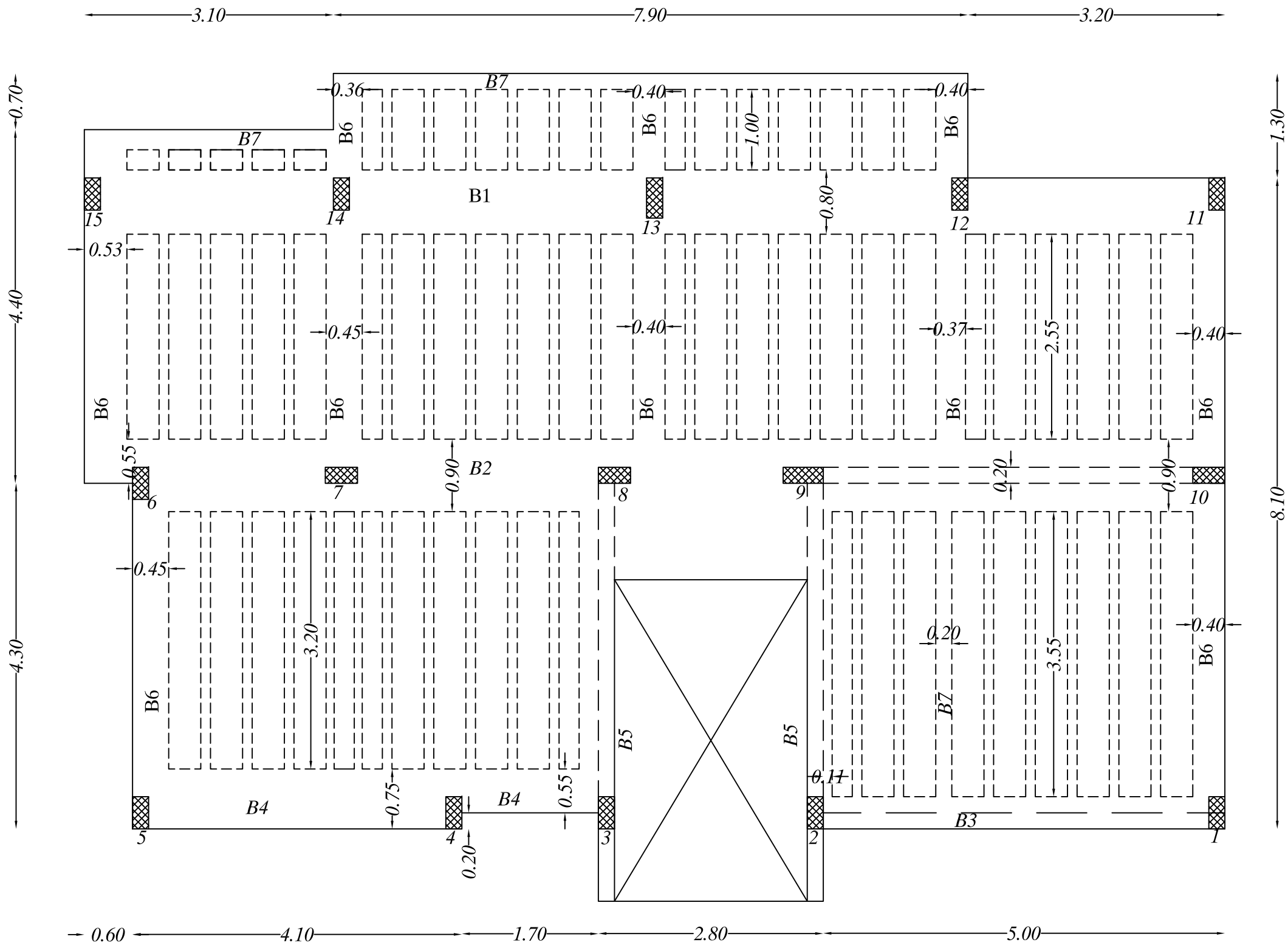
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Ground Beams Details

Symbol	Drawing No.	Rev. No.
RES	T1- C 10	R1



Beam Details & Reinforcement For Typical Floor-1

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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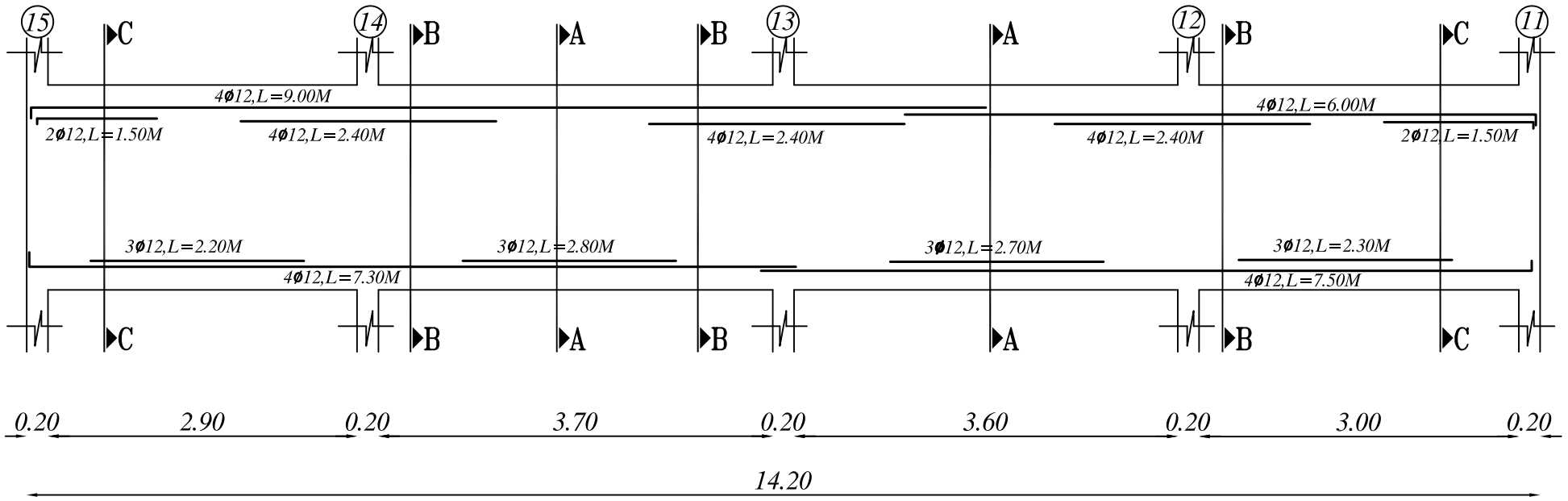
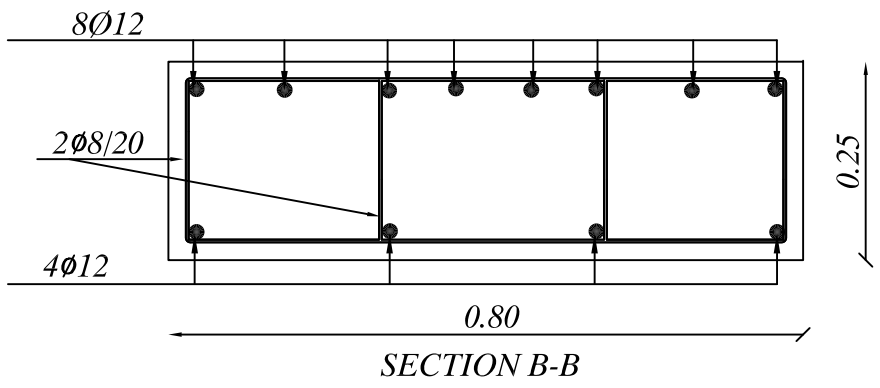
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Typical Floor -1

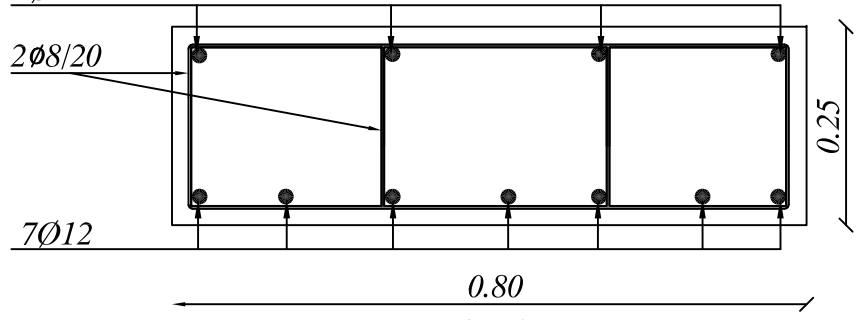
Symbol	Drawing No.	Rev. No.
RES	T1- C 11	R1

B1=25X80cm

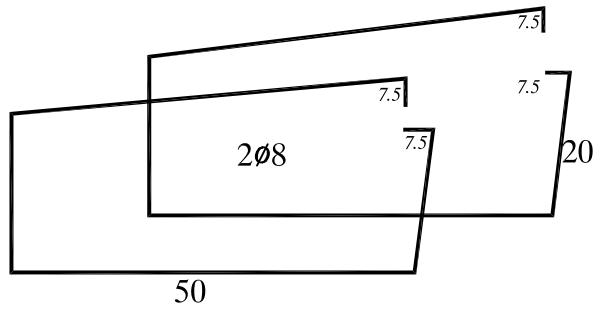


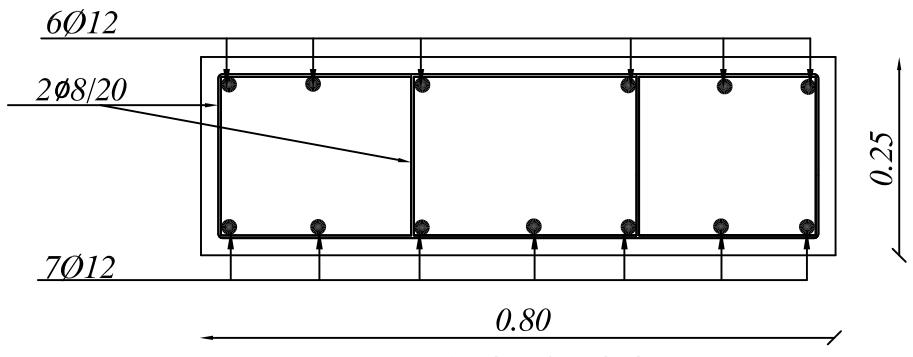


SECTION B-B



SECTION A-A





SECTION C-C

Beam Details & Reinforcement For Typical Floor-2

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

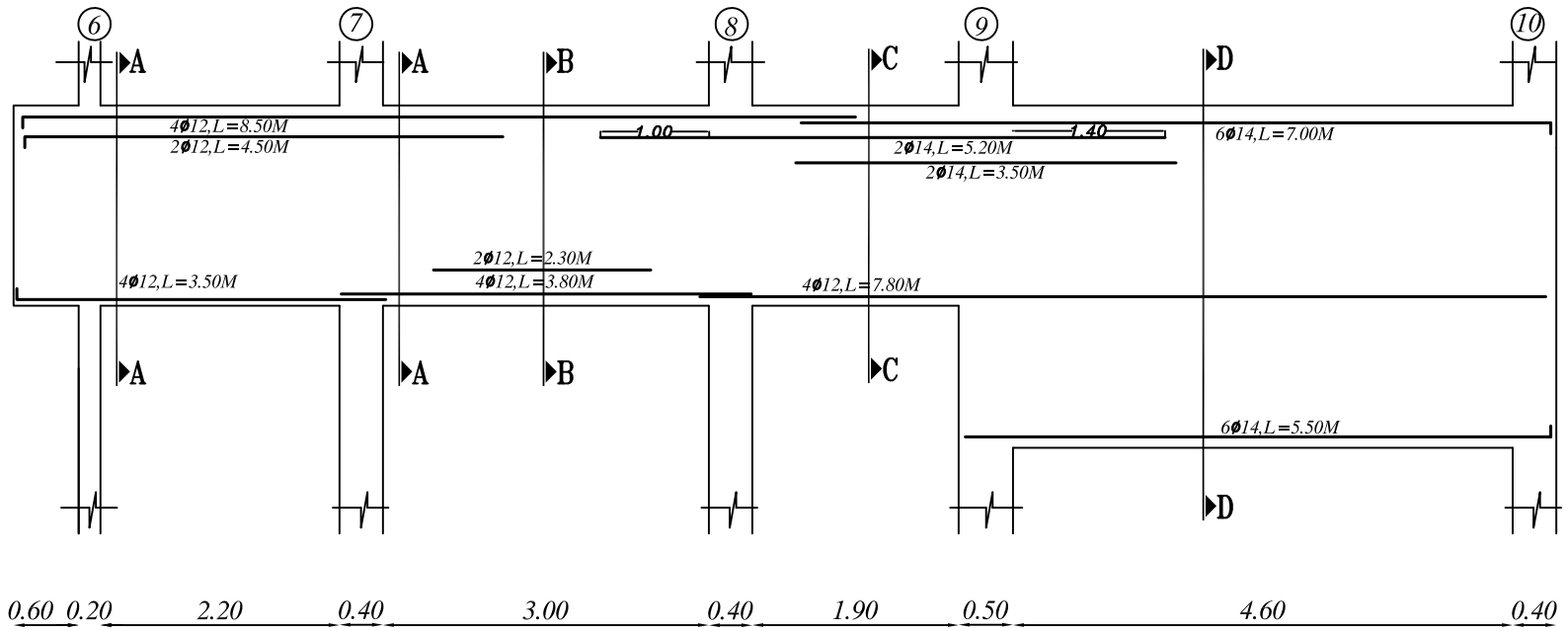
UNDP

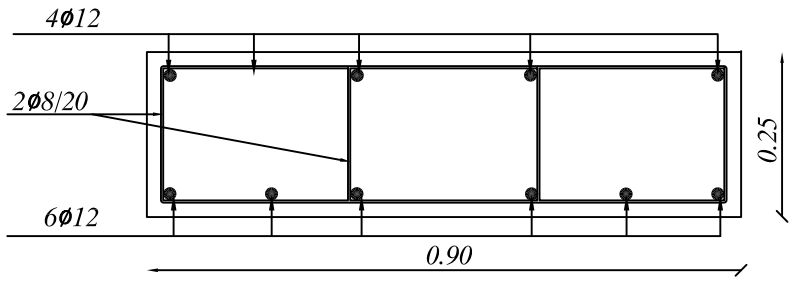
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Typical Floor-2

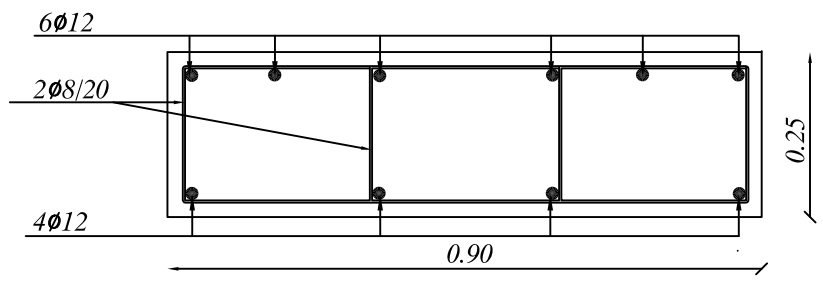
Symbol	Drawing No.	Rev. No.
RES	T1- C 12	R1

B2=25X90CM

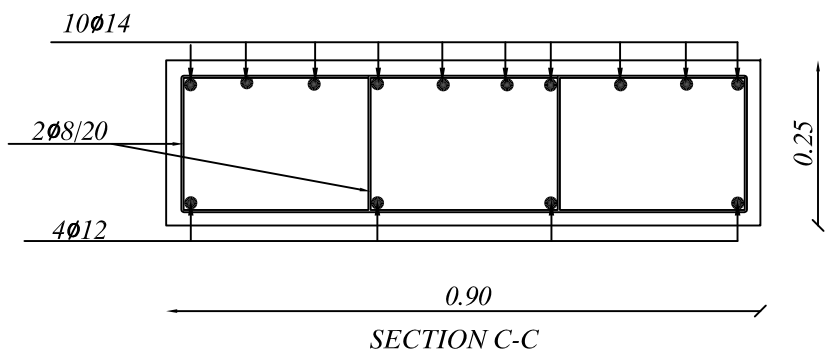




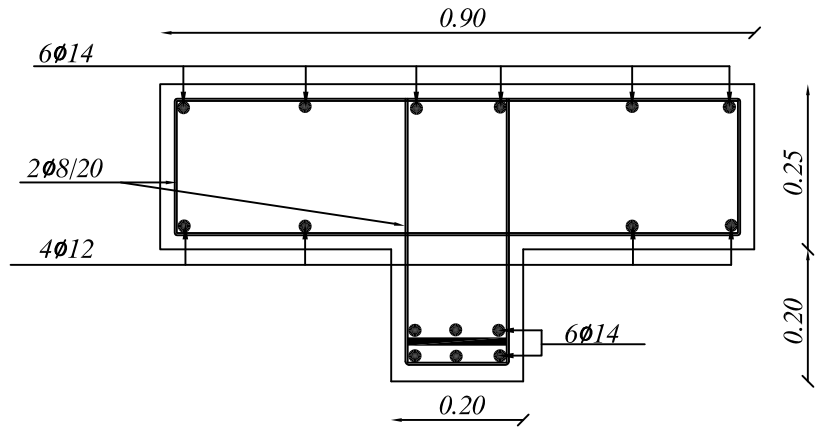
SECTION B-B



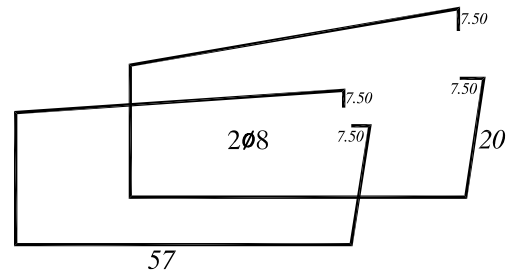
SECTION A-A

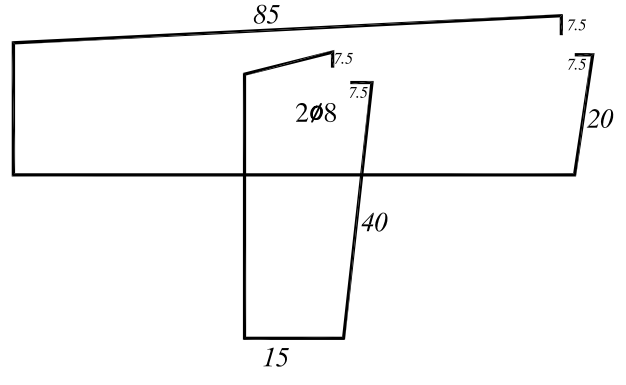


SECTION C-C



SECTION D-D





Beam Details & Reinforcement For Typical Floor-3

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel (fy=4200kg/cm)
  (R) mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

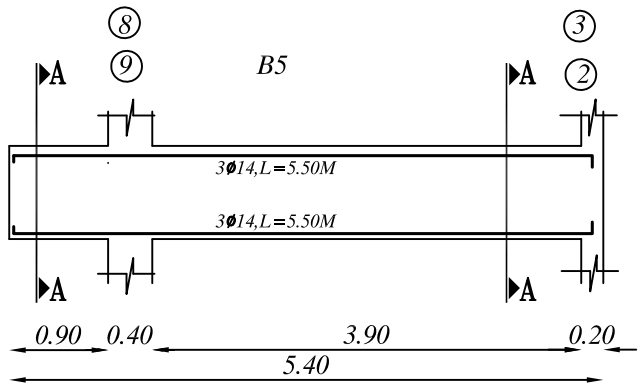
IMPLEMENTED BY:

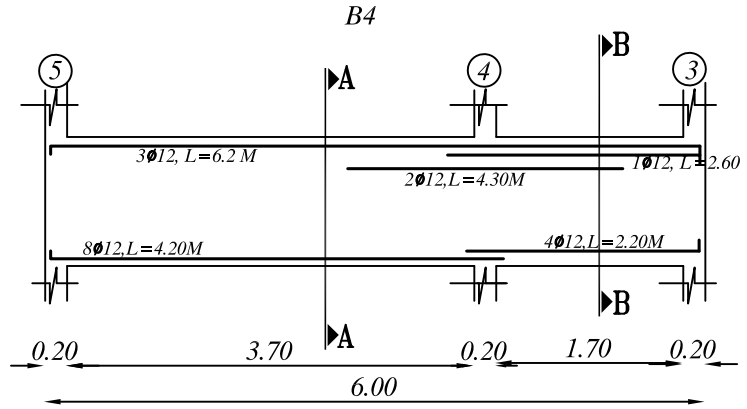
UNDP

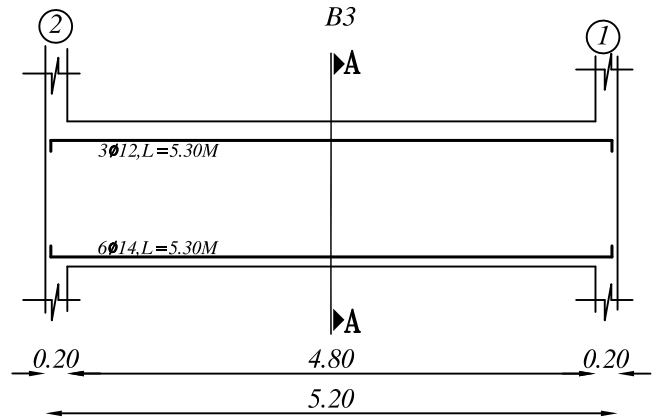
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

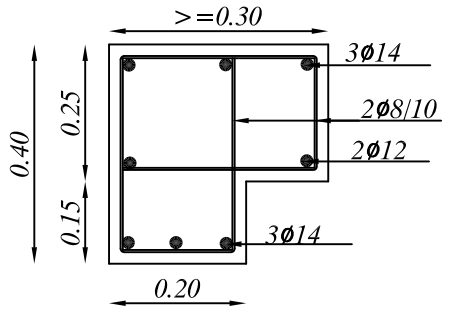
Beam Details & Reinforcement For Typical Floor-3

Symbol	Drawing No.	Rev. No.
RES	T1-C 13	R1

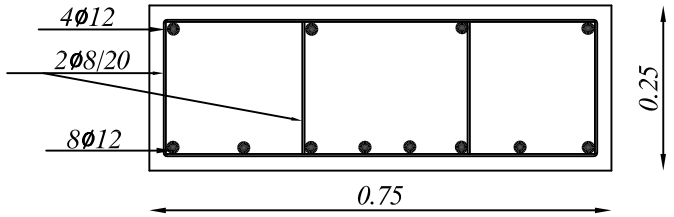




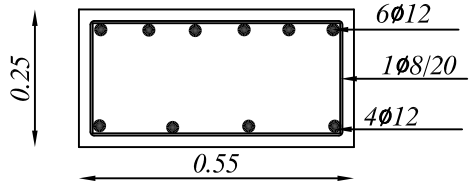




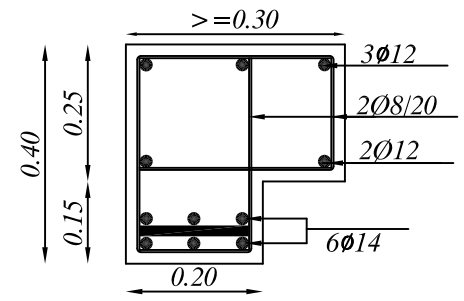
SECTION A-A



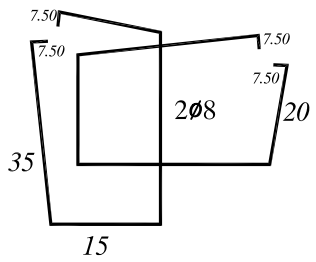
SECTION A-A

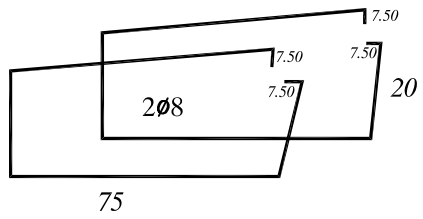


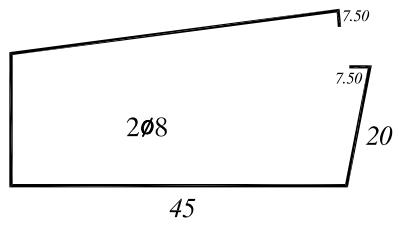
SECTION B-B

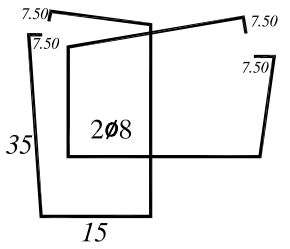


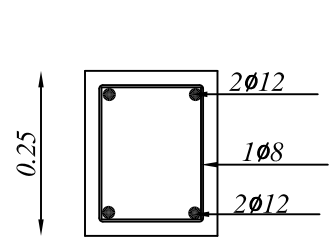
SECTION A-A



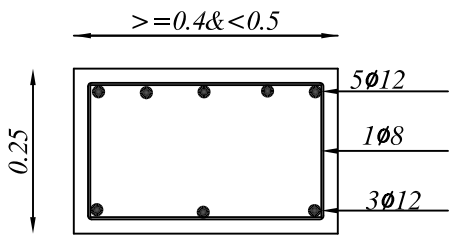




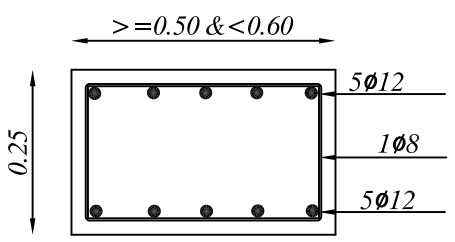




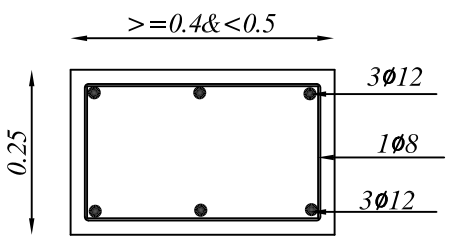
SECTION IN B7



SECTION IN B6 FOR CANTILIVER



SECTION IN B6



SECTION IN B6

Beam Details & Reinforcement For Typical Floor-4

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved
Date			

File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

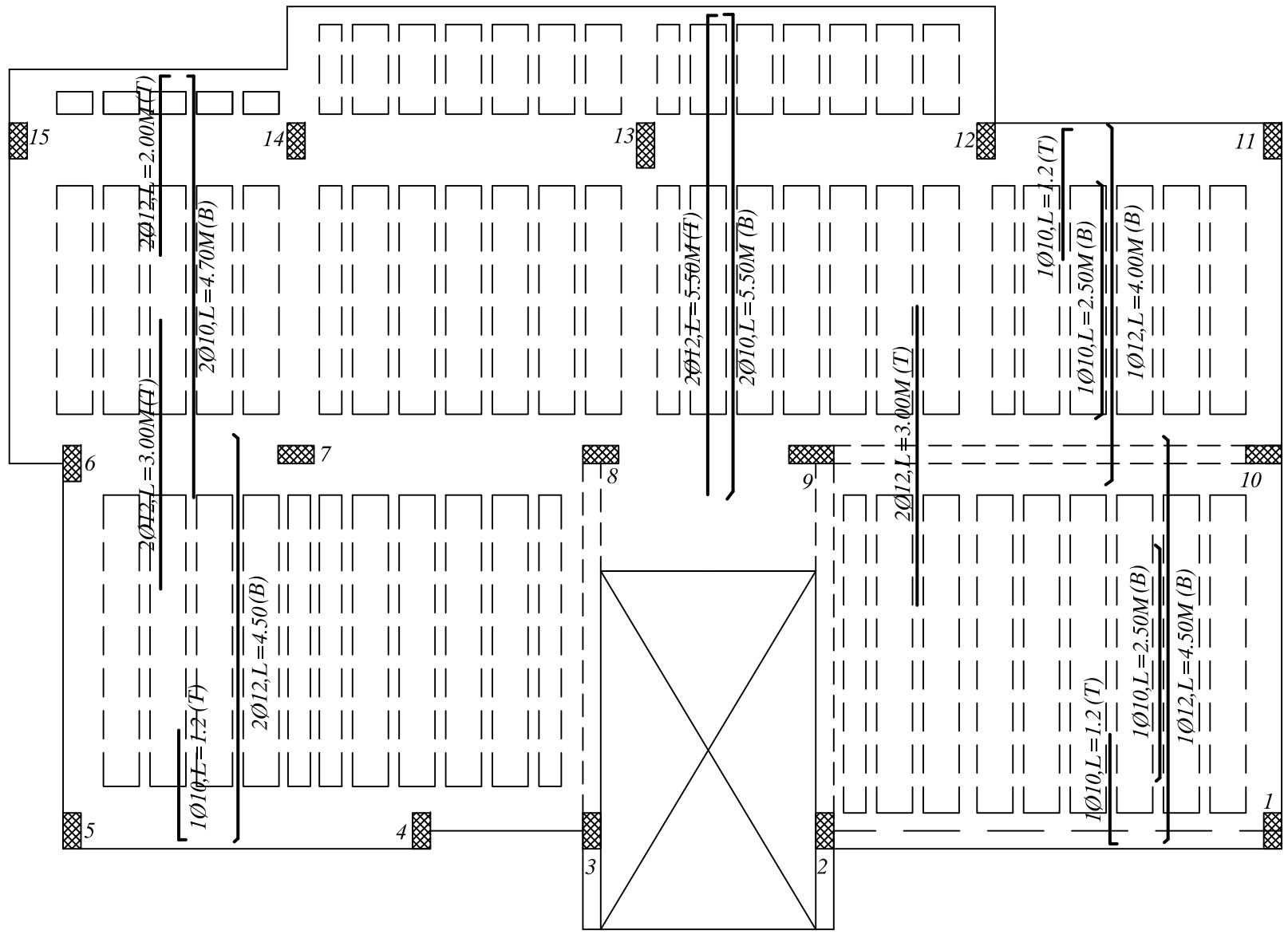
IMPLEMENTED BY:

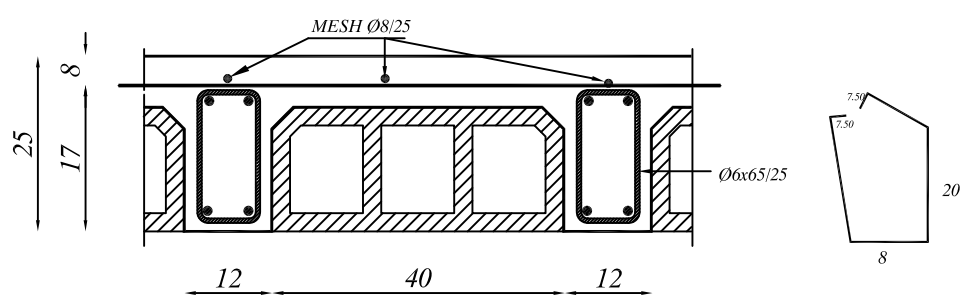
UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Typical Floor-4

Symbol	Drawing No.	Rev. No.
RES	T1-C 14	R1





SECTION IN RIBS

Ribs Details & Reinforcement For Typical Floor

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm^2)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Ribs Details & Reinforcement For Typical Floor

Symbol	Drawing No.	Rev. No.
RES	T1-C 15	R1

ELECTRICAL DRAWINGS

LLL (TYPE 1)

جدول الرموز الكهربائية

الرمز	البيان
	مفتاح كهرباء مفرد
	مفتاح كهرباء مزدوج
	مفتاح ثلاثي
	ضاغط جرس
	ضاغط انارة الدرج
	جرس كهرباء
	مخرج كهرباء عادي 16A
	مخرج كهرباء بغطاء 16A
	مخرج تليفزيون
	مخرج تليفون
	مصباح فلورسنت مفرد
	كلوب دائري
	مصباح سقف عادي معلق
	مصباح حائط عادي
	مصباح حائط خافت
	مصباح مرأة الحمام

	مروحة شفط
	وحدة الانتركوم الداخلية
I	وحدة الانتركوم الخارجية
	لوحة توزيع كهرباء رئيسية
SDB	لوحة توزيع كهرباء فرعية
	لوحة توزيع اتصالات رئيسية
	لوحة توزيع اتصالات فرعية

NOTES

No.	Description	Date	By
4			
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PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

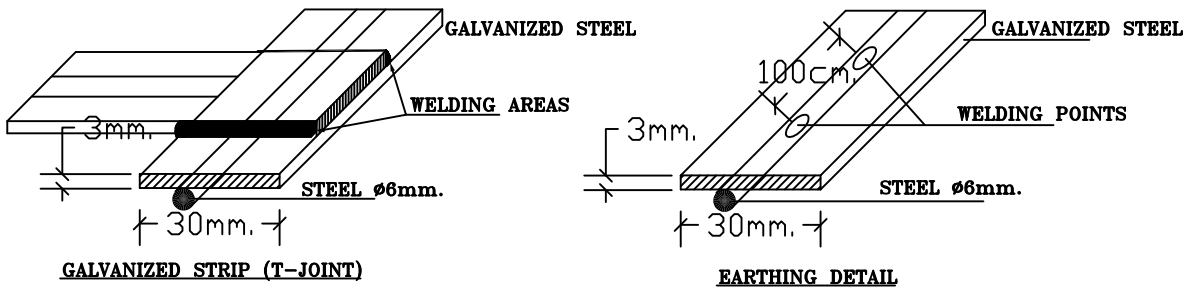
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

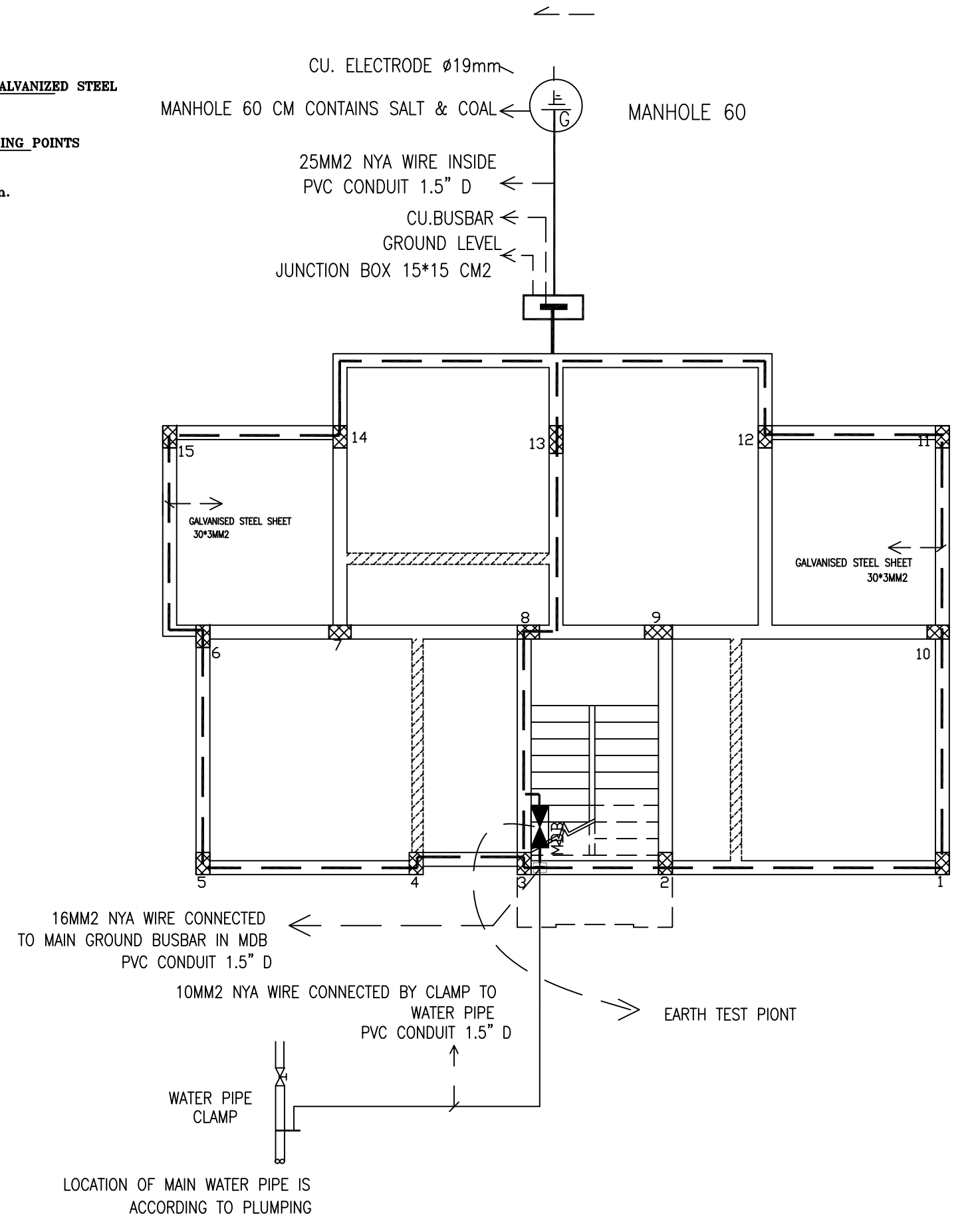
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Legend For Electrical Fittings

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 01*	R1



يجب تمديد الارث الكهربائي قبل الصب



THE EARTHING SYSTEM RESISTANCE SHOULD BE LESS THAN OR EQUAL 2 OHM

NOTES

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

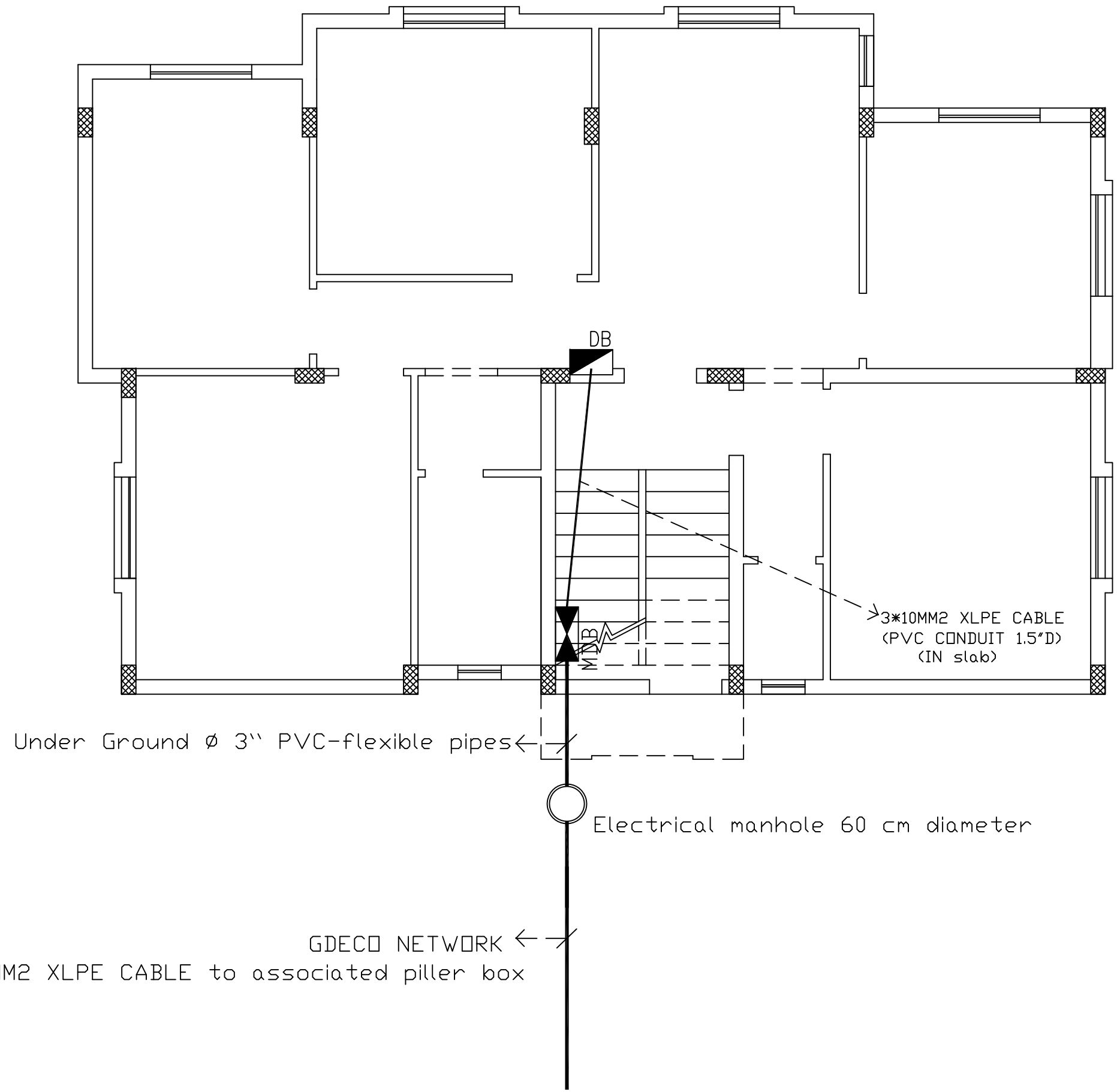
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Earthing System

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 02*	R1



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PALESTINIAN NATIONAL AUTHORITY

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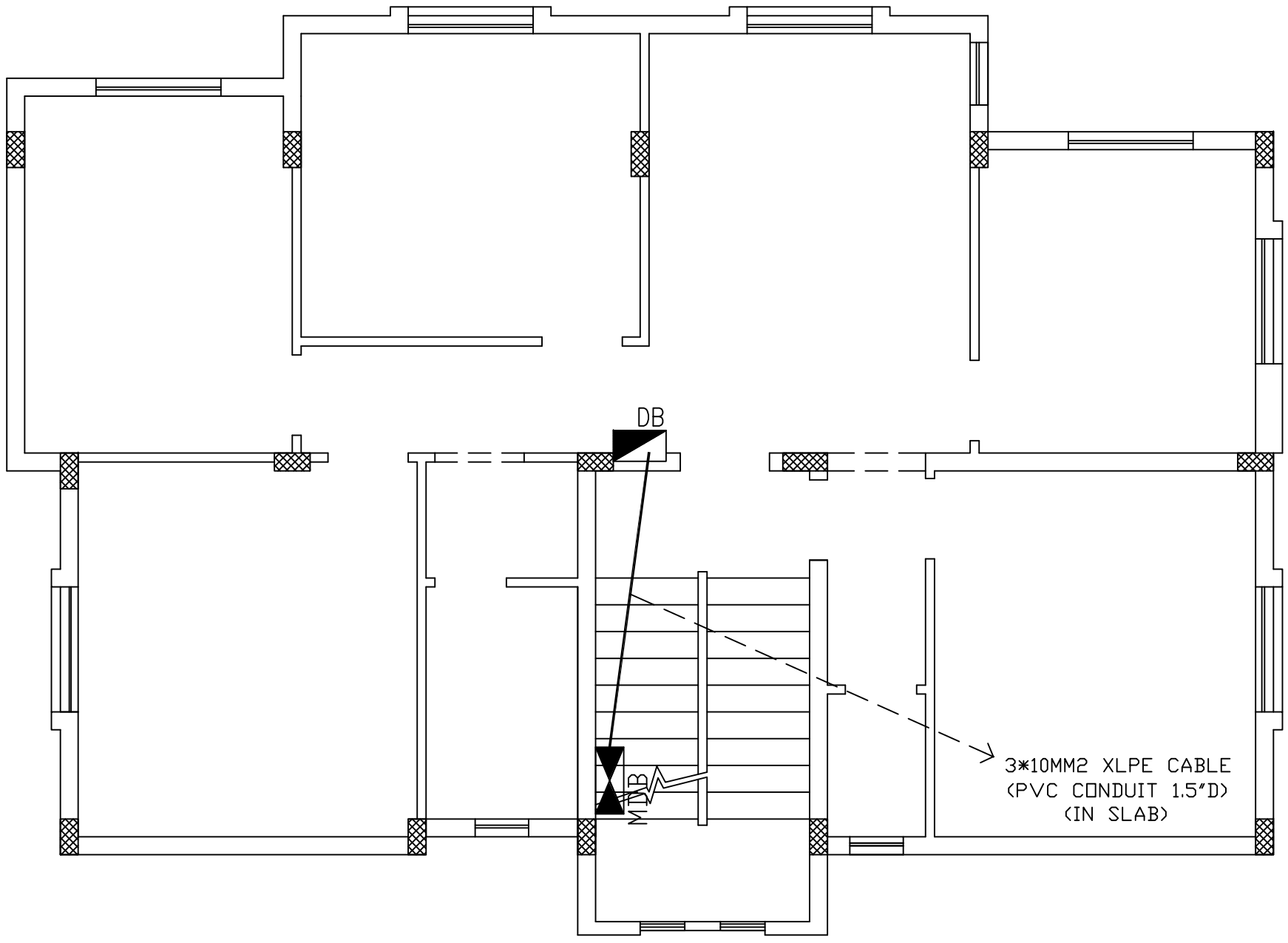
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Main Electrical Incoming and Distributions

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 03*	R1



NOTES

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

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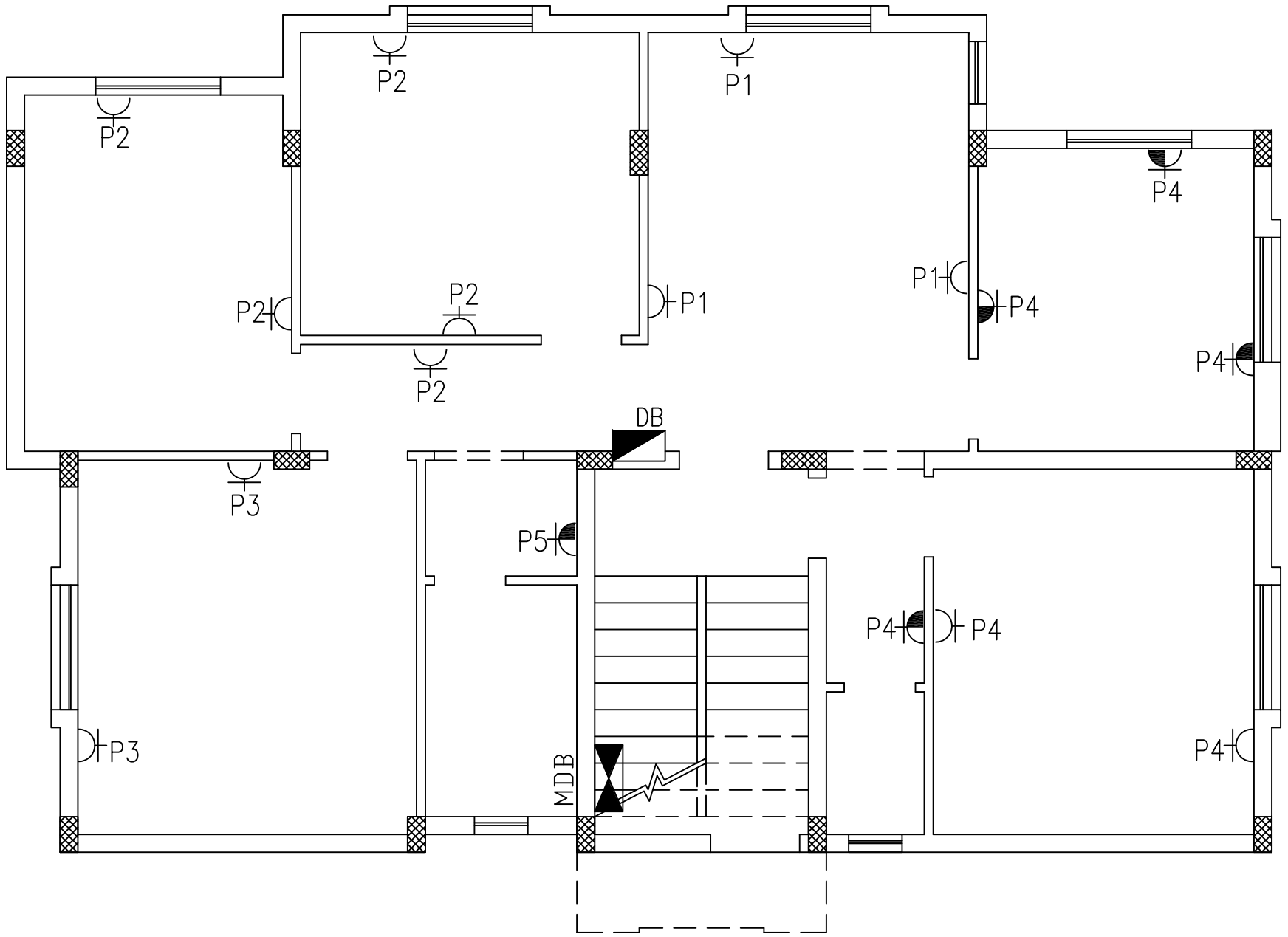
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Distribution Boards for First and Typical Floor

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 04*	R1



NOTES

HEIGHT OF SOCKET =90 CM FROM FFL

HEIGHT OF SOCKET =120 CM FROM FFL AT KITCHEN

HEIGHT OF BOARDS =180 CM FROM FFL TO BOTTOM

No.	Description	Date	By
4			
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

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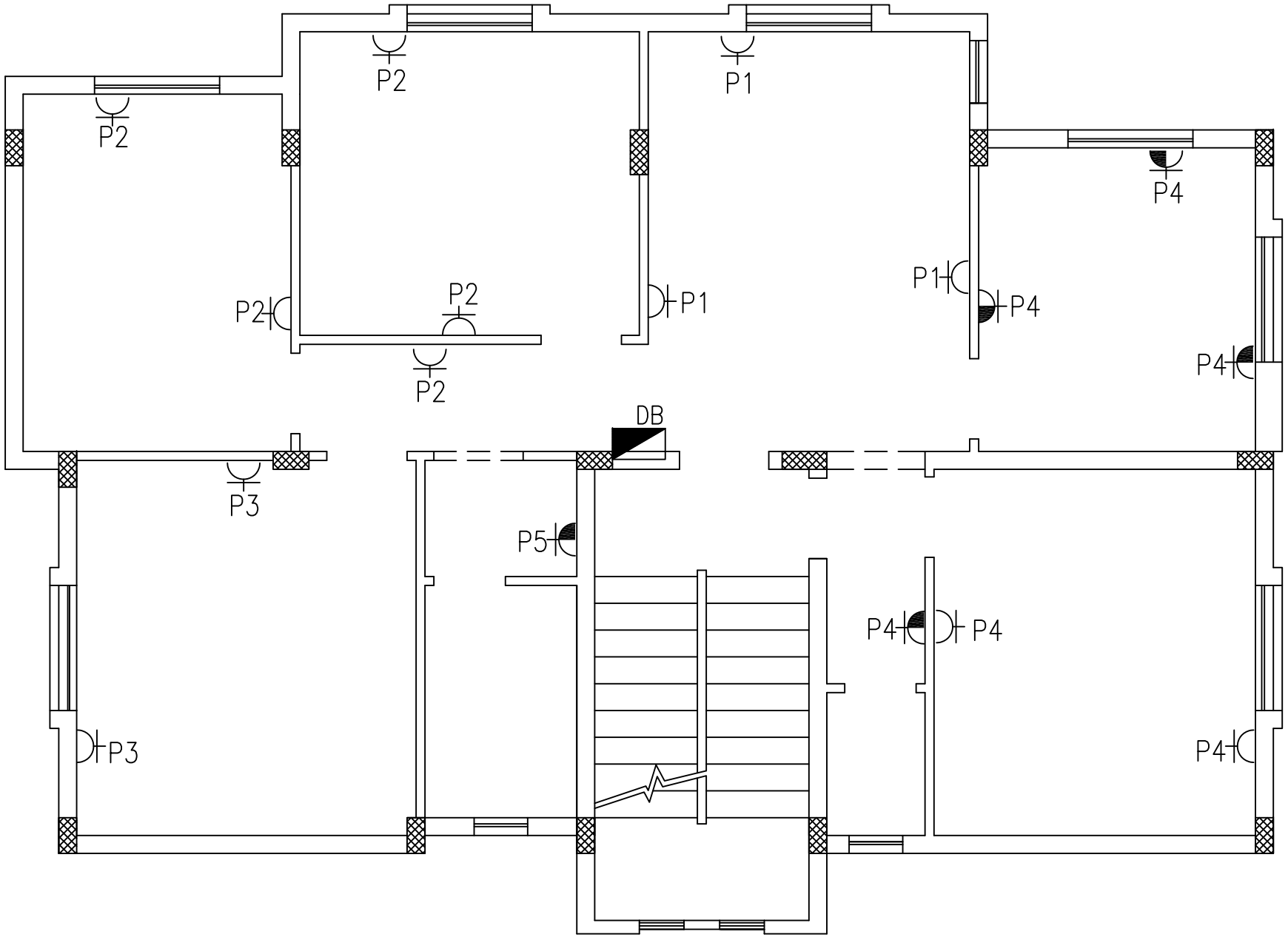
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Power Outlets Layout For Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 05*	R1



NOTES

HEIGHT OF SOCKET =90 CM FROM FFL

HEIGHT OF SOCKET =120 CM FROM FFL AT KITCHEN

HEIGHT OF BOARDS =180 CM FROM FFL TO BOTTOM

No.	Description	Date	By
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Revisions

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PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

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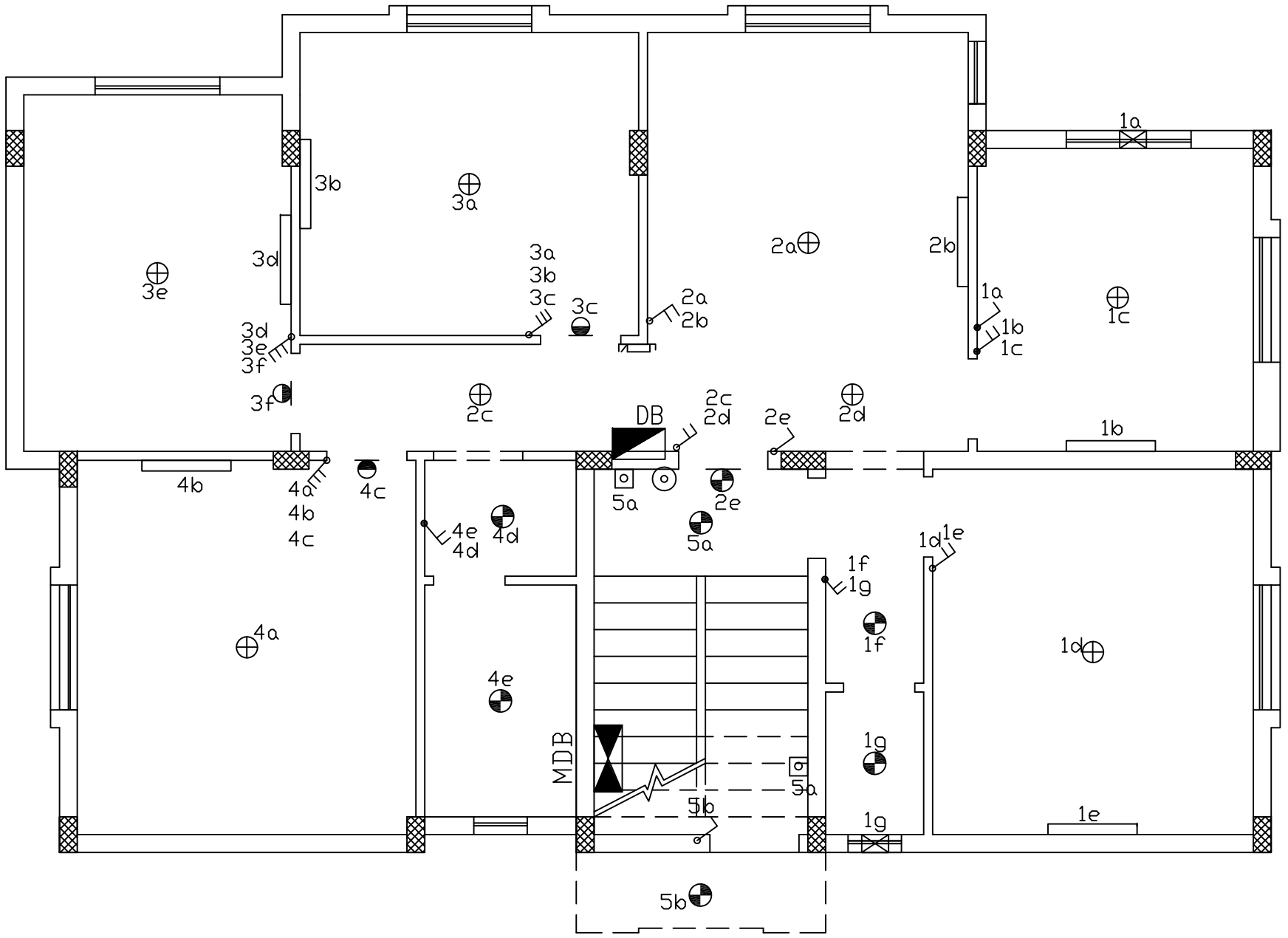
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Power Outlets Layout for First and Typical Floor

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 06*	R1



NOTES

HEIGHT OF SWITCHES =137 CM FROM FFL

EXHAUST FAN =220 CM FROM FFL

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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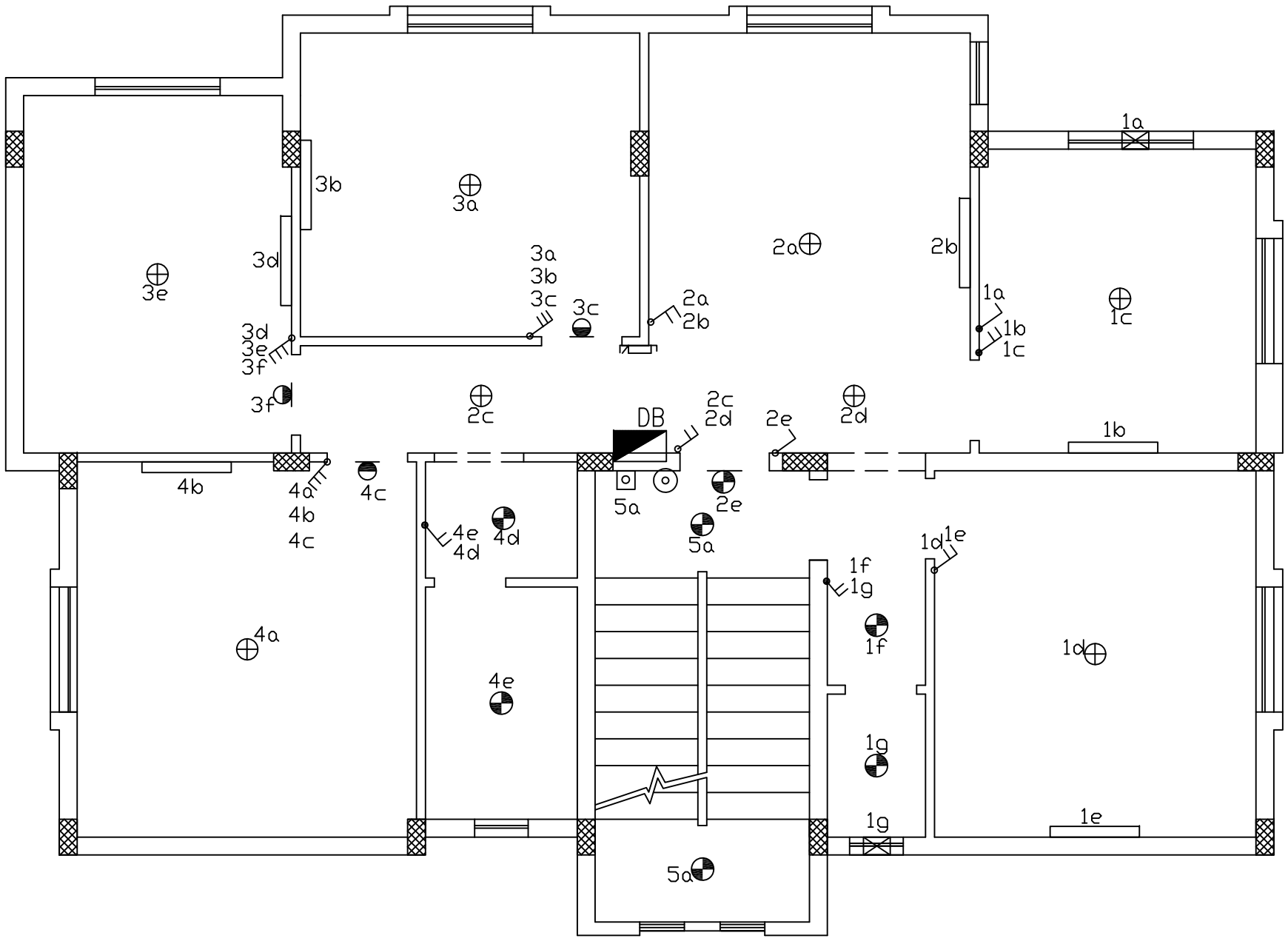
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Lighting Layout For Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 07*	R1



NOTES

HEIGHT OF SWITCHES =137 CM FROM FFL

EXHAUST FAN =220 CM FROM FFL

No.	Description	Date	By
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Revisions

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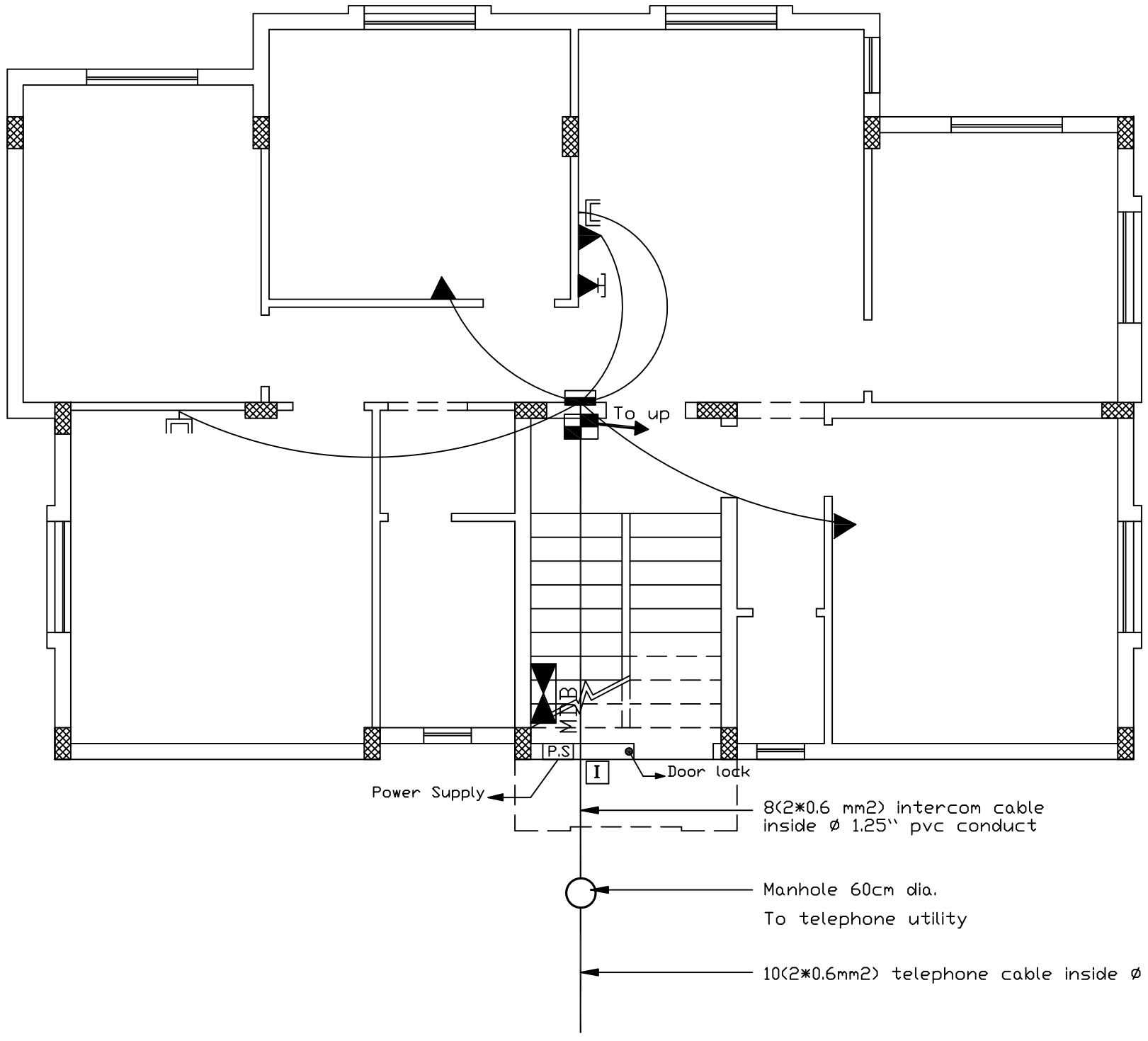
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Lighting Layout
for First and Typical Floor

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 08*	R1



NOTES

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Revisions

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PALESTINIAN NATIONAL AUTHORITY

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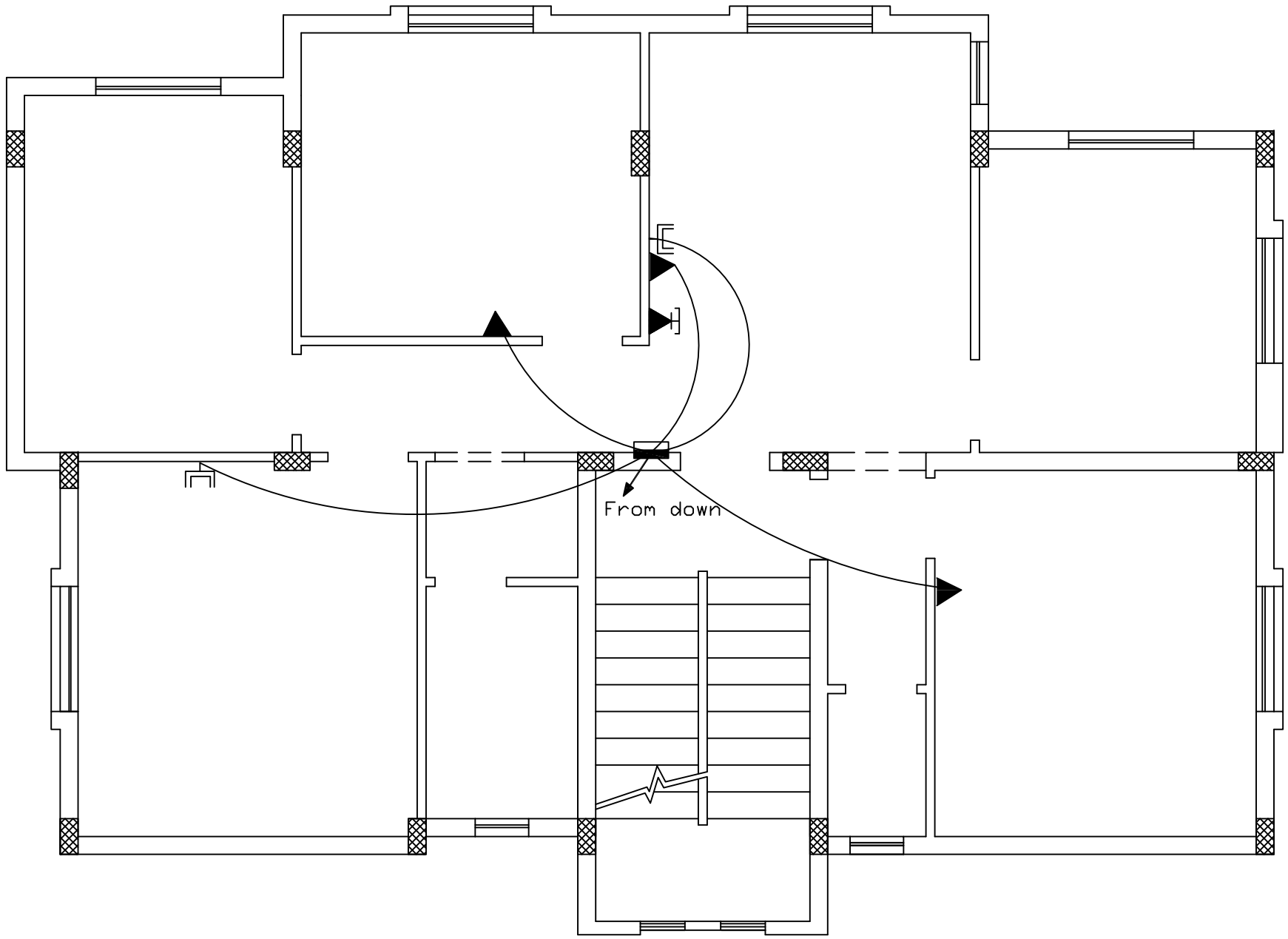
Intercom, TV. and Telephone Layout for Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 09*	R1



NOTES

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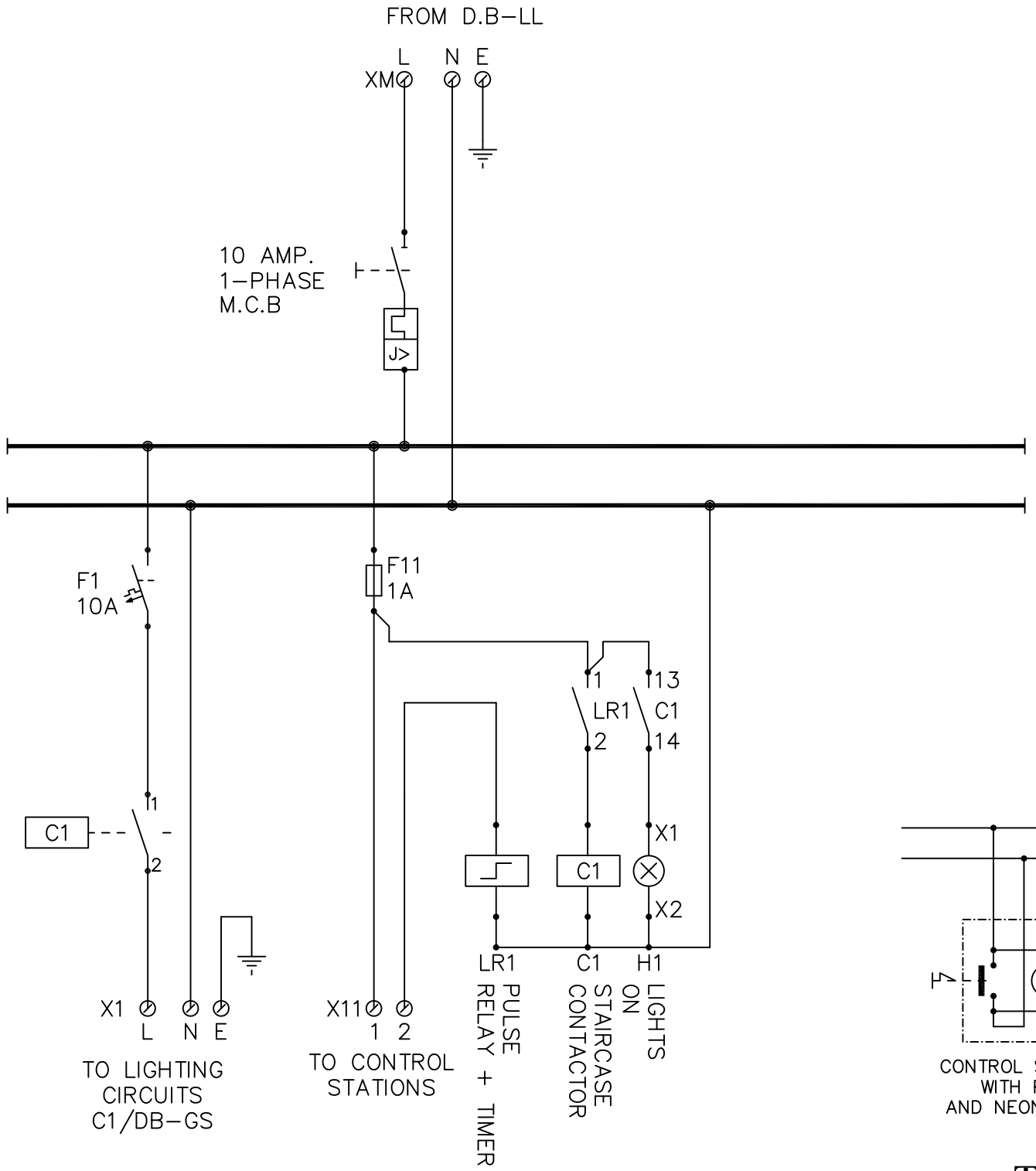
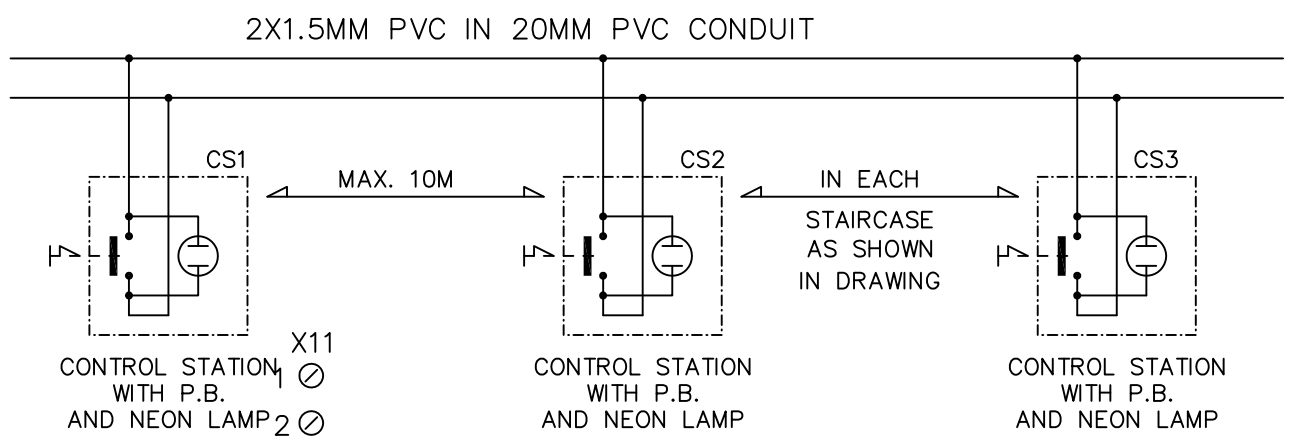
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Intercom, TV. and Telephone Layout for First and Typical Floor

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 10*	R1



TYPICAL STAIRCASE LIGHTING CIRCUIT



TYPICAL LIGHTING CIRCUIT DETAIL FOR STAIRCASE

NOTES

No.	Description	Date	By
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Date	File Name	Scale

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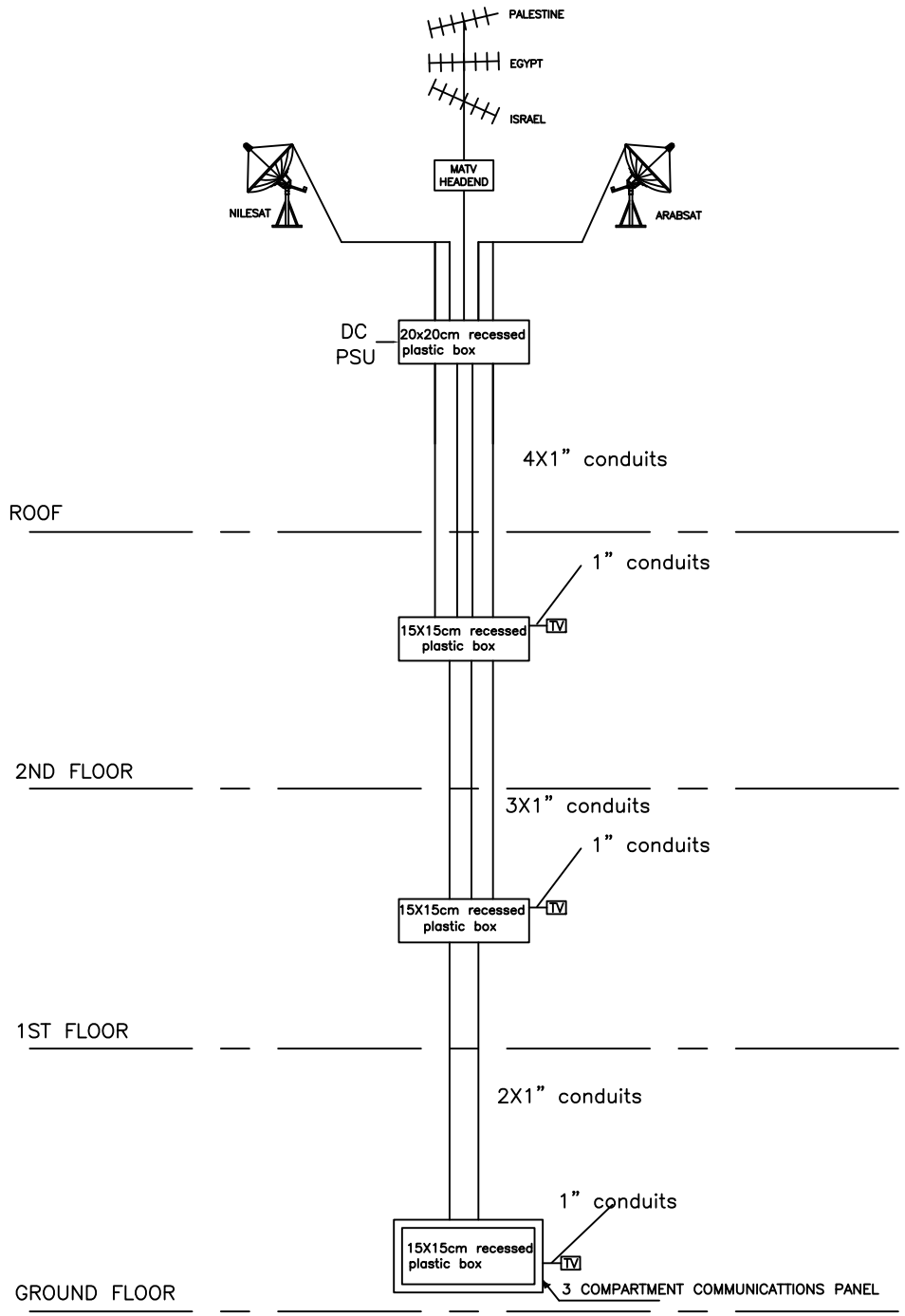
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

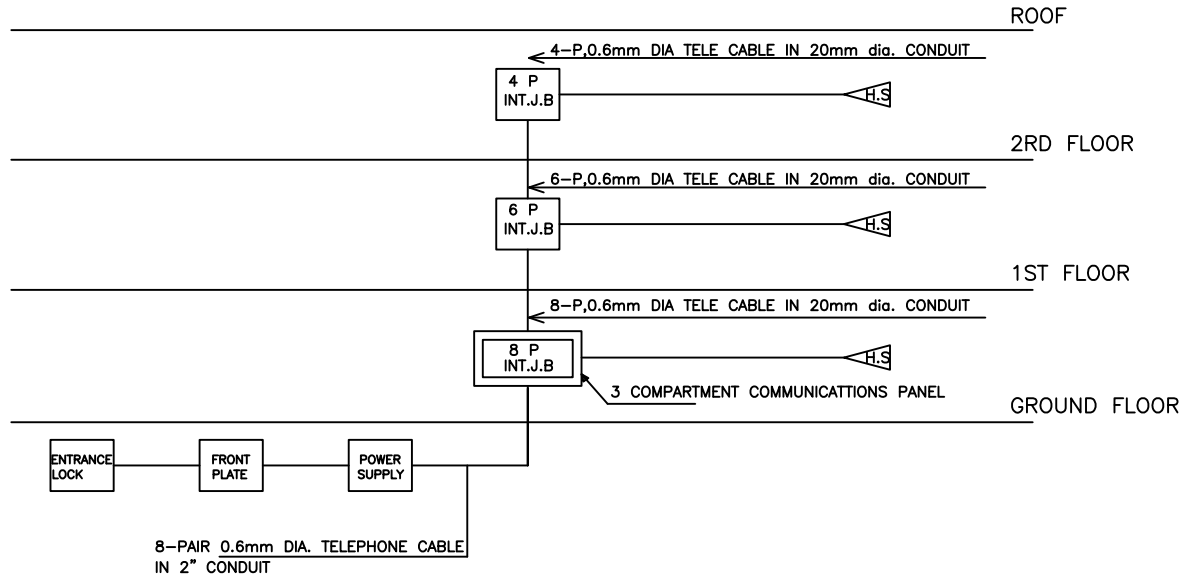
TYPICAL DISTRIBUTION BOARD FOR STAIRCASE

Symbol	Drawing No.:	Rev. No.
RES	T1 - E 11	R1

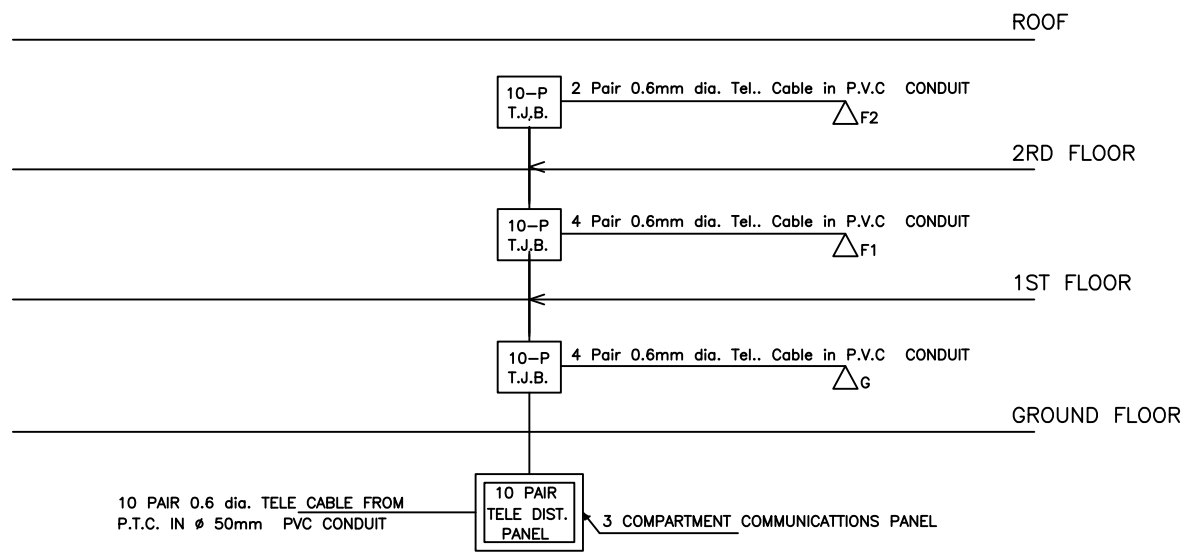


CENTRAL SATELLITE AND TELEVISION RISER DIAGRAM

Carcassing Only (boxes and conduits)



INTERCOM SYSTEM RISER DIAGRAM



TELEPHONE RISER DIAGRAM

NOTES

LEGEND:

P: DENOTES ONE PAIR OF CABLE

H.S : HAND SET COMPLETE WITH LOCK OPENING PUSH BUTTON

FRONT PLATE SHALL BE EQUIPPED WITH:

a) AUDIO MODULE
b) CALL BUTTON MODULE
c) REMOTE MIC

No.	Description	Date	By
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PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

UNDP

PROJECT:-

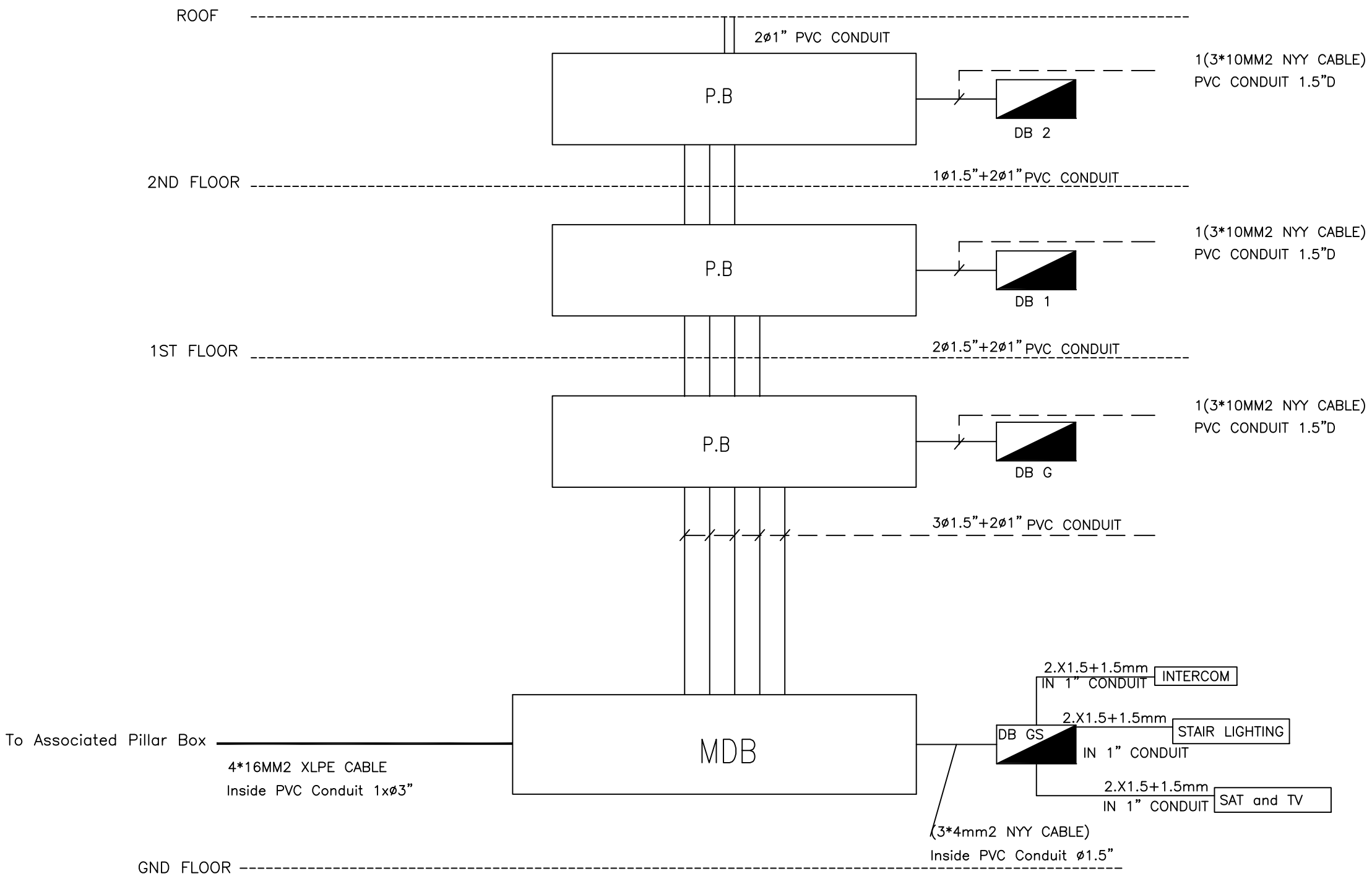
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Tv., Tel., Sat & Intercom Riser Diagram

Symbol	Drawing No.:	Rev. No.
RES	T1 - E 12	R1

NOTES:

1. DO NOT SCALE FROM THIS DRAWING
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL, STRUCTURAL MECHANICAL, ELECTRICAL, ALL OTHER DRAWINGS AND ALL THE RELEVANT SECTIONS OF THE SPECIFICATION
3. EACH K.W.H.M CABINET TO HAVE SUITABLE LOCK WITH MODULAR CONSTRUCTION EQUIPPED WITH DOOR AND SUITABLE GLAZED WINDOW TO READ THE K.W.H.M WITHOUT OPENING THE DOOR.



NOTES

LEGEND

DB SECONDARY DISTRIB. BOARD

DB XY X=FLOOR NO.,Y=FLAT NO.

P.B PULL BOX 40*25*8 CM

No.	Description	Date	By
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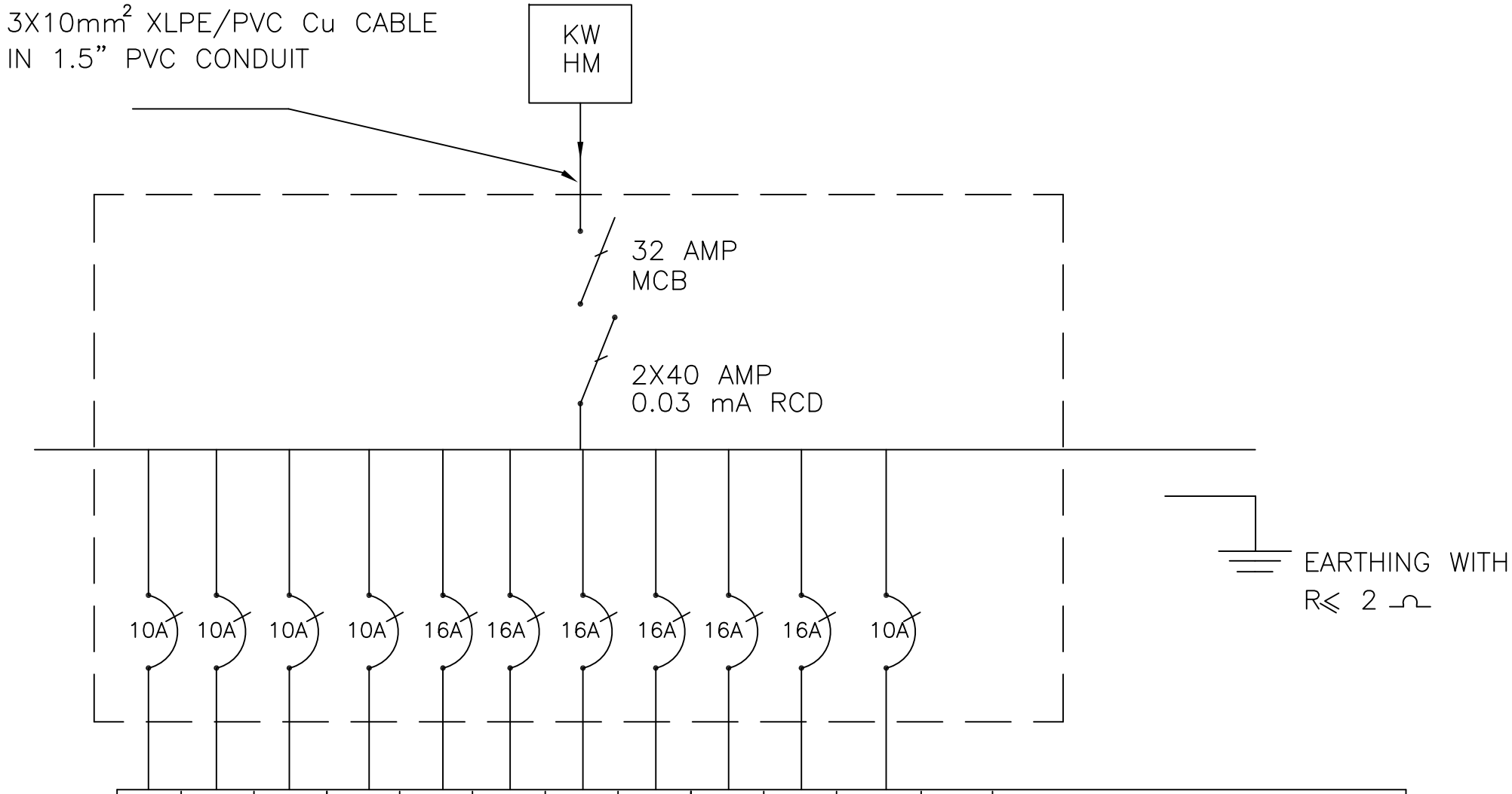
IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Power Riser Diagram

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 13*	R1



L1	L2	L3	L4	P1	P2	P3	P4	P5	PS	LS		CIRCUIT NUMBER
800	700	700	700	800	1000	500	1500	1500		–	–	LOAD IN V.A.
2900				5300					SPARES			8200 TOTAL CONNECTED LOAD V.A
3X1.5 mm²				3x2.5 mm²								SIZE OF WRING MM²
20mm DIA HEAVY GAUGE PVC												SIZE OF CONDUIT AND TYPE
LIGHTING				SW. SOCKET OUTLET					SPARE			LOAD SERVED

TOTAL CONNECTED LOAD=8200 VA
DEMAND FACTOR:30%
TOTAL DEMAND=5740 VA

TYPICAL FLAT DISTRIBUTION BOARD

DB-G,1&2

NOTES

No.	Description	Date	By
4			
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Date	File Name	Scale

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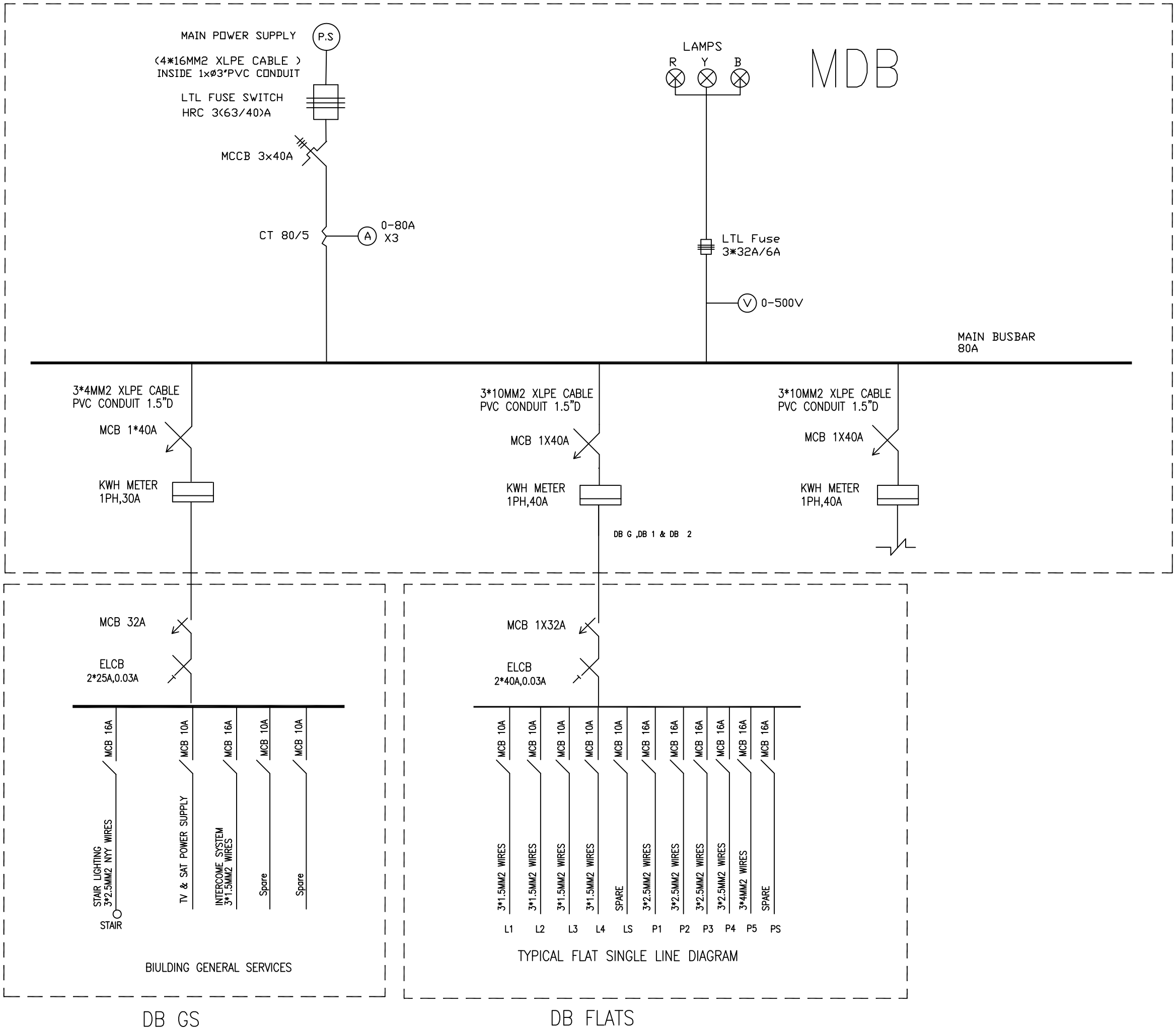
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

TYPICAL FLAT DISTRIBUTION BOARD

Symbol	Drawing No.:	Rev. No.
RES	T1 - E 14	R1



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PALESTINIAN NATIONAL AUTHORITY

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CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Distribution Board
Single Line Diagram

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 15*	R1

ARCHITECTURAL DRAWINGS

LLS (TYPE 2)

List of Drawings- LLS (Type2)

Architectural Drawings

T2-A-01 Ground Floor Plan- Type L
T2-A-02 First Floor Plan- Type L
T2-A-03 Second Floor Plan- Type S
T2-A-04 Roof Floor Plan- Type S
T2-A-05 Furniture Plan- Typical Floor (Type L)
T2-A-06 Main Elevation- No. 1
T2-A-07 Rigth Side Elevation- No. 2
T2-A-08 Rare Elevation- No. 3
T2-A-09 Left Side Elevation- No. 4
T2-A-10 Section A---A
T2-A-11 Section B---B

Mechanical Drawings

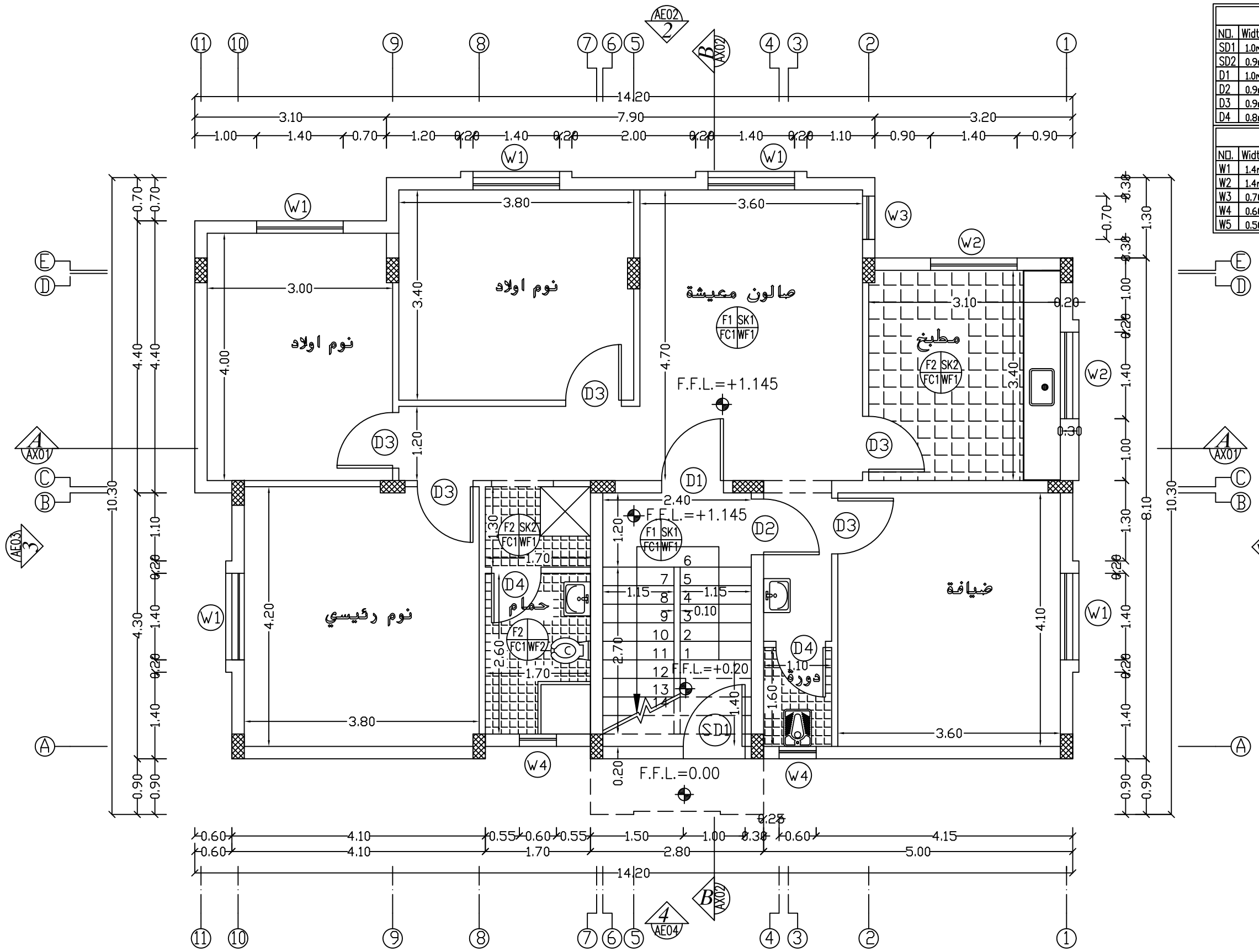
T2-M-01 Legened, General Notes, & List of Mechanical Drawings
T2-M-02 Typical Detail of Manhole & Pipeline
T2-M-03 Drainage System for Ground Floor
T2-M-04 Drainage System for First Floor
T2-M-05 Drainage System for Second Floor
T2-M-06 Water System for Ground Floor
T2-M-07 Water System for First Floor
T2-M-08 Water System for Second Floor
T2-M-09 Water Supply & Distribution Box
T2-M-10 Water Tanks on Stair
T2-M-11 Water System For Typical Floor
T2-M-12 Roof Floor Drainage System

Civil Drawings

T2-C-01 Axies of Columns Necks
T2-C-02 Axies of Columns
T2-C-03 Footings Plans
T2-C-04 Footings Details
T2-C-05 Footings Table
T2-C-06 Secondary Beam Plan & Details
T2-C-07 Columns Table & Details
T2-C-08 Columns & Ground Slab Details
T2-C-09 Main Ground Beams Plan
T2-C-10 Main Ground Beams Details
T2-C-11 Beam Details & Reinforcement For Ground and First Floor-1
T2-C-12 Beam Details & Reinforcement For Ground and First Floor-2
T2-C-13 Beam Details & Reinforcement For Ground and First Floor-3
T2-C-14 Beam Details & Reinforcement For Ground and First Floor-4
T2-C-15 Ribs Details & Reinforcement For Ground and First Floor Slab
T2-C-16 Beam Details & Reinforcement For Second Floor Slab-1
T2-C-17 Beam Details & Reinforcement For Second Floor Slab-2
T2-C-18 Beam Details & Reinforcement For Second Floor Slab-3
T2-C-19 Beam Details & Reinforcement For Second Floor Slab-4
T2-C-20 Ribs Details & Reinforcement For Second Floor Slab

Electrical Drawings

T2-E-01 Legend for Electrical Fitting
T2-E-02 Earthing System
T2-E-03 Main Electrical Incoming and Distributions
T2-E-04 Distribution Boards For First & Typical Floor
T2-E-05 Power Outlets Layout For Ground Floor
T2-E-06 Power Outlets Layout For First Floor
T2-E-07 Power Outlets Layout For Second Floor
T2-E-08 Lighting Layout For Ground Floor
T2-E-09 Lighting Layout For First Floor
T2-E-10 Lighting Layout For Second Floor
T2-E-11 Intercom, TV. and Telephone Layout For Ground Floor
T2-E-12 Intercom, TV. and Telephone For First & Typical Floor
T2-E-13 Typical Distribtion Board For Staircase
T2-E-14 Tv., Tel., Sat and Intercom Riser Diagram
T2-E-15 Power Riser Diagram
T2-E-16 Typical Flat Distribtion Board
T2-E-17 Main Distribution Board, Single Line Diagram



GROUND FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

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PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

اللجنة السعودية لإغاثة الشعب الفلسطيني

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

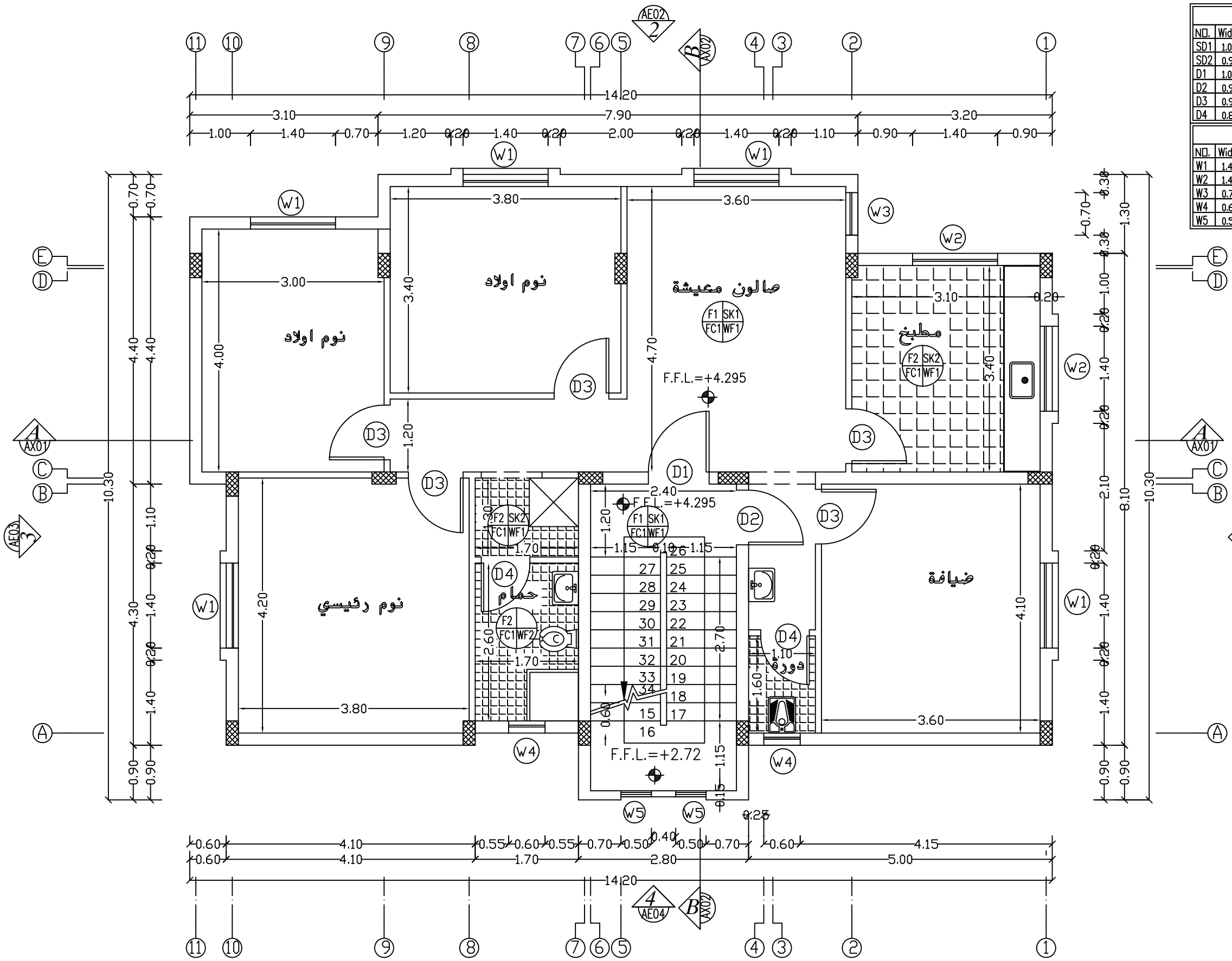
IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Ground Floor Plan
Type L

Symbol	Drawing No.:	Rev. No.
RES	T2-A01	R1



FIRST FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

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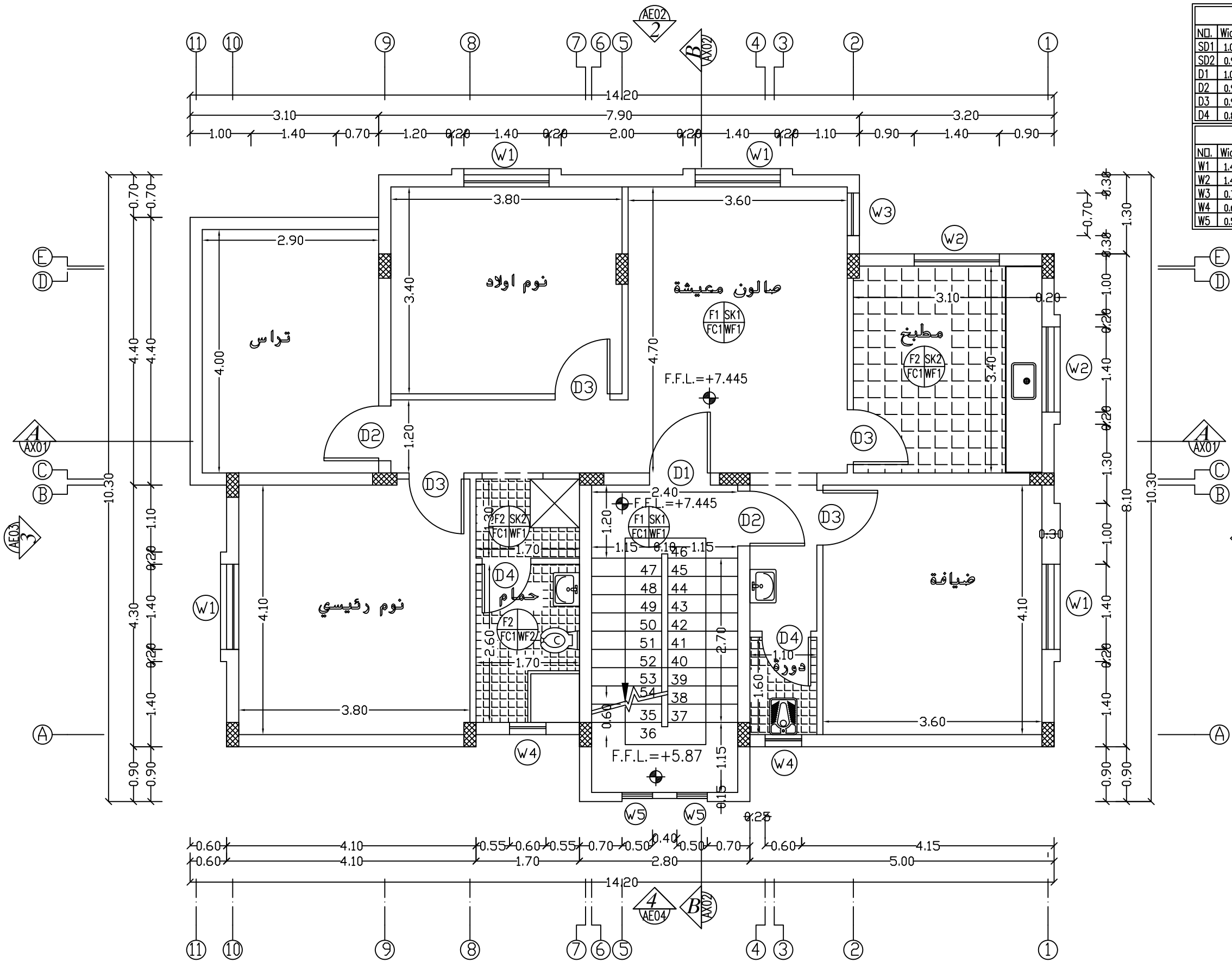
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

First Floor Plan
Type L

Symbol	Drawing No.:	Rev. No.
RES	T2 - A02	R1



SECOND FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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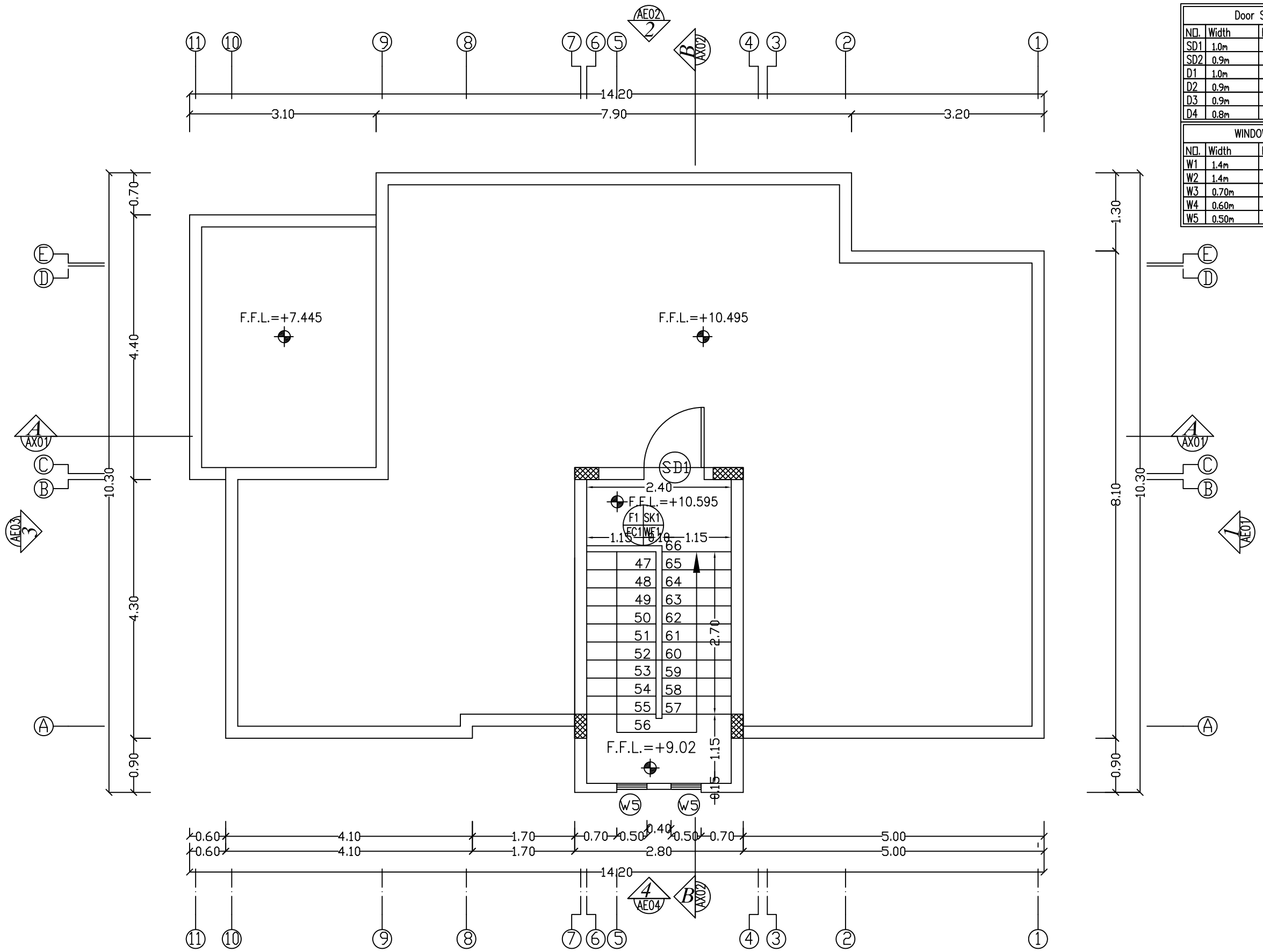
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Second Floor Plan
Type S

Symbol	Drawing No.:	Rev. No.
RES	T2 -A03	R1



ROOF FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

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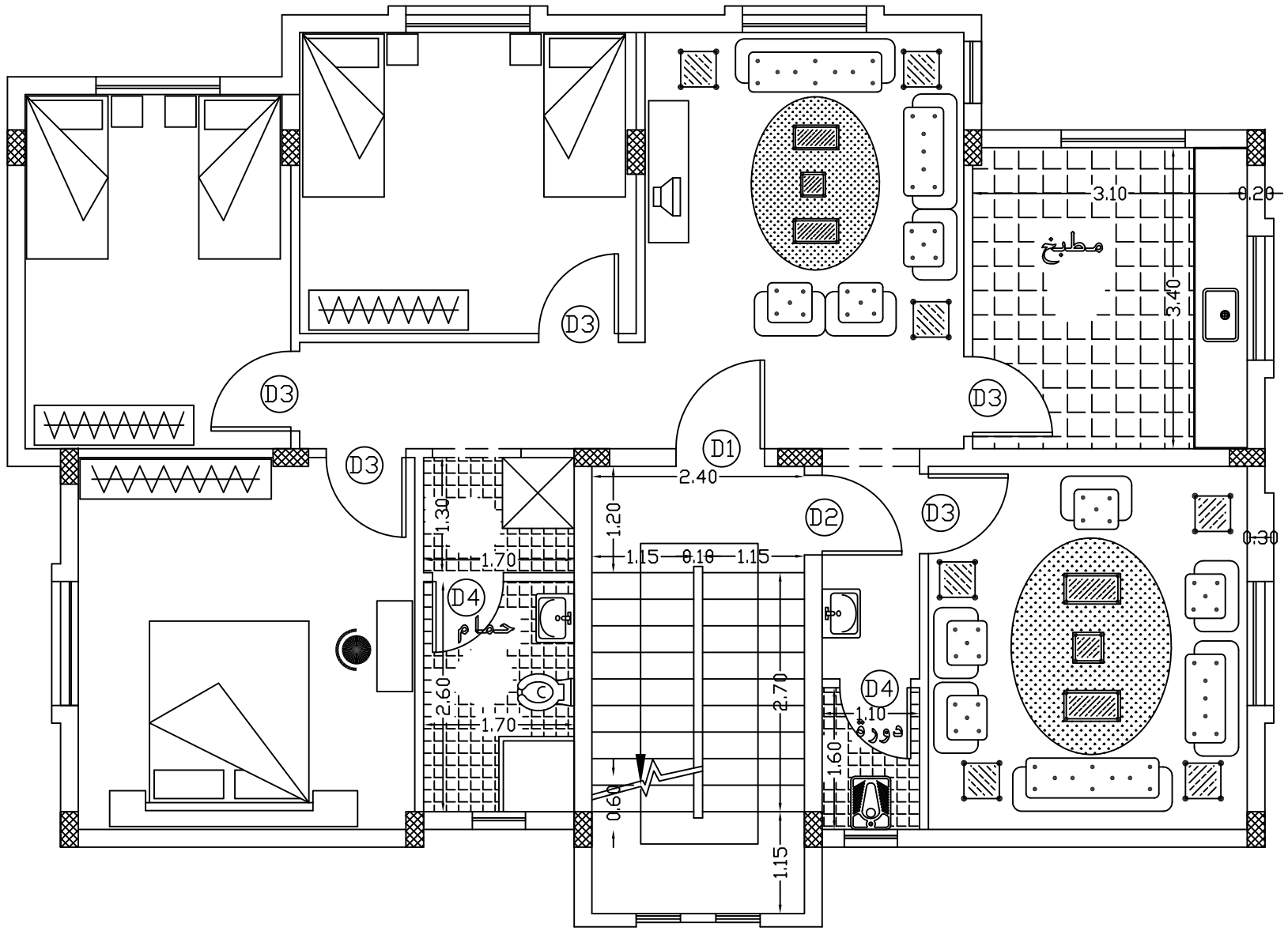
Roof Floor Plan
Type S

Symbol	Drawing No.:	Rev. No.
RES	*T2 - A04*	R1



FURNITURE PLAN TYPICAL FLOOR

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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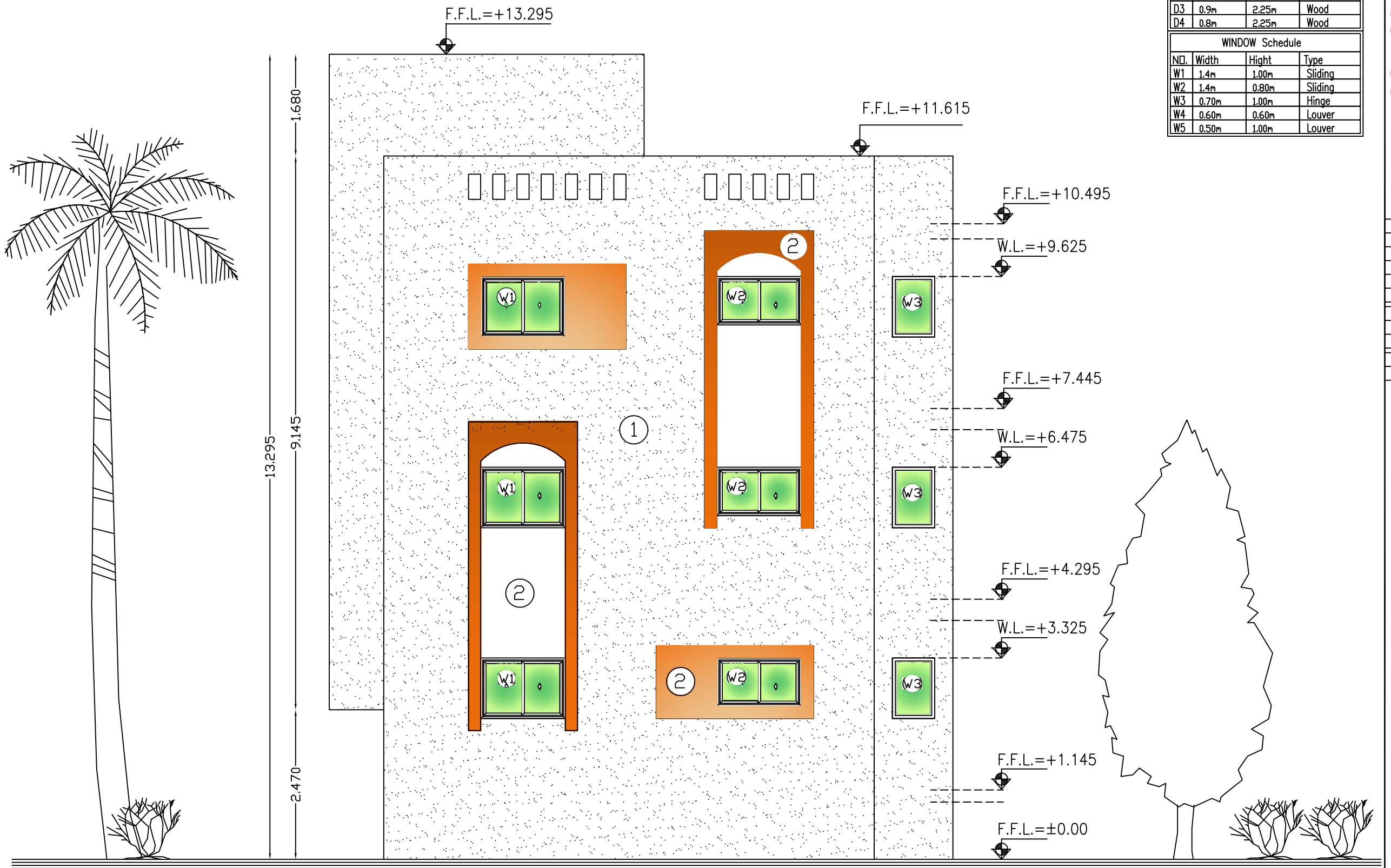
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Furniture Plan Typical Floor
Type L

Symbol	Drawing No.:	Rev. No.
RES	T2-A05	R1



Main Elevation

NO. 1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

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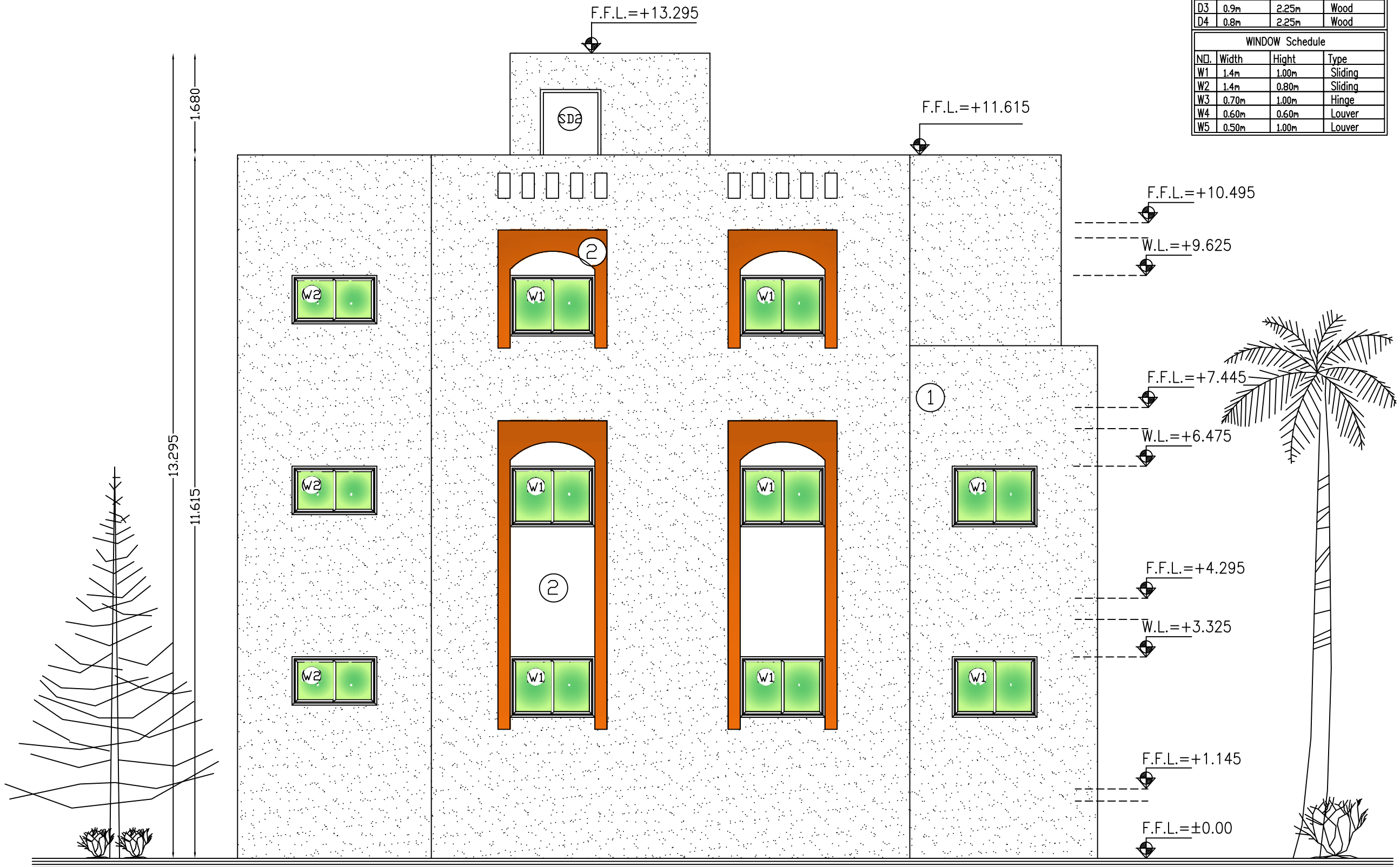
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Elevation
NO. 1

Symbol	Drawing No.:	Rev. No.
RES	*AE06*	R1



Right Side Elevation

NO. 2

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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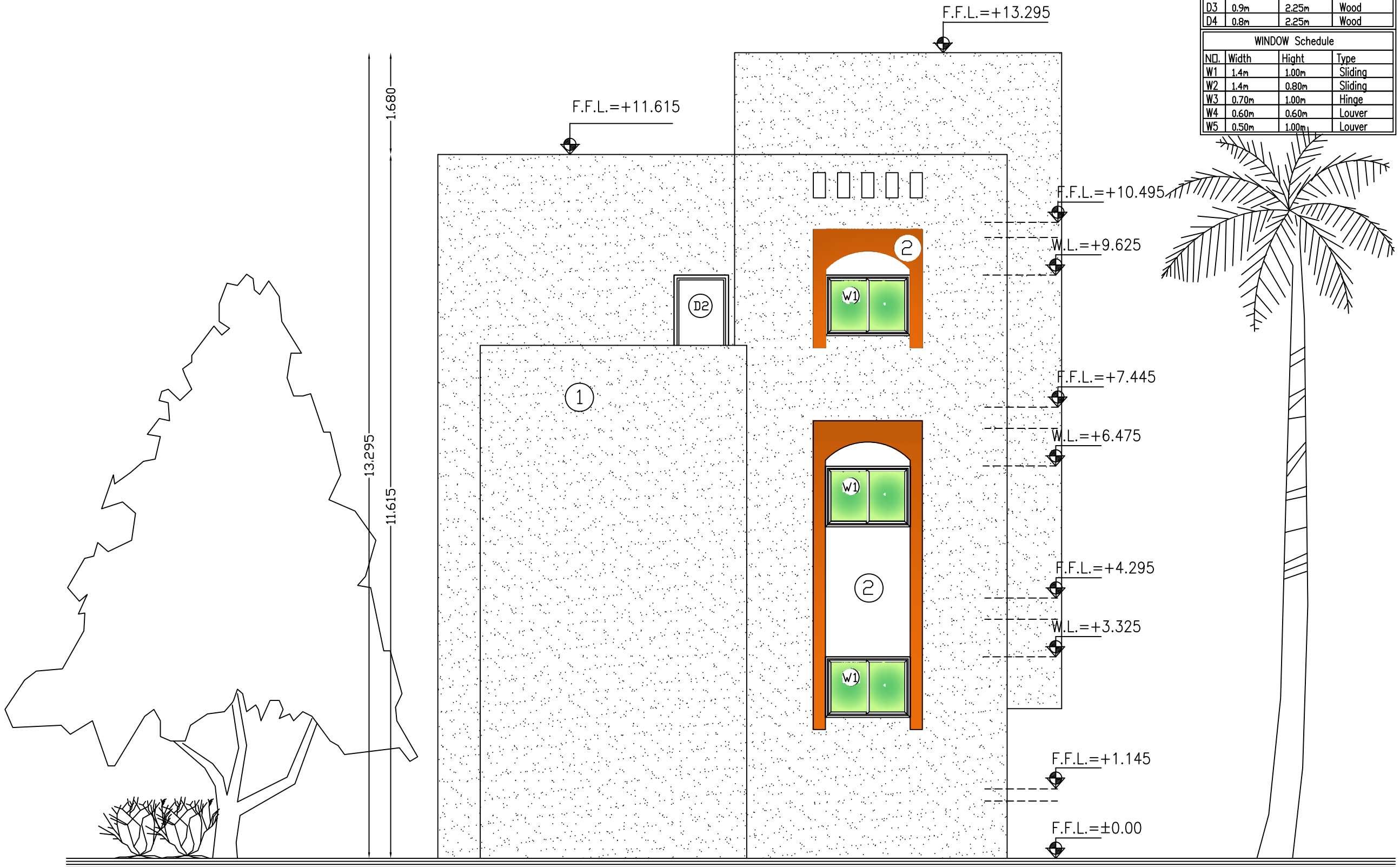
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Right Side Elevation NO. 2

Symbol	Drawing No.:	Rev. No.
RES	AE07	R1



Rare Elevation

NO. 3

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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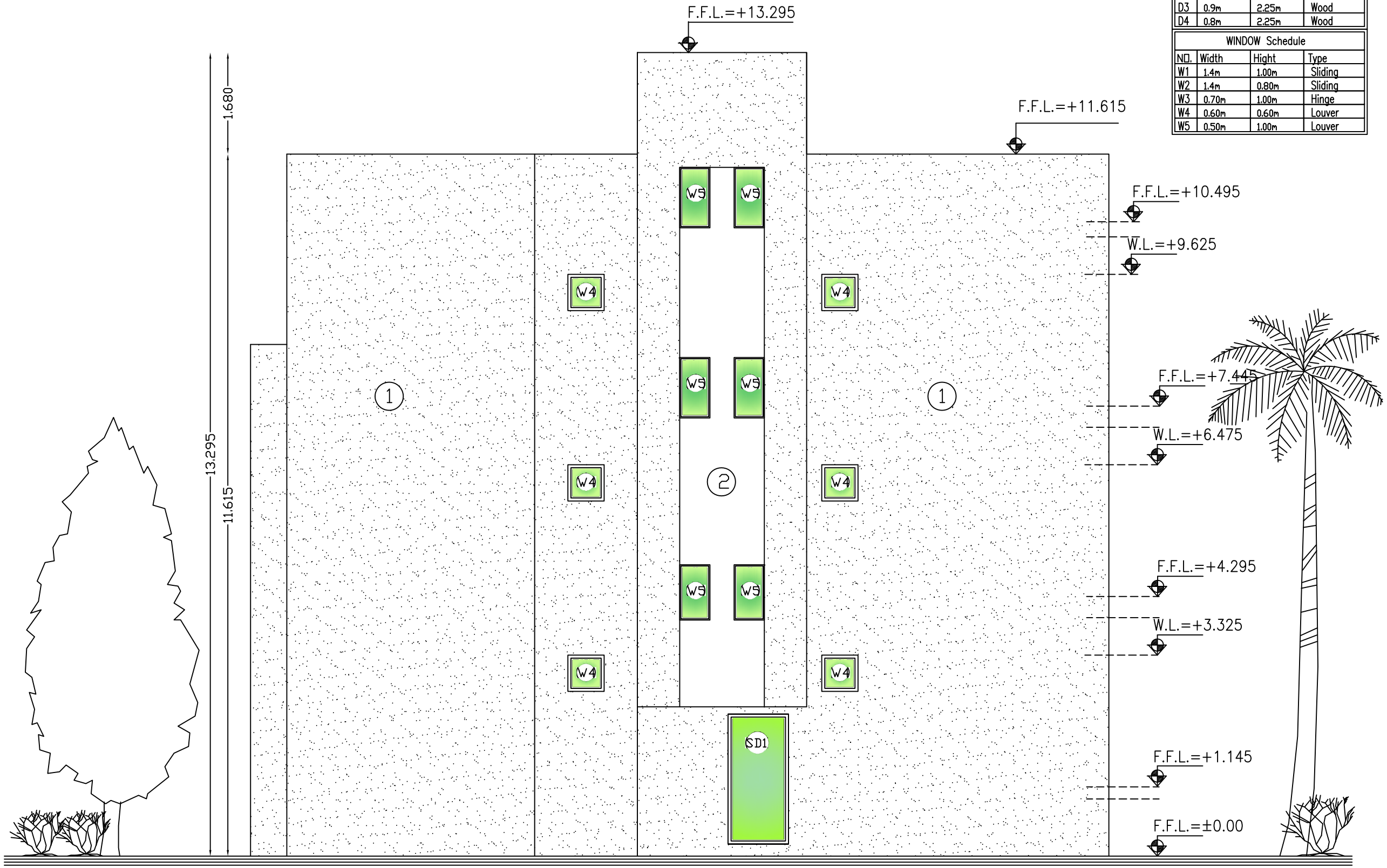
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Rare Elevation NO. 3

Symbol	Drawing No.:	Rev. No.
RES	AE08	R1



Left Side Elevation

NO. 4

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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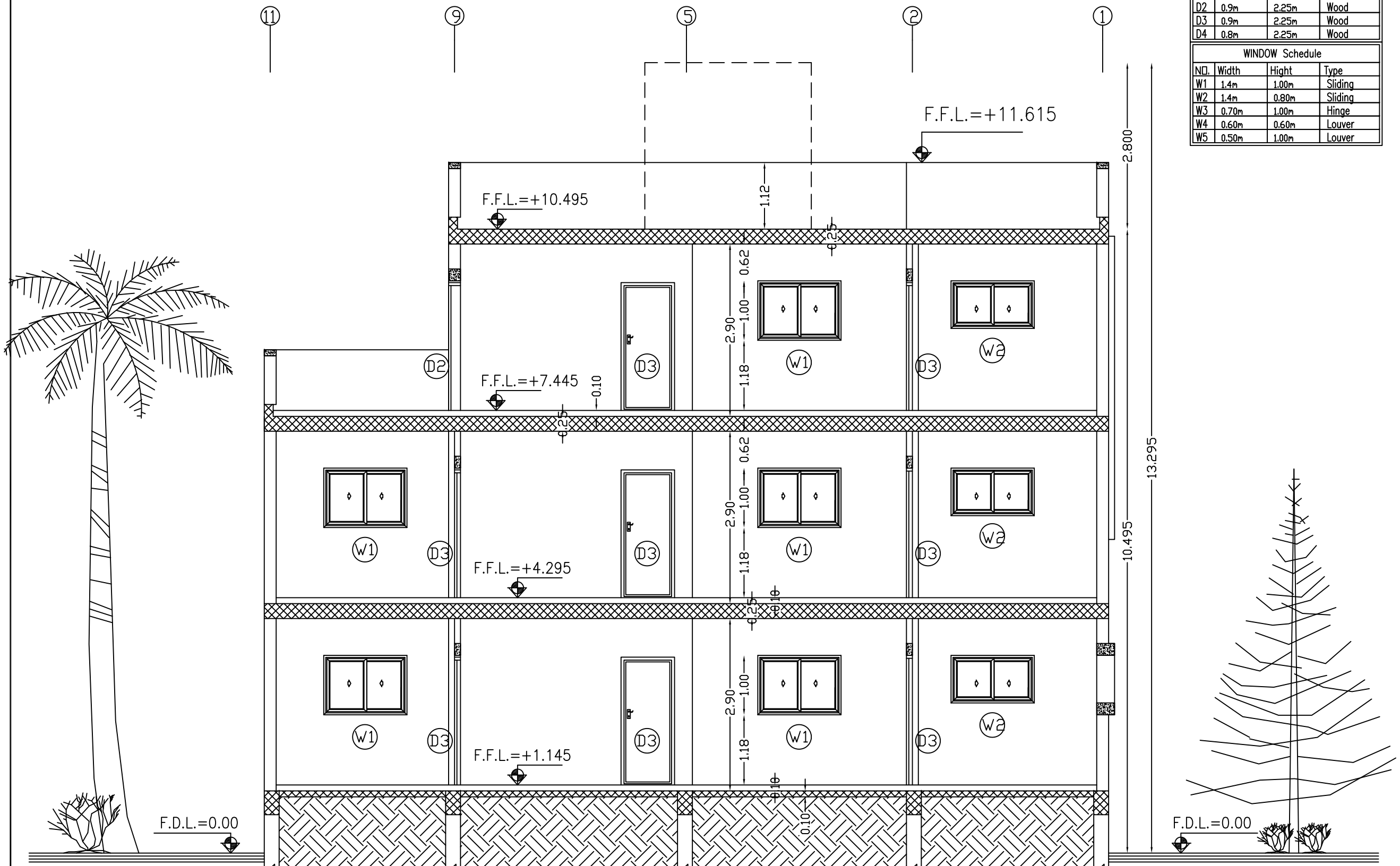
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Left Side Elevation NO. 4

Symbol	Drawing No.:	Rev. No.
RES	AE09	R1



Section A___A

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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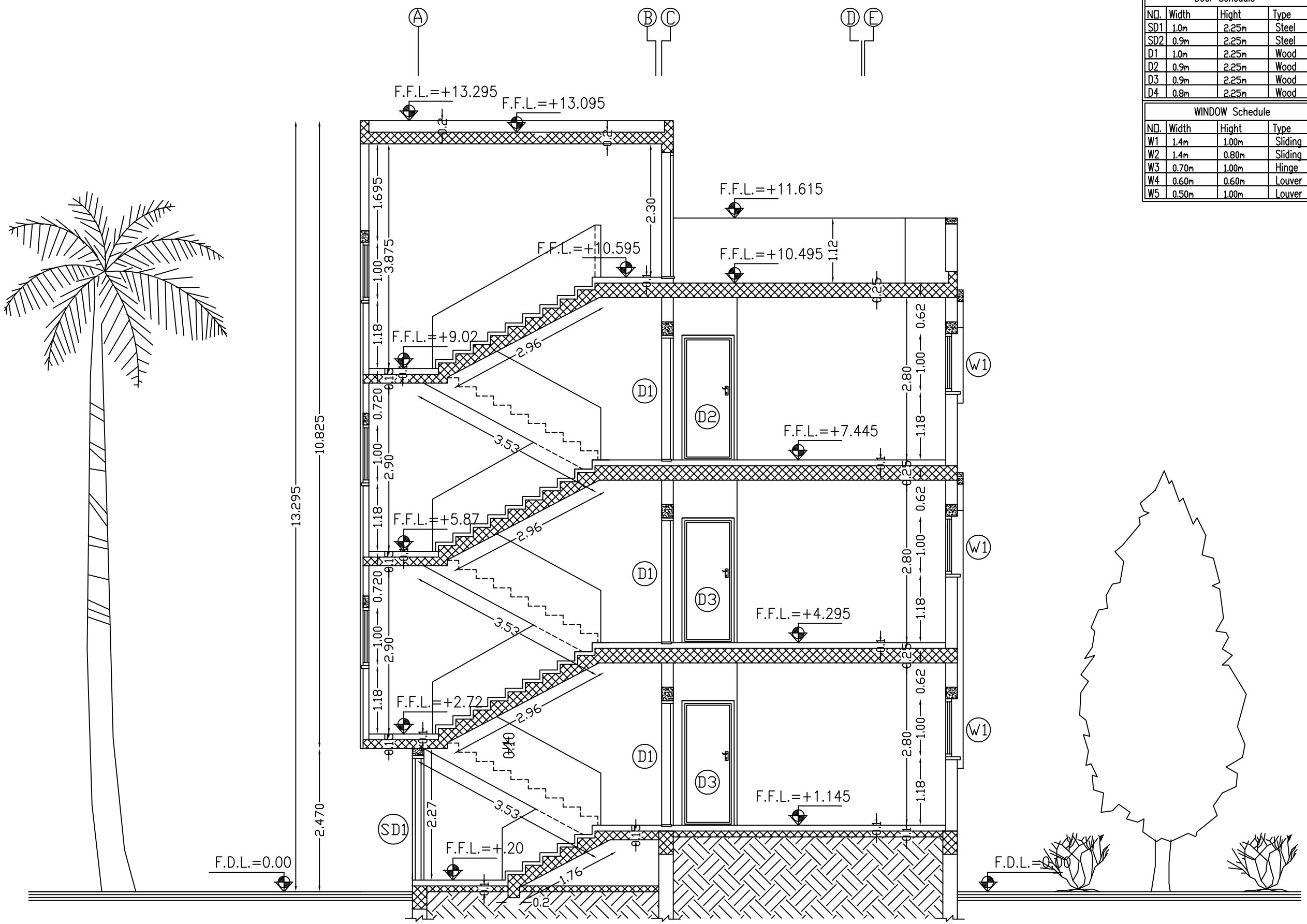
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Section A----A

Symbol	Drawing No.:	Rev. No.
RES	T2-A10	R1



Section B____B

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

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Section B----B

Symbol	Drawing No.:	Rev. No.
RES	T2-A11	R1

MECHANICAL DRAWINGS

LLS (TYPE 2)

LEGEND, ABBREVIATIONS AND SYMBOLS

BD	⊠	BALCONY DRAIN
BDR		BALCONY DRAIN RISER
CW		COLD WATER PIPE
MH	◯	MANHOLE
RW		RAIN WATER PIPE
——		Cold water
- - -		Hot water
WDB		BOX
– ⟍◯		FLOAT VALVE
– –		GATE VALVE
–NC–		NORMALLY CLOSED VALVE
⋈		GLOBE VALVE
⋈		BUTTERFLY VALVE
⋈		SOLINOID VALVE
R.W.P		RAIN WATER PIPE WITH FLOOR TRAP
————		2" UPVC DRINAG PIPE
————		4" UPVC DRAINAG PIPE
————		6" UPVC PIPE (MANHOLE CONECTION)
F.T		4''UPVC B.D.P BALCONY DRAIN PIPE
○ ○		4"UPVC RISER SOLID, FLUID WASTE
F.T		FLOOR TRAP
⊘		WATER METER 3/4"

SANITARY FIXTURES CONNECTION

UNLESS OTHERWISE NOTED THE CONNECTIONS FOR THE FIXTURE UNITS WILL BE AS FOLLOWS .

KS	KITCHEN SINK	2" (50 mm)
JS/LS	JANITOR SINK/LAVATORY	2" (50 mm)
WB/LAV	HAND WASH BASIN	2" (50 mm)
WC	WATER CLOSET	4" (100 mm)
W/M	WASHING MACHINE	2" (50 mm)
FD	FLOOR DRAIN	3" (75 mm)

NOTES:

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

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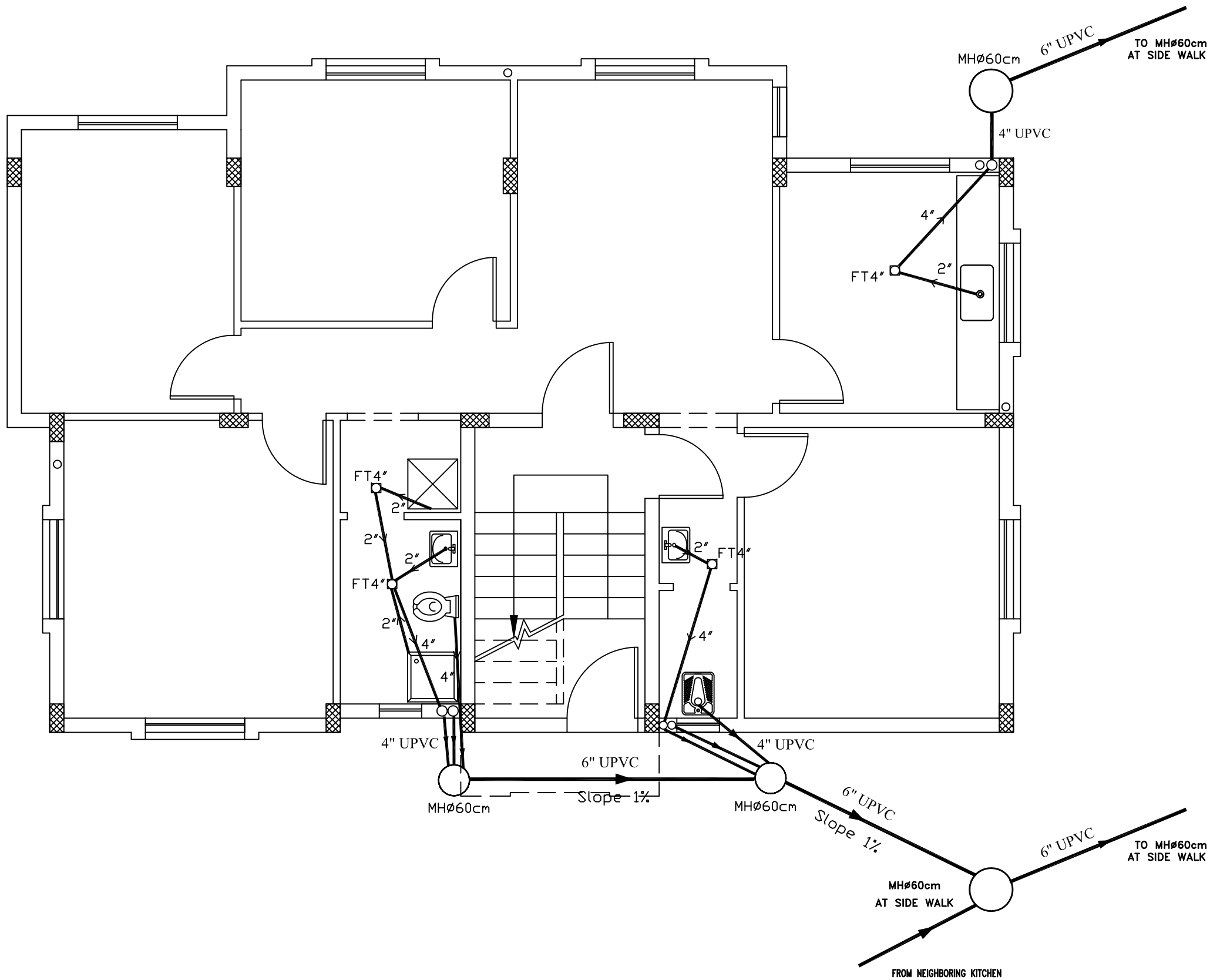
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Legend, General Notes & List of Mechanical Drawings

Symbol	Drawing No.:	Rev. No.
RES	T2 - M 01	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
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Revisions

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PALESTINIAN NATIONAL AUTHORITY

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IMPLEMENTED BY:

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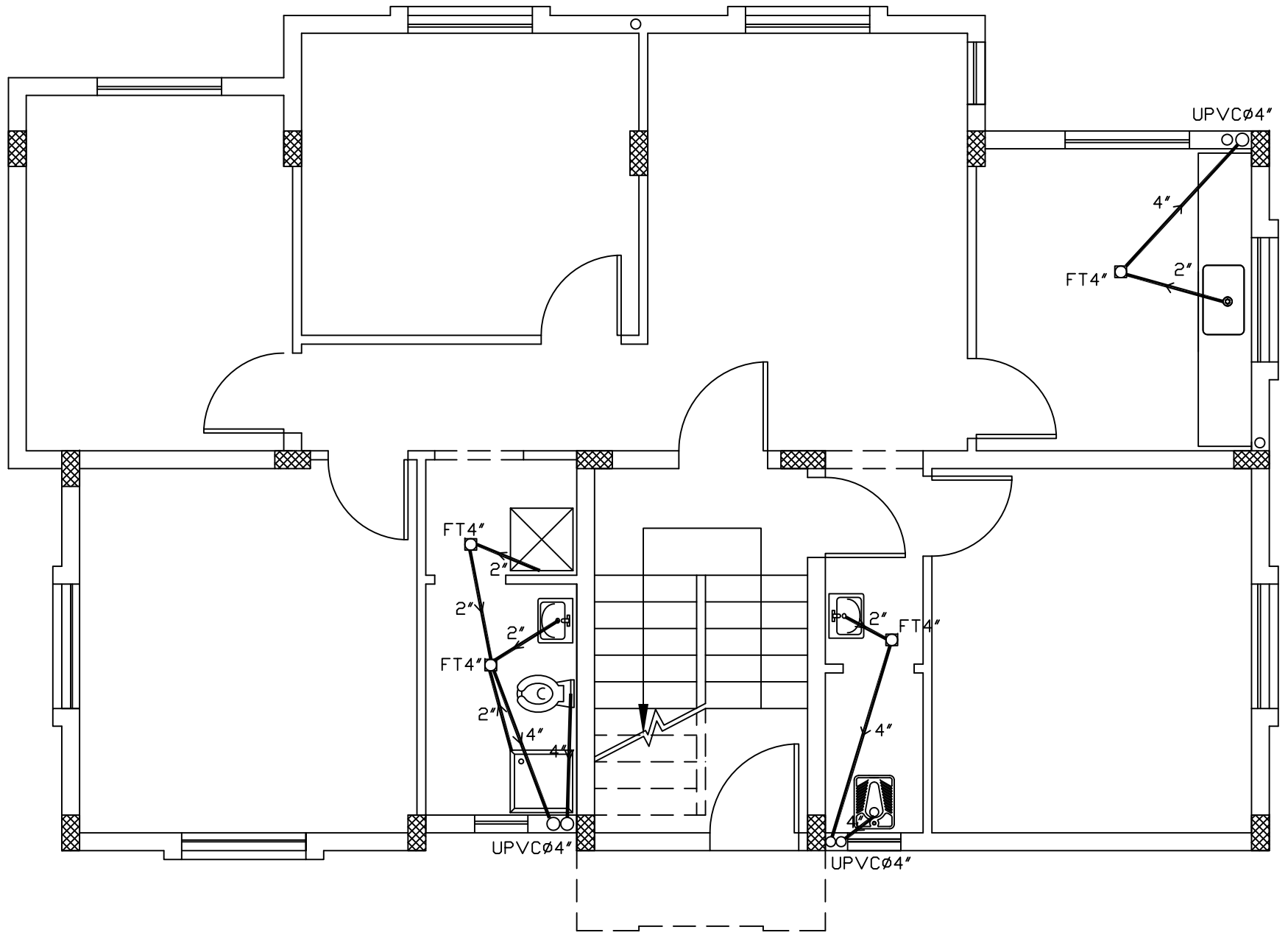
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Typical Detail Of Manhole & Pipeline

Symbol	Drawing No.:	Rev. No.
RES	T2 - M 02	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
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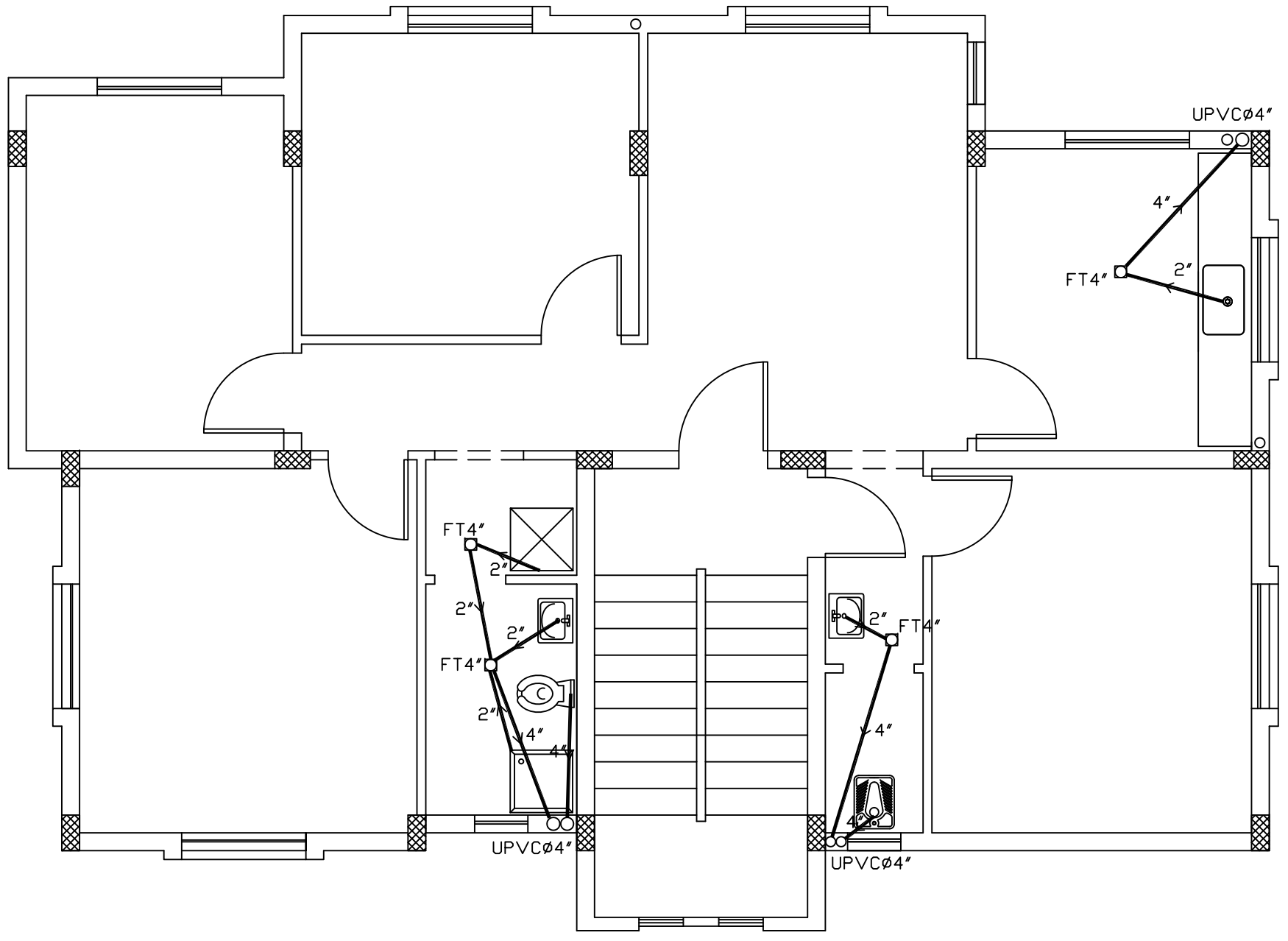
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Drainage System for Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	T2 - M 03	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
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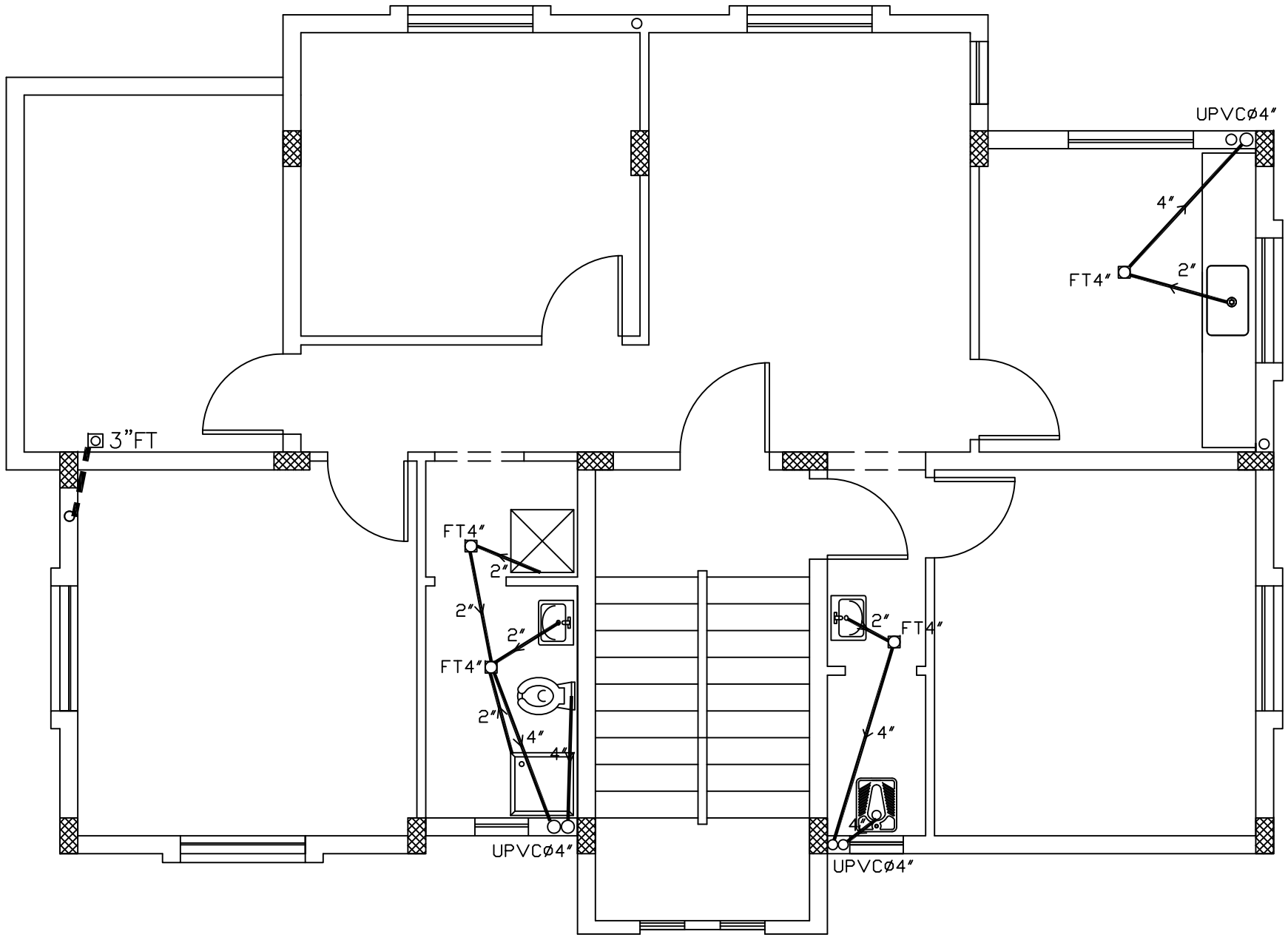
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Drainage System for First Floor

Symbol	Drawing No.:	Rev. No.
RES	T2 - M 04	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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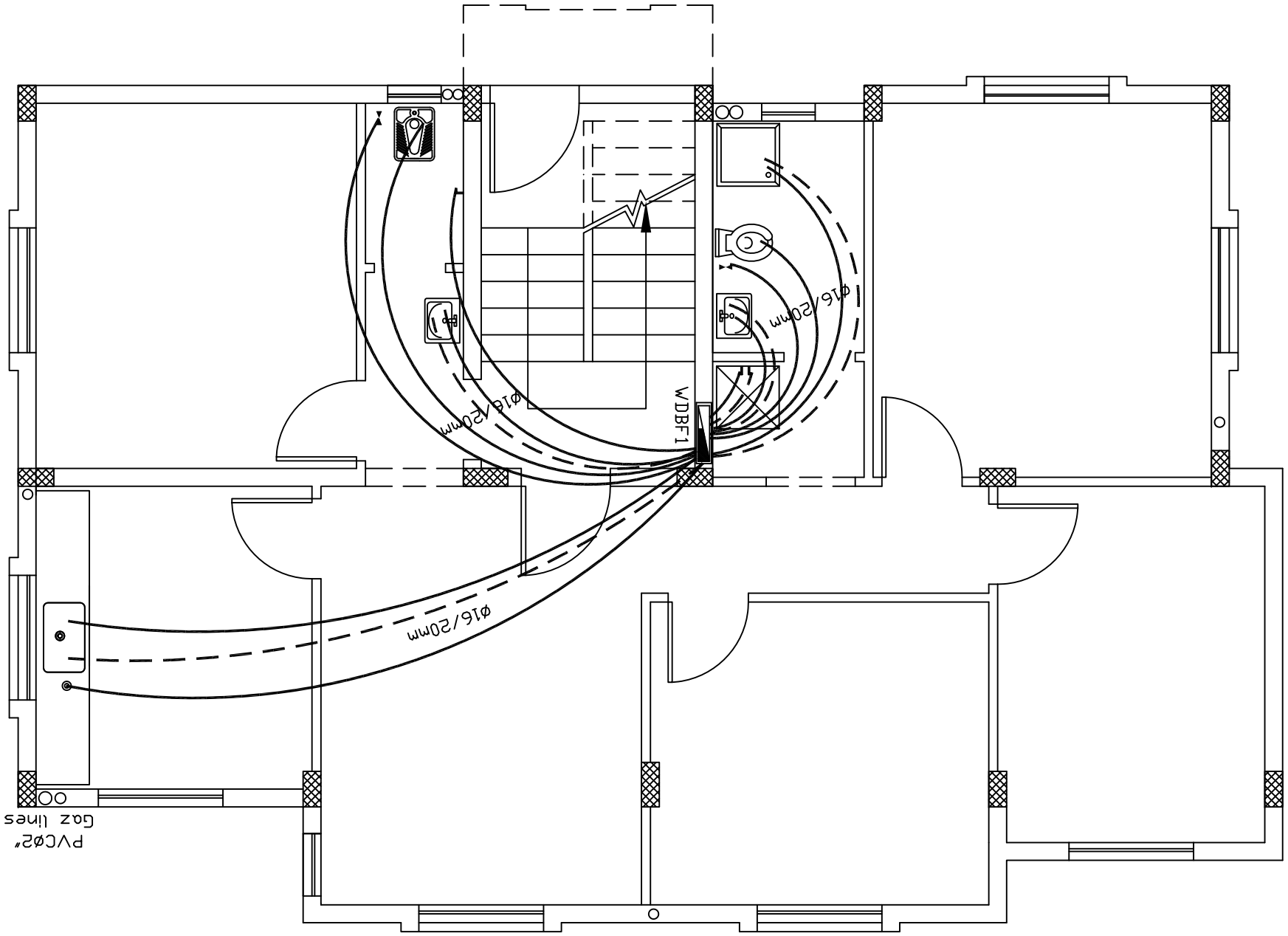
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Drainage System for Second Floor

Symbol	Drawing No.:	Rev. No.
RES	T2 - M 05	R1



NOTES:

COLD (GOLLANI)

HOT (GOLLANI)

EWH WATER HEATER 150 LITERS

WDB BOX

F.H 2" HOSE REEL 3/4

2"w.o WASH OUT VALVE

3/4" A.V WATER AIR VENT

3/4" w.i R.W.T & FH. L.

WATER METER 3/4"

Revisions			
No.	Description	Date	By
1			
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Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

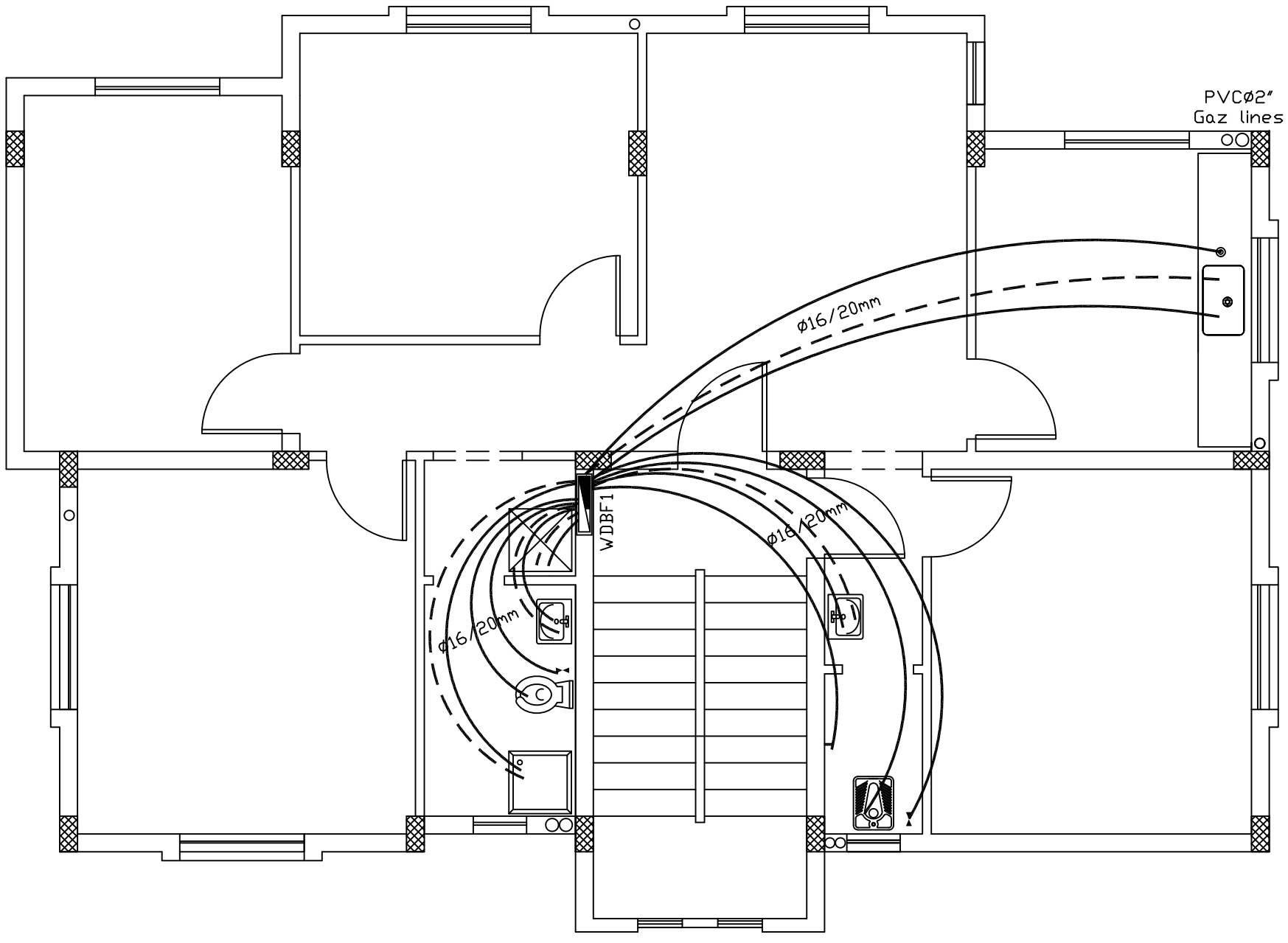
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water System for Ground Floor

Symbol	Drawing No.: T2 - M 06	Rev. No.
RES		R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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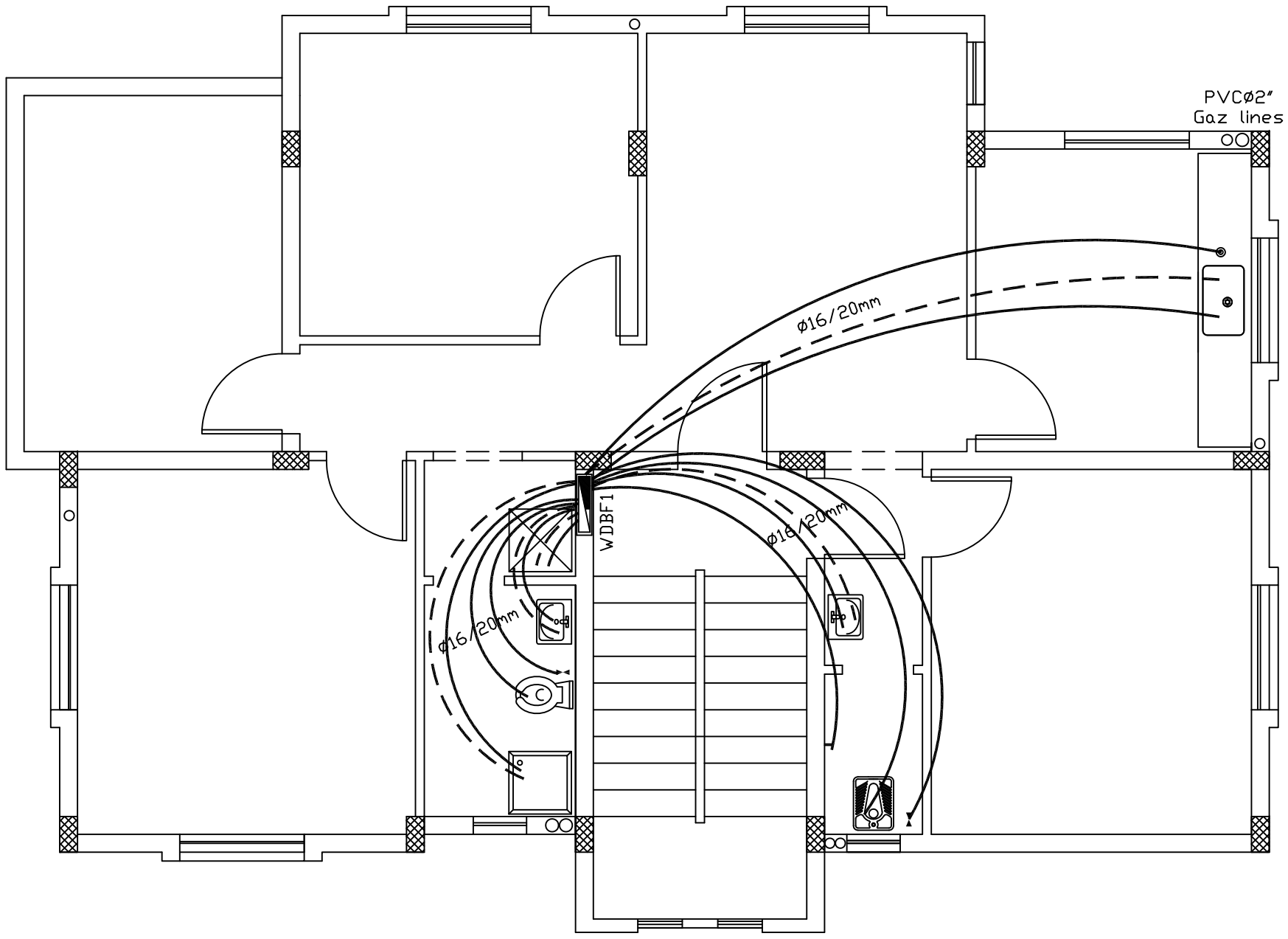
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Water System for First Floor

Symbol	Drawing No.:	Rev. No.
RES	T2 - M 07	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
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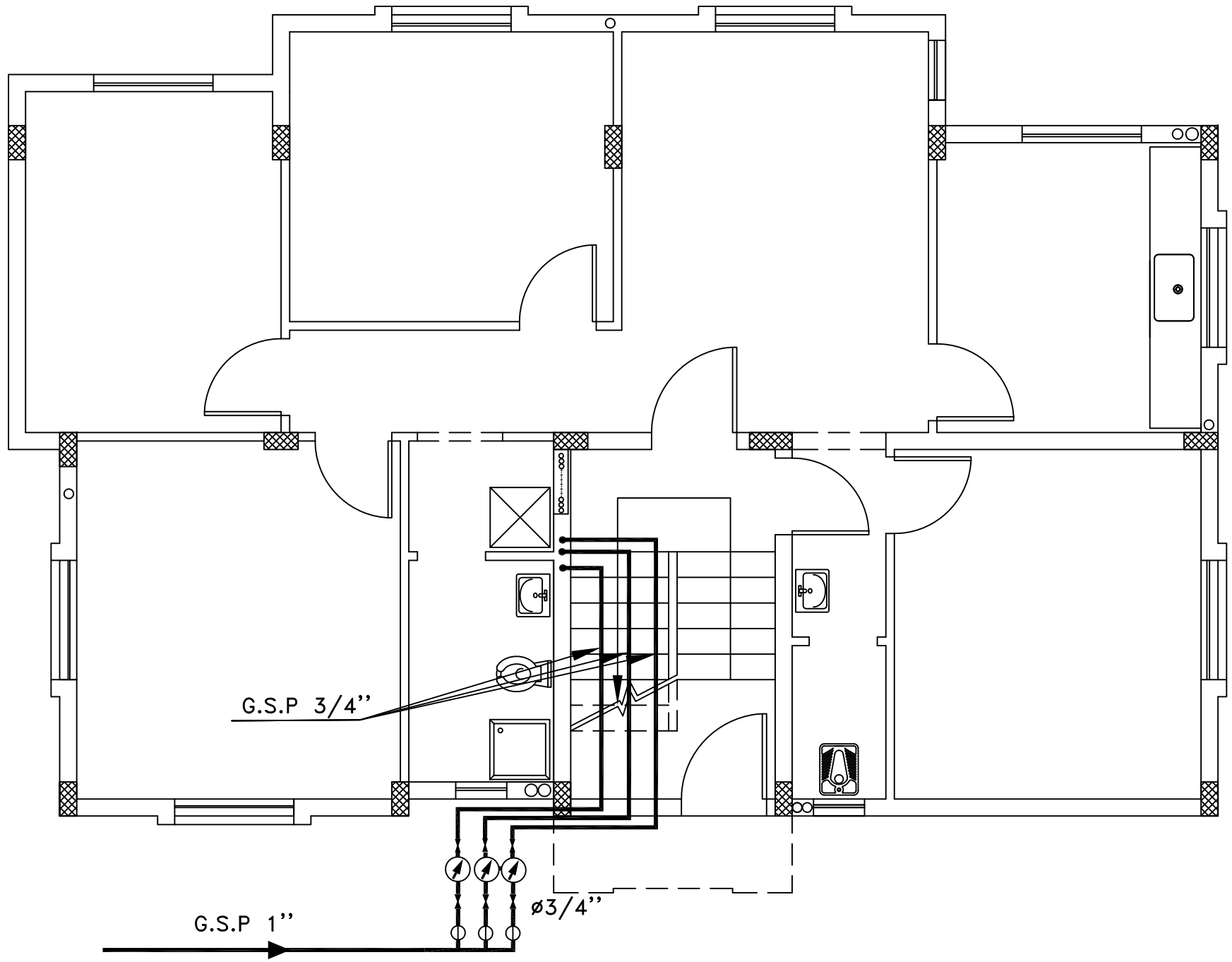
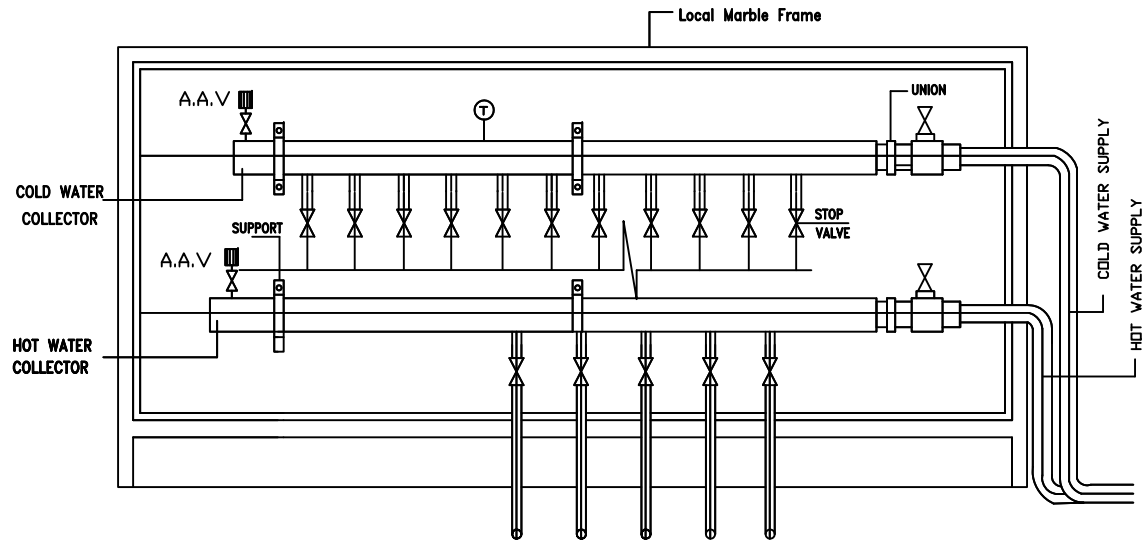
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Water System for Second Floor

Symbol	Drawing No.:	Rev. No.
RES	*T2 - M 08*	R1





DISTRIBUTION BOX

Size of DB according to actual outlets

NOTES:

- COLD (GOLLANI)
- HOT (GOLLANI)
- (EWH) WATER HEATER 150 LITERS
- WDB BOX
- F.H 2''
- HOSE REEL 3/4
- 2''w.o WASH OUT VALVE
- 3/4'' A.V WATER AIR VENT
- 3/4'' w.i
- R.W.T & FH. L.
- WATER METER 3/4"

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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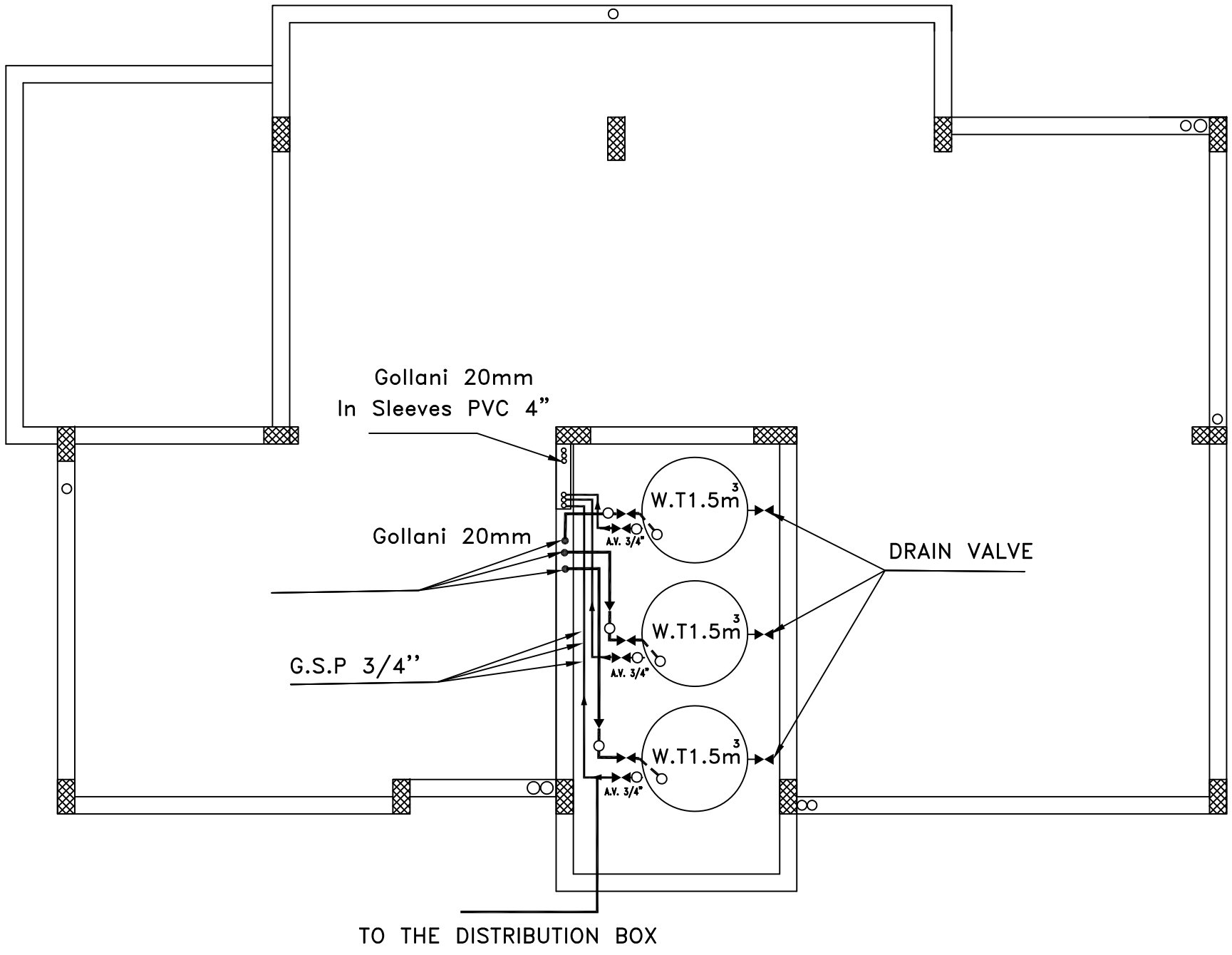
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water Supply And Distribution Box

Symbol	Drawing No.:	Rev. No.
RES	*T2 - M 09*	R1



NOTES:

——— COLD (GOLLANI)

- - - - HOT (GOLLANI)

(EWH) WATER HEATER 150 LITERS

WDB BOX

F.H 2”

HOSE REEL 3/4

2”w.o WASH OUT VALVE

3/4” A.V WATER AIR VENT

3/4” w.i

R.W.T & FH. L.

WATER METER 3/4”

No.	Description	Date	By
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PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

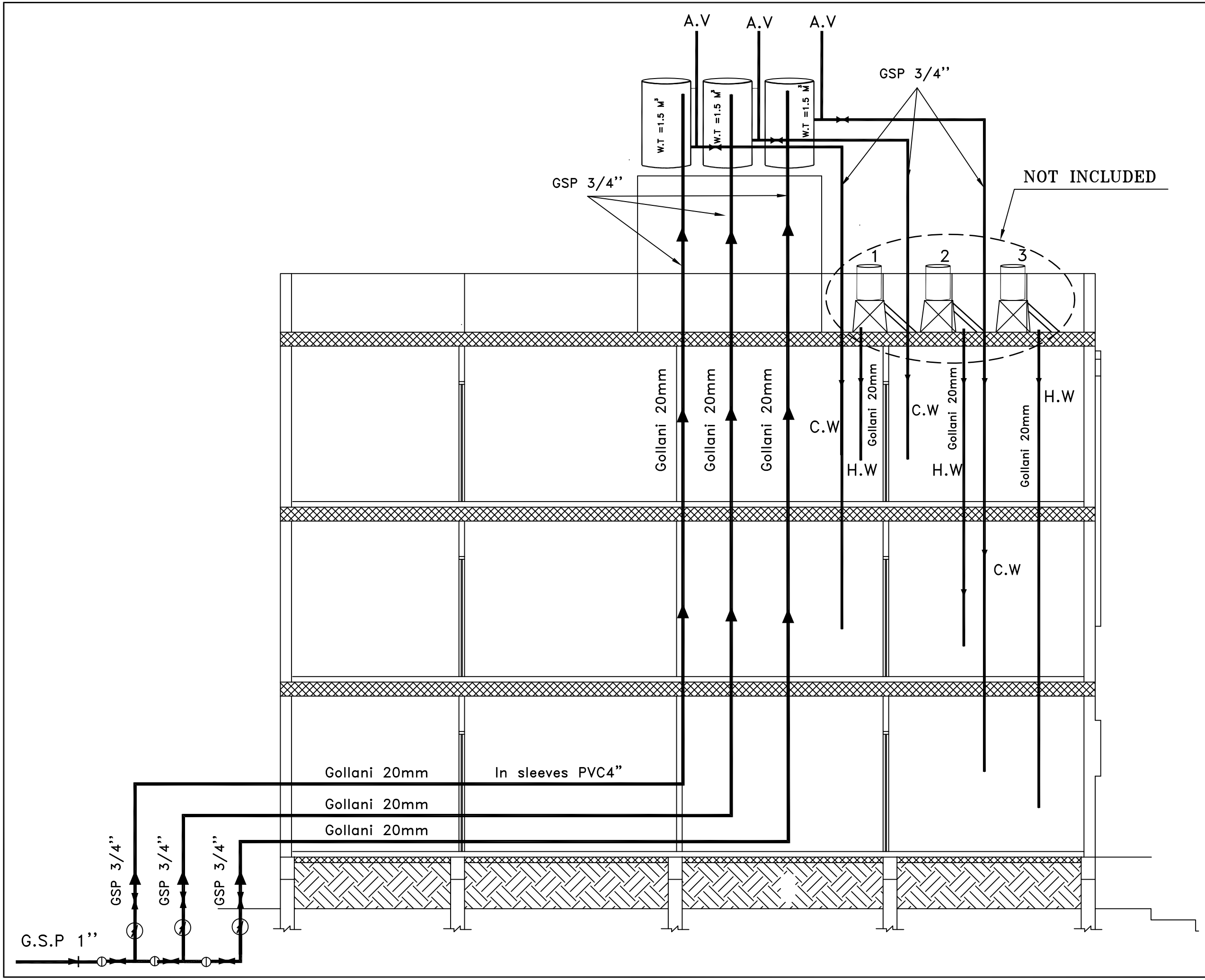
UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water Tanks on Stair

Symbol	Drawing No.:	Rev. No.
RES	*T2 - M 10*	R1



NOTES:

——— COLD (GOLLANI)

- - - - HOT (GOLLANI)

EWH WATER HEATER 150 LITERS

WDB BOX

F.H 2'' HOSE REEL 3/4

2''w.o WASH OUT VALVE

3/4'' A.V WATER AIR VENT

3/4'' w.i R.W.T & FH. L.

WATER METER 3/4"

No.	Description	Date	By
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PALESTINIAN NATIONAL AUTHORITY

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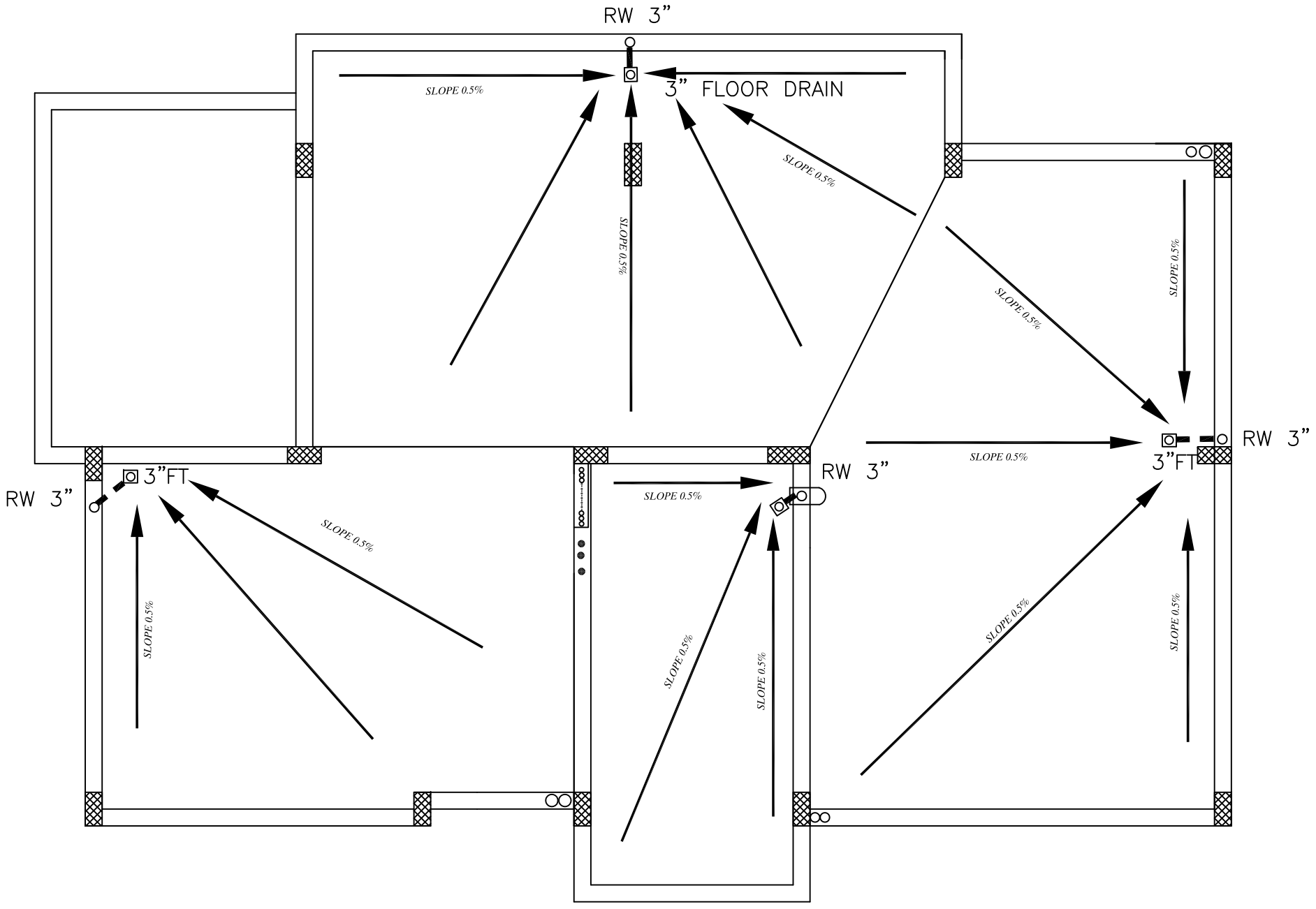
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water System For Typical Floor

Symbol	Drawing No.:	Rev. No.
RES	T2 - M 11	R1



NOTES:

- COLD (GOLLANI)
- HOT (GOLLANI)
- EWH — WATER HEATER 150 LITERS
- WDB — BOX
- F.H 2" — HOSE REEL 3/4
- 2"w.o — WASH OUT VALVE
- 3/4" A.V — WATER AIR VENT
- 3/4" w.i
- R.W.T & FH. L.
- WATER METER 3/4"

No.	Description	Date	By
4			
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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IMPLEMENTED BY:

PROJECT:-

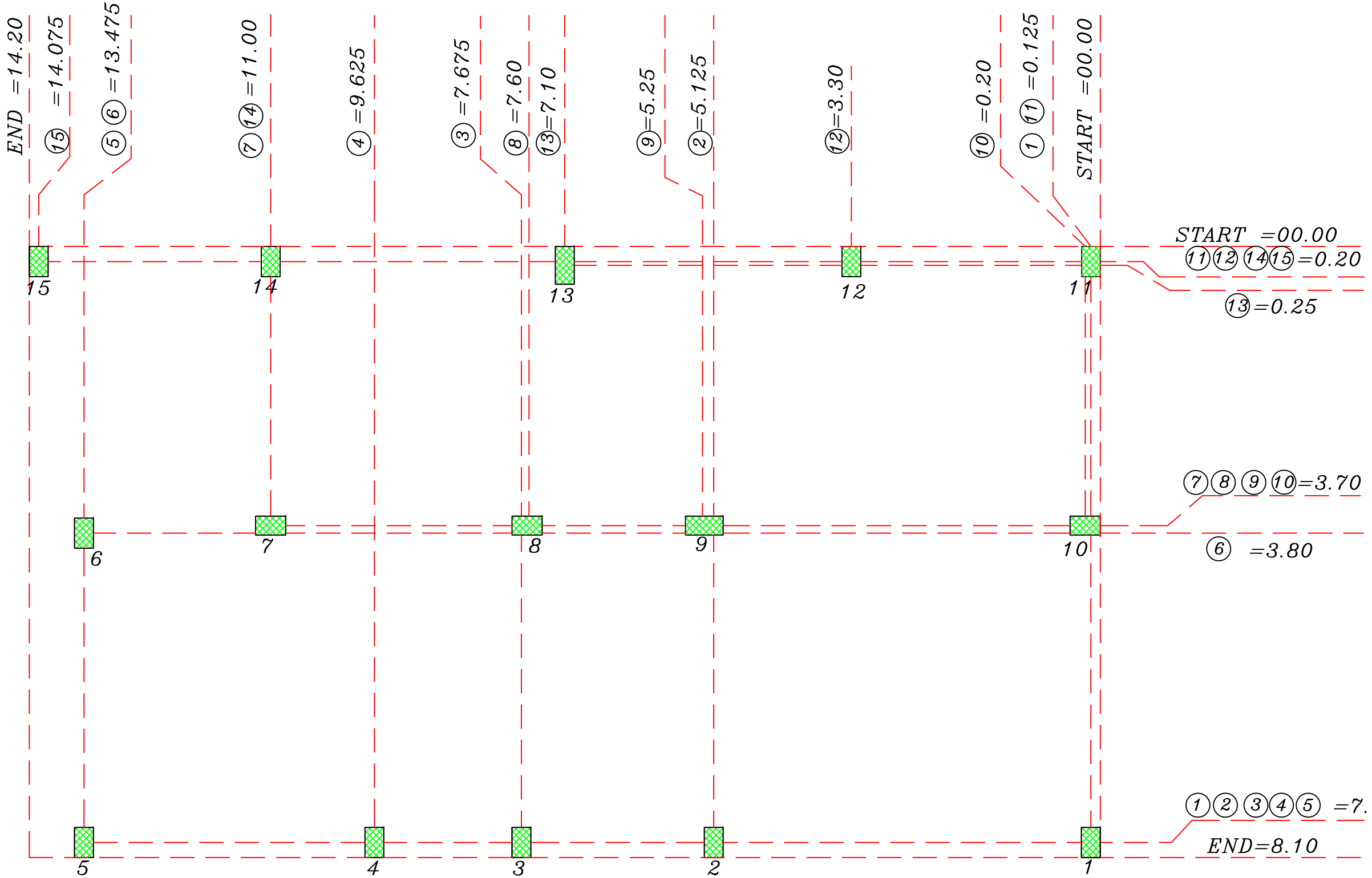
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Roof Floor Drainage System

Symbol	Drawing No.:	Rev. No.
RES	T2 - M 12	R1

CIVIL DRAWINGS

LLS (Type2)



Axies Of Column Necks

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm²)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

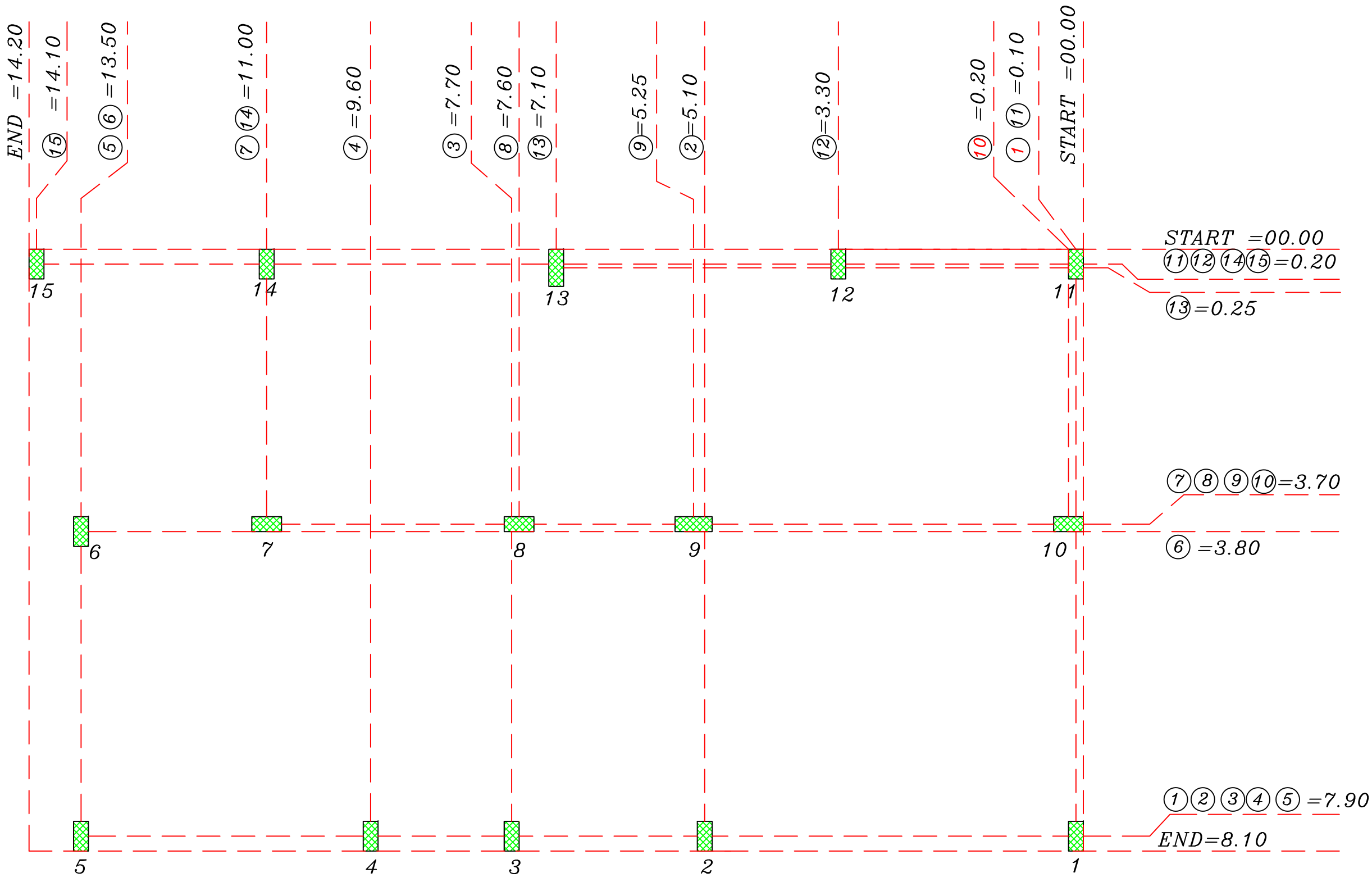
IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Axies Of Column Necks

Symbol	Drawing No.	Rev. No.
RES	T2-C 01	R1



Axies Of Columns

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm²)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

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PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

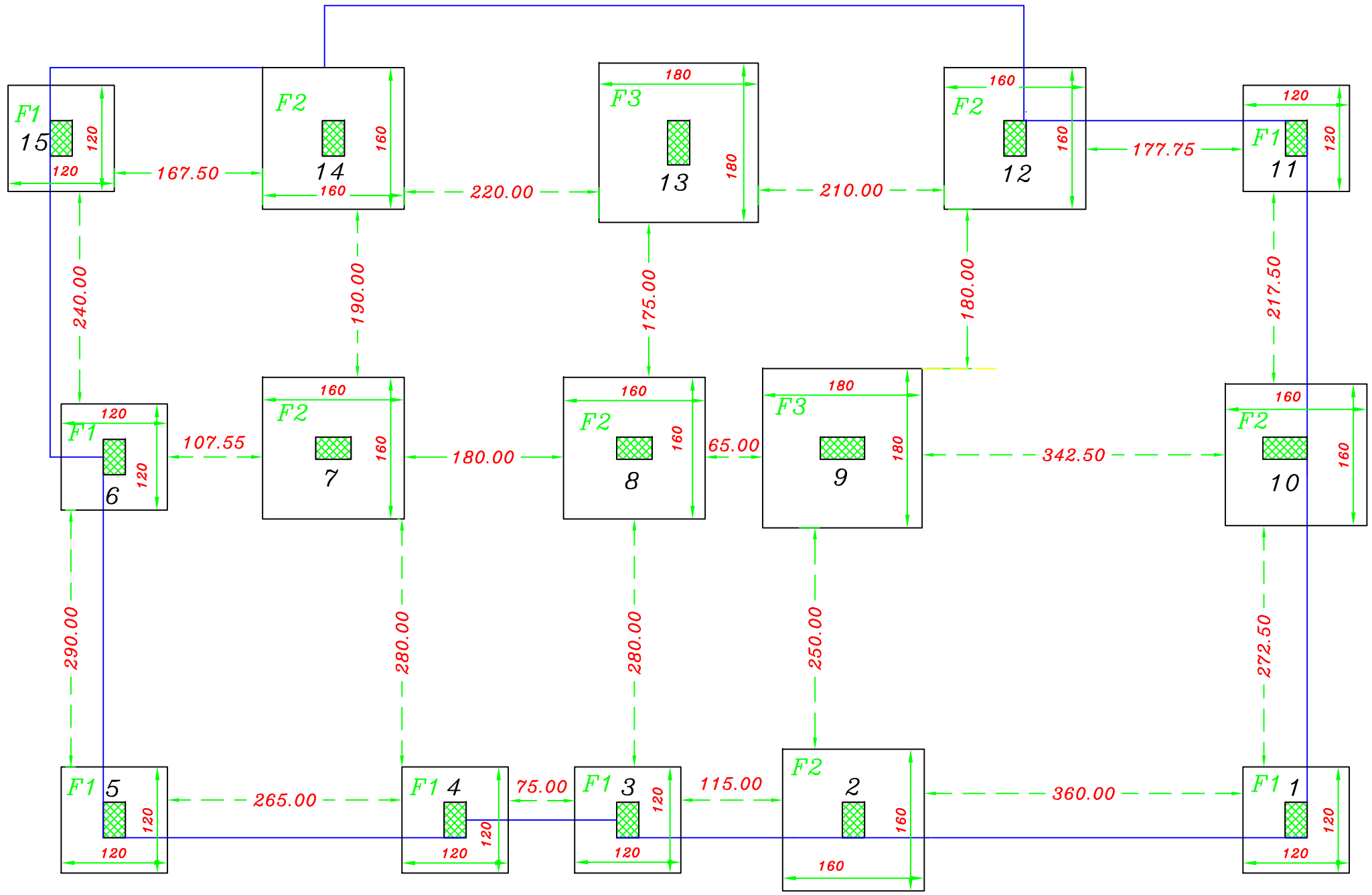
IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Axies Of Columns

Symbol	Drawing No.	Rev. No.
RES	T2- C 02	R1



Footings Plan

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
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  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
- All Dimensions in cm

No.	Description	Date	By
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PALESTINIAN NATIONAL AUTHORITY

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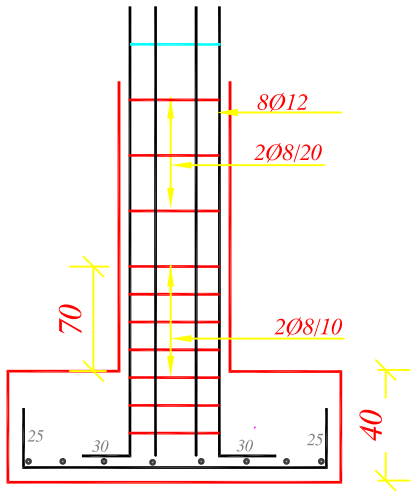
IMPLEMENTED BY:

UNDP

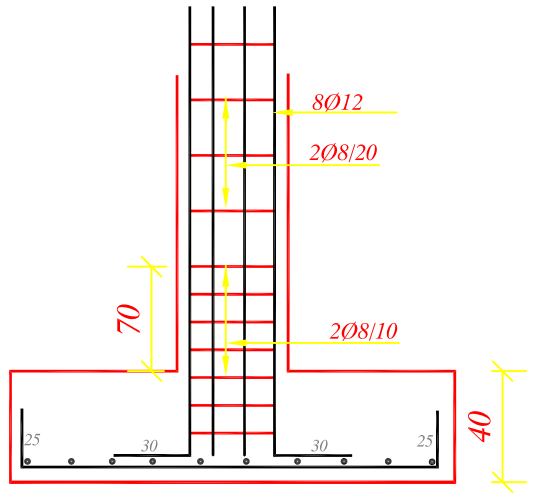
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Footings Plan

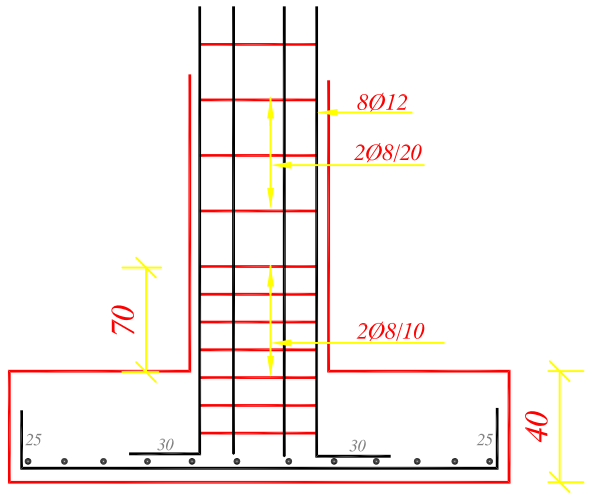
Symbol	Drawing No.	Rev. No.
RES	T2- C 03	R1



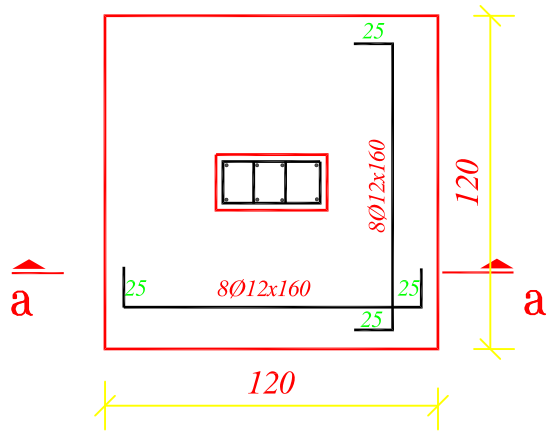
SECTION (a-a)



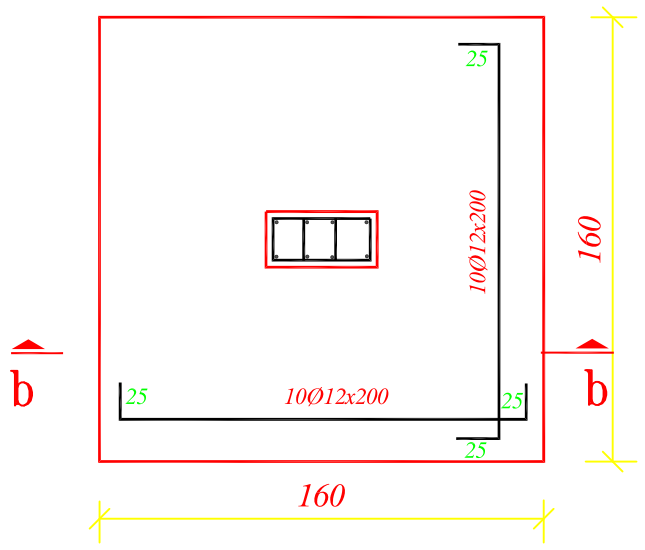
SECTION (b - b)



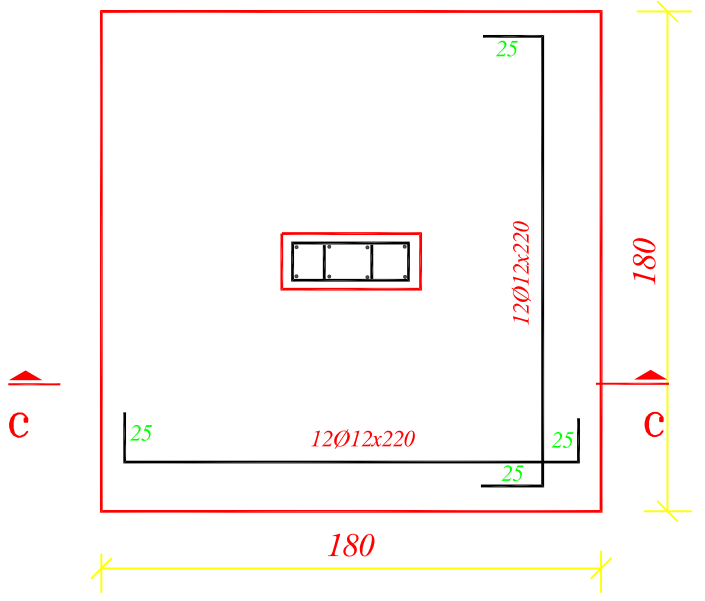
SECTION (c - c)



TYPICAL DETAIL IN F1



TYPICAL DETAIL IN F2



TYPICAL DETAIL IN F3

Footings Details

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Footings Details

Symbol	Drawing No.	Rev. No.
RES	T2- C 04	R1

Type	Column NO.	Number	Size	Reinforcement	Bar Shape & Length
F1	1-3-4-5-6-11-15	7	120 x 120 x 40	8Ø12x 160cm (Long. & Trav.)	25 — 110 — 25
F2	2-7-8-10-12-14	6	160 x 160 x 40	10Ø12x200 (Long. & Trav.)	25 — 150 — 25
F3	9-13	2	180 x 180 x 40	12Ø12x220 (Long. & Trav.)	25 — 170 — 25
F4	Foundation Under Secondary Ground Beam	4	60 x 60 x 30	5Ø12x80 (Long. & Trav.)	15 — 50 — 15

Footings Table

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
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  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

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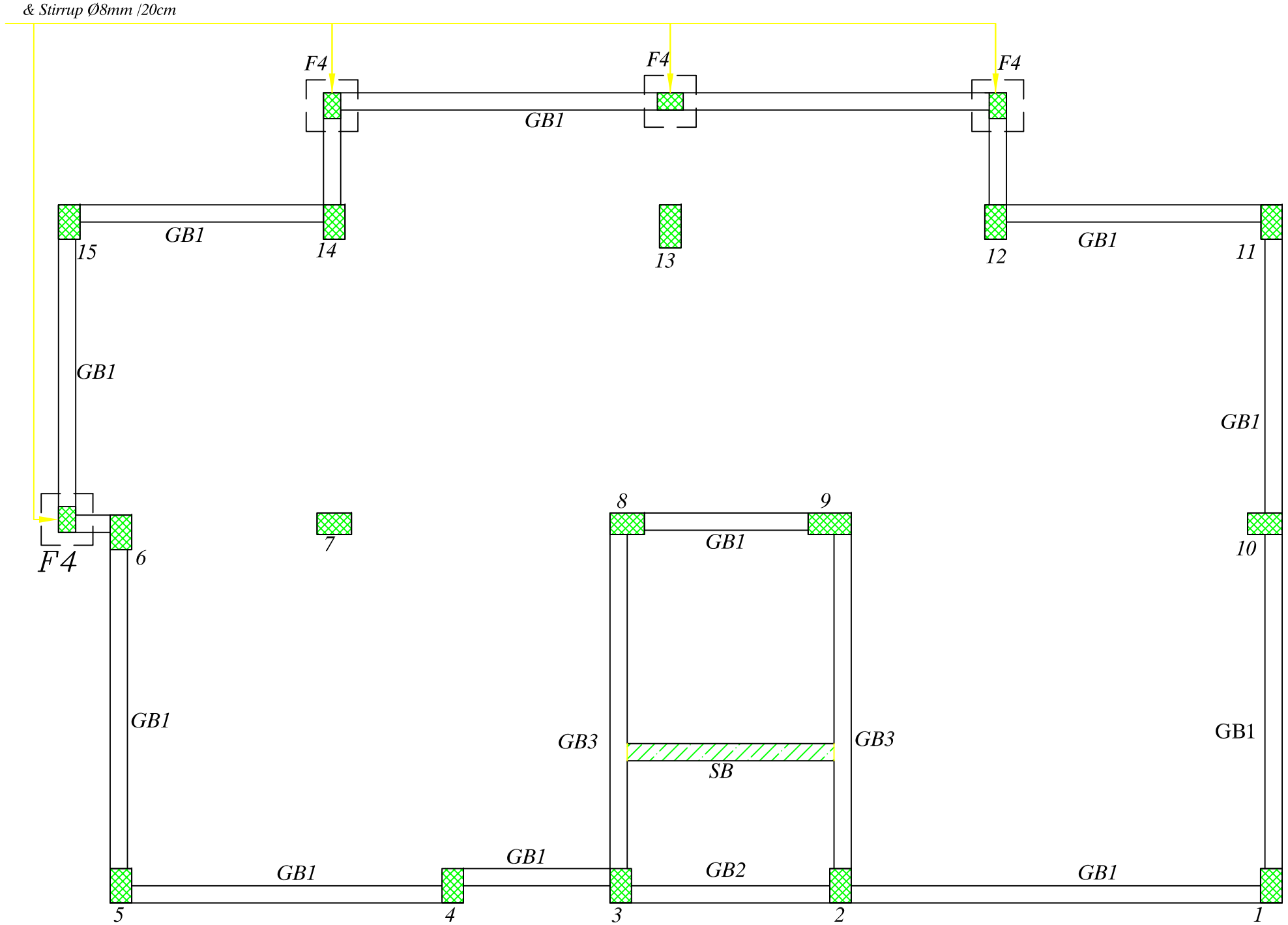
UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

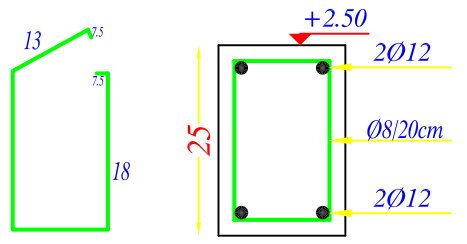
Footings Table

Symbol	Drawing No.	Rev. No.
RES	T2- C 05	R1

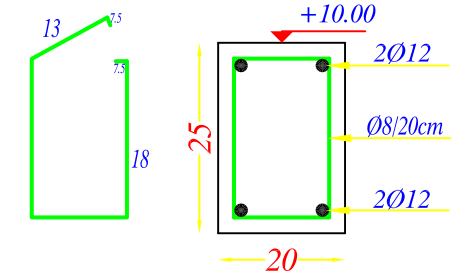
Columns Necks 20X30cm
Longitudinal Steel 6 Ø12
& Stirrup Ø8mm /20cm



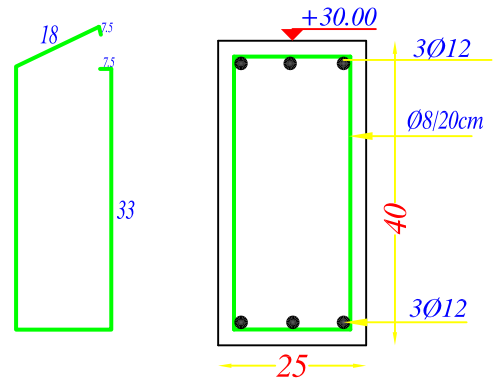
Secondary Beams Plan and Details



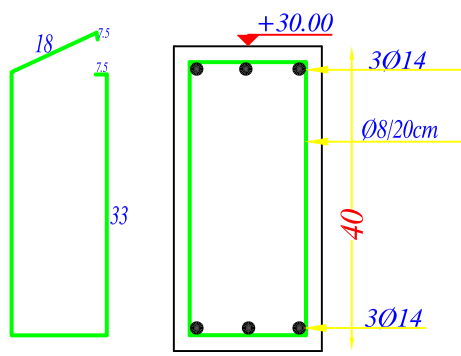
SECTION IN GB1



SECTION IN GB2



SECTION IN GB3



SECTION IN SB

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
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  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

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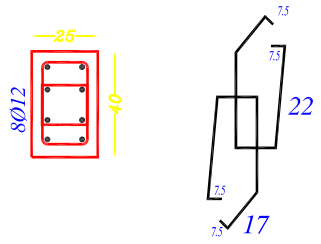
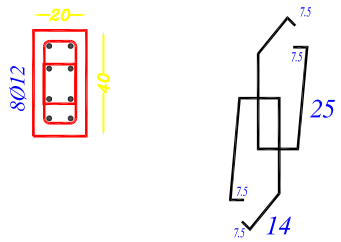
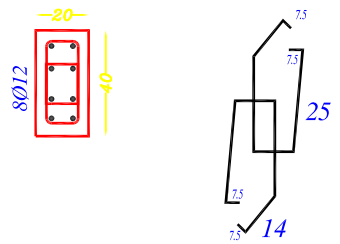
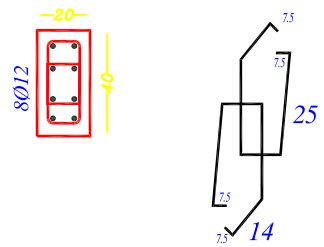
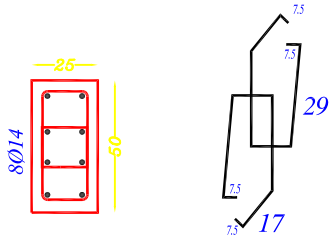
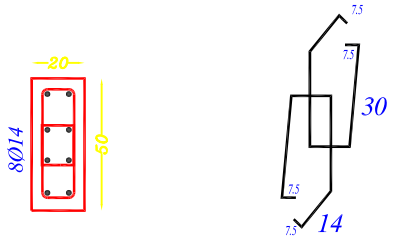
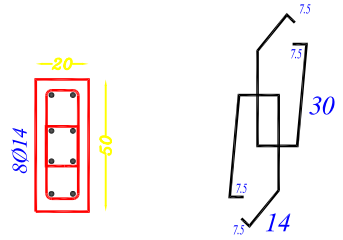
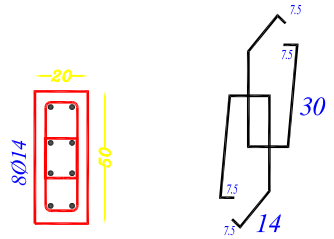
IMPLEMENTED BY:
UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Secondary Beams Plan & Details

Symbol	Drawing No.	Rev. No.
RES	T2- C 06	R1

Column NO.	Columns Neck	Ground Floor	First Floor	Second Floor
1-2-3-4-5-6-7-8-10-11-12-14-15	 St. 2Ø8/20 Number =13	 St. 2Ø8/20 Number =13	 St. 2Ø8/20 Number =13	 St. 2Ø8/20 Number =12
9-13	 St. 2Ø8/20 Number =2	 St. 2Ø8/20 Number =2	 St. 2Ø8/20 Number =2	 St. 2Ø8/20 Number =2

Columns Table & Details

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

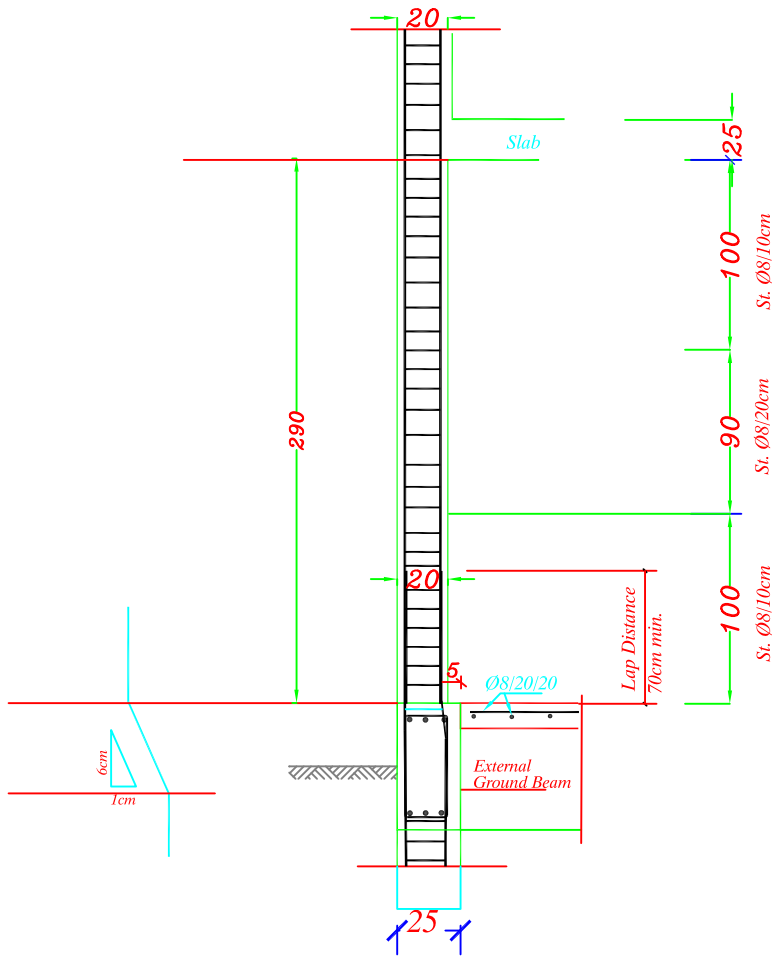
IMPLEMENTED BY:

UNDP

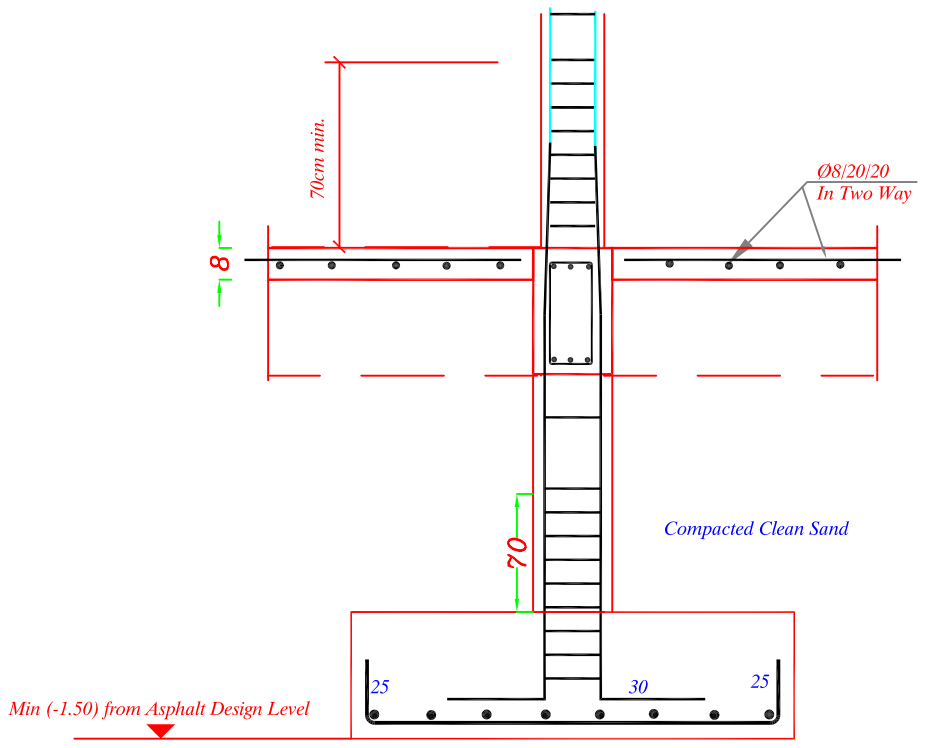
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Columns Table & Details

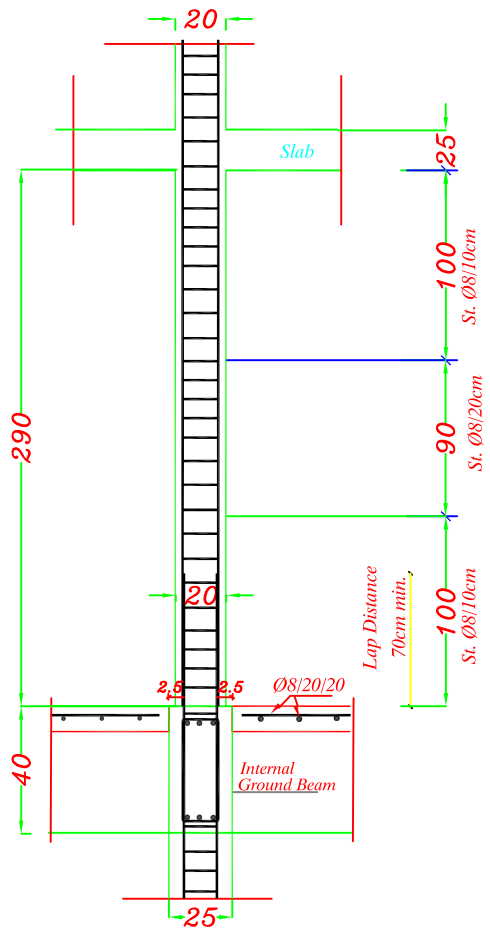
Symbol	Drawing No.	Rev. No.
RES	T2- C 07	R1



External Column Detail.



CONNECTION DETAIL BETWEEN COLUMN
& FOOT & GROUND BEAM



Internal Column Detail

Columns & Ground Slab Details

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
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  B250 for other members
- The used reinforcement steel is according to to the following notation :
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  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

All Dimensions in cm

No.	Description	Date By
4		
3		
2		
1		

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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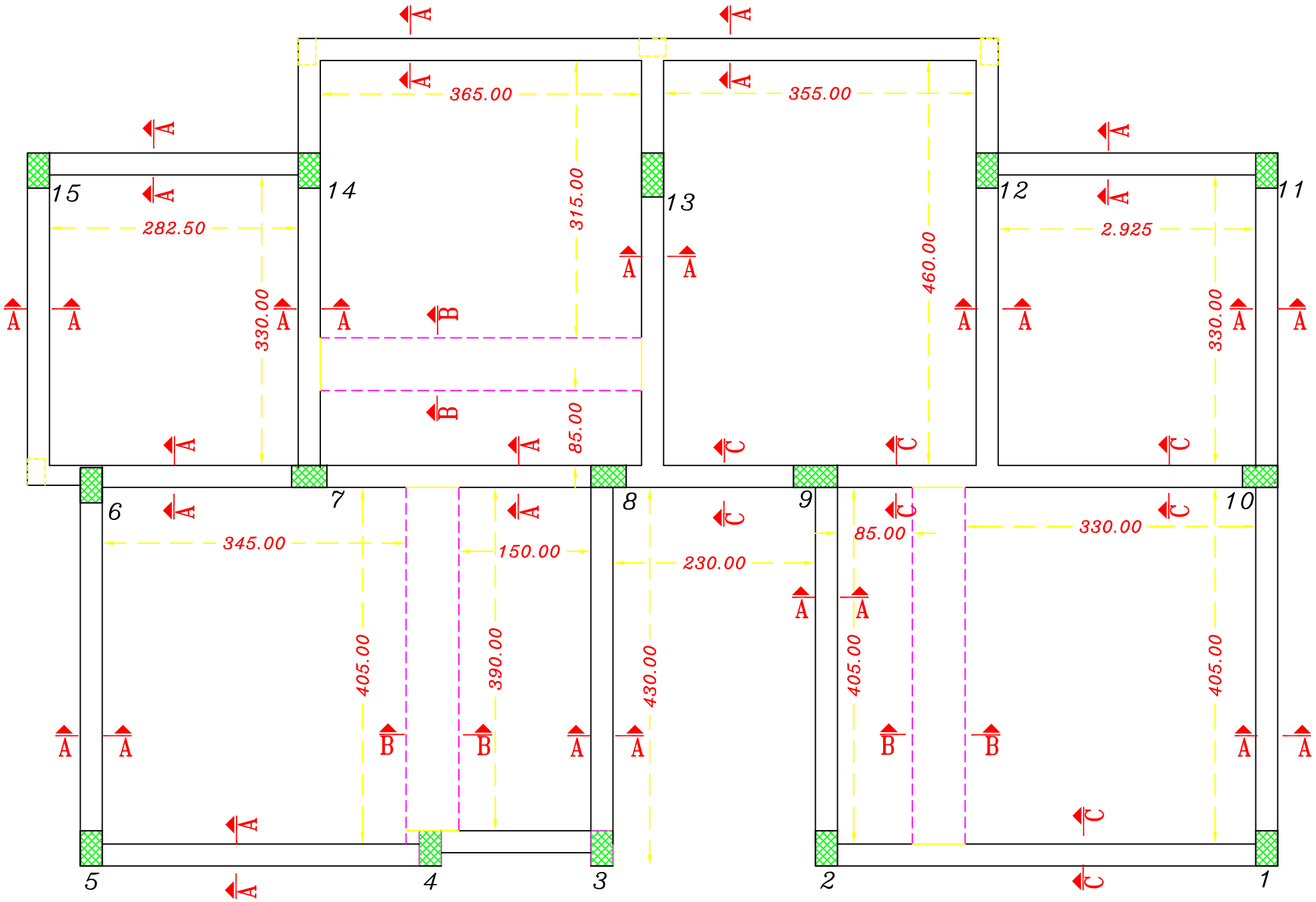
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Columns & Ground Slab Details

Symbol	Drawing No.	Rev. No.
RES	T2- C 08	R1



Main Ground Beams Plan

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
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  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

All Dimensions in cm

No.	Description	Date By
4		
3		
2		
1		

Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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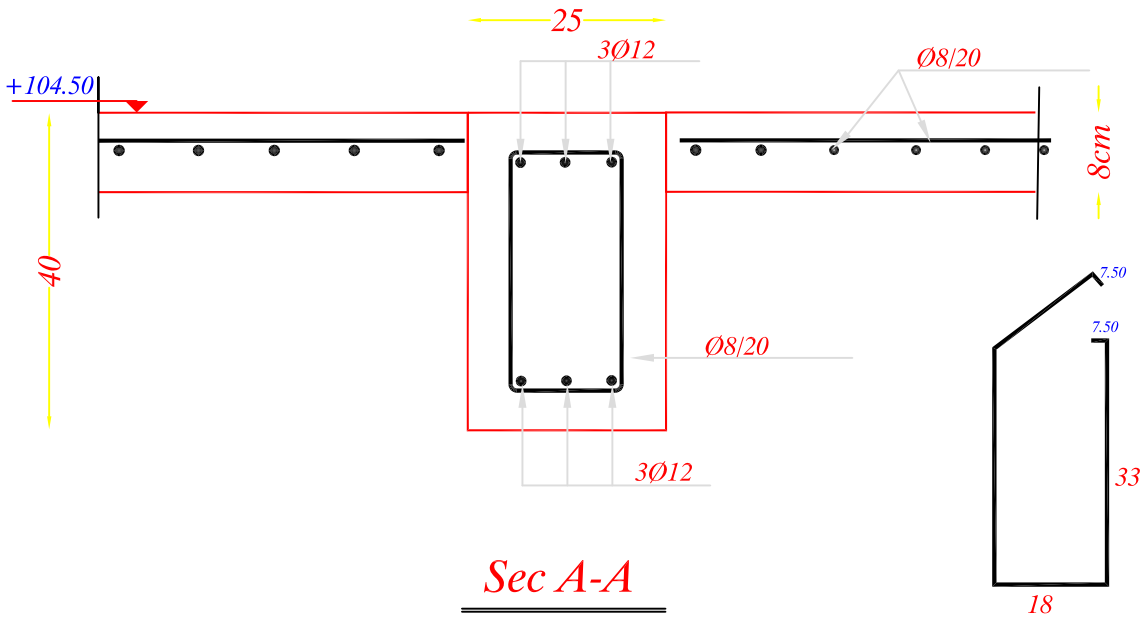
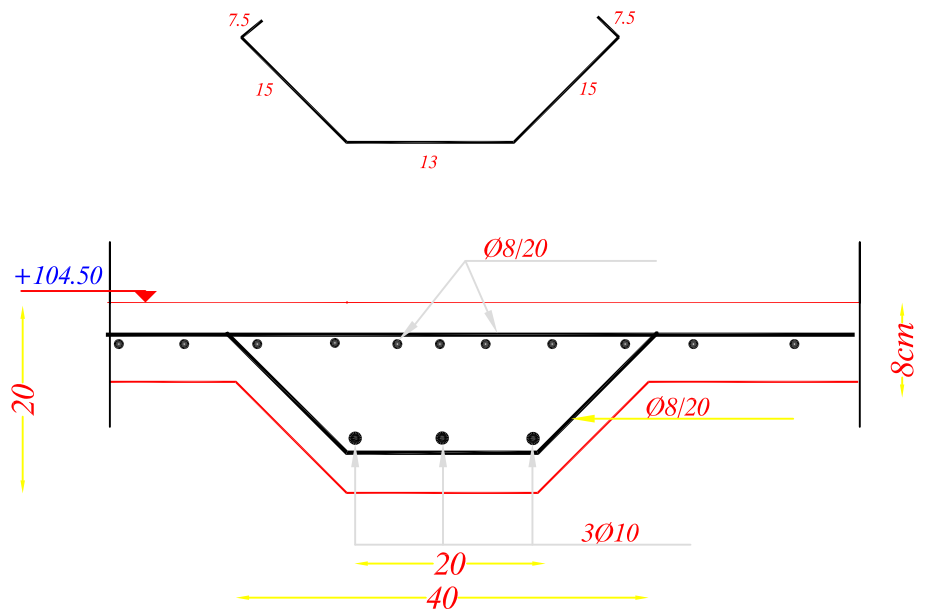
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Ground Beams Plan

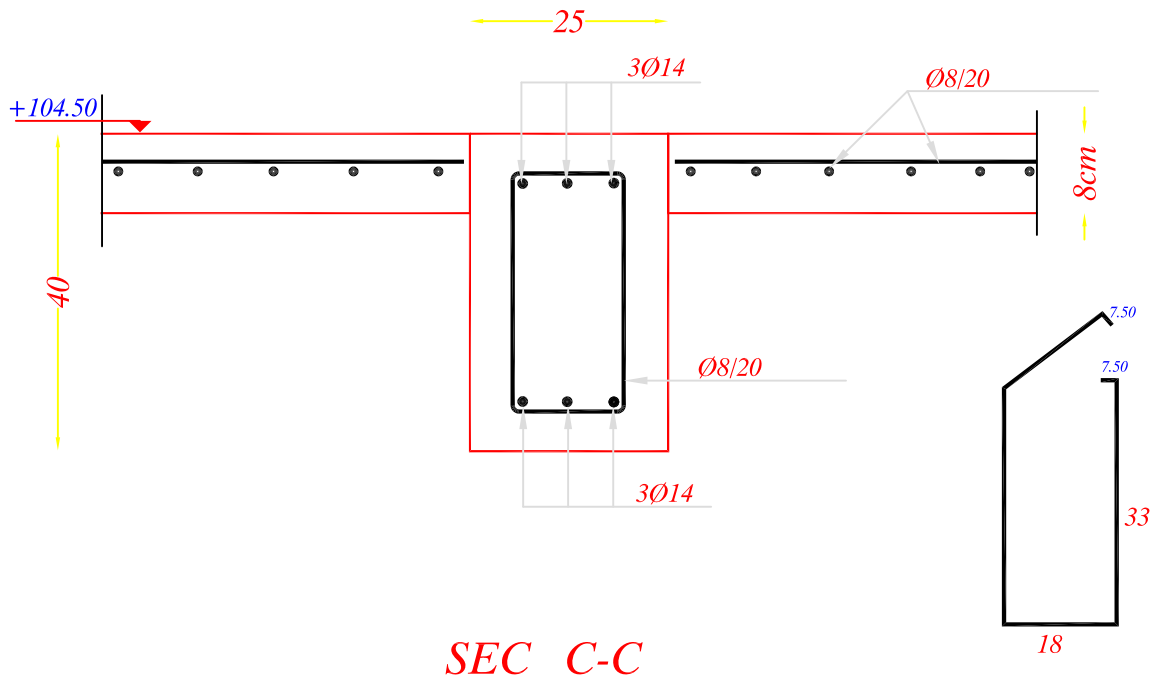
Symbol	Drawing No.	Rev. No.
RES	T2- C 09	R1



Sec A-A



Sec B-B



SEC C-C

Main Ground Beams Details

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
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  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

All Dimensions in cm

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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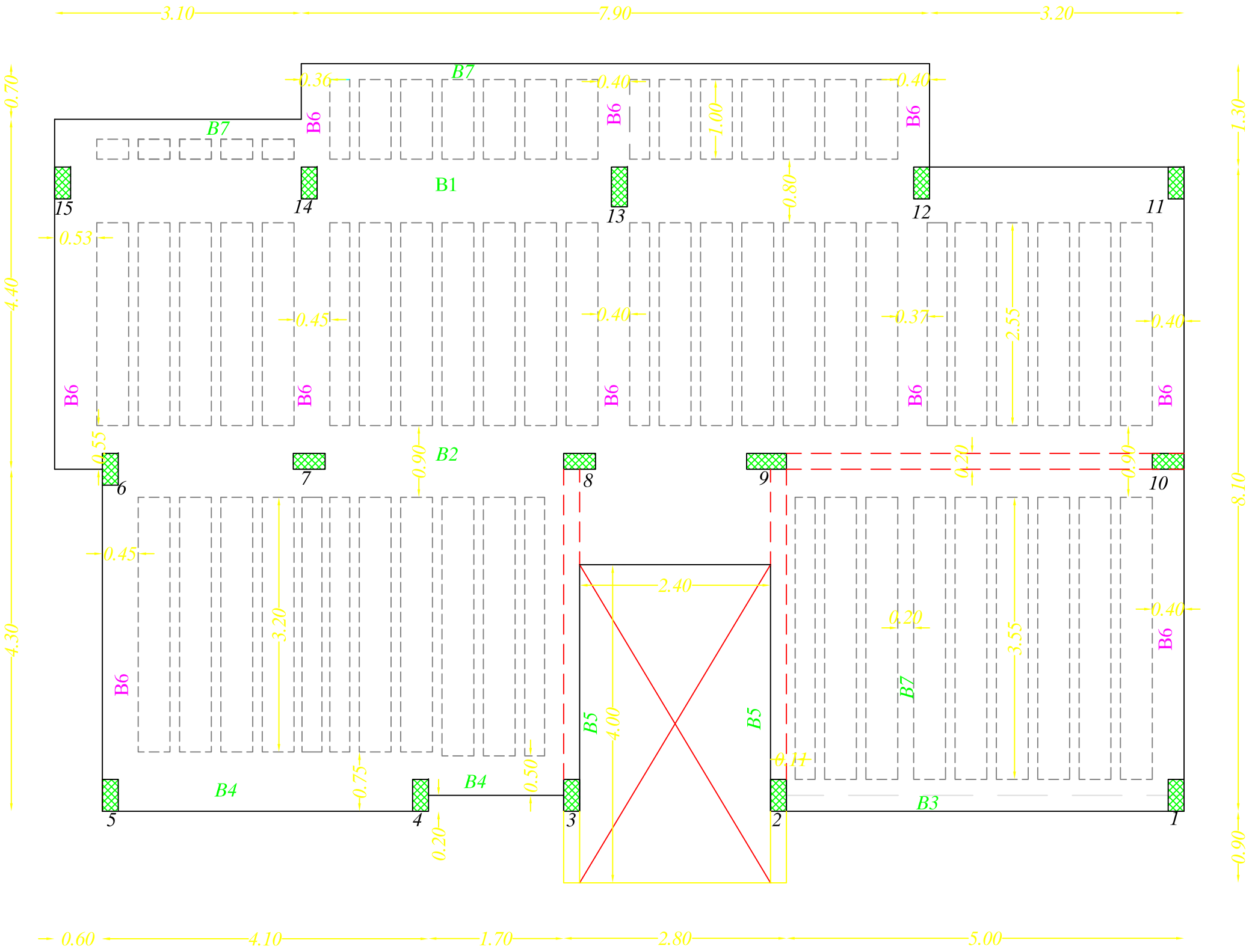
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Ground Beams Details

Symbol	Drawing No.	Rev. No.
RES	T2- C 10	R1



Beam Details & Reinforcement

For Ground and First Floor-1

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date By
4		
3		
2		
1		

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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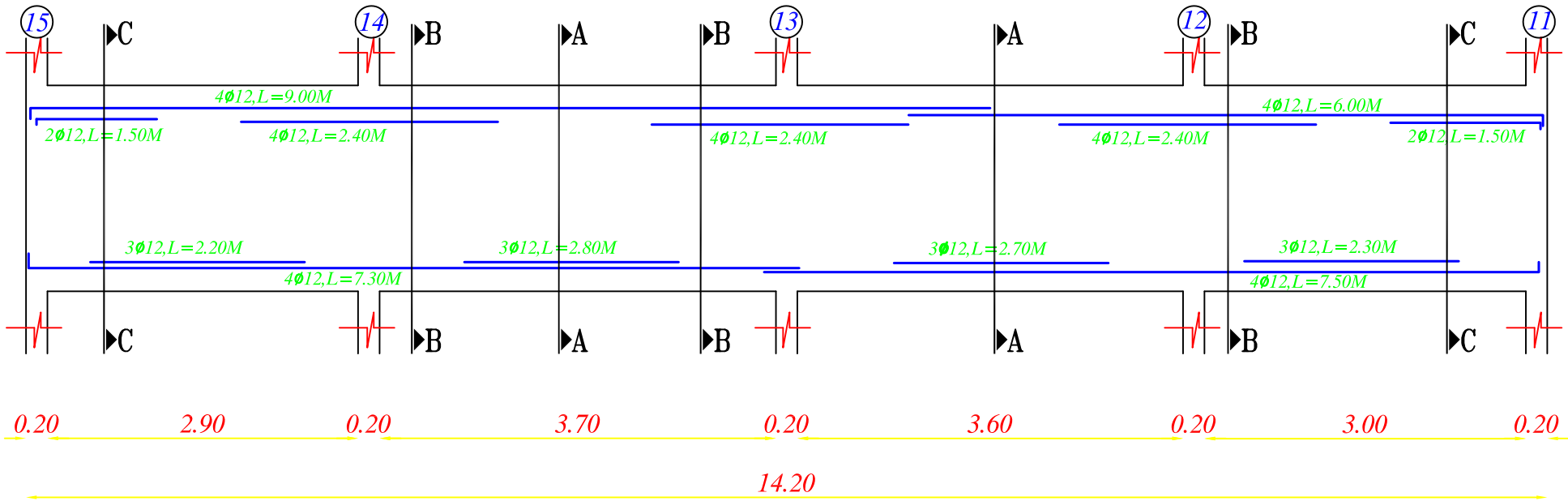
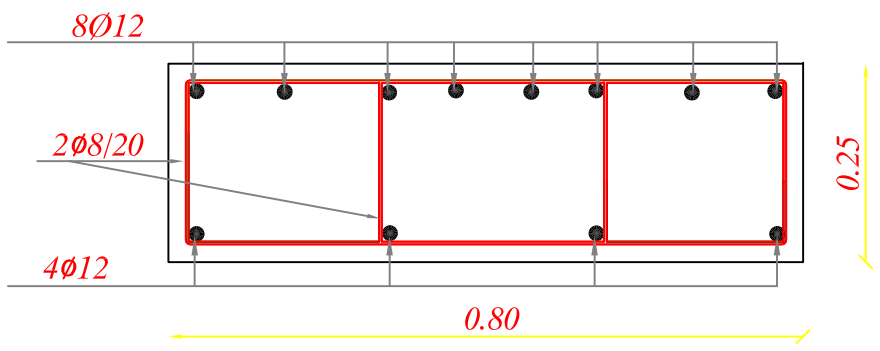
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Ground and First Floor-1

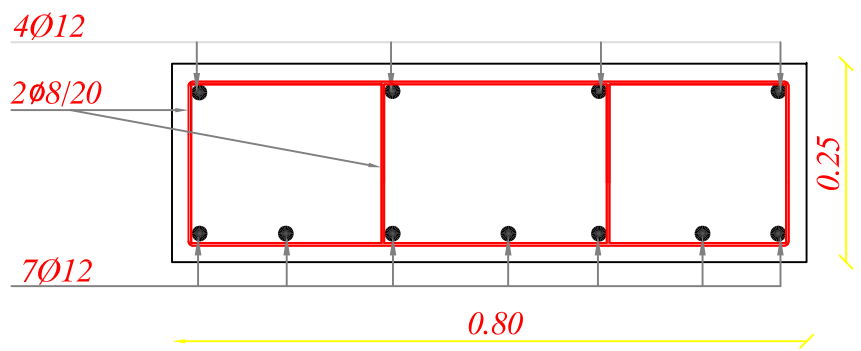
Symbol	Drawing No.	Rev. No.
RES	T2- C 11	R1

B1=25X80cm

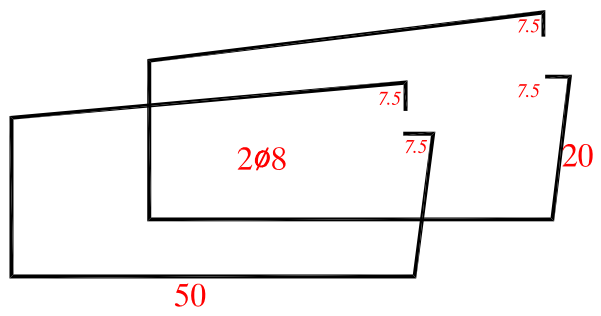


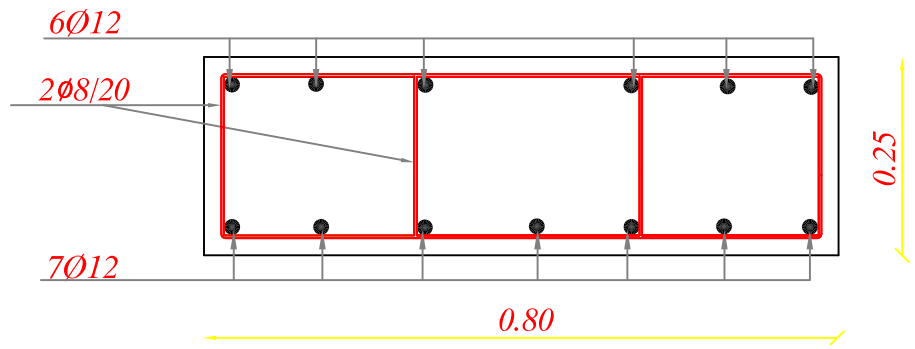


SECTION B-B



SECTION A-A





SECTION C-C

Beam Details & Reinforcement For Ground and First Floor-2

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

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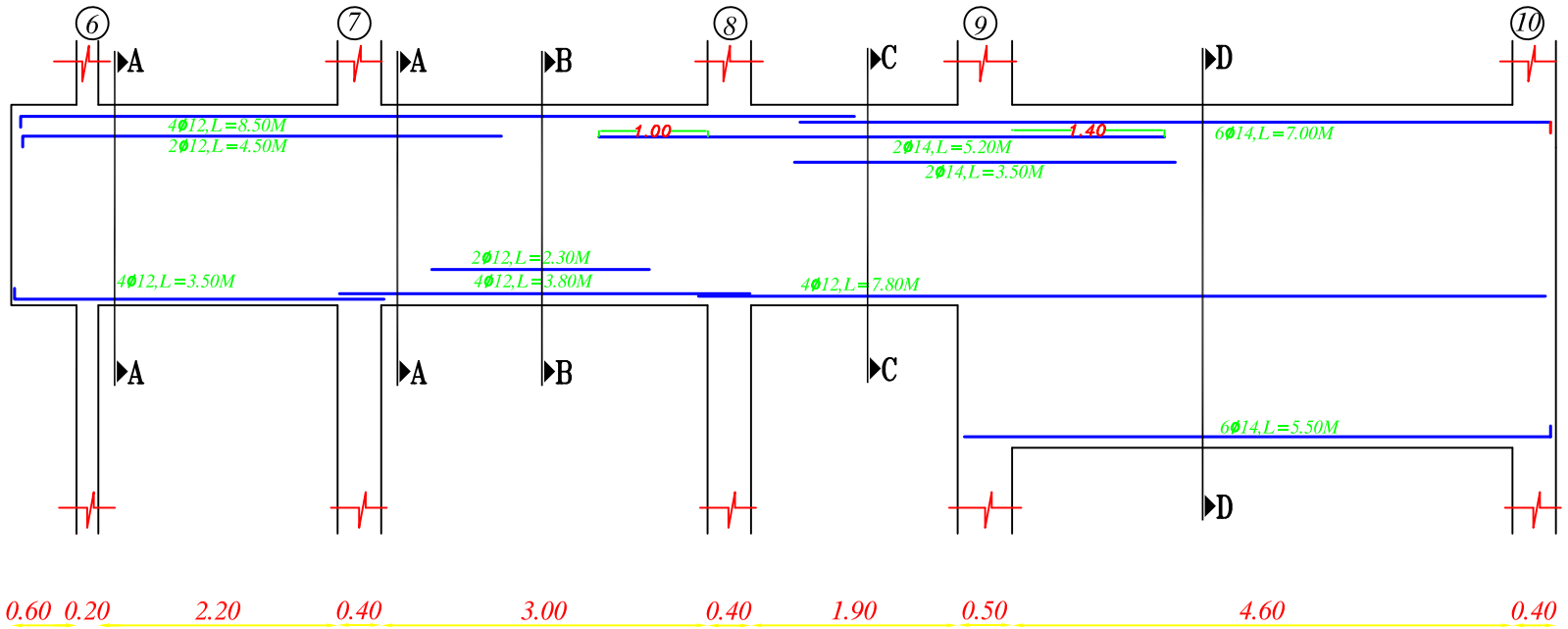
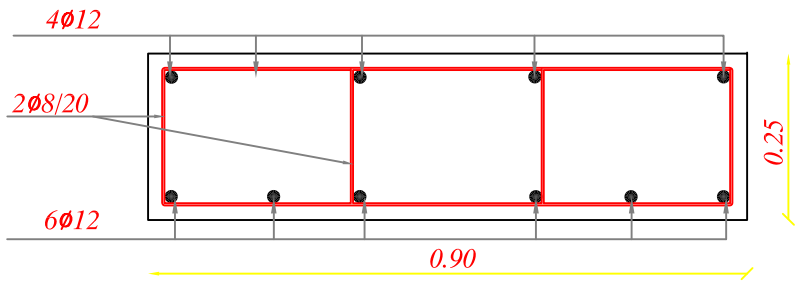
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Ground and First Floo-2

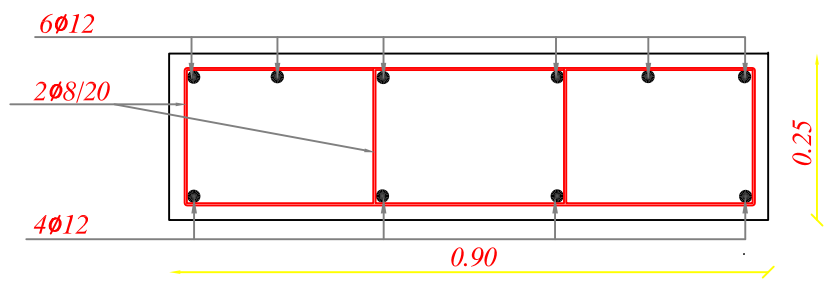
Symbol	Drawing No.	Rev. No.
RES	T2- C 12	R1

B2=25X90CM

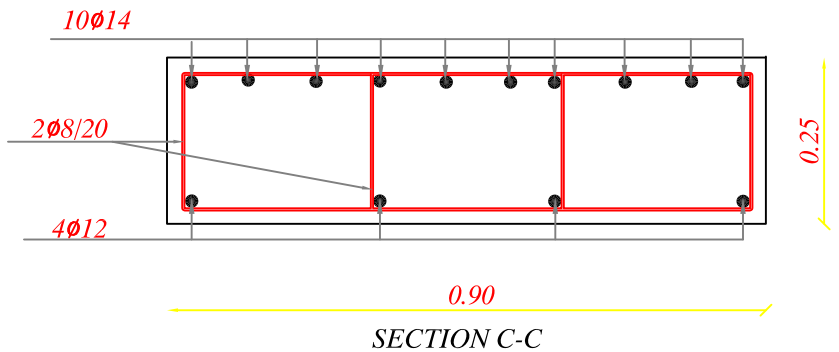




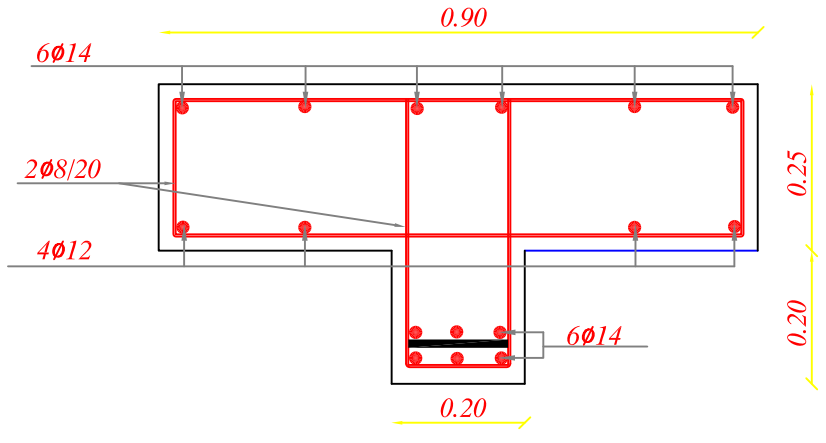
SECTION B-B



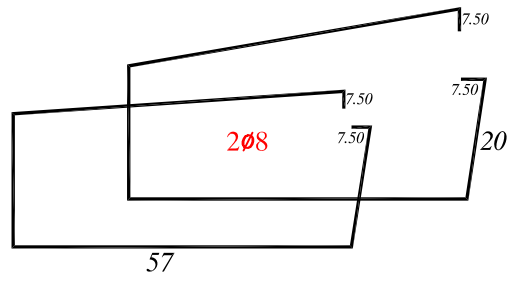
SECTION A-A

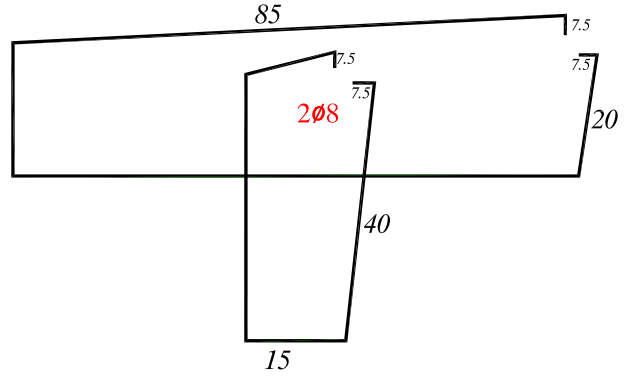


SECTION C-C



SECTION D-D





Beam Details & Reinforcement For Ground and First Floor-3

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel (fy=4200kg/cm^2)
  (R) mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

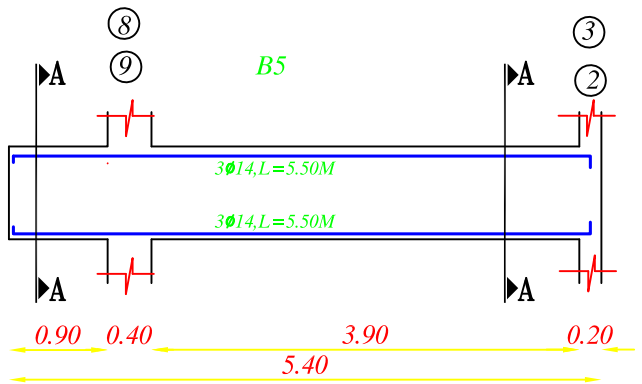
IMPLEMENTED BY:

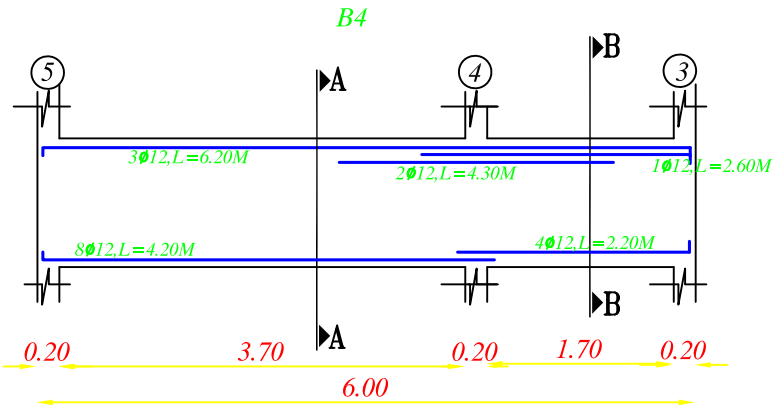
UNDP

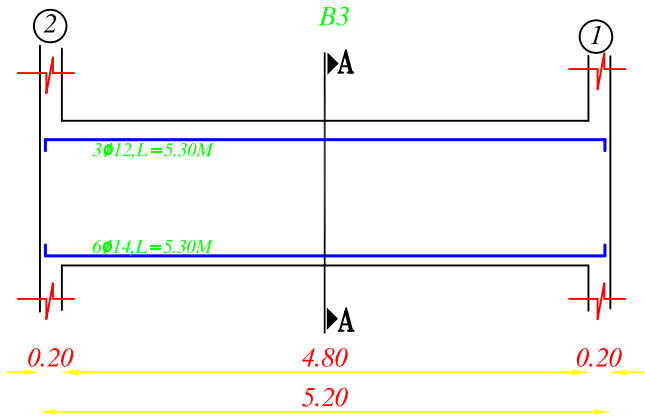
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

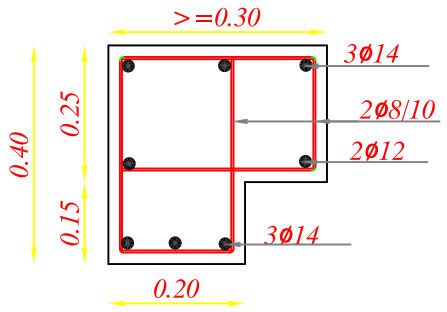
Beam Details & Reinforcement For Ground and First Floor-3

Symbol	Drawing No.	Rev. No.
RES	T2-C 13	R1

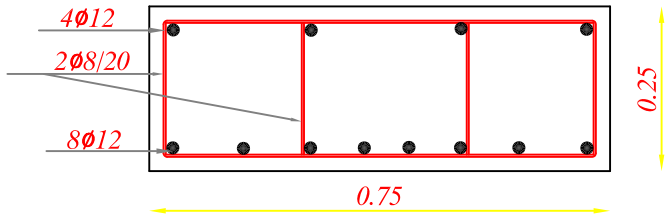




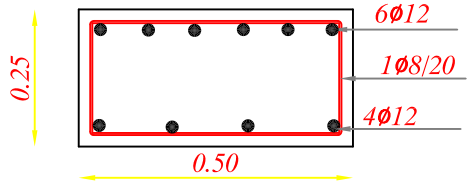




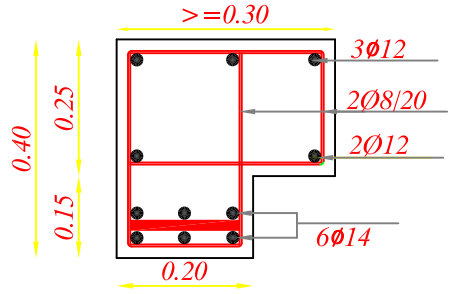
SECTION A-A



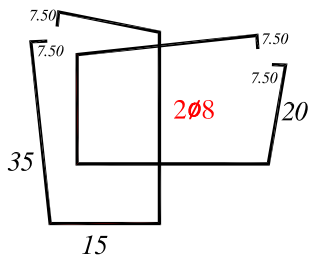
SECTION A-A

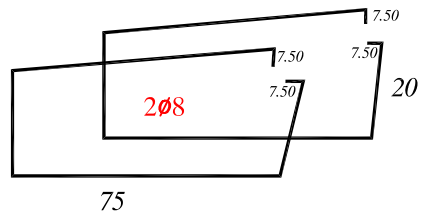


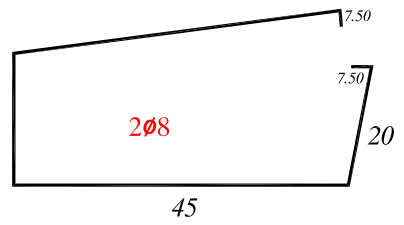
SECTION B-B

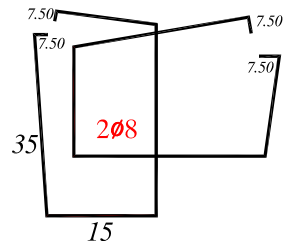


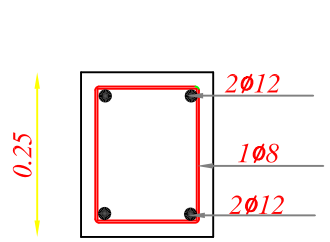
SECTION A-A



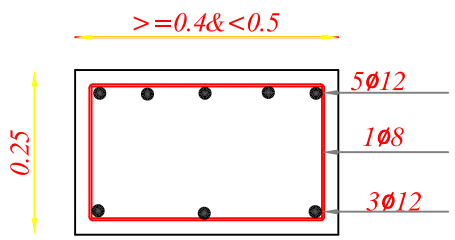




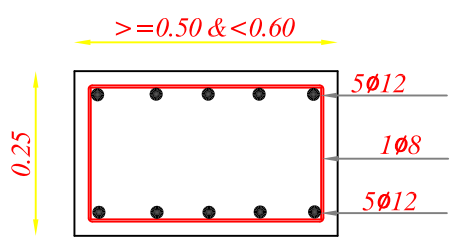




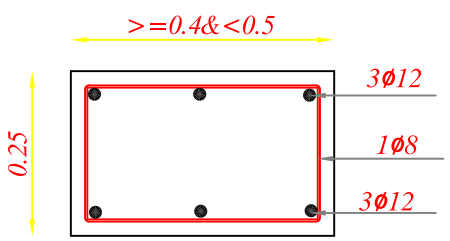
SECTION IN B7



SECTION IN B6 FOR CANTILIVER



SECTION IN B6



SECTION IN B6

Beam Details & Reinforcement
For Ground and First Floor -4

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel (fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm²)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved
Date			

File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

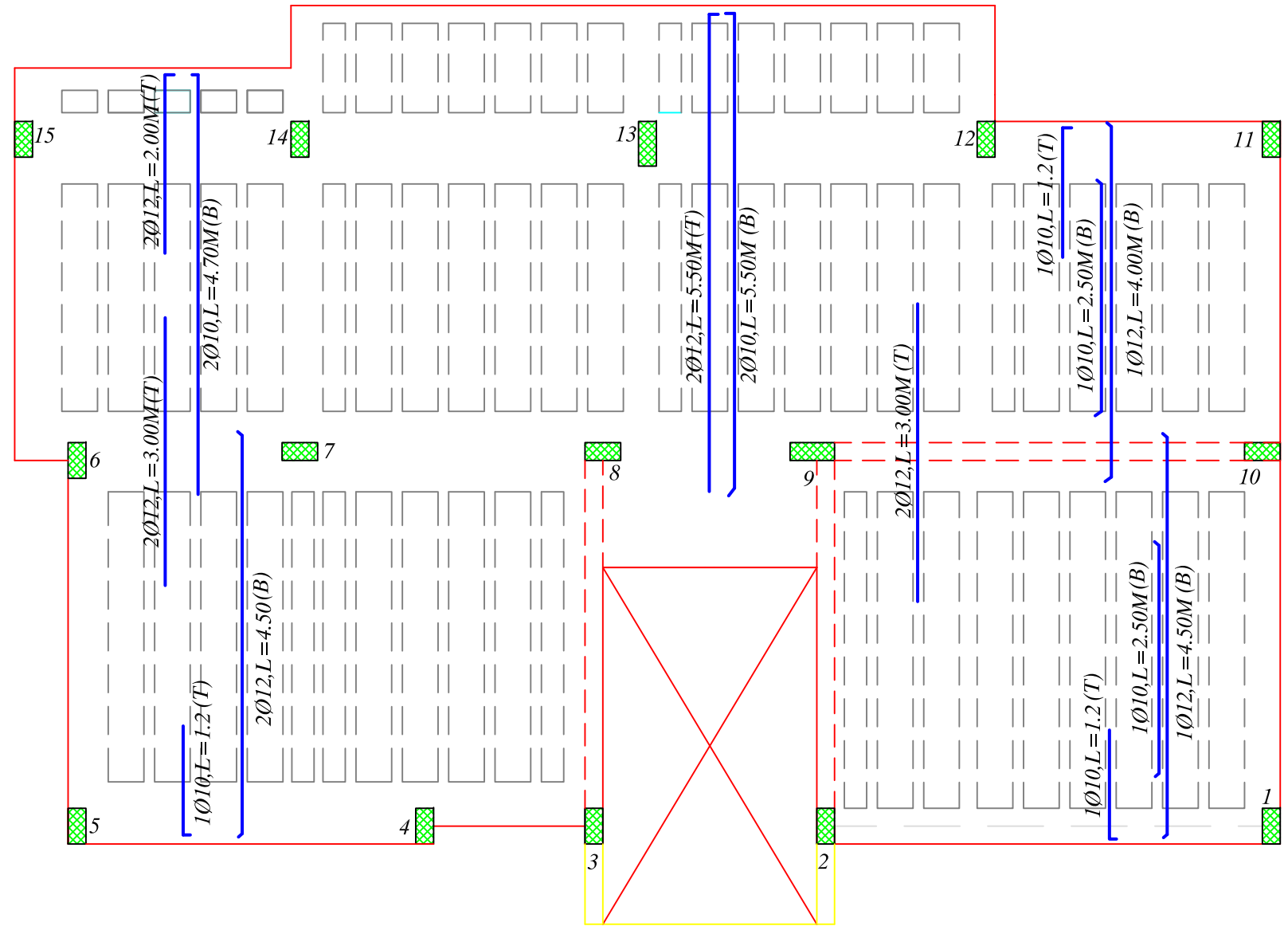
IMPLEMENTED BY:

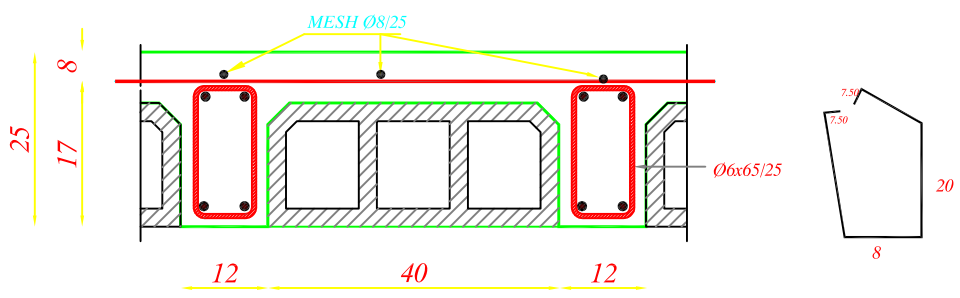
UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement
For Ground and First Floor-4

Symbol	Drawing No.	Rev. No.
RES	T2-C 14	R1





SECTION IN RIBS

Ribs Details & Reinforcement For Ground and First Floor

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

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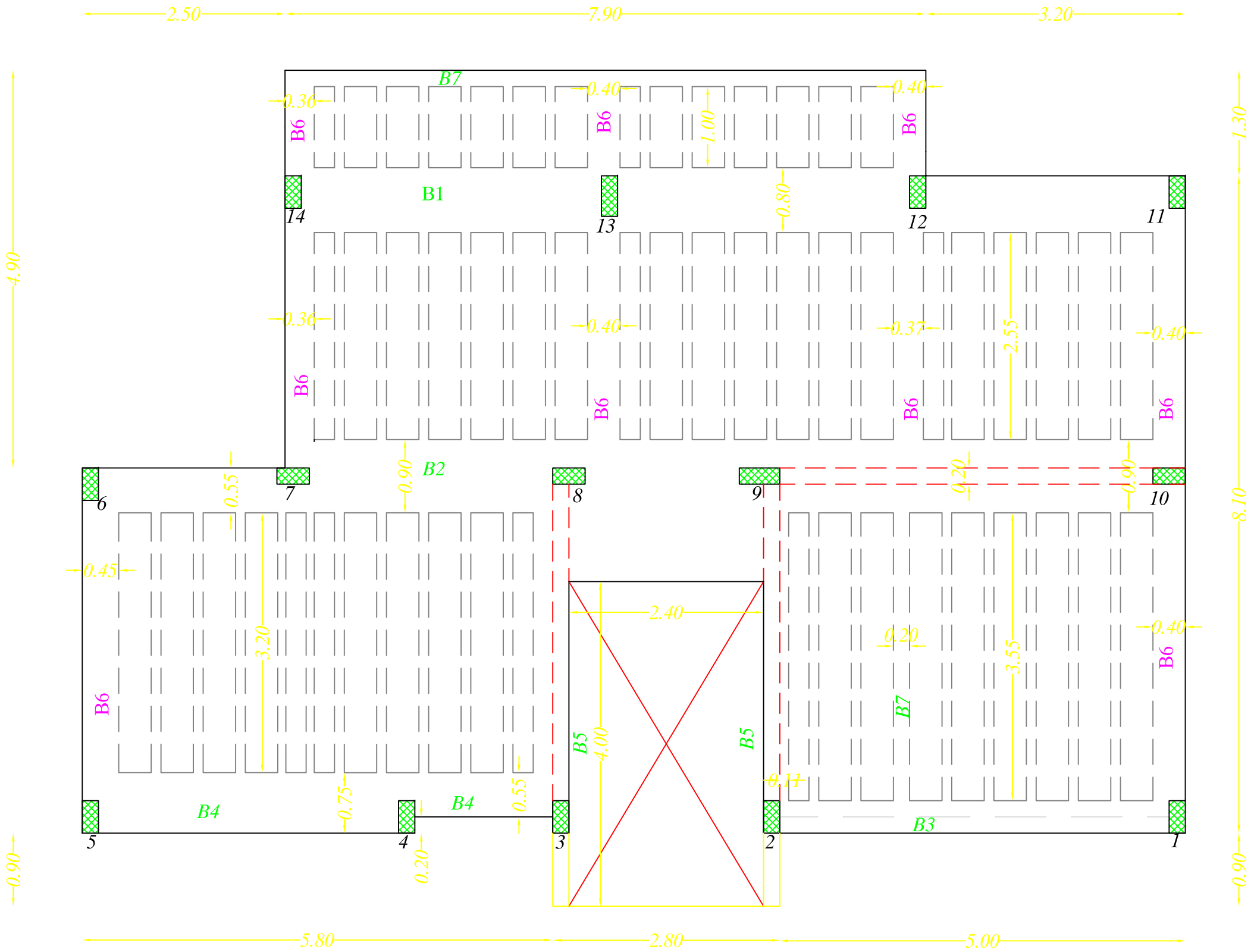
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Ribs Details & Reinforcement For Ground and First Floor

Symbol	Drawing No.	Rev. No.
RES	T2-C 15	R1



Beam Details & Reinforcement

For Second Floor-1

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm²)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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IMPLEMENTED BY:

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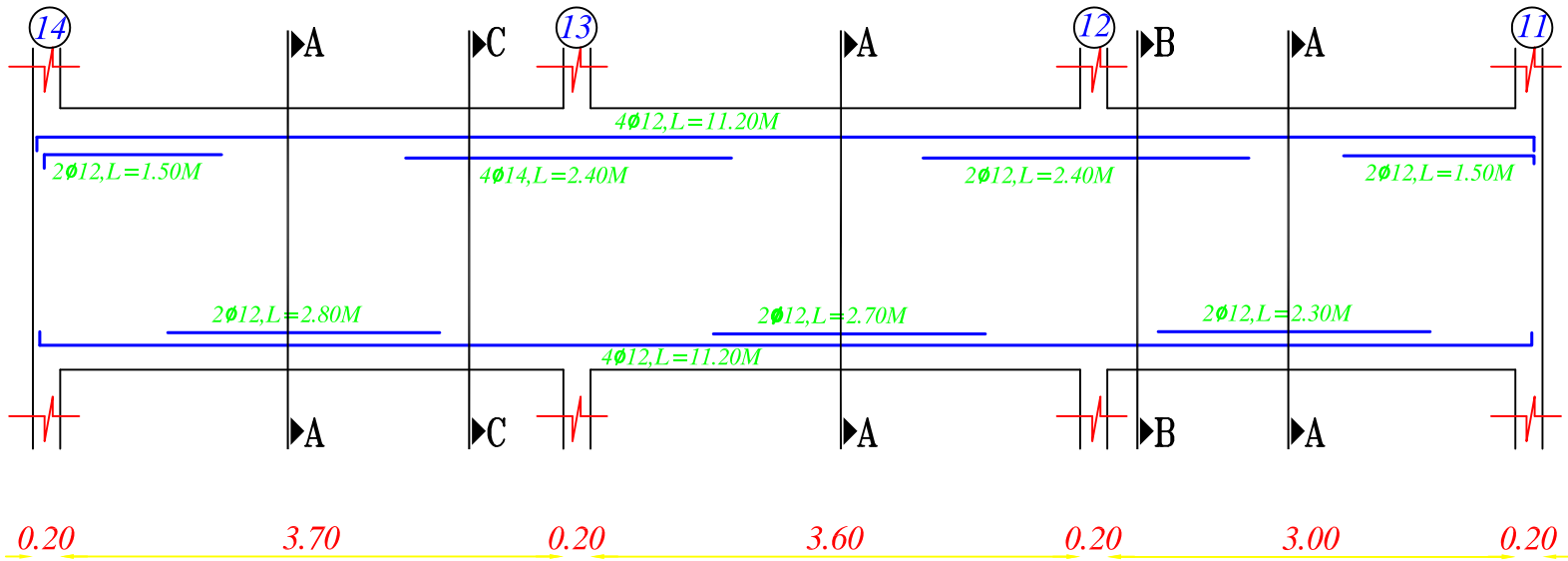
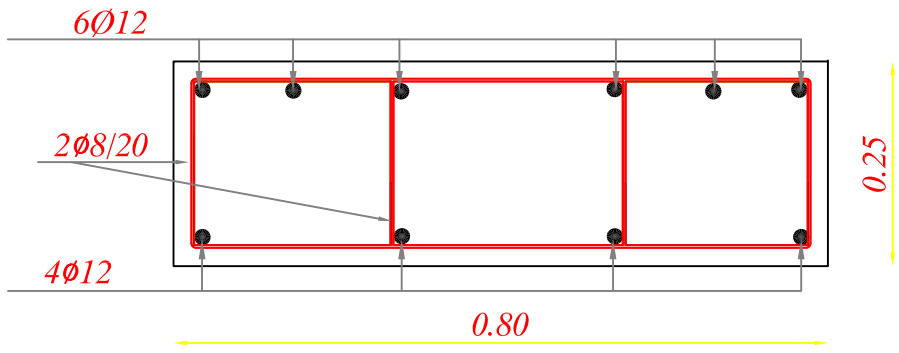
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Second Floor-1

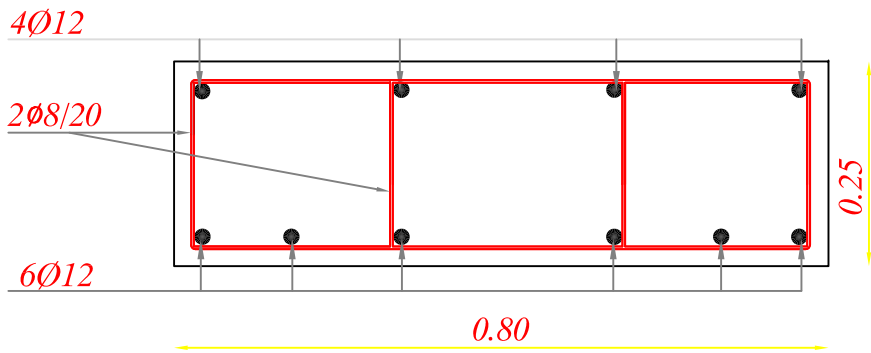
Symbol	Drawing No.	Rev. No.
RES	T2- C 16	R1

B1=25X80cm

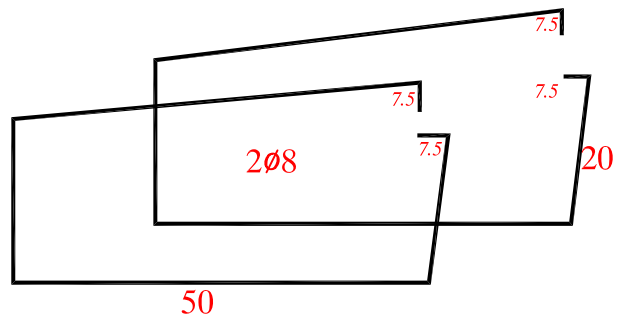


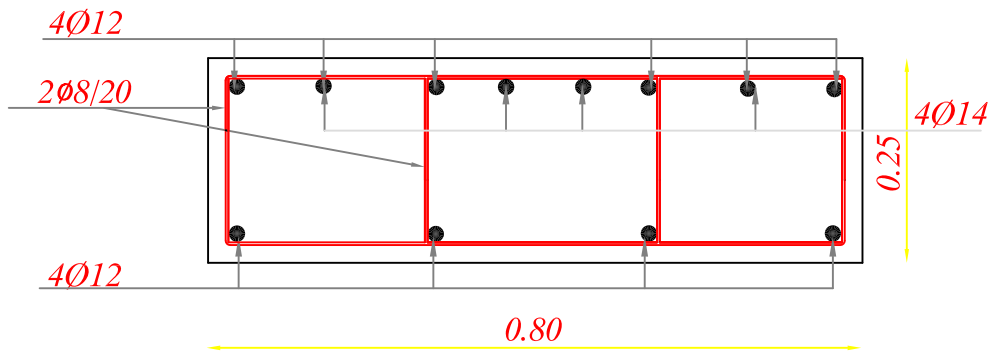


SECTION B-B



SECTION A-A





SECTION C-C

Beam Details & Reinforcement For Second Floor-2

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm²)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

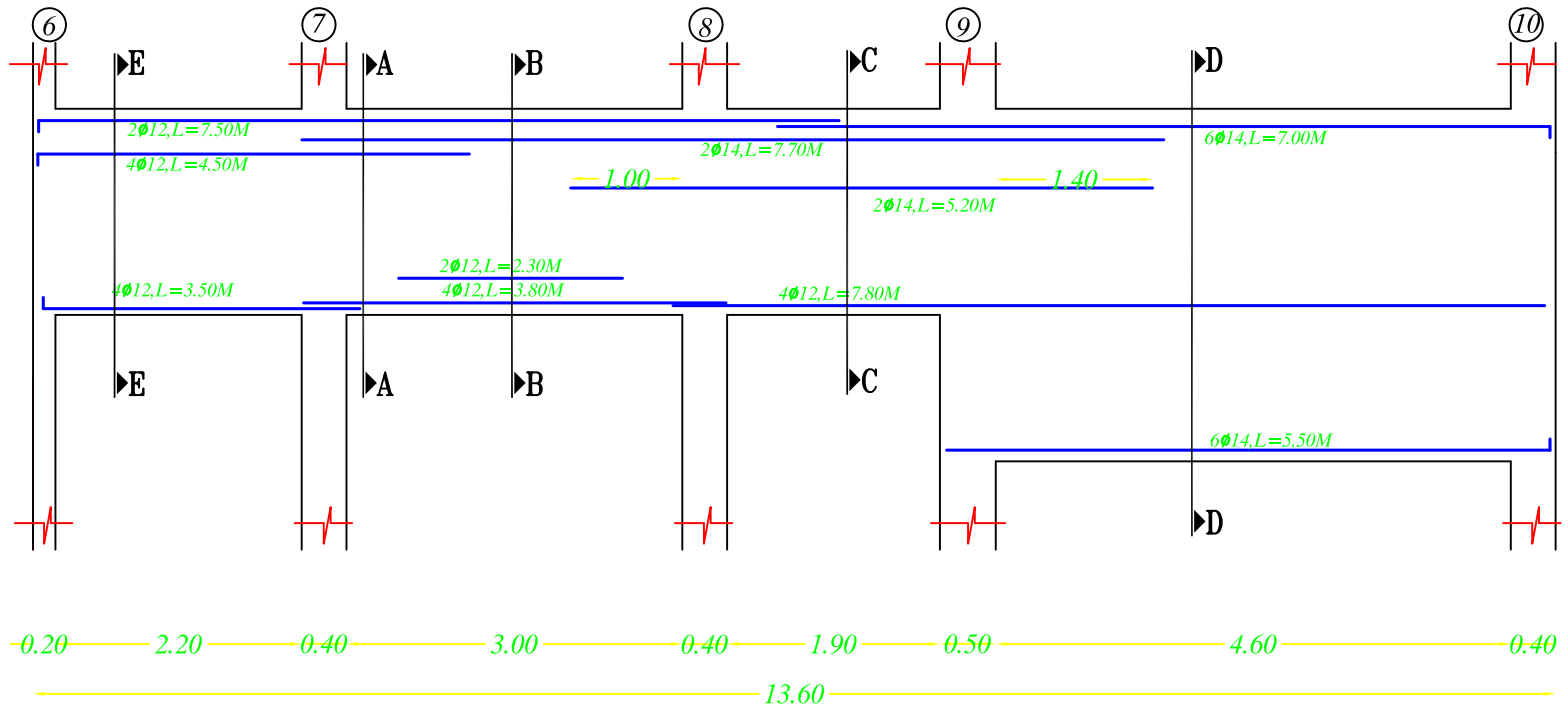
UNDP

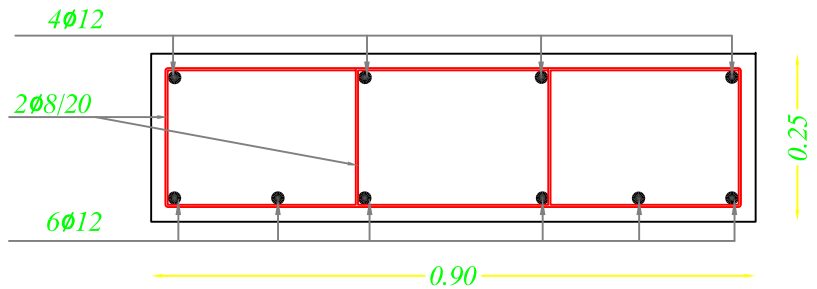
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Second Floor-2

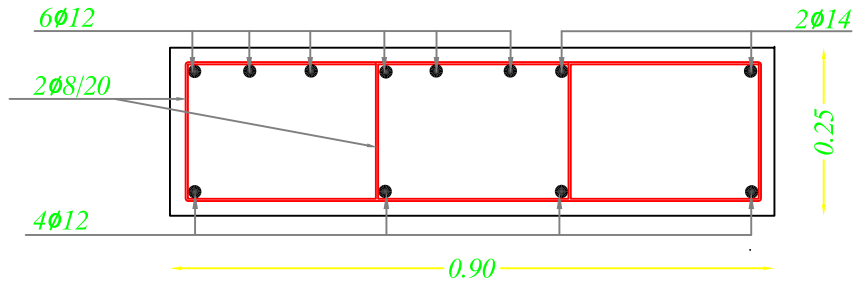
Symbol	Drawing No.	Rev. No.
RES	T2- C 17	R1

B2=25X90CM

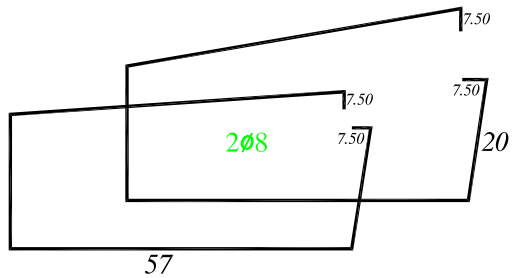


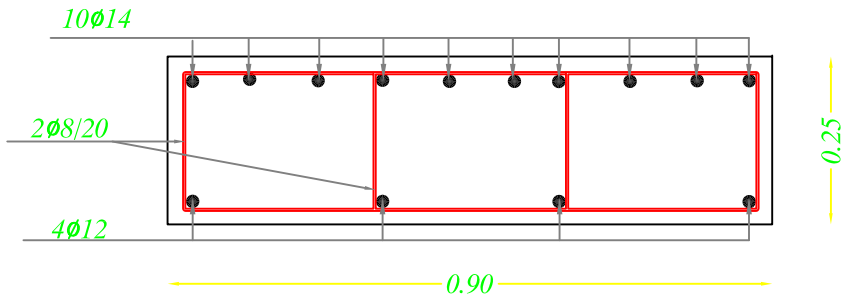


SECTION B-B

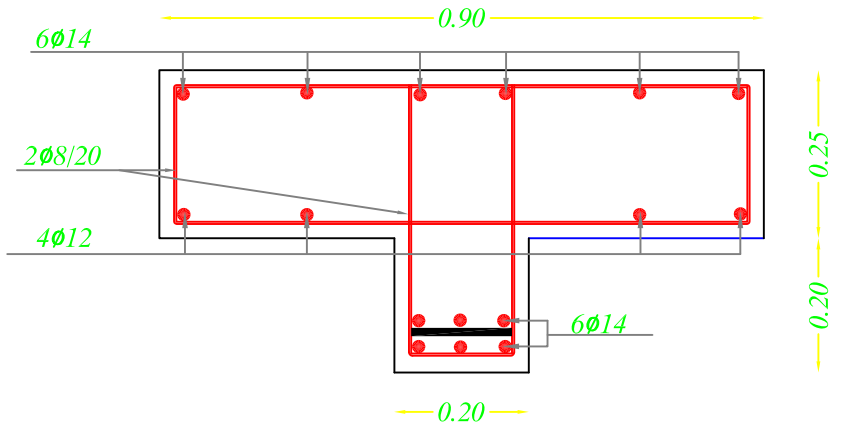


SECTION A-A

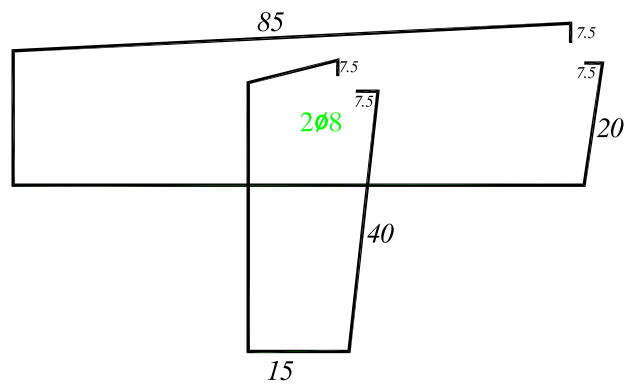


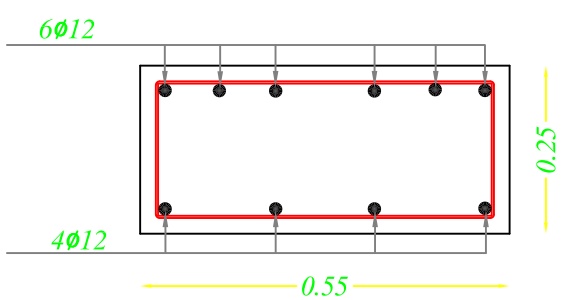


SECTION C-C

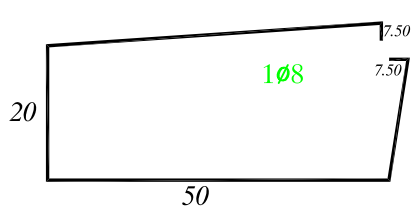


SECTION D-D





SECTION E-E



Beam Details & Reinforcement For Second Floor-3

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

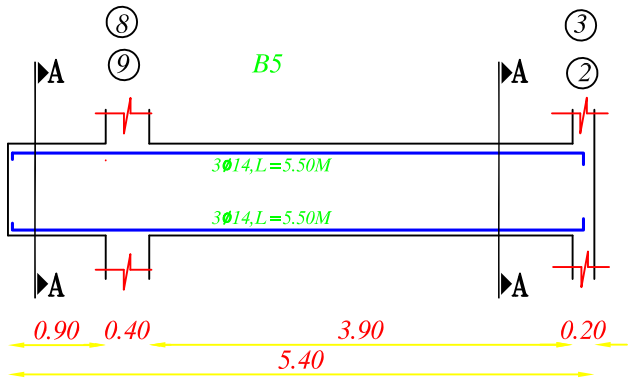
IMPLEMENTED BY:

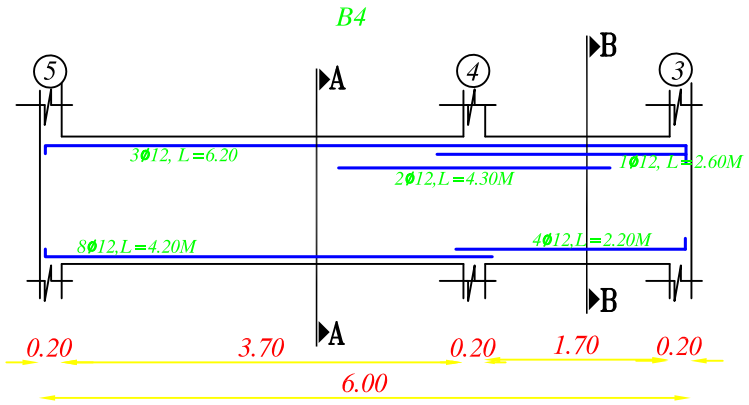
UNDP

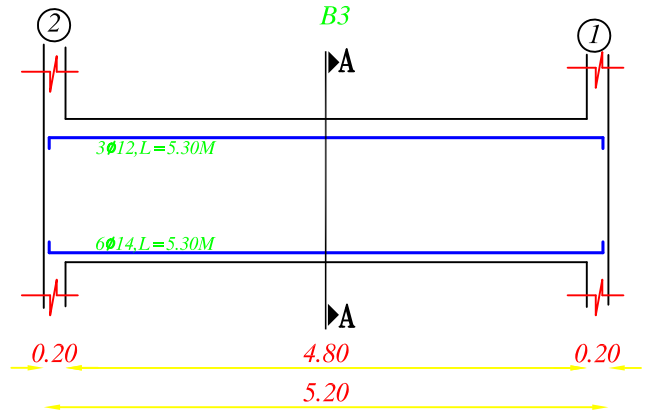
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

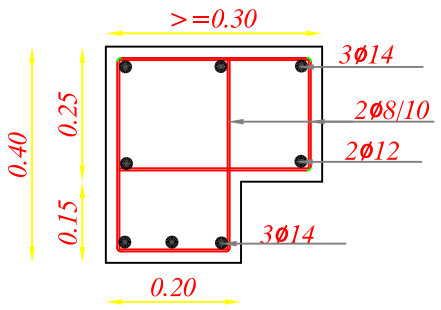
Beam Details & Reinforcement For Second Floor-3

Symbol	Drawing No.	Rev. No.
RES	T2-C 18	R1

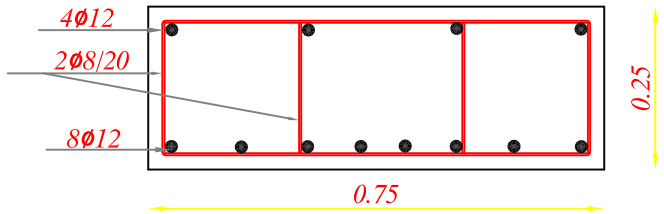




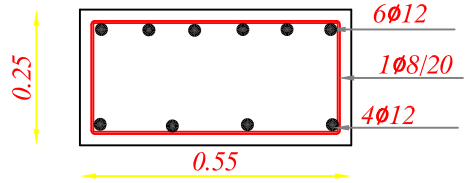




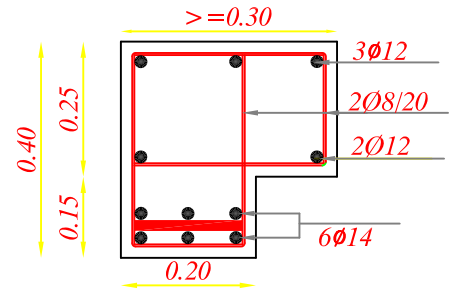
SECTION A-A



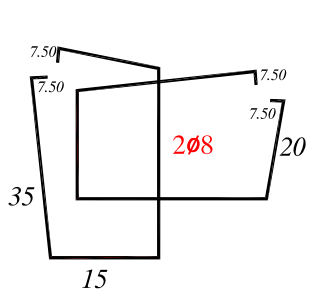
SECTION A-A

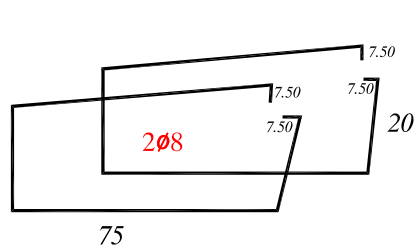


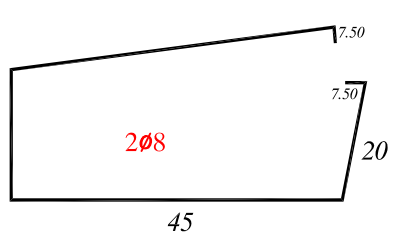
SECTION B-B

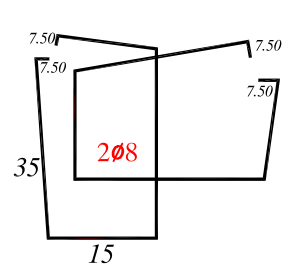


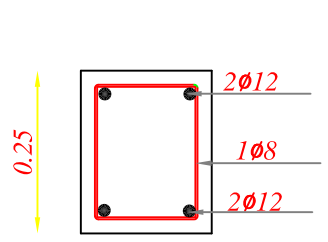
SECTION A-A



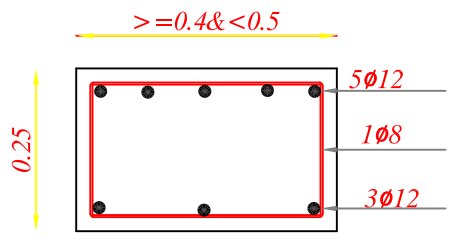




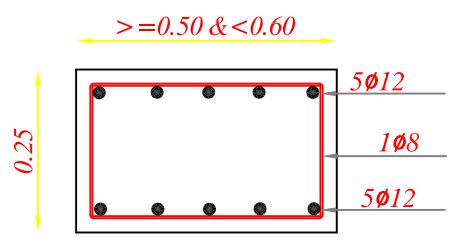




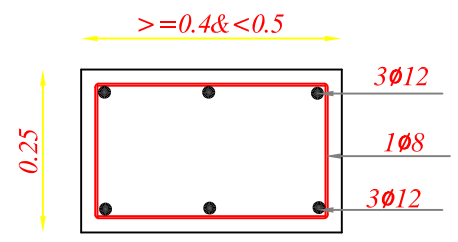
SECTION IN B7



SECTION IN B6 FOR CANTILIVER



SECTION IN B6



SECTION IN B6

Beam Details & Reinforcement For Second Floor-4

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel (fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved
Date			

File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

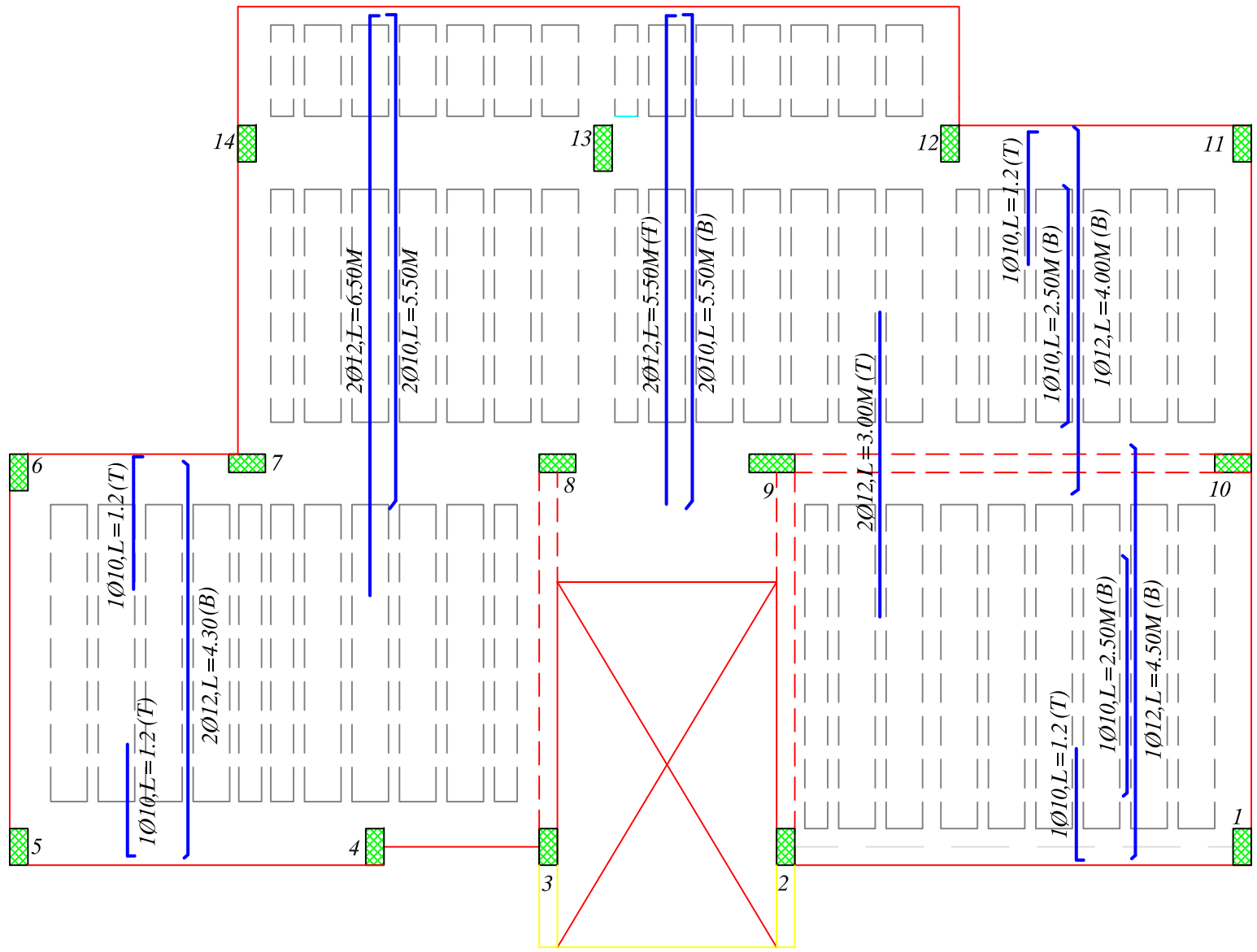
IMPLEMENTED BY:

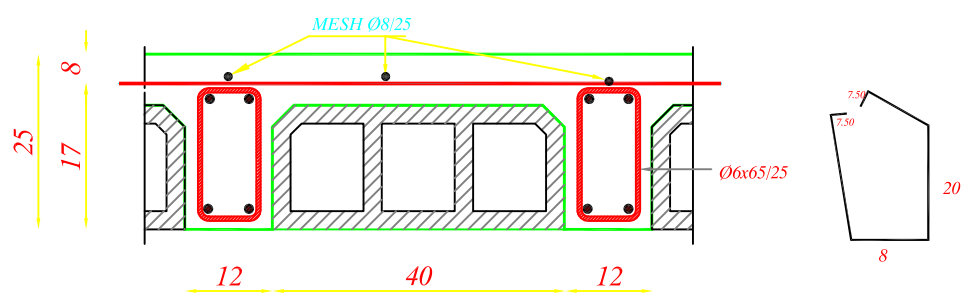
UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Second Floor-4

Symbol	Drawing No.	Rev. No.
RES	T2-C 19	R1





SECTION IN RIBS

Ribs Details & Reinforcement For Second Floor

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm²)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
4		
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2		
1		

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Ribs Details & Reinforcement For Second Floor

Symbol	Drawing No.	Rev. No.
RES	T2-C 20	R1

ELECTRICAL DRAWINGS

LLS (TYPE 2)

جدول الرموز الكهربائية

الرمز	البيان
	مفتاح كهرباء مفرد
	مفتاح كهرباء مزدوج
	مفتاخ ثلاثي
	ضاغط جرس
	ضاغط انارة الدرج
	جرس كهرباء
	مخرج كهرباء عادى A16
	مخرج كهرباء بغطاء A16
	مخرج تليفزيون
	مخرج تليفون
	مصباح فلورسنت مفرد
	كلوب دائري
	مصباح سقف عادى معلق
	مصباح حائط عادى
	مصباح حائط خافت
	مصباح مرأة الحمام

	مروحة شفط
	وحدة الانتركوم الداخلية
I	وحدة الانتركوم الخارجية
	لوحة توزيع كهرباء رئيسية
SDB	لوحة توزيع كهرباء فرعية
	لوحة توزيع اتصالات رئيسية
	لوحة توزيع اتصالات فرعية

NOTES

No.	Description	Date	By
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Revisions

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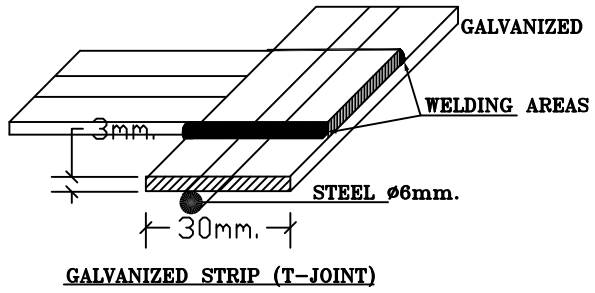
IMPLEMENTED BY:

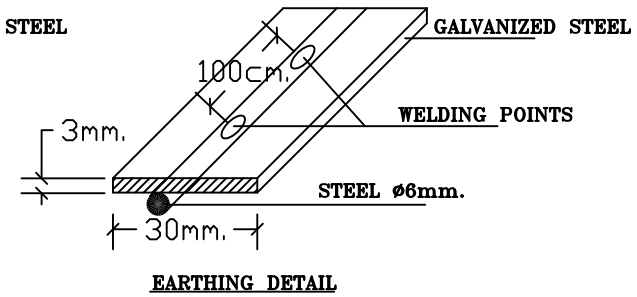
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Legend For Electrical Fittings

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 01	R1

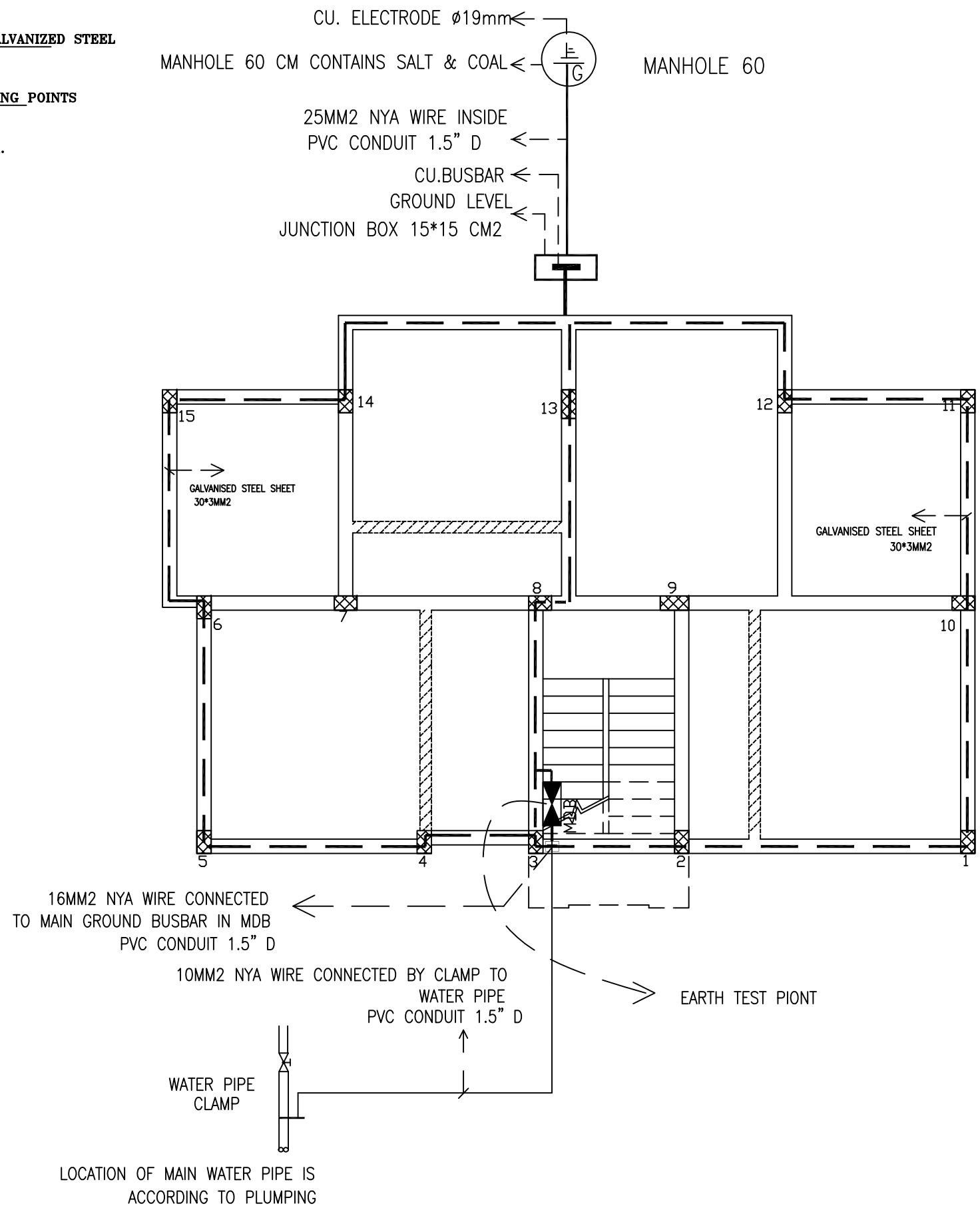


GALVANIZED STRIP (T-JOINT)



EARTHING DETAIL

يجب تمديد الارث الكهربائي قبل الصب



THE EARTHING SYSTEM RESISTANCE SHOULD BE LESS THAN OR EQUAL 2 OHM

NOTES

No.	Description	Date	By
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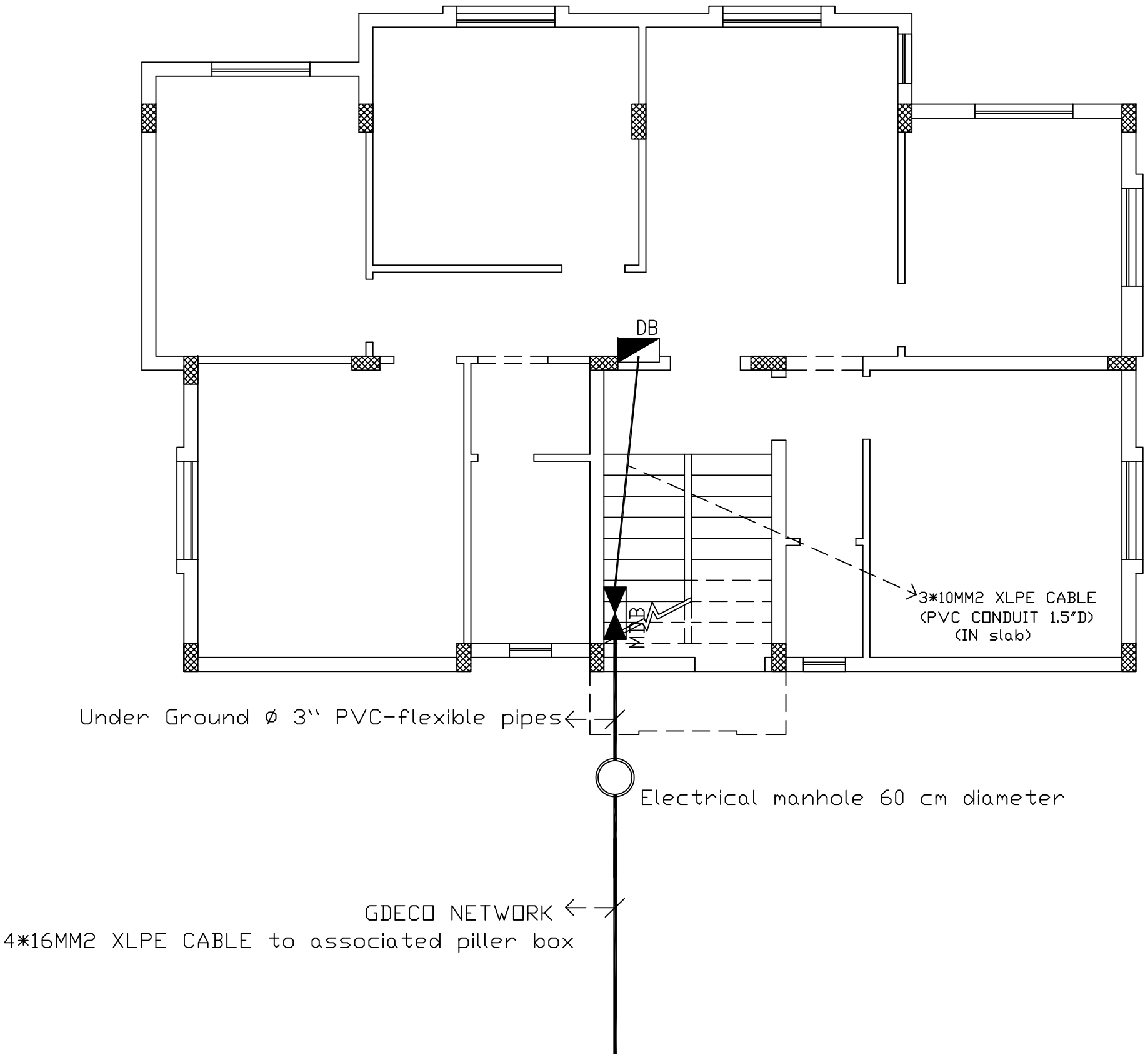
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Earthing System

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 02	R1



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No.	Description	Date	By
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

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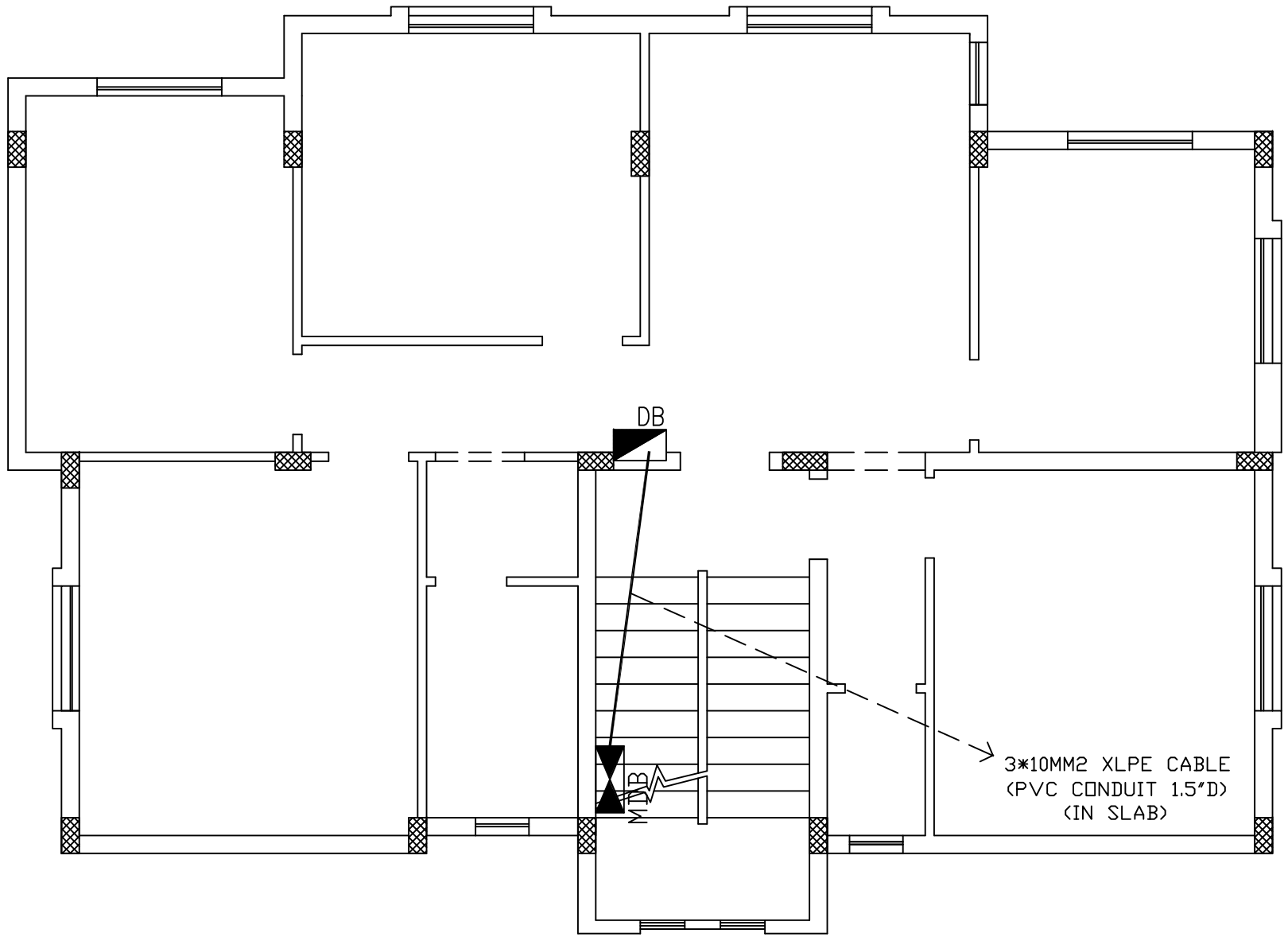
IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Main Electrical Incoming and Distributions

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 03	R1



NOTES

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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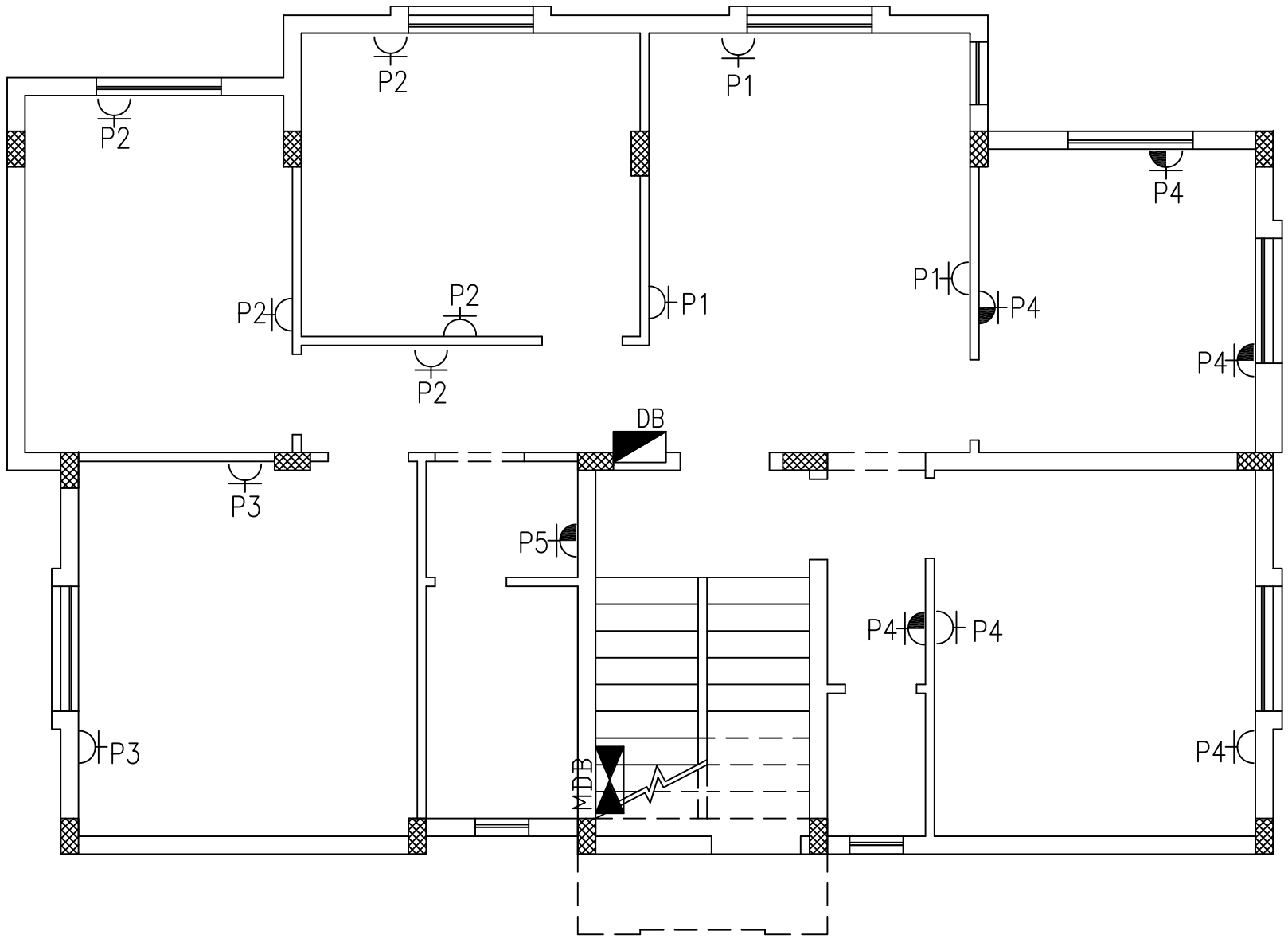
IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Distribution Boards
for First and Typical Floor

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 04	R1



NOTES

HEIGHT OF SOCKET =90 CM FROM FFL

HEIGHT OF SOCKET =120 CM FROM FFL AT KITCHEN

HEIGHT OF BOARDS =180 CM FROM FFL TO BOTTOM

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

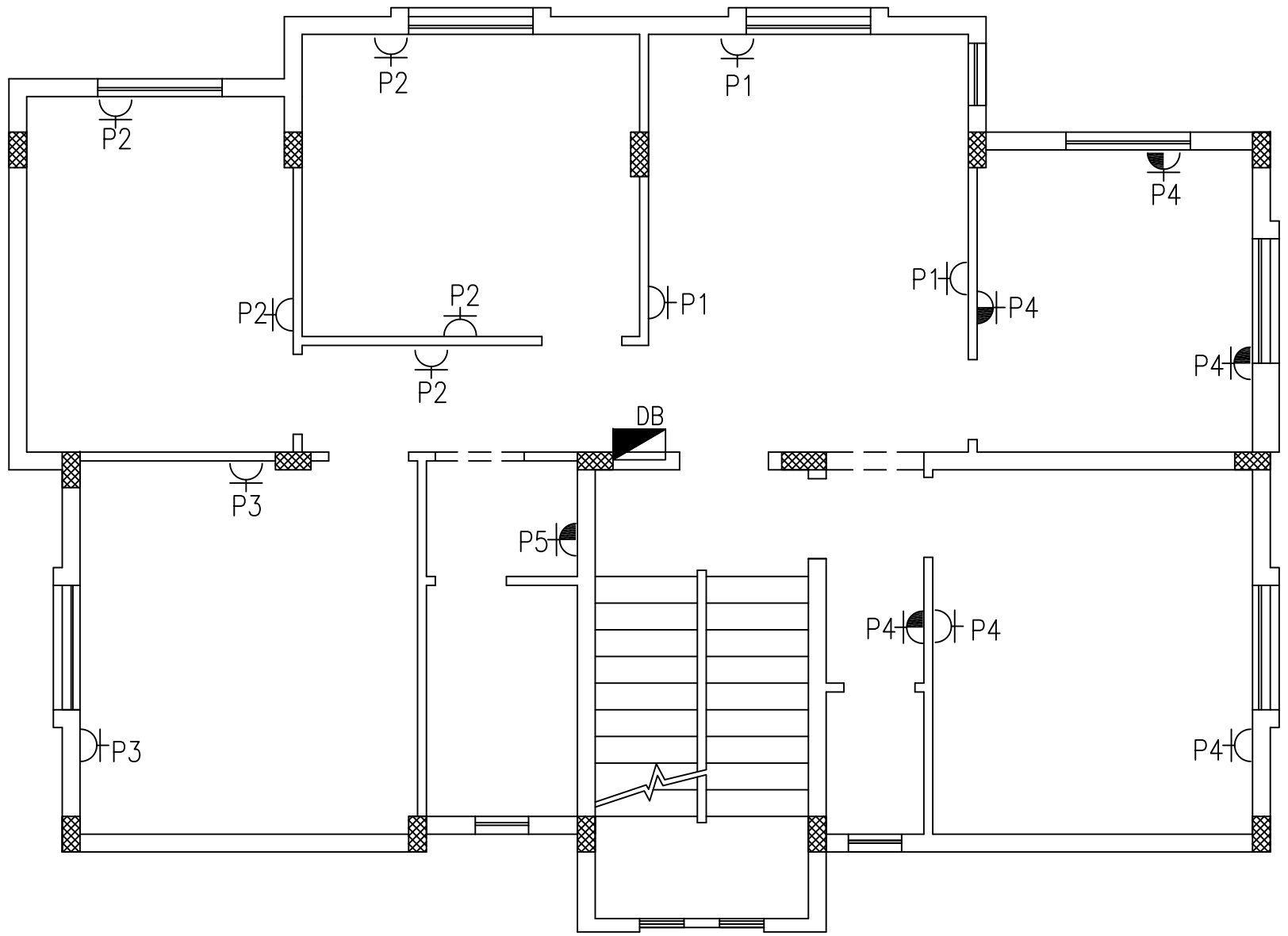
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Power Outlets Layout For Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 05	R1



NOTES

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HEIGHT OF SOCKET =120 CM FROM FFL AT KITCHEN

HEIGHT OF BOARDS =180 CM FROM FFL TO BOTTOM

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

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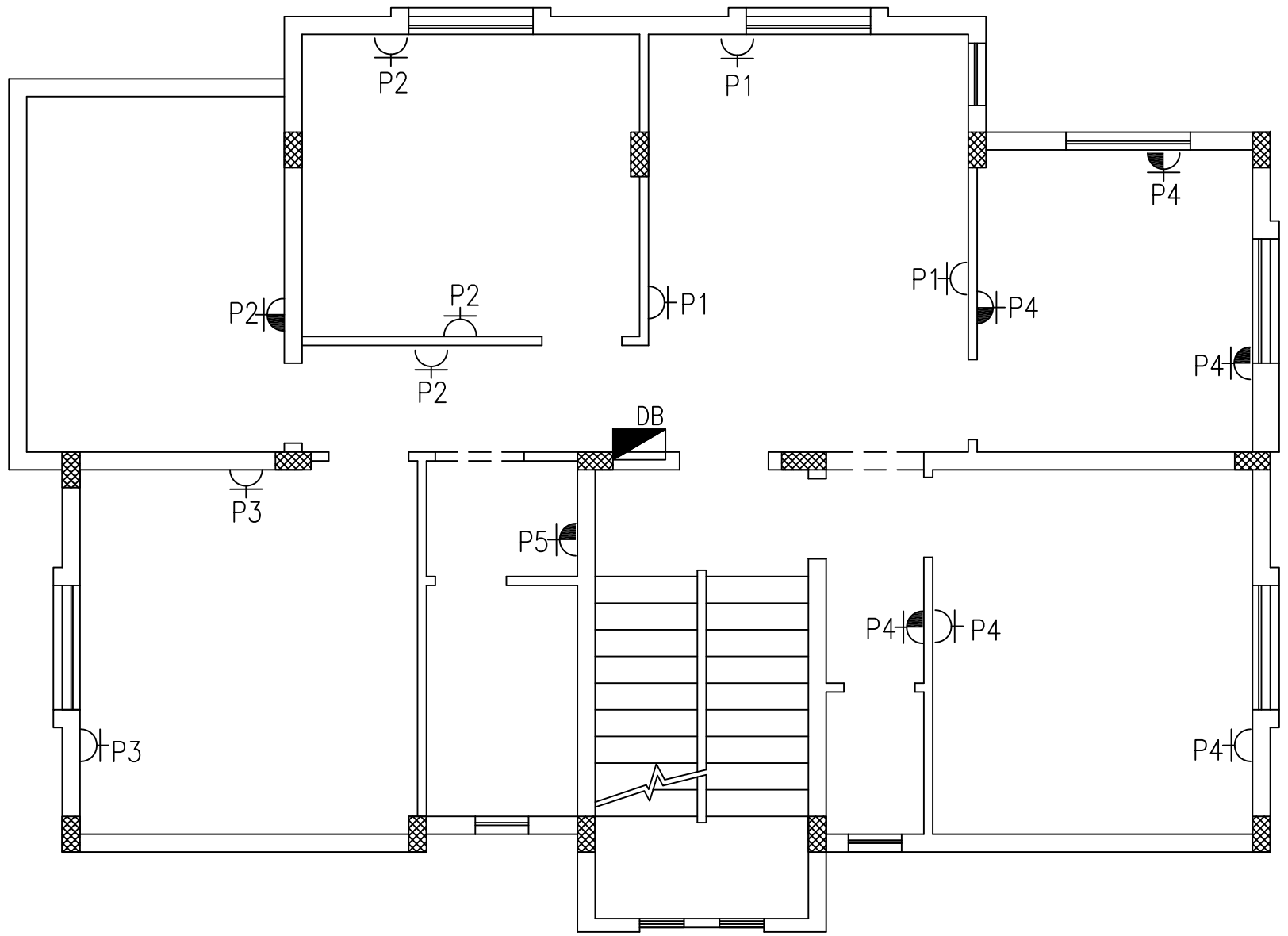
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Power Outlets Layout for FirstFloor

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 06	R1



NOTES

HEIGHT OF SOCKET =90 CM FROM FFL

HEIGHT OF SOCKET =120 CM FROM FFL AT KITCHEN

HEIGHT OF BOARDS =180 CM FROM FFL TO BOTTOM

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

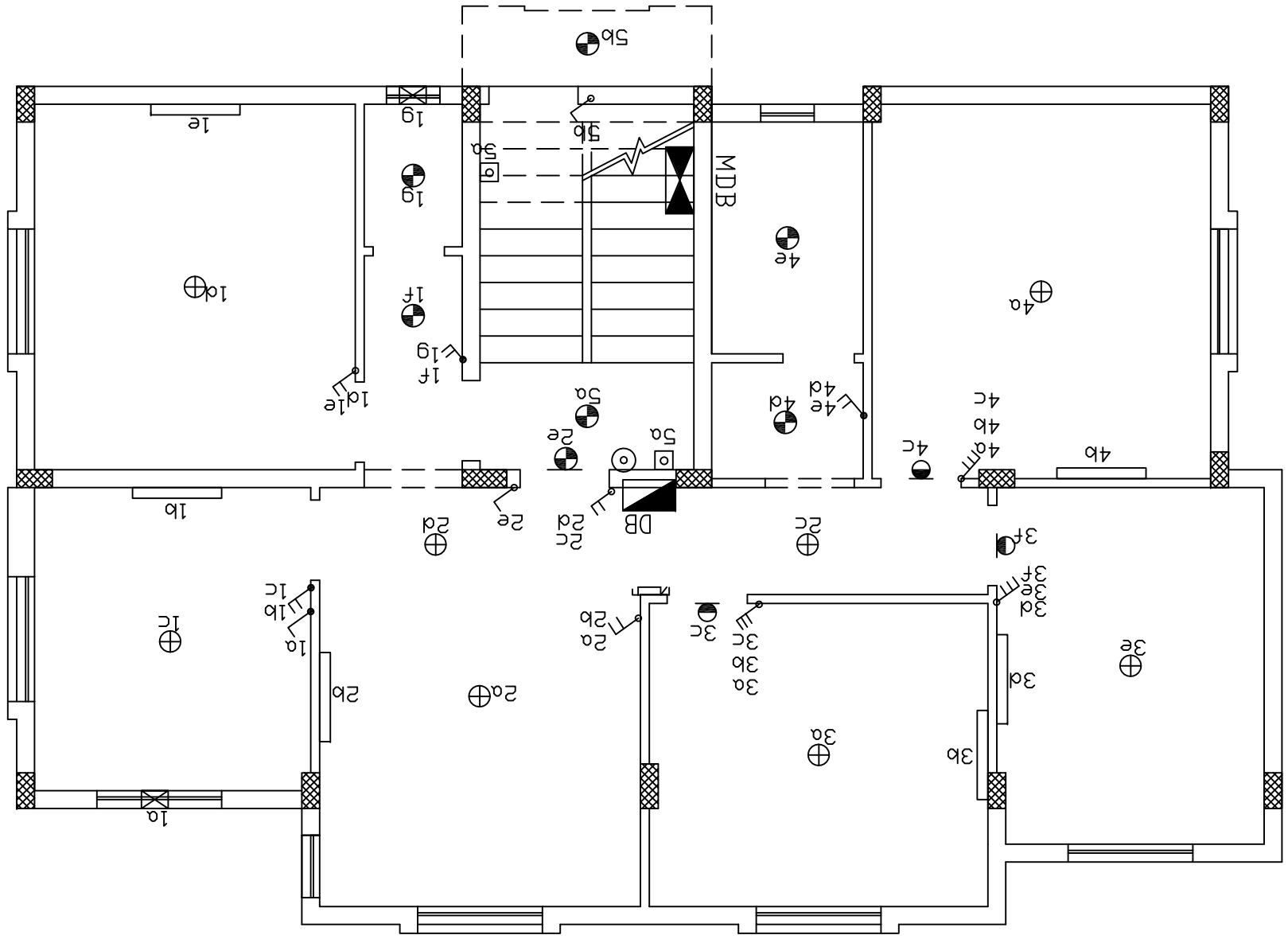
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Power Outlets Layout
for Second Floor

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 07	R1



NOTES

HEIGHT OF SWITCHES =137 CM FROM FFL

EXHAUST FAN =220 CM FROM FFL

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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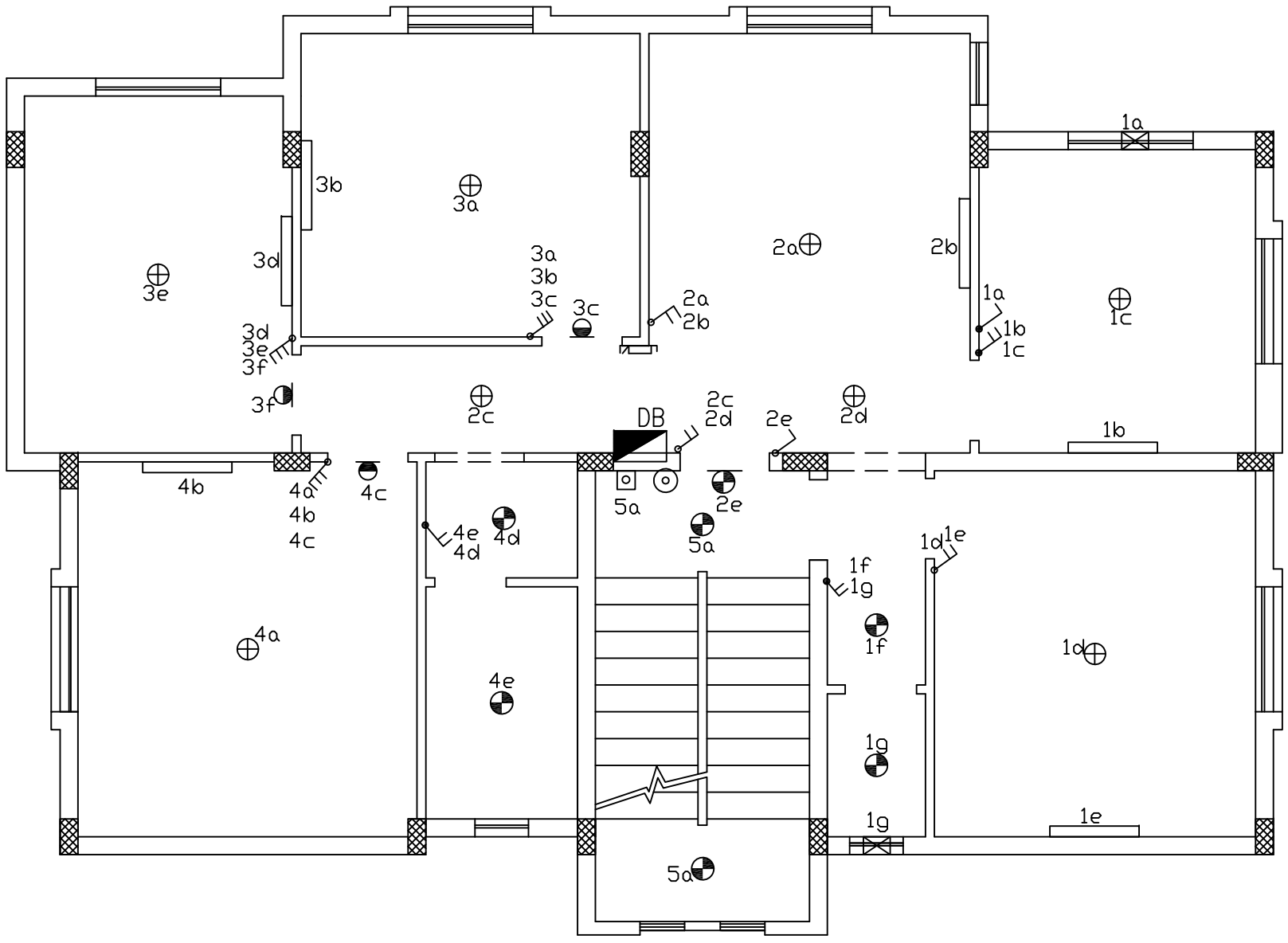
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Lighting Layout For Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 08	R1



NOTES

HEIGHT OF SWITCHES =137 CM FROM FFL

EXHAUST FAN =220 CM FROM FFL

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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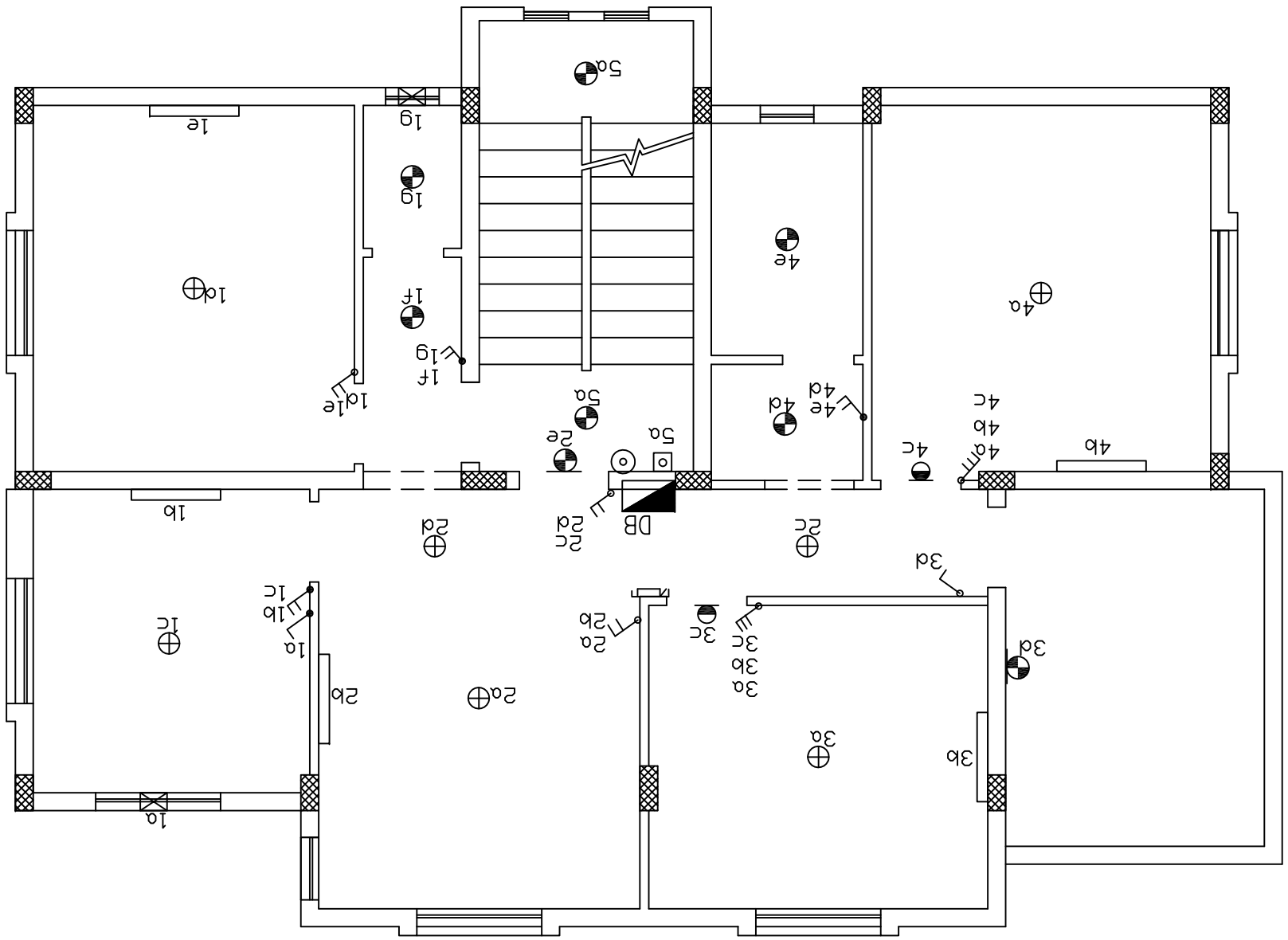
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Lighting Layout for First Floor

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 09	R1



NOTES

HEIGHT OF SWITCHES =137 CM FROM FFL

EXHAUST FAN =220 CM FROM FFL

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

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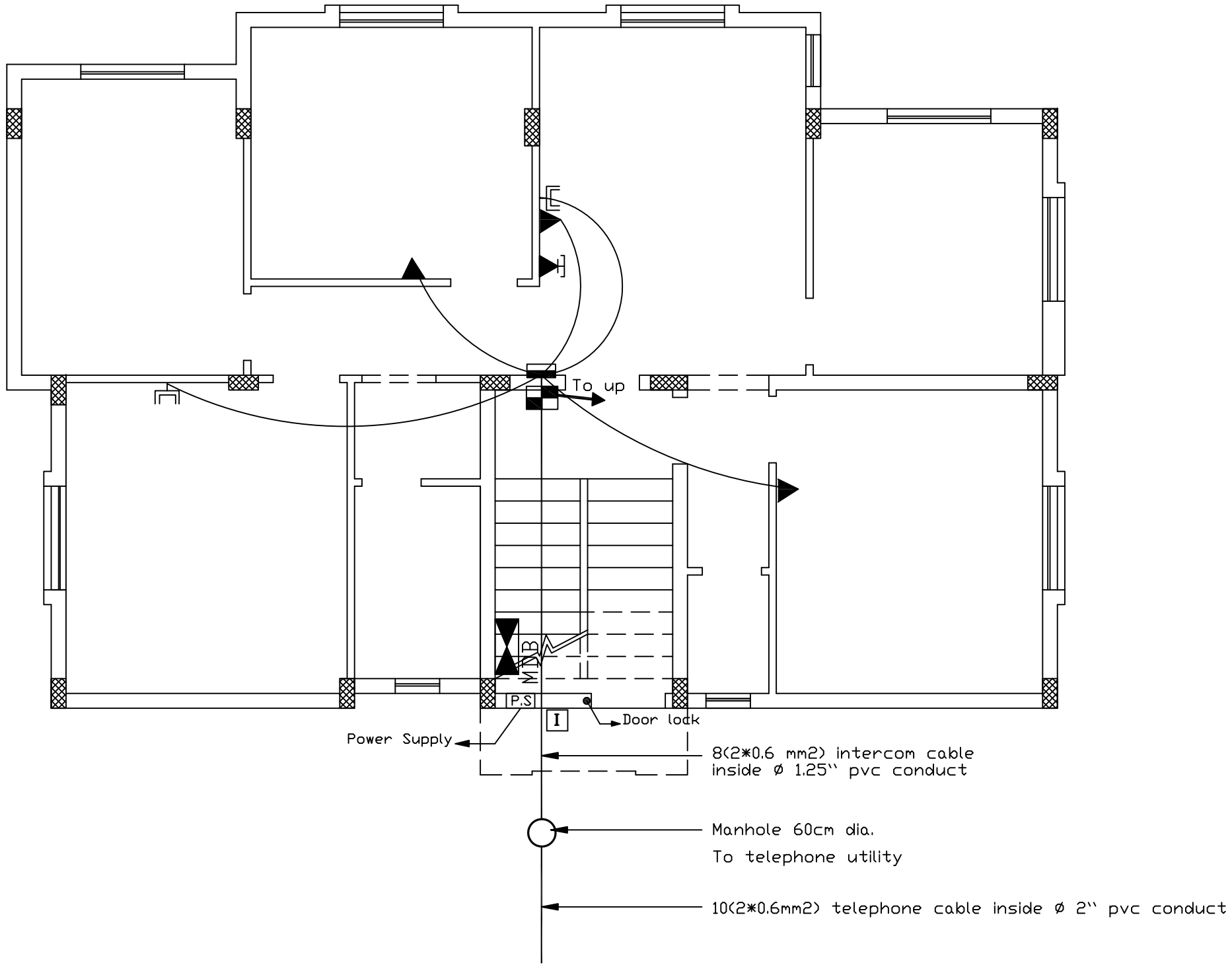
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Lighting Layout
for Second Floor

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 10	R1



NOTES

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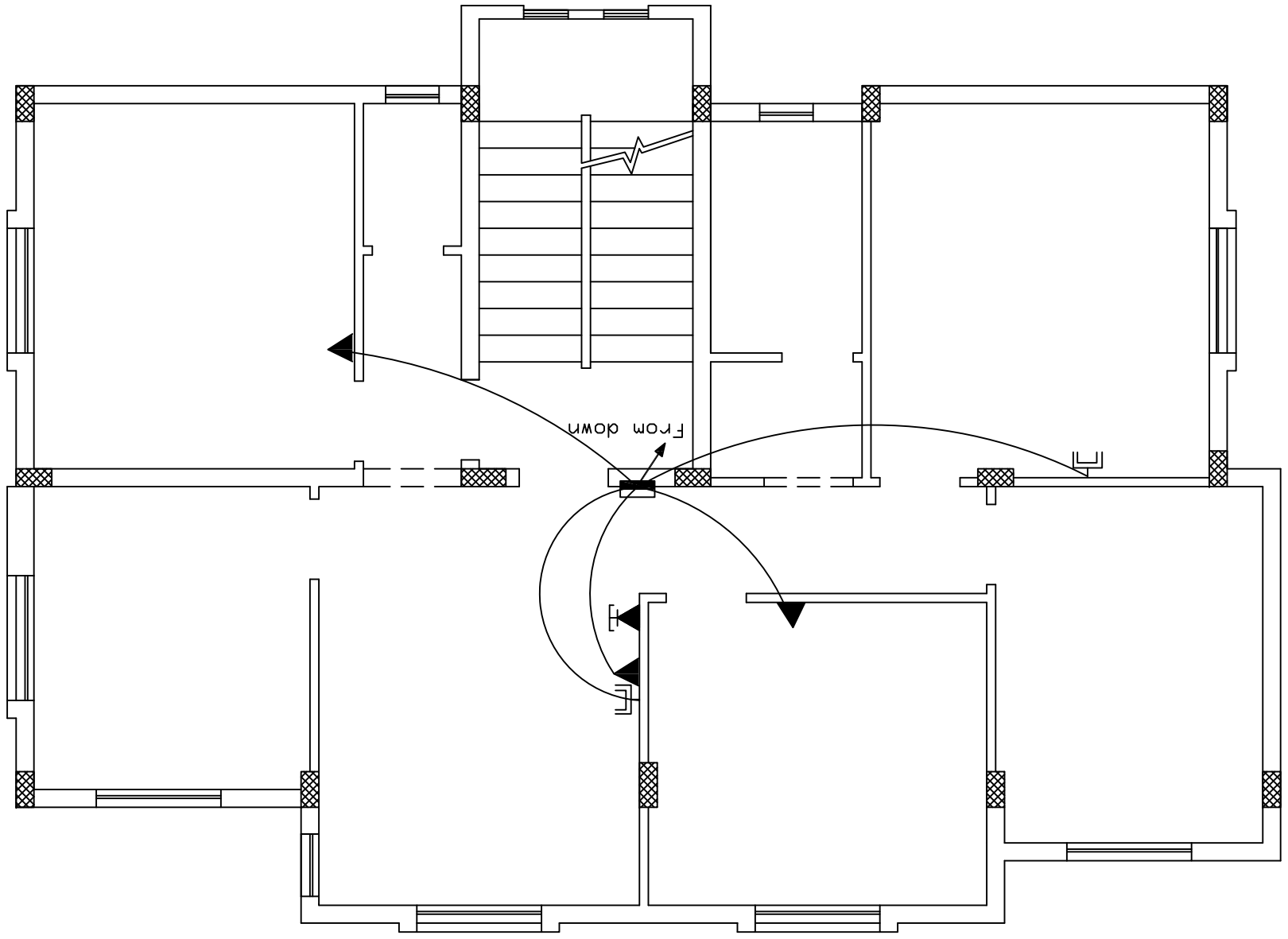
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Intercom, TV. and Telephone Layout for Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 11	R1



NOTES

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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

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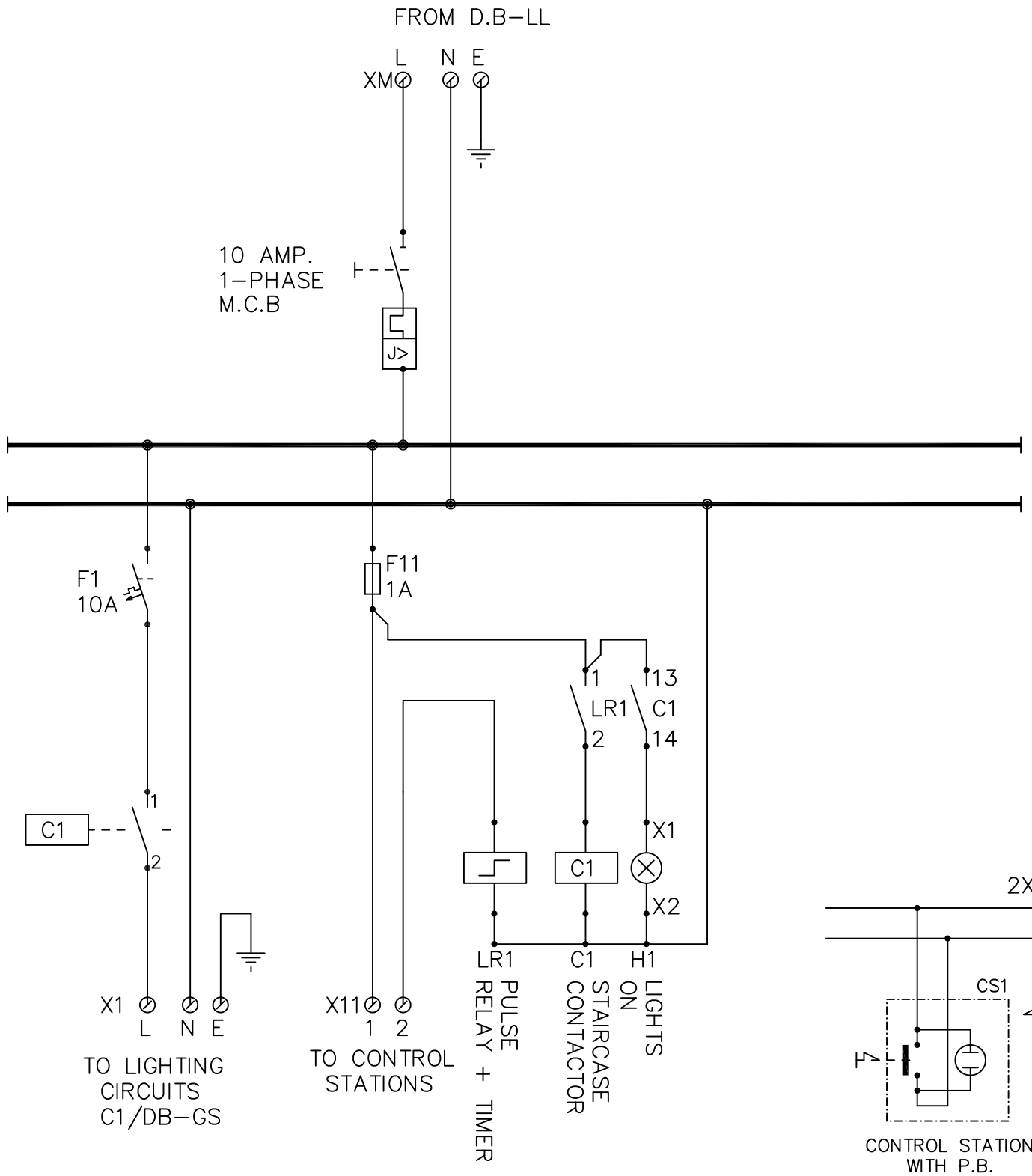
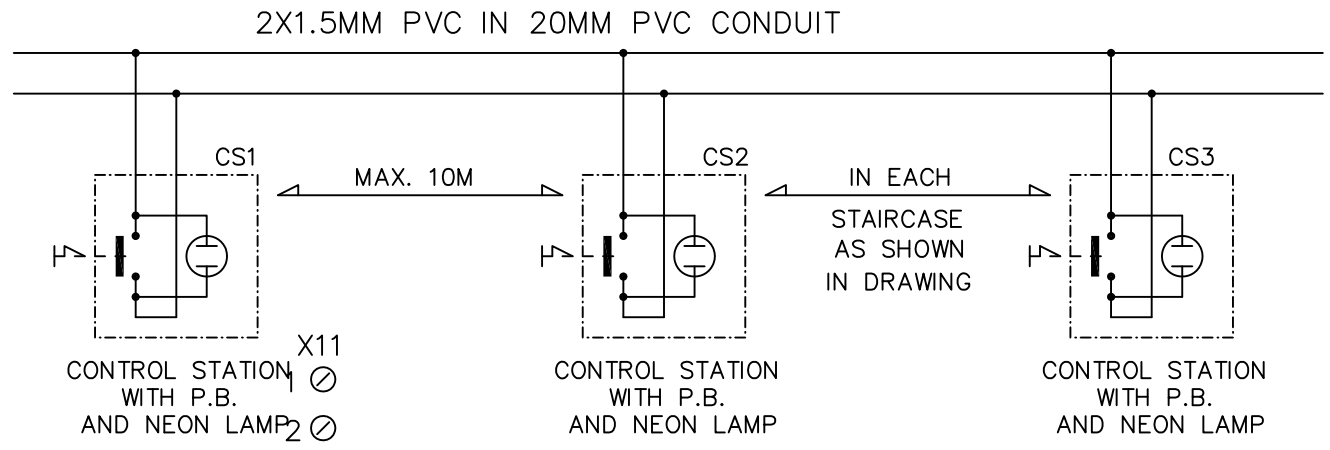
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Intercom, TV. and Telephone Layout
for First and Typical Floor

Symbol	Drawing No.:	Rev. No.
RES	T2- E 12	R1



TYPICAL STAIRCASE LIGHTING CIRCUIT



TYPICAL LIGHTING CIRCUIT DETAIL FOR STAIRCASE

NOTES

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

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PALESTINIAN NATIONAL AUTHORITY

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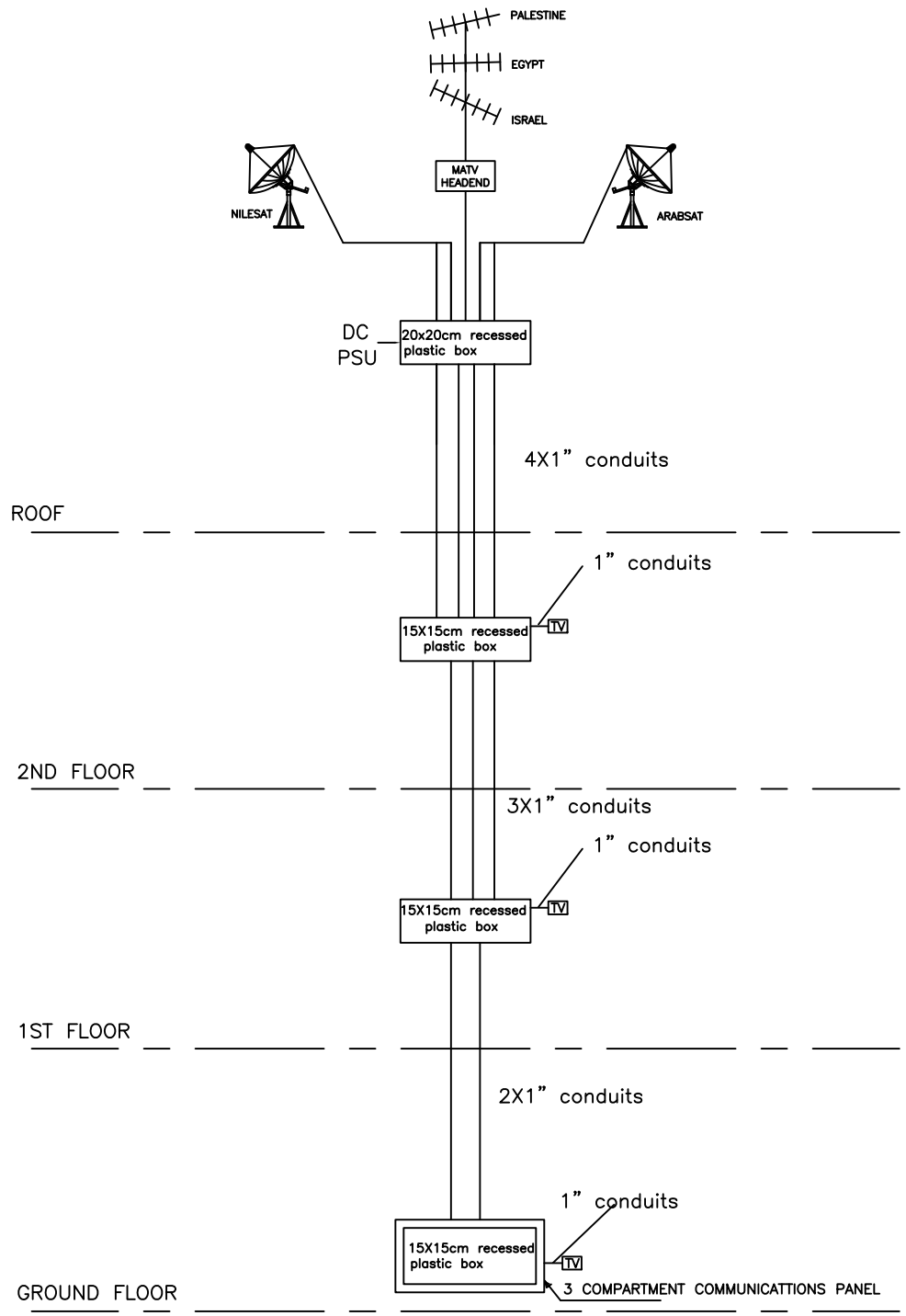
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

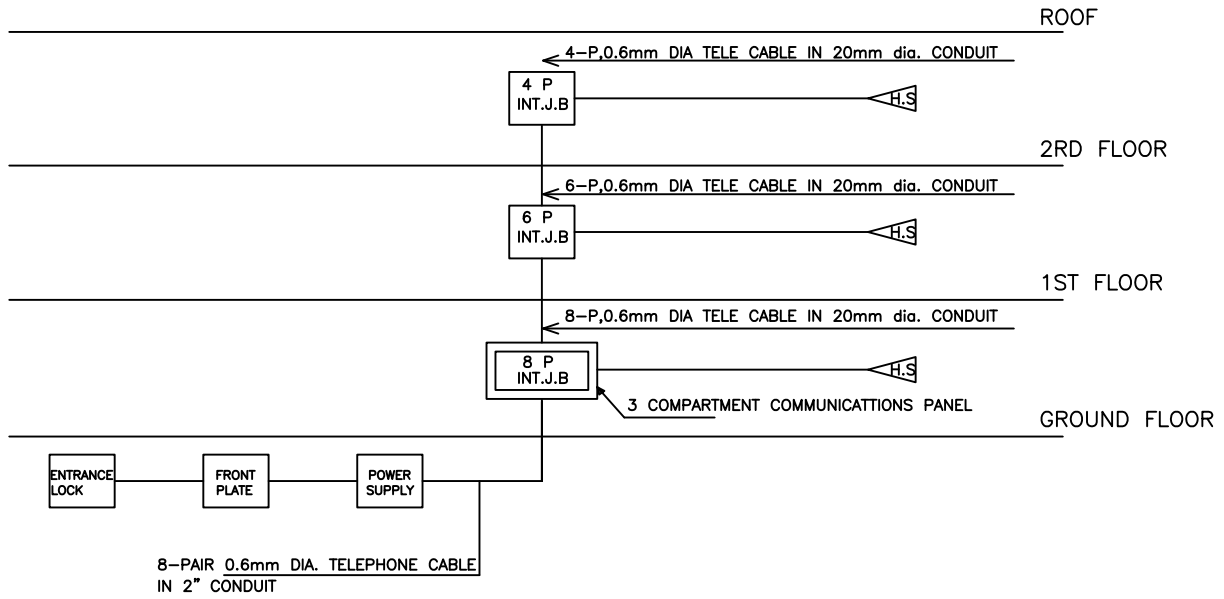
TYPICAL DISTRIBUTION BOARD FOR STAIRCASE

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 13	R1

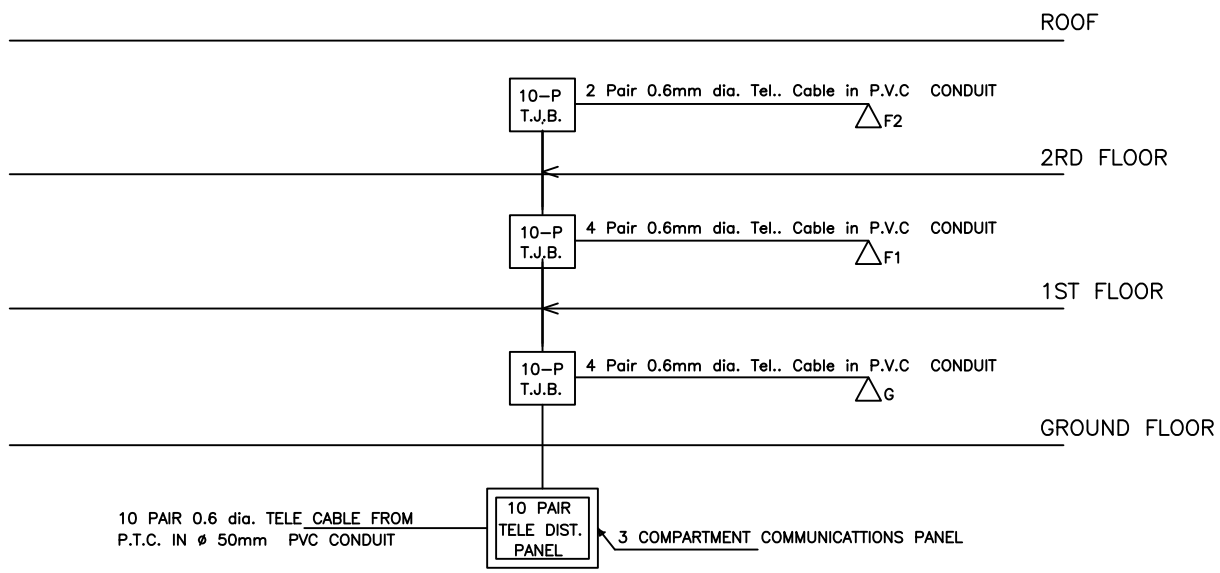


CENTRAL SATELLITE AND TELEVISION RISER DIAGRAM

Carcassing Only (boxes and conduits)



INTERCOM SYSTEM RISER DIAGRAM



TELEPHONE RISER DIAGRAM

NOTES

LEGEND:

P: DENOTES ONE PAIR OF CABLE

H.S : HAND SET COMPLETE WITH LOCK OPENING PUSH BUTTON

FRONT PLATE SHALL BE EQUIPPED WITH:

a) AUDIO MODULE
b) CALL BUTTON MODULE
c) REMOTE MIC

No.	Description	Date	By
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Date	File Name	Scale

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IMPLEMENTED BY:

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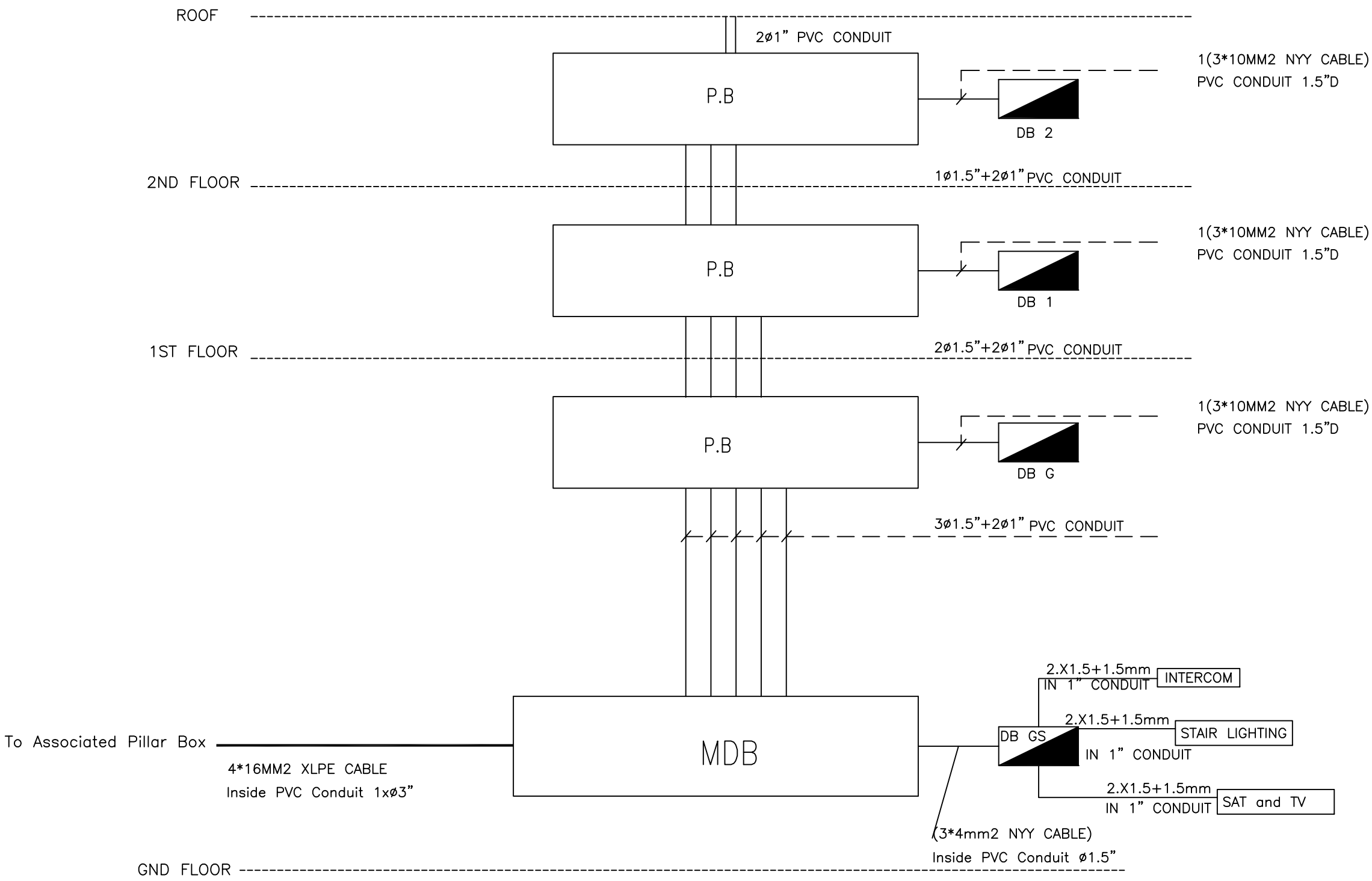
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Tv., Tel., Sat & Intercom Riser Diagram

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 14	R1

NOTES:

1. DO NOT SCALE FROM THIS DRAWING
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL, STRUCTURAL MECHANICAL, ELECTRICAL, ALL OTHER DRAWINGS AND ALL THE RELEVANT SECTIONS OF THE SPECIFICATION
3. EACH K.W.H.M CABINET TO HAVE SUITABLE LOCK WITH MODULAR CONSTRUCTION EQUIPPED WITH DOOR AND SUITABLE GLAZED WINDOW TO READ THE K.W.H.M WITHOUT OPENING THE DOOR.



NOTES

LEGEND

DB SECONDARY DISTRIB. BOARD

DB XY X=FLOOR NO.,Y=FLAT NO.

P.B PULL BOX 40*25*8 CM

No.	Description	Date	By
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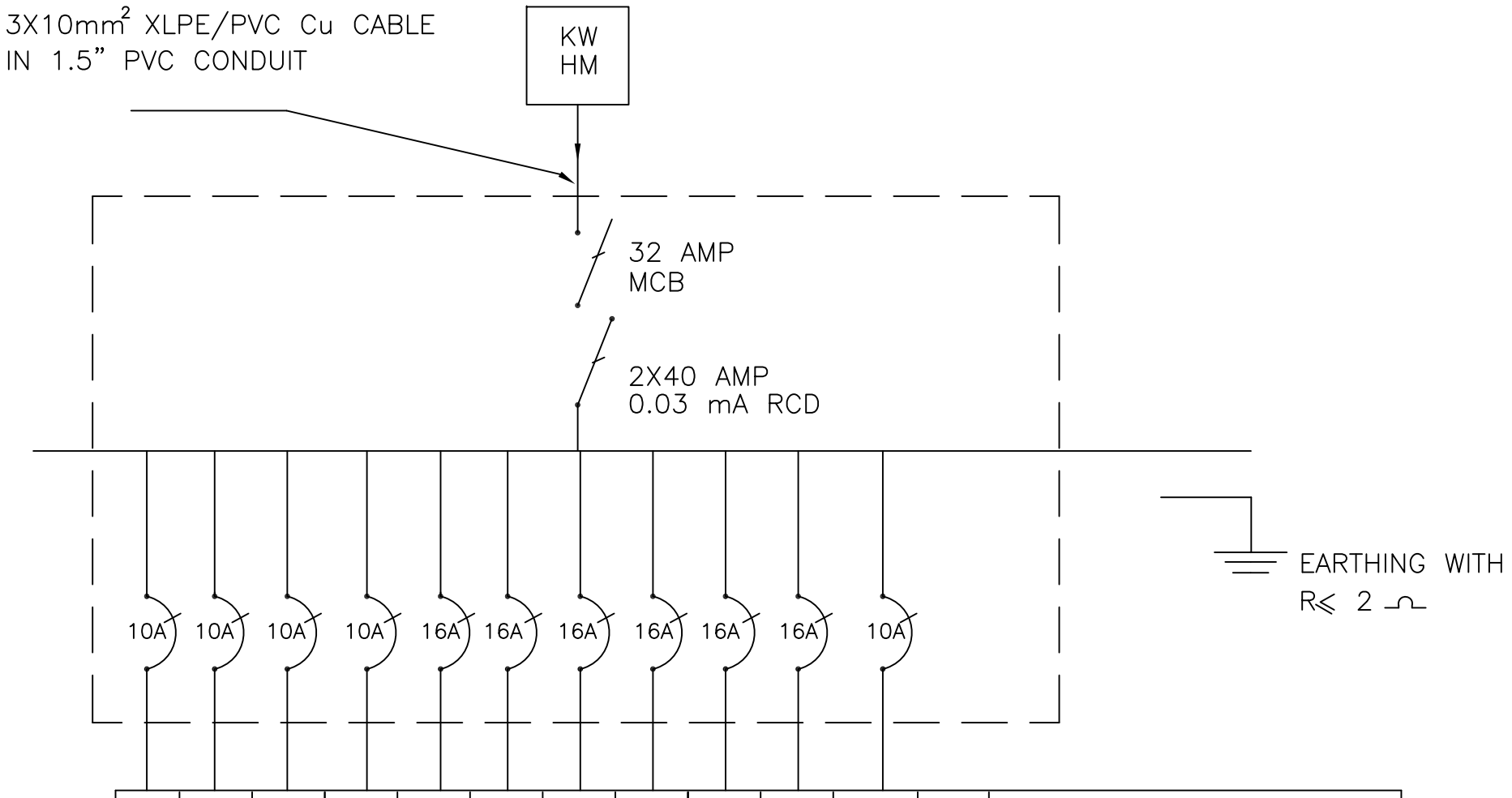
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Power Riser Diagram

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 15	R1



L1	L2	L3	L4	P1	P2	P3	P4	P5	PS	LS		CIRCUIT NUMBER
800	700	700	700	800	1000	500	1500	1500		–	–	LOAD IN V.A.
2900				5300					SPARES			8200 TOTAL CONNECTED LOAD V.A
3X1.5 mm²				3x2.5 mm²								SIZE OF WRING MM²
20mm DIA HEAVY GAUGE PVC												SIZE OF CONDUIT AND TYPE
LIGHTING				SW. SOCKET OUTLET					SPARE			LOAD SERVED

TOTAL CONNECTED LOAD=8200 VA
DEMAND FACTOR:30%
TOTAL DEMAND=5740 VA

TYPICAL FLAT DISTRIBUTION BOARD

DB-G,1&2

NOTES

No.	Description	Date	By
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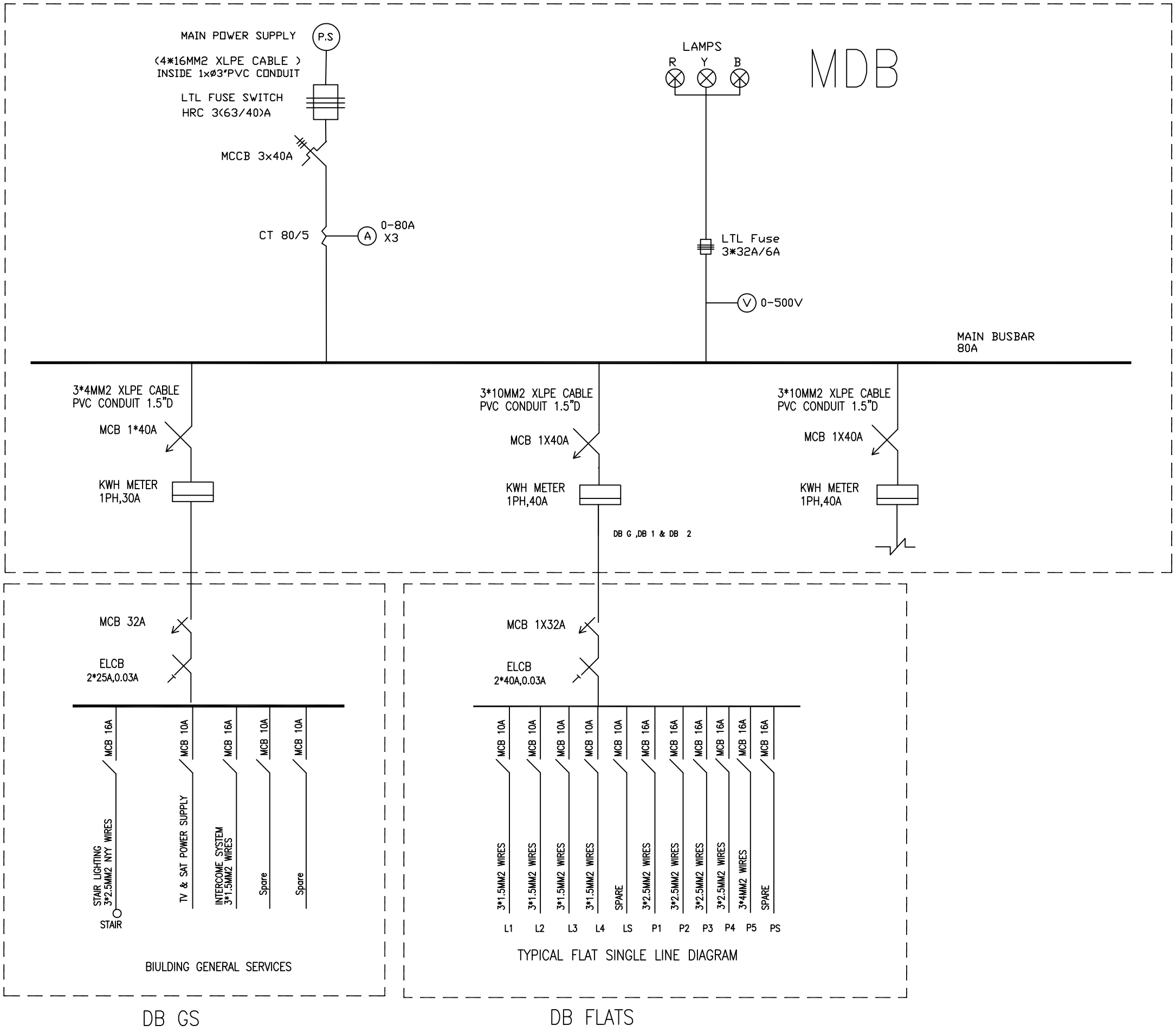
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

TYPICAL FLAT DISTRIBUTION BOARD

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 16	R1



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PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Main Distribution Board
Single Line Diagram

Symbol	Drawing No.:	Rev. No.
RES	T2 - E 17	R1

ARCHITECTURAL DRAWINGS

LS (TYPE 6)

List of Drawings– LS (Type6)

Architectural Drawings

T6–A–01 Ground Floor Plan– Type L
T6–A–02 First Floor Plan– Type S
T6–A–03 Roof Floor Plan– Type S
T6–A–04 Furniture Plan– Typical Floor (Type L)
T6–A–05 Main Elevation– No. 1
T6–A–06 Rigth Side Elevation– No. 2
T6–A–07 Rare Elevation– No. 3
T6–A–08 Left Side Elevation– No. 4
T6–A–09 Section A–––A
T6–A–10 Section B–––B

Mechanical Drawings

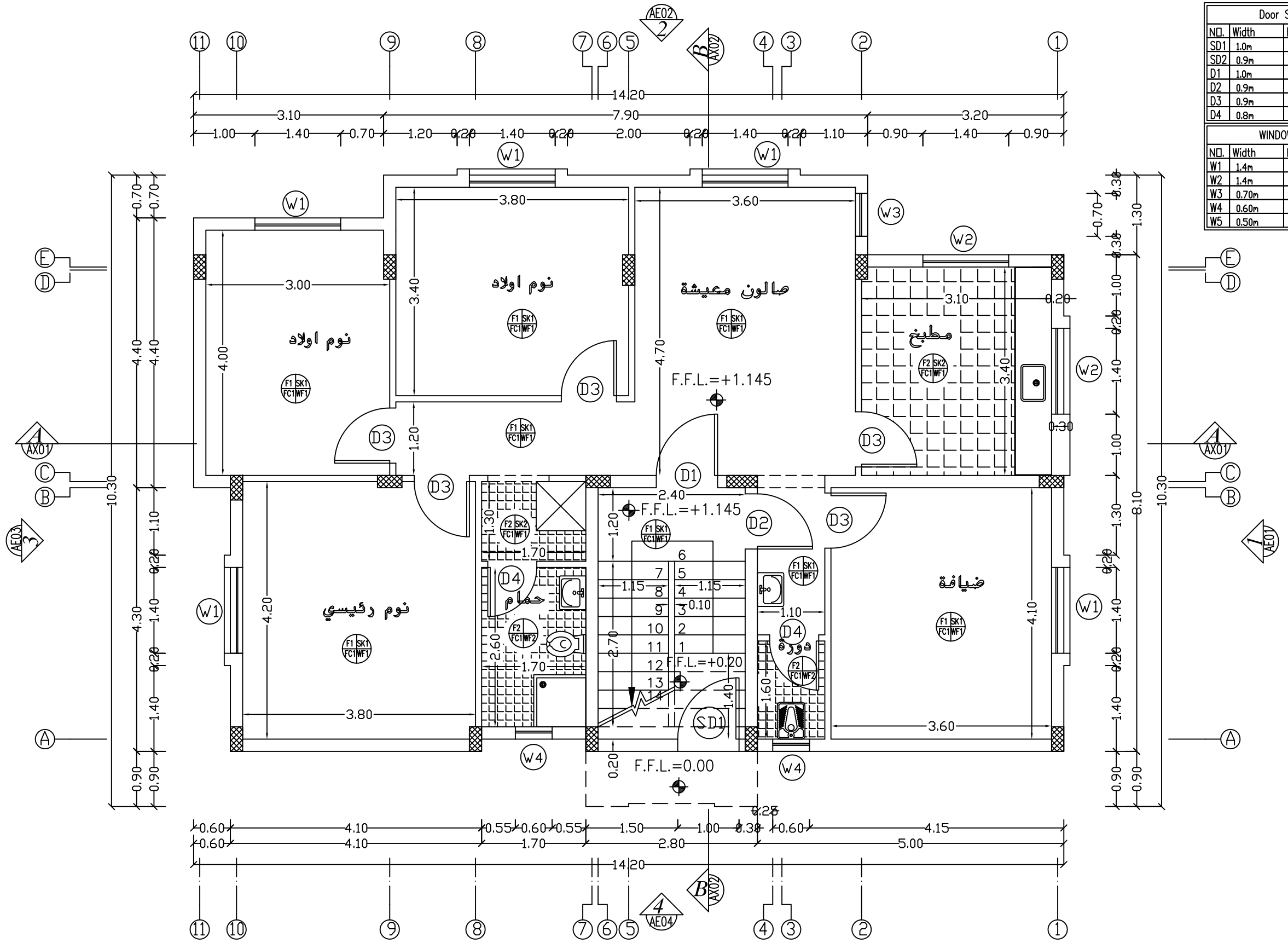
T6–M–01 Legened, General Notes, & List of Mechanical Drawings
T6–M–02 Typical Detail of Manhole & Pipeline
T6–M–03 Drainage System for Ground Floor
T6–M–04 Drainage System for First Floor
T6–M–05 Water System for Ground Floor
T6–M–06 Water System for First Floor
T6–M–07 Water Supply & Distribution Box
T6–M–08 Water Tanks on Stair
T6–M–09 Water System For Typical Floor
T6–M–10 Roof Floor Drainage System

Civil Drawings

T6–C–01 Axies of Columns Necks
T6–C–02 Axies of Columns
T6–C–03 Footings Plan
T6–C–04 Footings Details
T6–C–05 Footings Table
T6–C–06 Secondary Beams Plan & Details
T6–C–07 Columns Table & Details
T6–C–08 Columns & Ground Slab Details
T6–C–09 Main Ground Beam Plan
T6–C–10 Main Ground Beam Details
T6–C–11 Beam Details & Reinforcement For Ground Floor–1
T6–C–12 Beam Details & Reinforcement For Ground Floor–2
T6–C–13 Beam Details & Reinforcement For Ground Floor–3
T6–C–14 Beam Details & Reinforcement For Ground Floor–4
T6–C–15 Ribs Details & Reinforcement For Ground Floor
T6–C–16 Beam Details & Reinforcement For First Floor–1
T6–C–17 Beam Details & Reinforcement For First Floor–2
T6–C–18 Beam Details & Reinforcement For First Floor–3
T6–C–19 Beam Details & Reinforcement For First Floor–4
T6–C–20 Ribs Details & Reinforcement For First Floor

Electrical Drawings

T6–E–01 Legend for Electrical Fitting
T6–E–02 Earthing System
T6–E–03 Main Electrical Incoming and Distributions
T6–E–04 Distribution Boards For First Floor
T6–E–05 Power Outlets Layout For Ground Floor
T6–E–06 Power Outlets Layout For First Floor
T6–E–07 Lighting Layout For Ground Floor
T6–E–08 Lighting Layout For First Floor
T6–E–09 Intercom, TV. and Telephone Layout For Ground Floor
T6–E–10 Intercom, TV. and Telephone For First Floor
T6–E–11 Typical Distribtion Board For Staircase
T6–E–12 Tv., Tel., Sat and Intercom Riser Diagram
T6–E–13 Power Riser Diagram
T6–E–14 Typical Flat Distribtion Board
T6–E–15 Main Distribution Board, Single Line Diagram



GROUND FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

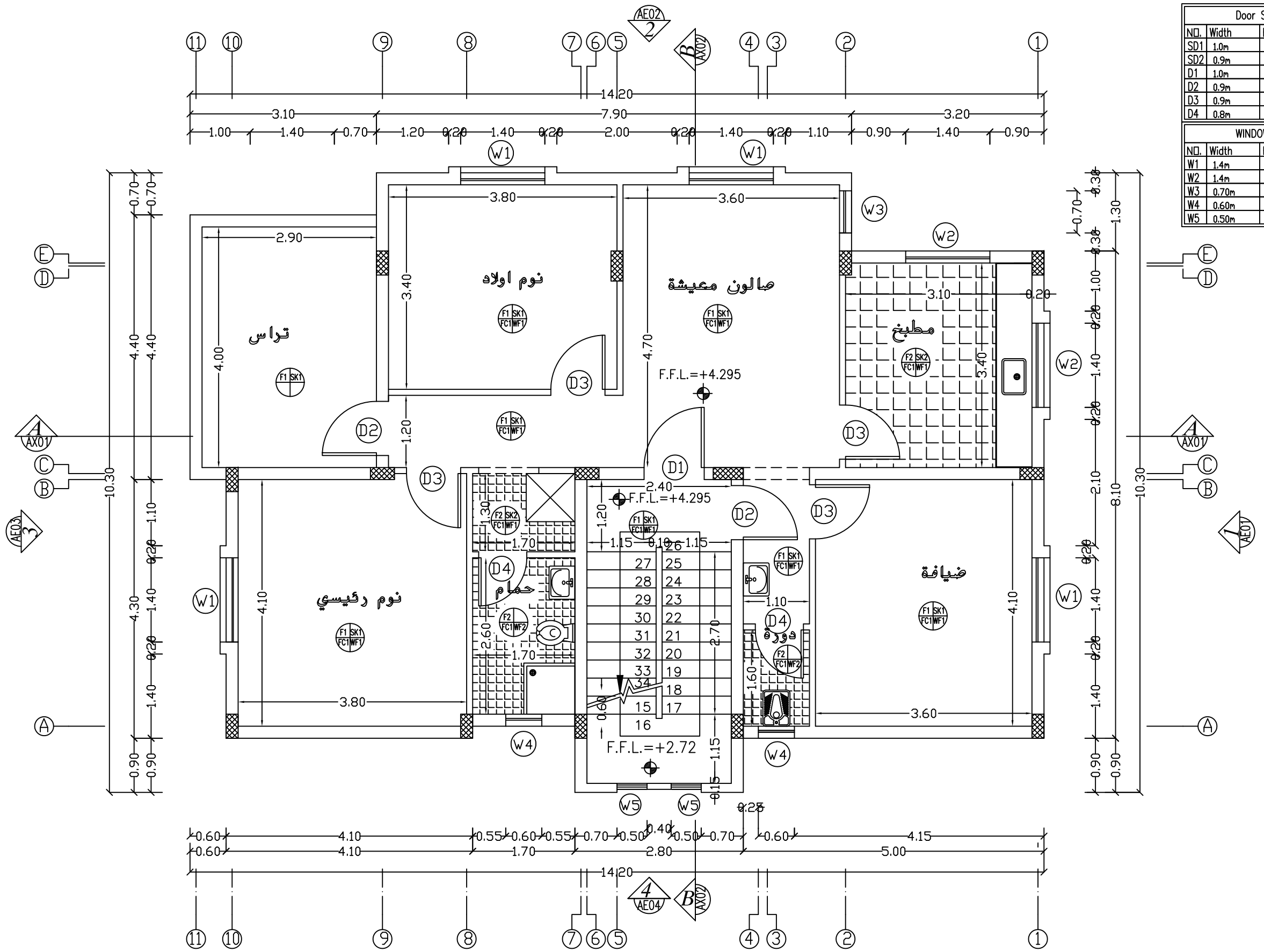
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Ground Floor Plan
Type L

Symbol	Drawing No.:	Rev. No.
RES	T6-A01	R1



FIRST FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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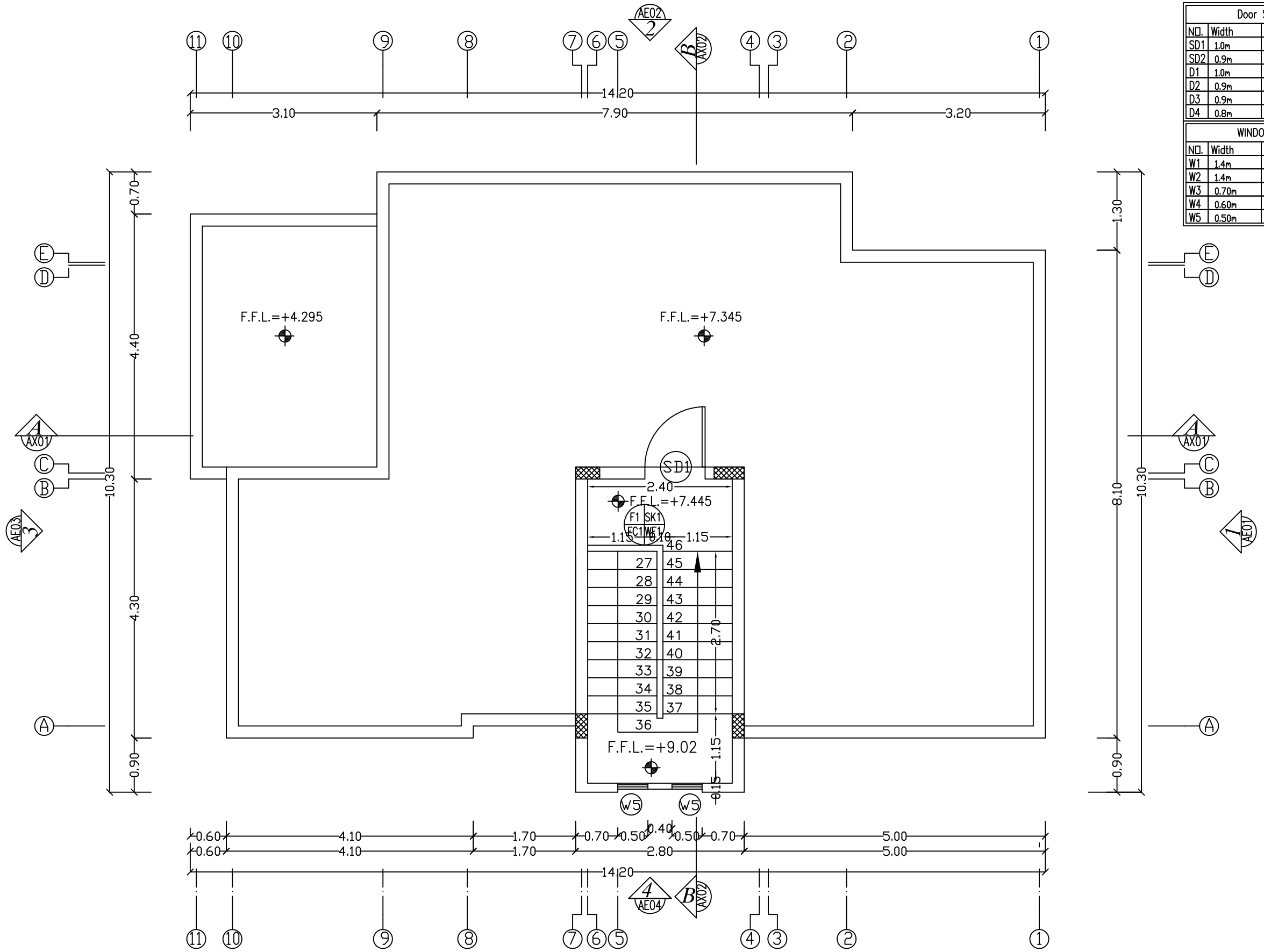
IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

First Floor Plan
Type S

Symbol	Drawing No.:	Rev. No.
RES	T6-A02	R1



ROOF FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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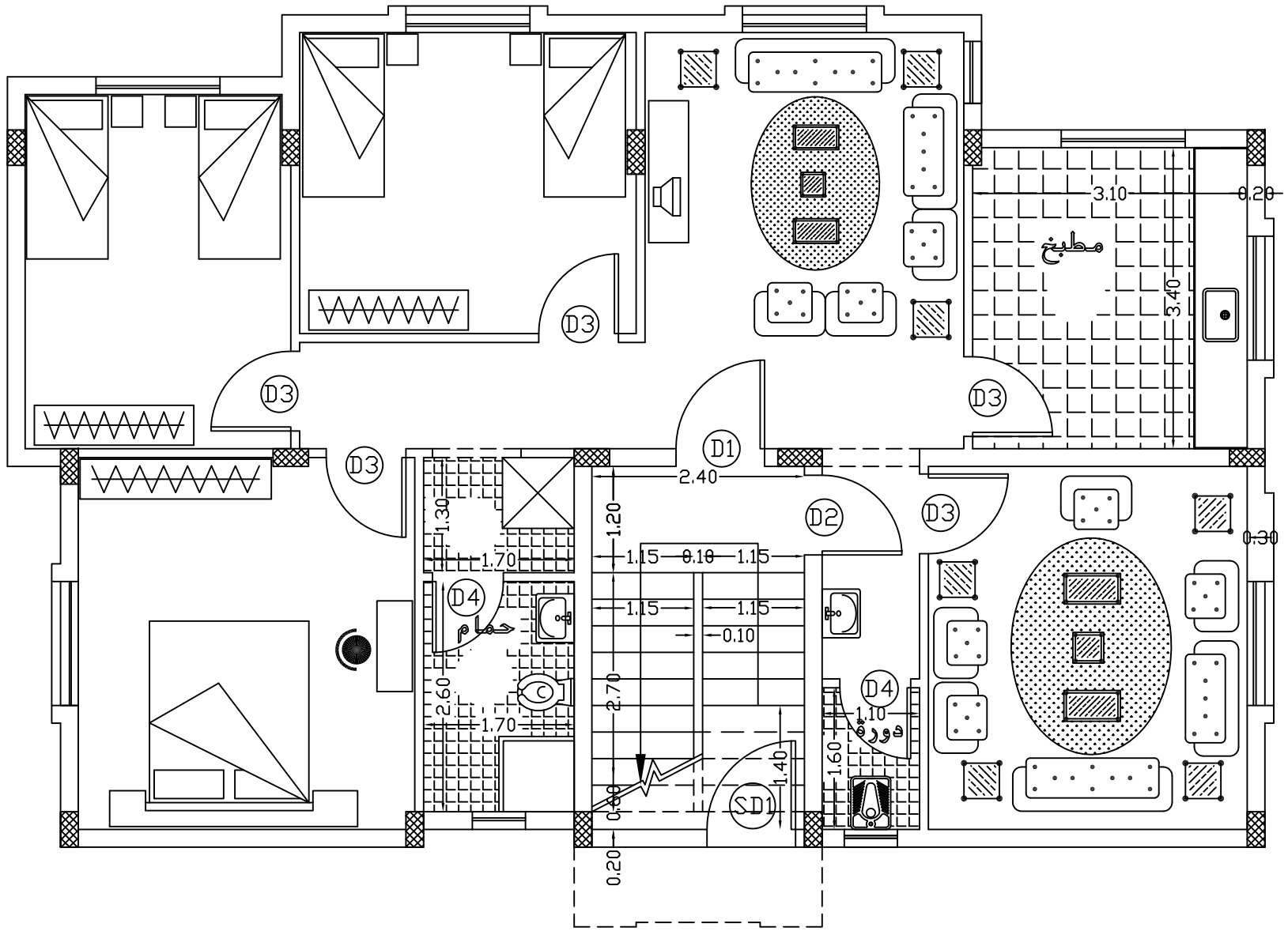
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Roof Floor Plan
Type S

Symbol	Drawing No.:	Rev. No.
RES	T6-A03	R1



FURNITURE PLAN TYPICAL FLOOR

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Furniture Plan Typical Floor
Type L

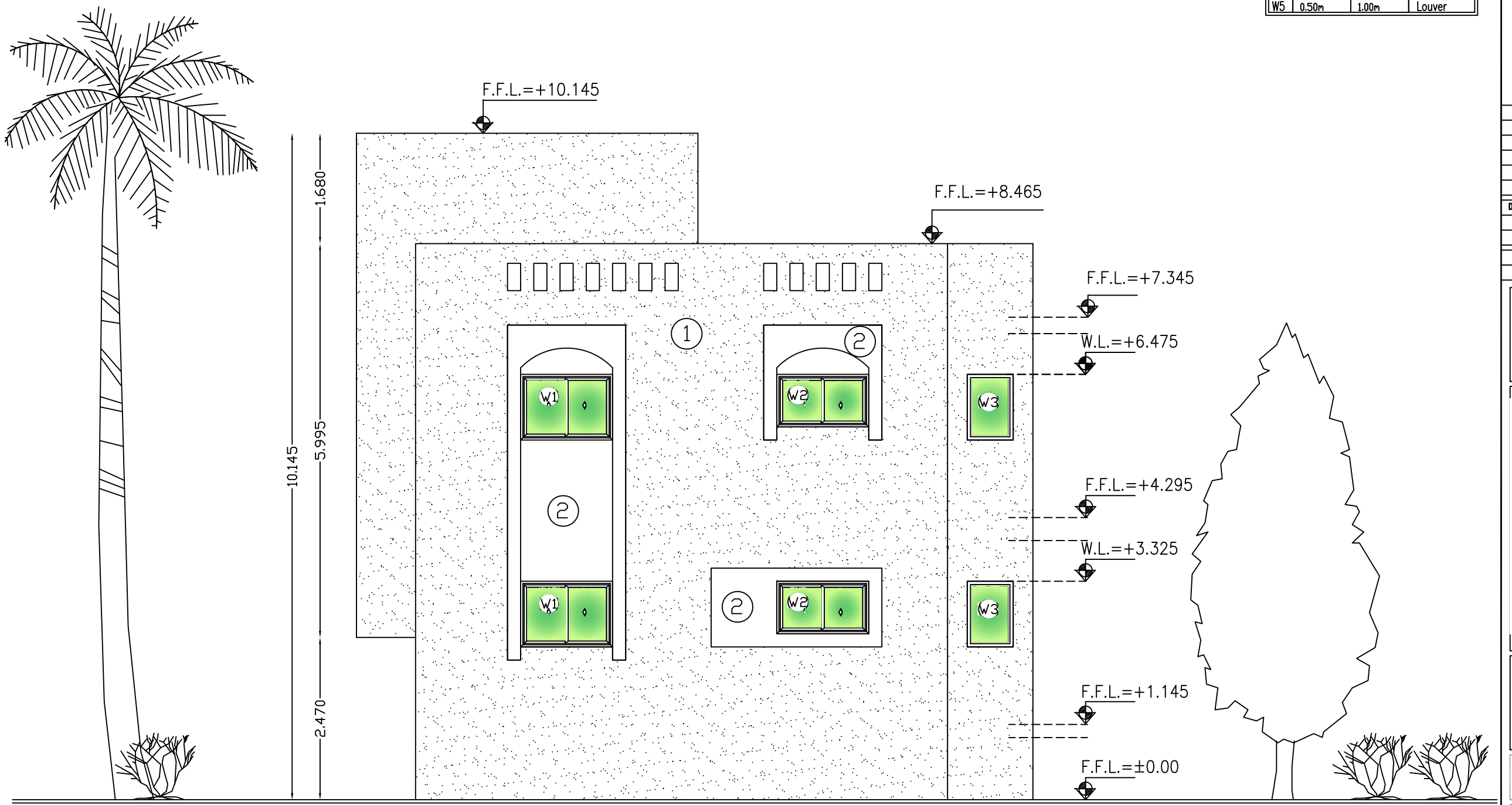
Symbol	Drawing No.:	Rev. No.
RES	T6-A04	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Main Elevation

NO. 1

No.	Description	Date	By
4			
3			
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1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Elevation NO. 1

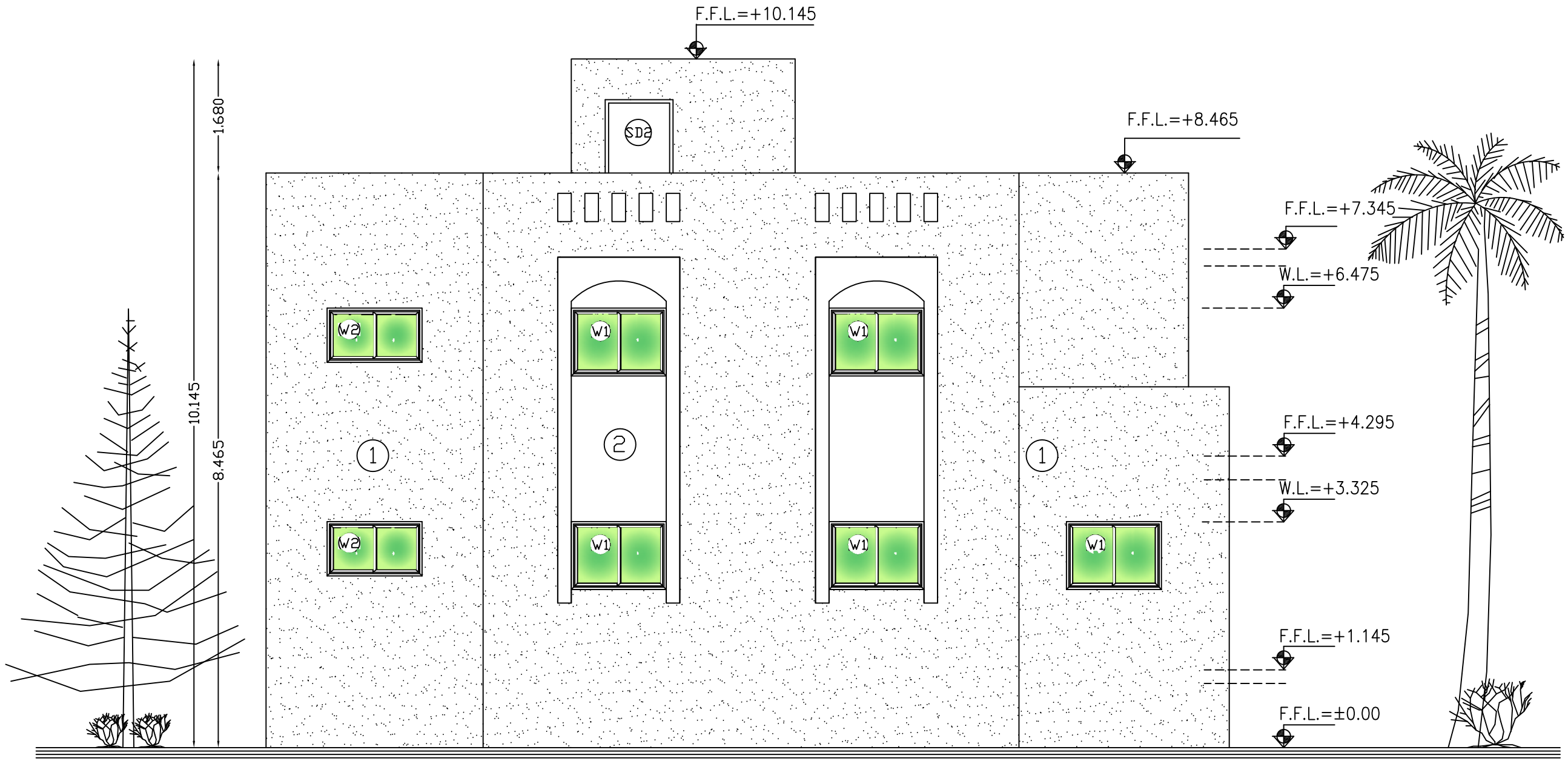
Symbol	Drawing No.:	Rev. No.
RES	T6-A05	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Right Side Elevation

NO. 2

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Right Side Elevation NO. 2

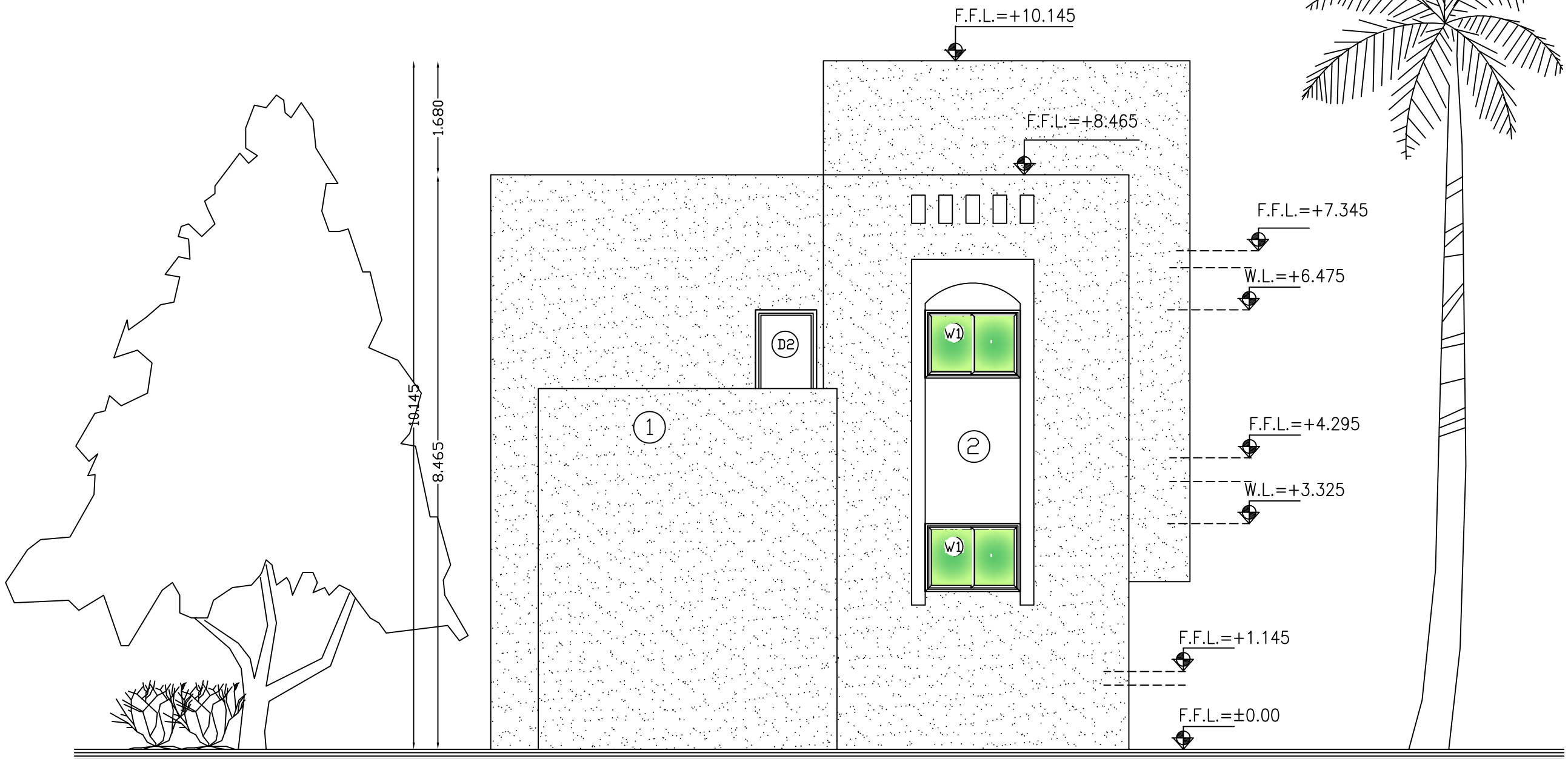
Symbol	Drawing No.:	Rev. No.
RES	T6-A06	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Rare Elevation

NO. 3

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Rare Elevation NO. 3

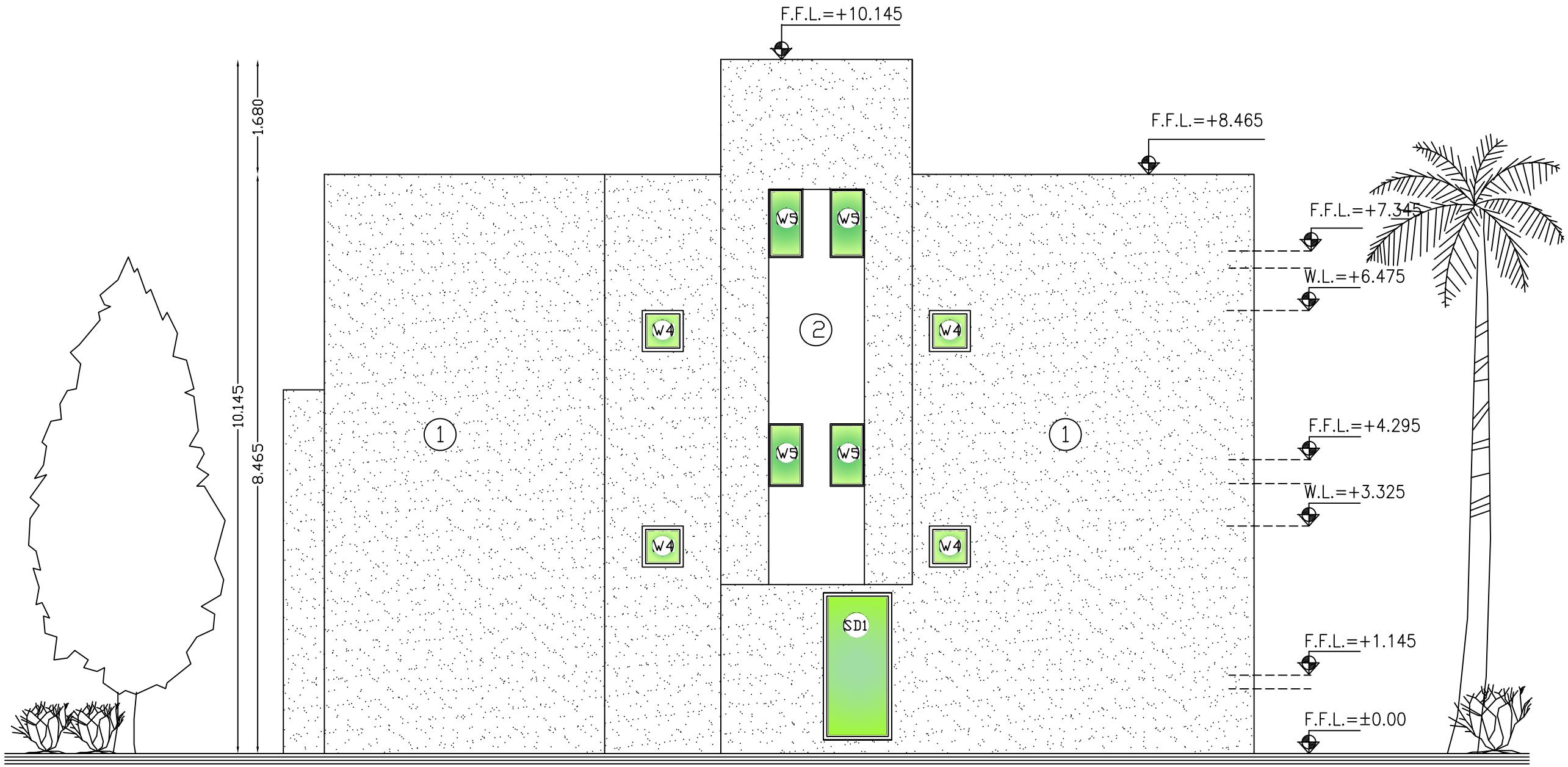
Symbol	Drawing No.:	Rev. No.
RES	T6-A07	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Left Side Elevation

NO. 4

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

اللجنة السعودية لإغاثة الشعب الفلسطيني

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Left Side Elevation NO. 4

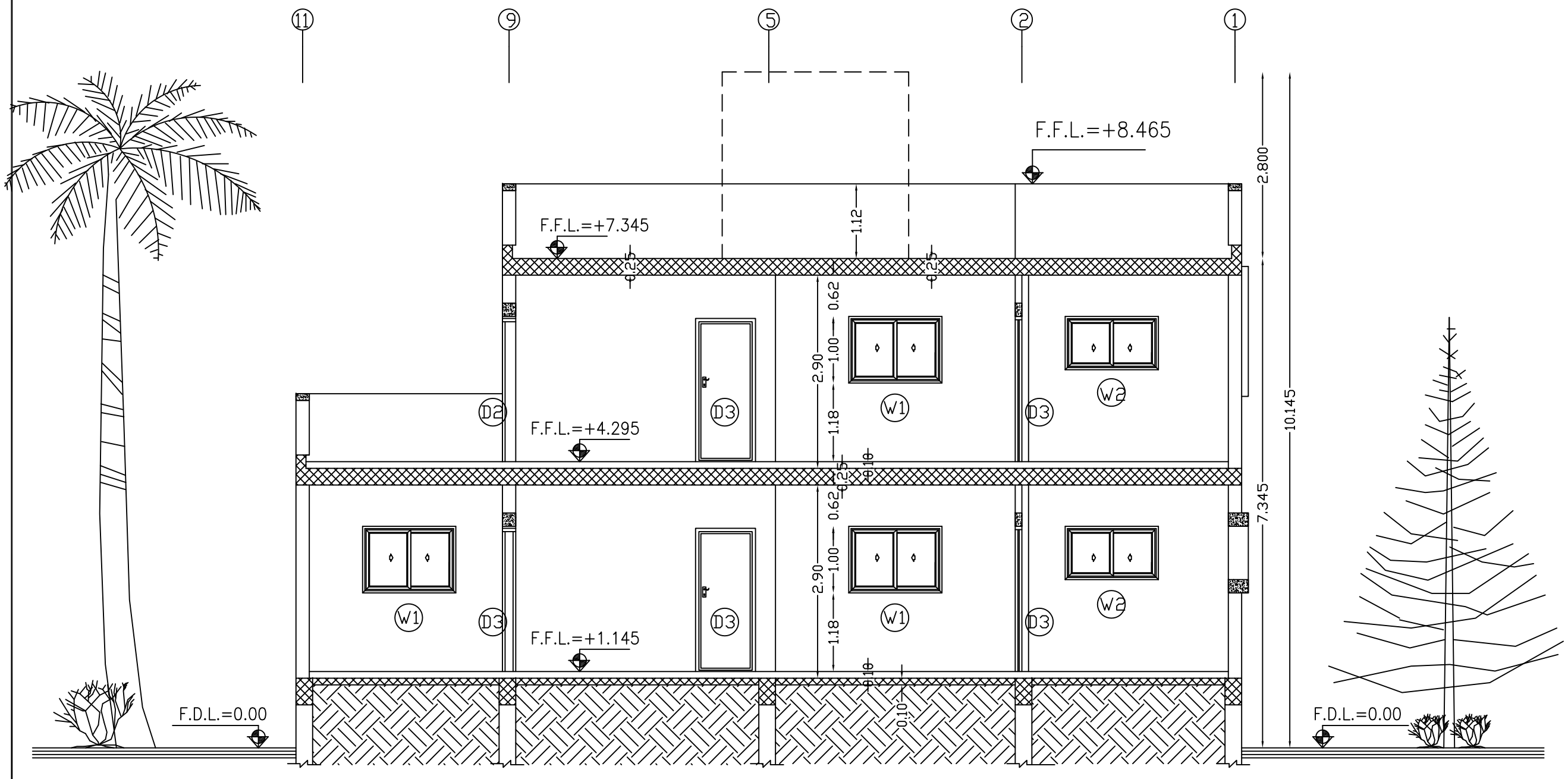
Symbol	Drawing No.:	Rev. No.
RES	T6-A08	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Section A____A

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

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PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Section A----A

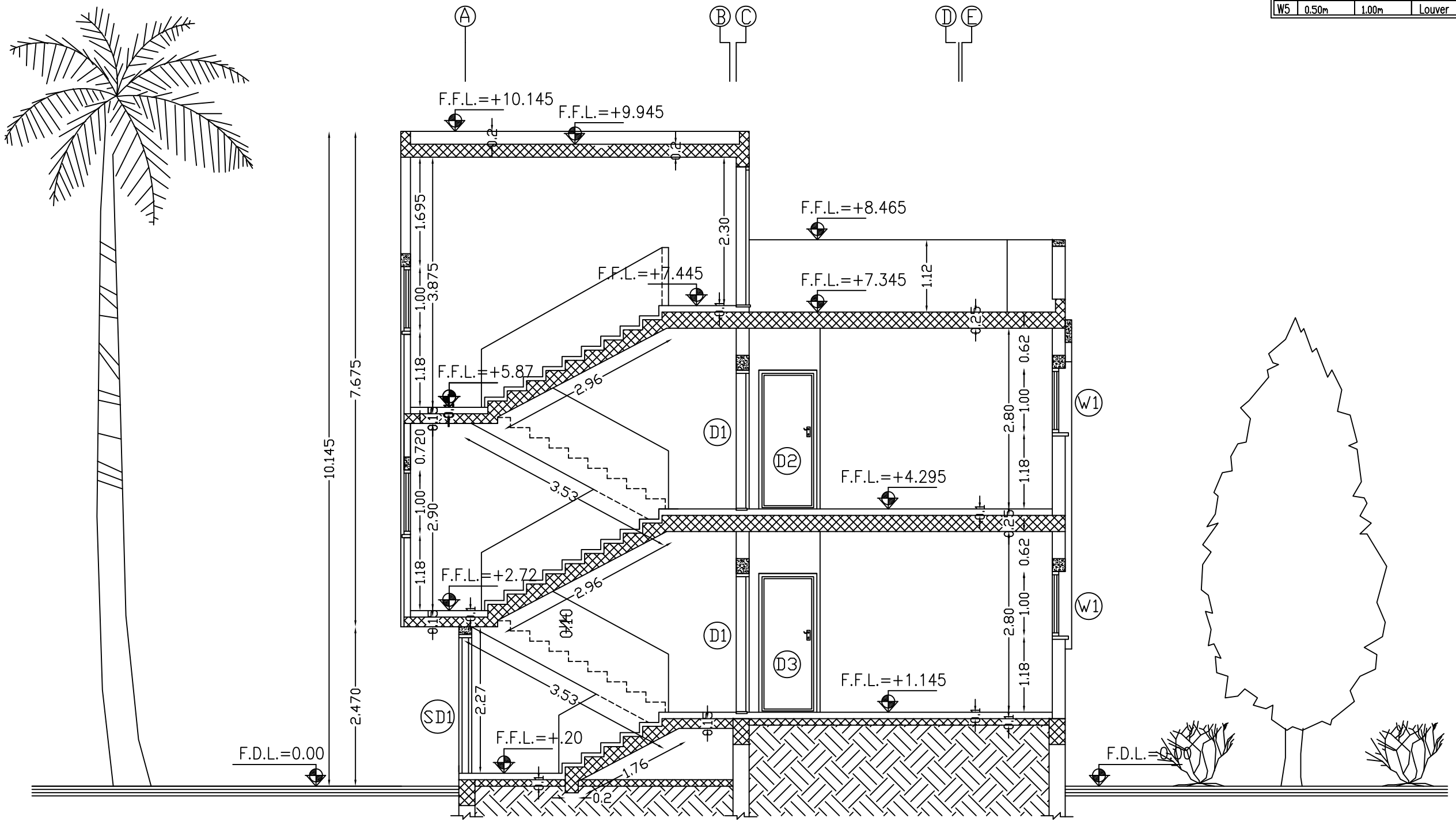
Symbol	Drawing No.:	Rev. No.
RES	T6-A09	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Section B____B

4			
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No.	Description	Date	By

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Section B----B

Symbol	Drawing No.:	Rev. No.
RES	T6-A10	R1

MECHANICAL DRAWINGS

LS (TYPE 6)

LEGEND, ABBREVIATIONS AND SYMBOLS

BD	⊠	BALCONY DRAIN
BDR		BALCONY DRAIN RISER
CW		COLD WATER PIPE
MH	◯	MANHOLE
RW		RAIN WATER PIPE
——		Cold water
- - -		Hot water
WDB		BOX
– ⟍◯		FLOAT VALVE
– –		GATE VALVE
–NC–		NORMALLY CLOSED VALVE
⋈		GLOBE VALVE
⋈		BUTTERFLY VALVE
⋈		SOLINOID VALVE
R.W.P		RAIN WATER PIPE WITH FLOOR TRAP
————		2" UPVC DRINAG PIPE
————		4" UPVC DRAINAG PIPE
————		6" UPVC PIPE (MANHOLE CONECTION)
F.T		4''UPVC B.D.P BALCONY DRAIN PIPE
○○		4"UPVC RISER SOLID, FLUID WASTE
F.T		FLOOR TRAP
⊘		WATER METER 3/4"

SANITARY FIXTURES CONNECTION

UNLESS OTHERWISE NOTED THE CONNECTIONS FOR THE FIXTURE UNITS WILL BE AS FOLLOWS .

KS	KITCHEN SINK	2" (50 mm)
JS/LS	JANITOR SINK/LAVATORY	2" (50 mm)
WB/LAV	HAND WASH BASIN	2" (50 mm)
WC	WATER CLOSET	4" (100 mm)
W/M	WASHING MACHINE	2" (50 mm)
FD	FLOOR DRAIN	3" (75 mm)

NOTES:

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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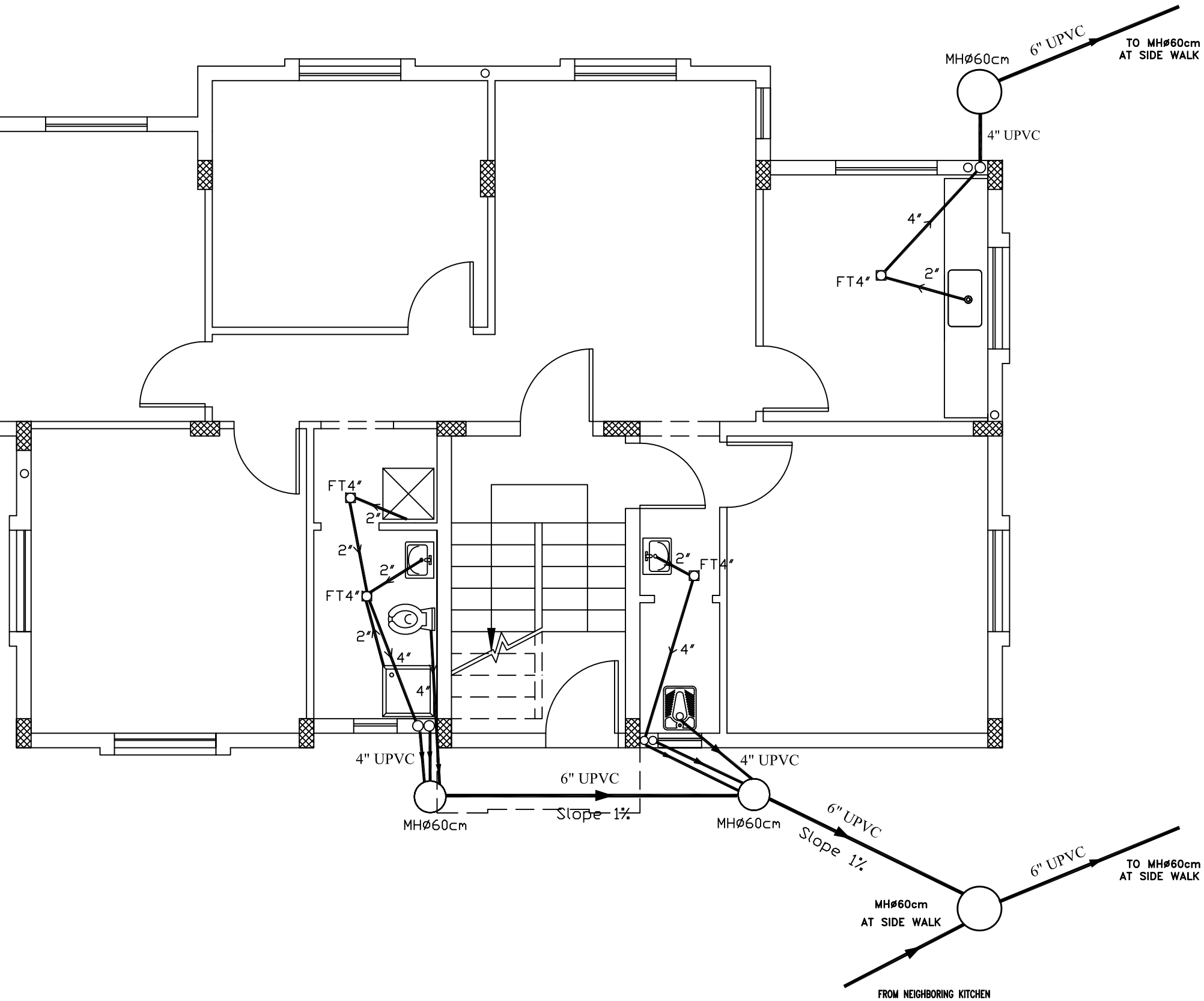
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Legend, General Notes & List of Mechanical Drawings

Symbol	Drawing No.:	Rev. No.
RES	T6 - M 01	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

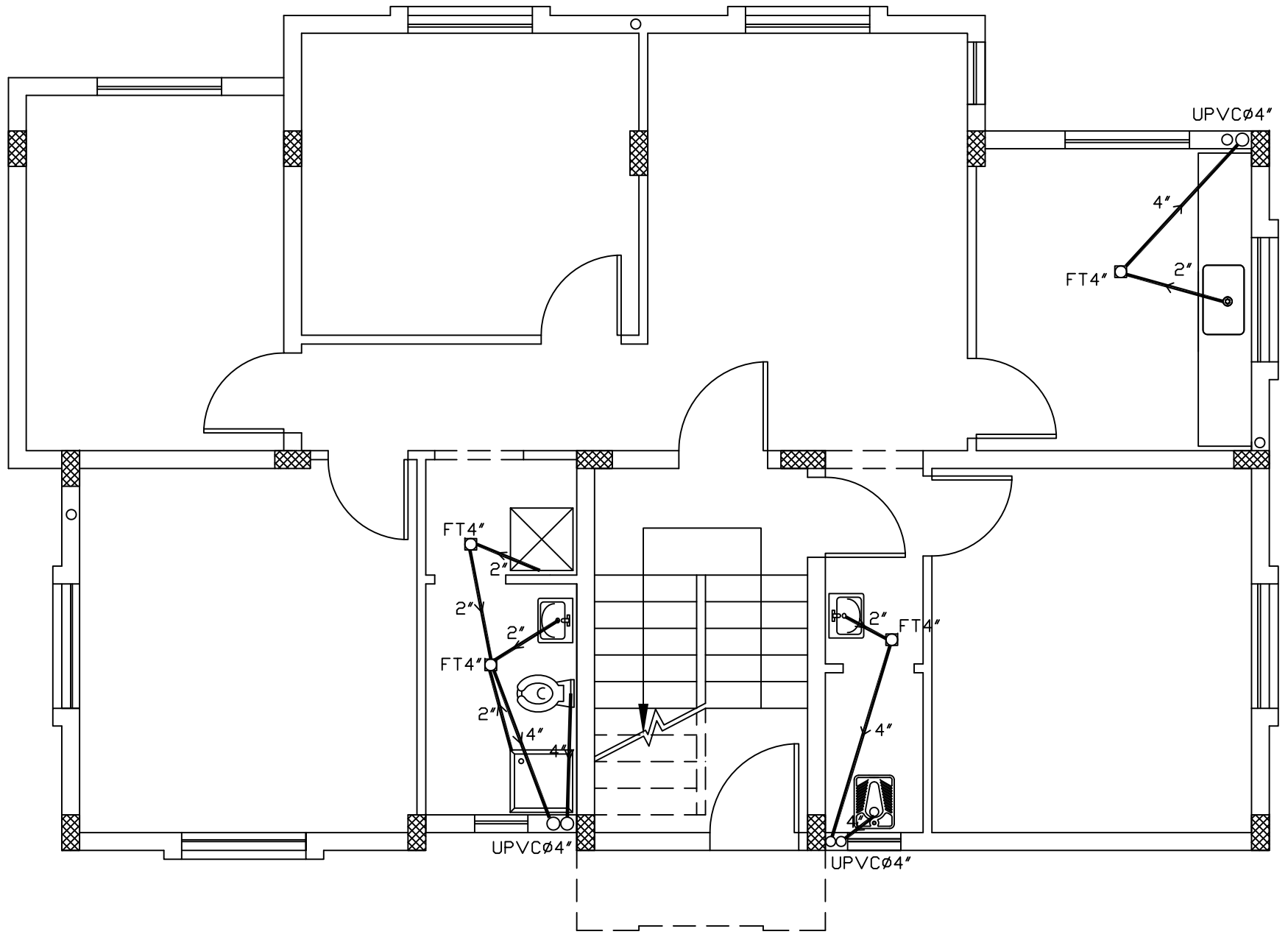
UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Typical Detail Of Manhole & Pipeline

Symbol	Drawing No.:	Rev. No.
RES	T6 - M 02	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

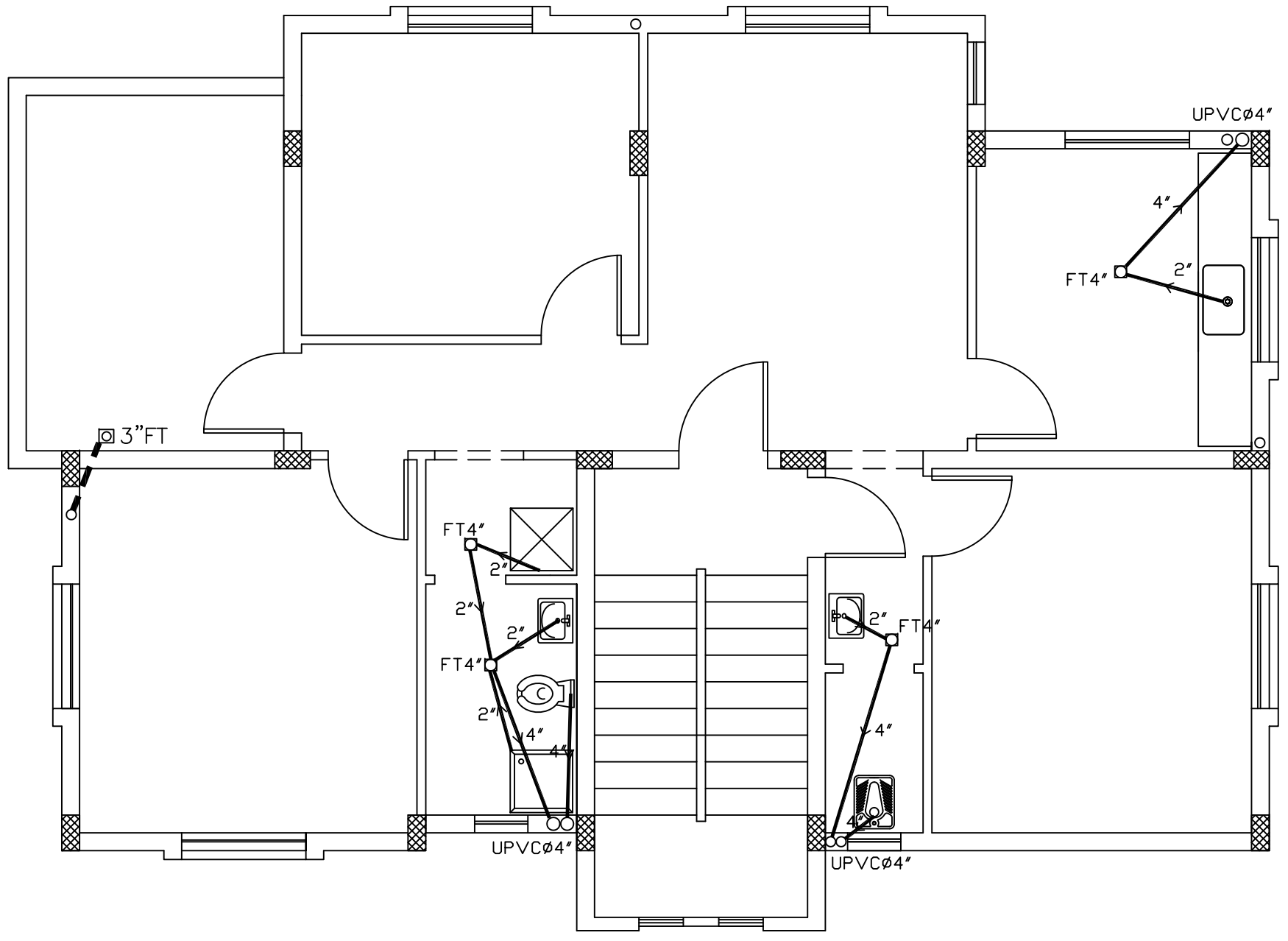
UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Drainage System for Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	T6 - M 03	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

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PALESTINIAN NATIONAL AUTHORITY

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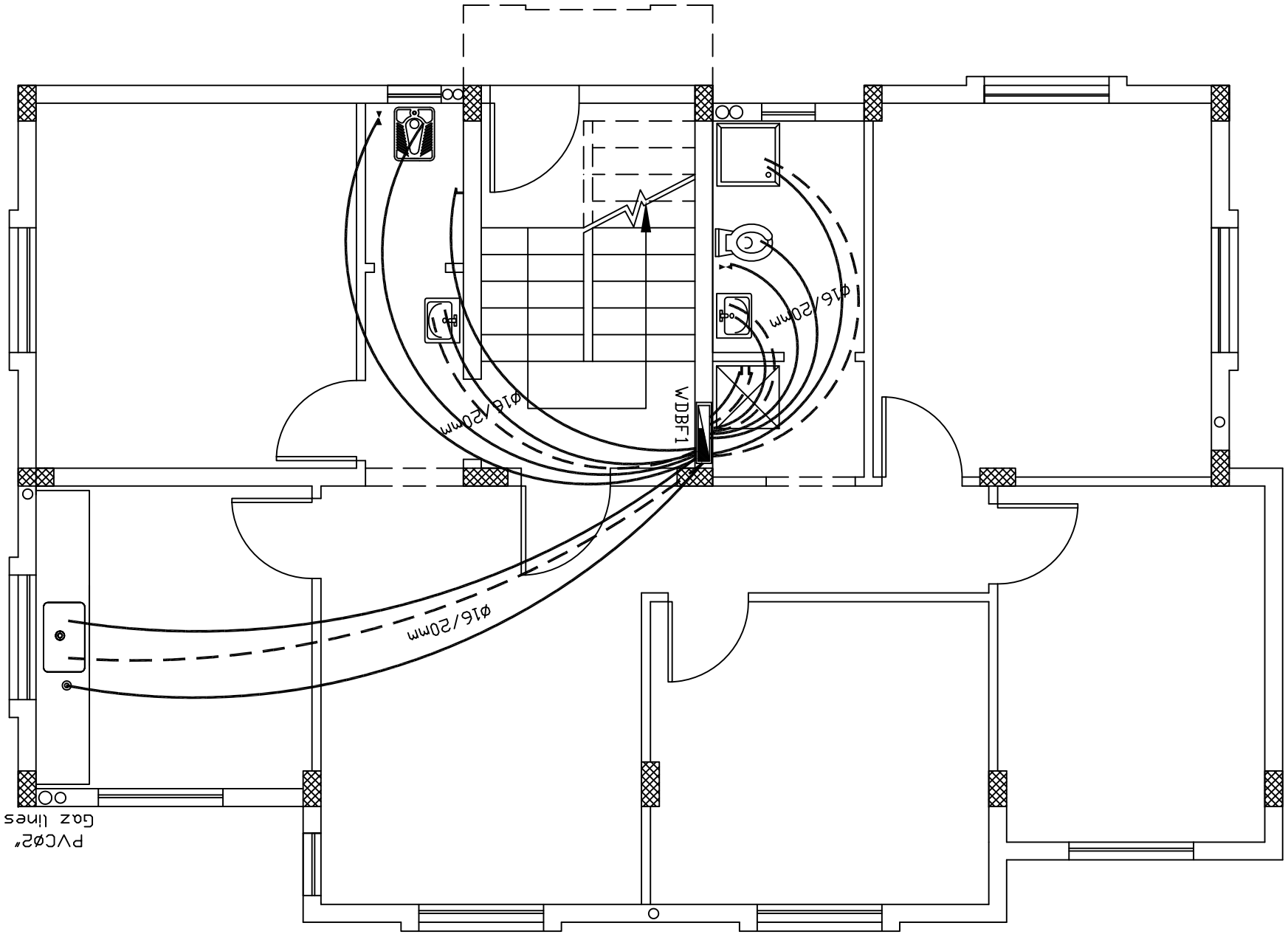
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Drainage System for First Floor

Symbol	Drawing No.:	Rev. No.
RES	T6 - M 04	R1



NOTES:

	COLD (GOLLANI)
	HOT (GOLLANI)
EWH	WATER HEATER 150 LITERS
WDB	BOX
F.H	2" HOSE REEL 3/4
	2"w.o WASH OUT VALVE
3/4" A.V	WATER AIR VENT
3/4" w.i	
	R.W.T & FH. L.
	WATER METER 3/4"

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	Revisions		
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Designed	Drawn	Checked	Approved
Date	File Name		Scale

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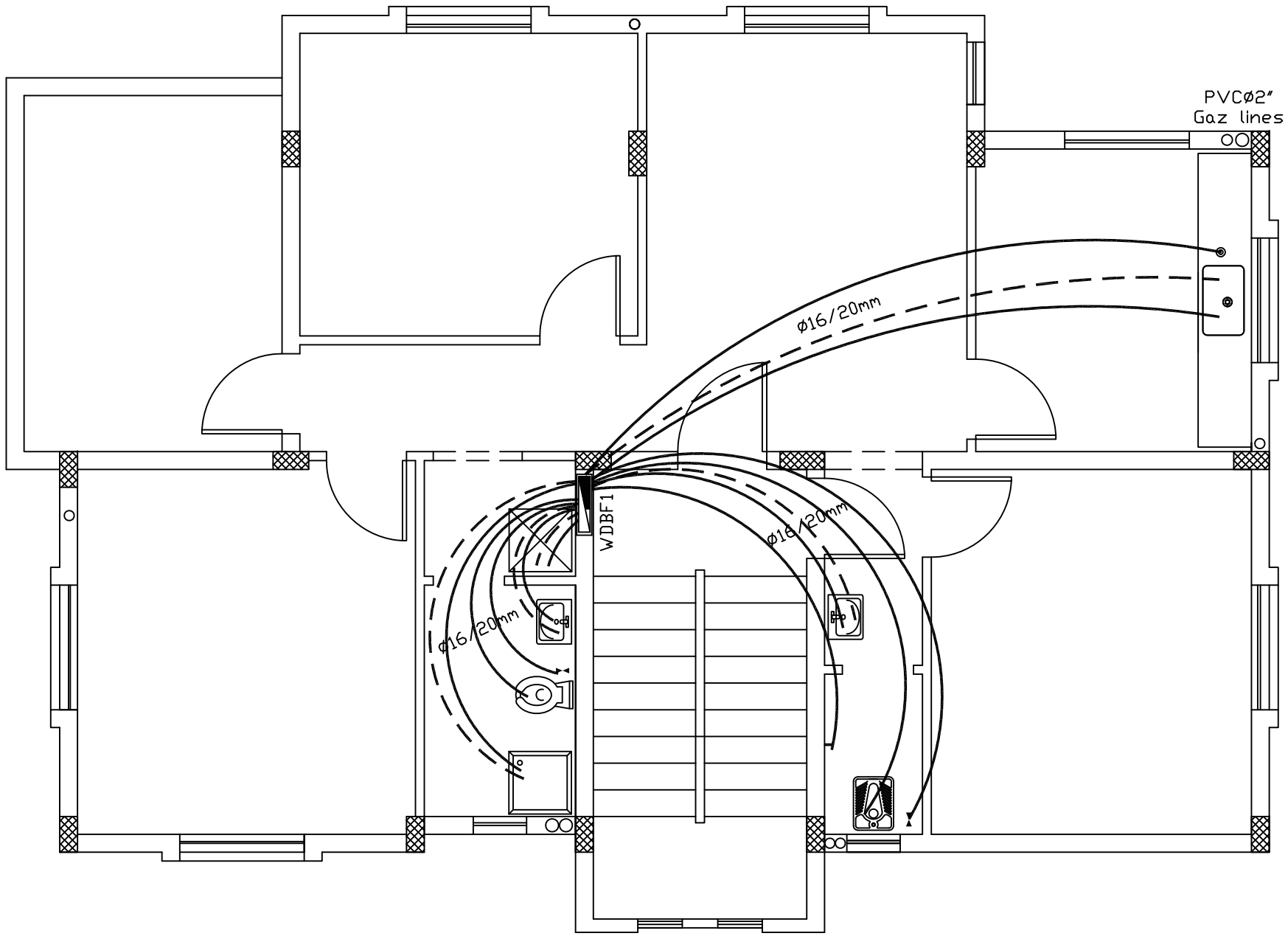
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Water System for Ground Floor

Symbol	Drawing No.: T6 - M 05	Rev. No.
RES		R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

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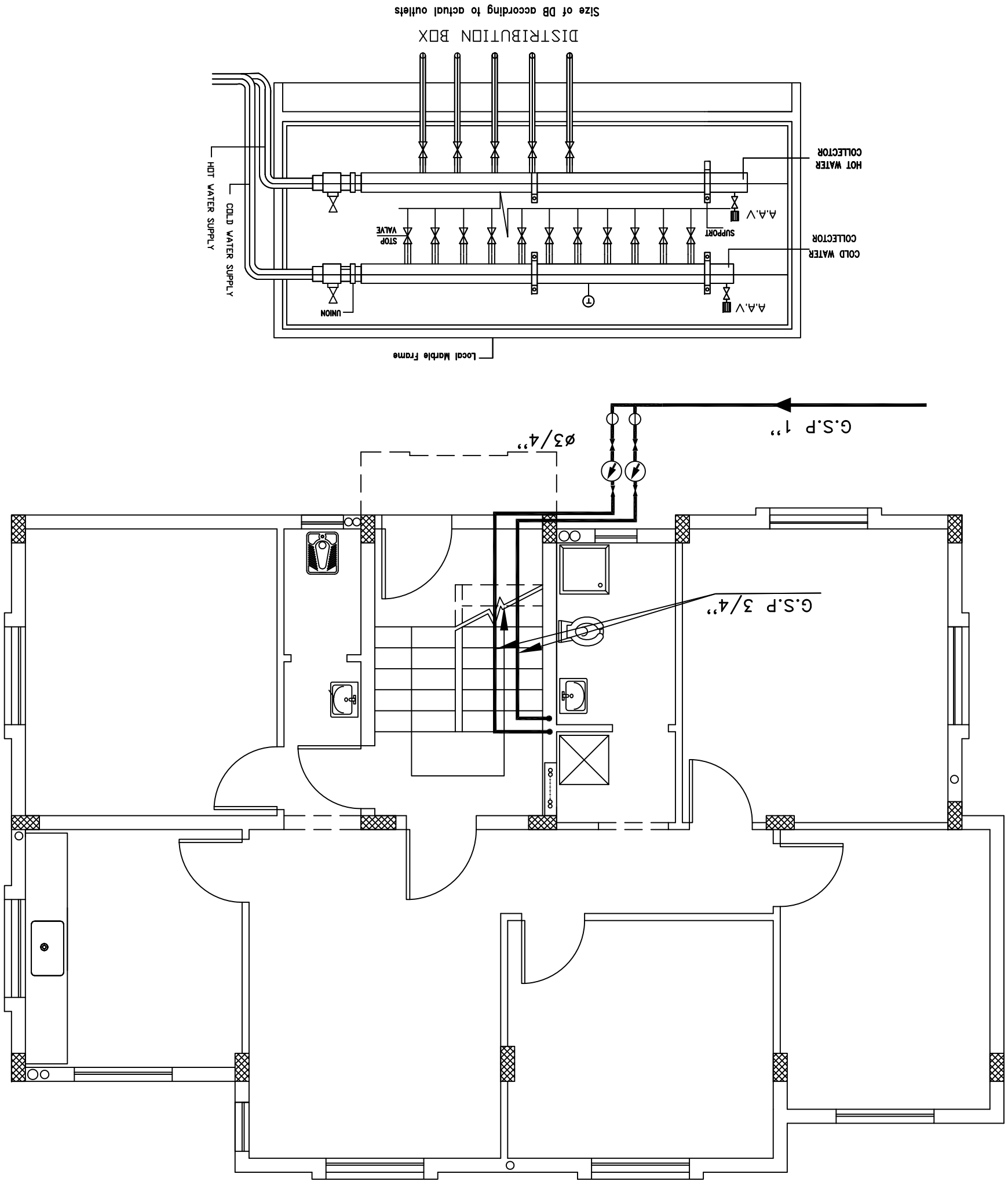
IN RAFAH

Water System for First Floor

Symbol	Drawing No.:	Rev. No.
RES	*T6 - M 06*	R1



NOTES:

- COLD (GOLLANI)
- ---- HOT (GOLLANI)
- EWH WATER HEATER 150 LITERS
- WDB BOX
- F.H 2''
- HOSE REEL 3/4
- ⧓ 2''w.o WASH OUT VALVE
- 3/4'' A.V WATER AIR VENT
- 3/4'' w.i
- R.W.T & FH. L.
- WATER METER 3/4''

Revisions			
No.	Description	Date	By
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Designed	Drawn	Checked	Approved
Date	File Name		Scale

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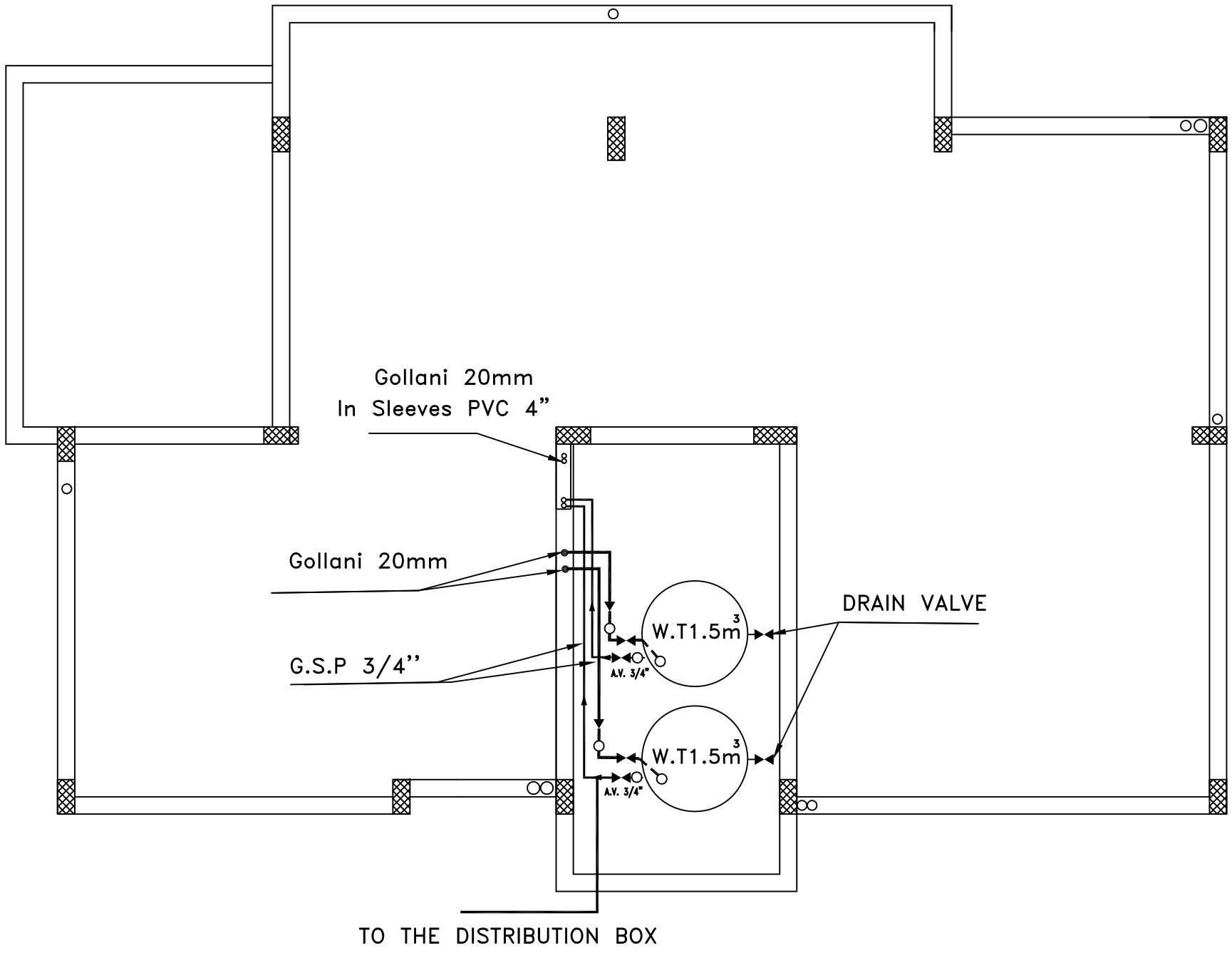
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water Supply And Distribution Box

Symbol	Drawing No.: T6 - M 07	Rev. No.
RES		R1



NOTES:

- COLD (GOLLANI)
- HOT (GOLLANI)
- EWH — WATER HEATER 150 LITERS
- WDB — BOX
- F.H 2''
- HOSE REEL 3/4
- 2''w.o WASH OUT VALVE
- 3/4'' A.V WATER AIR VENT
- 3/4'' w.i
- R.W.T & FH. L.
- WATER METER 3/4"

No.	Description	Date	By
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Date	File Name	Scale

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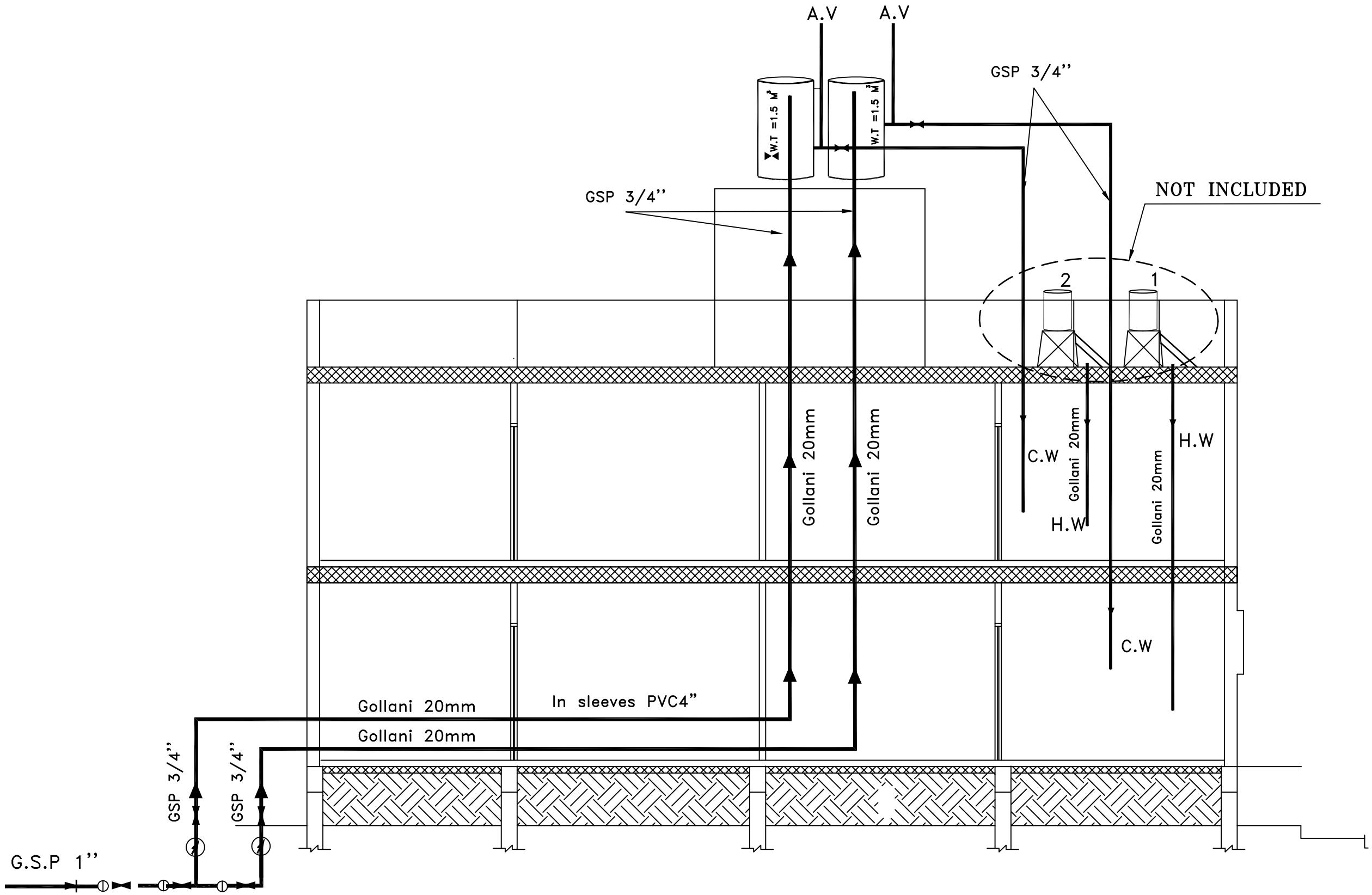
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water Tanks on Stair

Symbol	Drawing No.:	Rev. No.
RES	*T6 - M 08*	R1



NOTES:

- COLD (GOLLANI)
- HOT (GOLLANI)
- (EWH) WATER HEATER 150 LITERS
- WDB BOX
- F.H 2"
- HOSE REEL 3/4
- 2"w.o WASH OUT VALVE
- 3/4" A.V WATER AIR VENT
- 3/4" w.i R.W.T & FH. L.
- WATER METER 3/4"

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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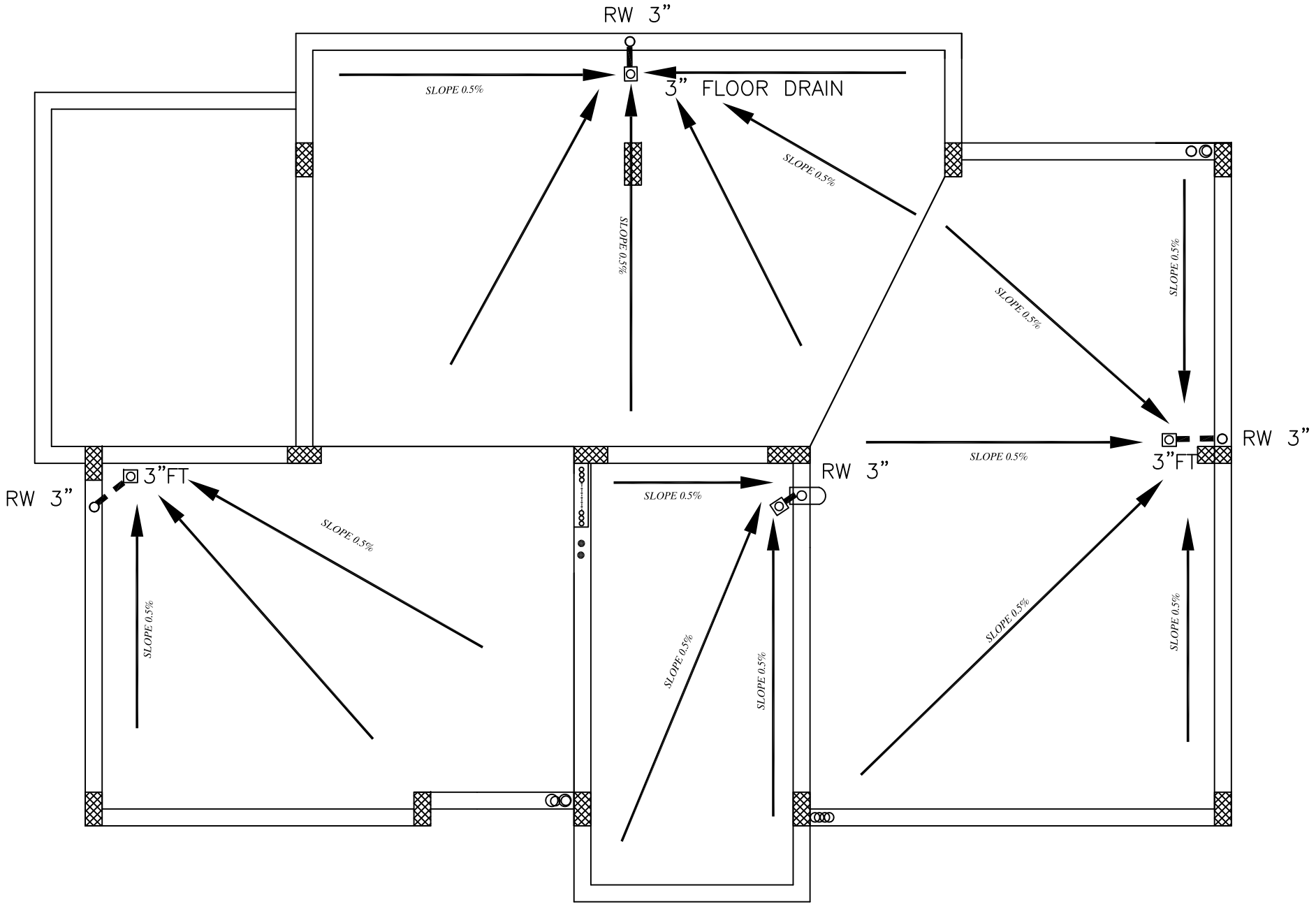
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Water System For Typical Floor

Symbol	Drawing No.:	Rev. No.
RES	*T6 - M 09*	R1



NOTES:

——— COLD (GOLLANI)

- - - - HOT (GOLLANI)

EWH WATER HEATER 150 LITERS

WDB BOX

F.H 2"

HOSE REEL 3/4

2"w.o WASH OUT VALVE

3/4" A.V WATER AIR VENT

3/4" w.i

R.W.T & FH. L.

WATER METER 3/4"

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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PROJECT:-

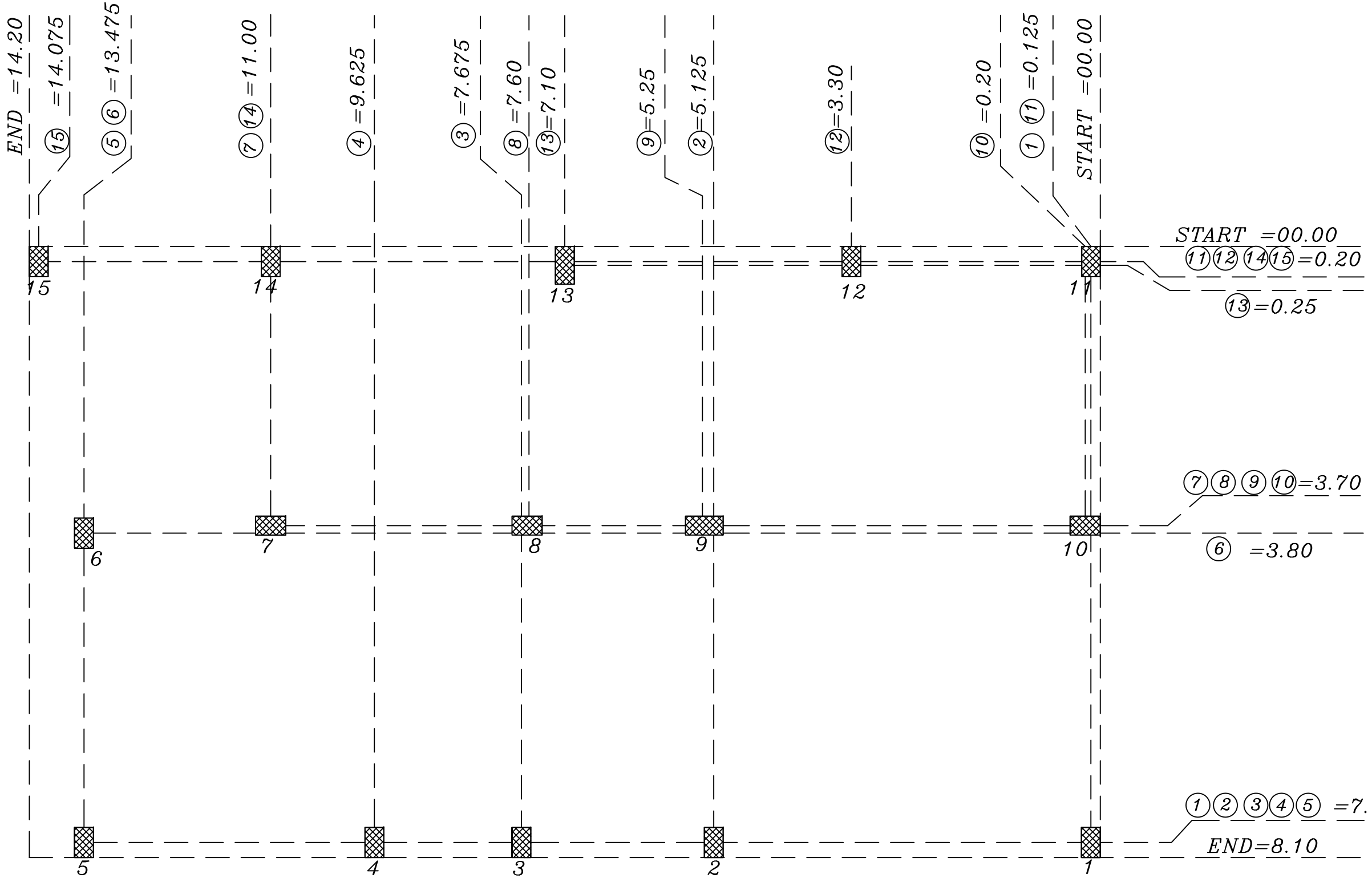
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Roof Floor Drainage System

Symbol	Drawing No.:	Rev. No.
RES	T6 - M 10	R1

CIVIL DRAWINGS

LS (Type 6)



Axies Of Columns Necks

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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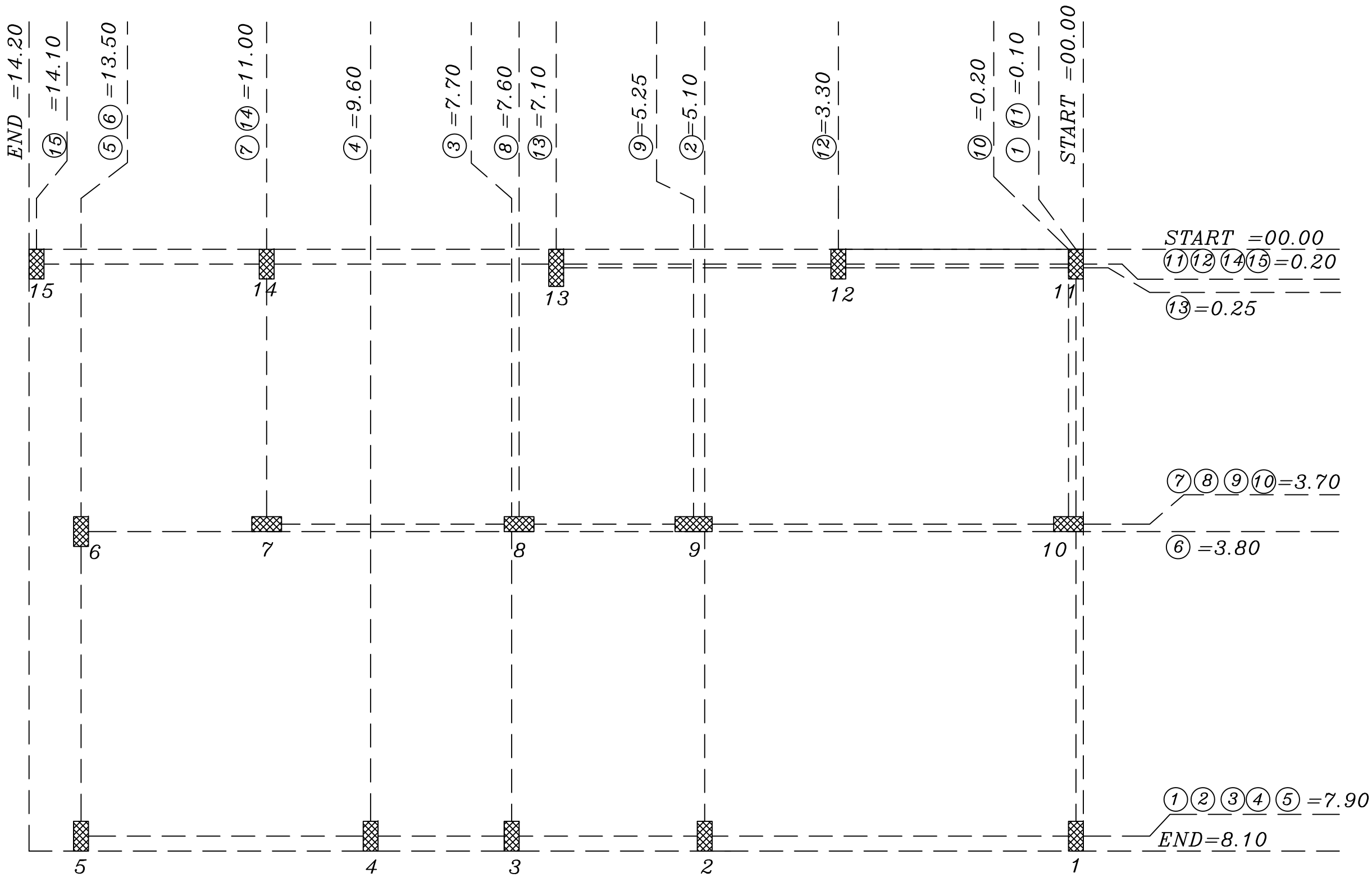
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Axies Of Column Necks

Symbol	Drawing No.	Rev. No.
RES	T6-C 01	R1



Axies Of Columns

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
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* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date	By
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Revisions

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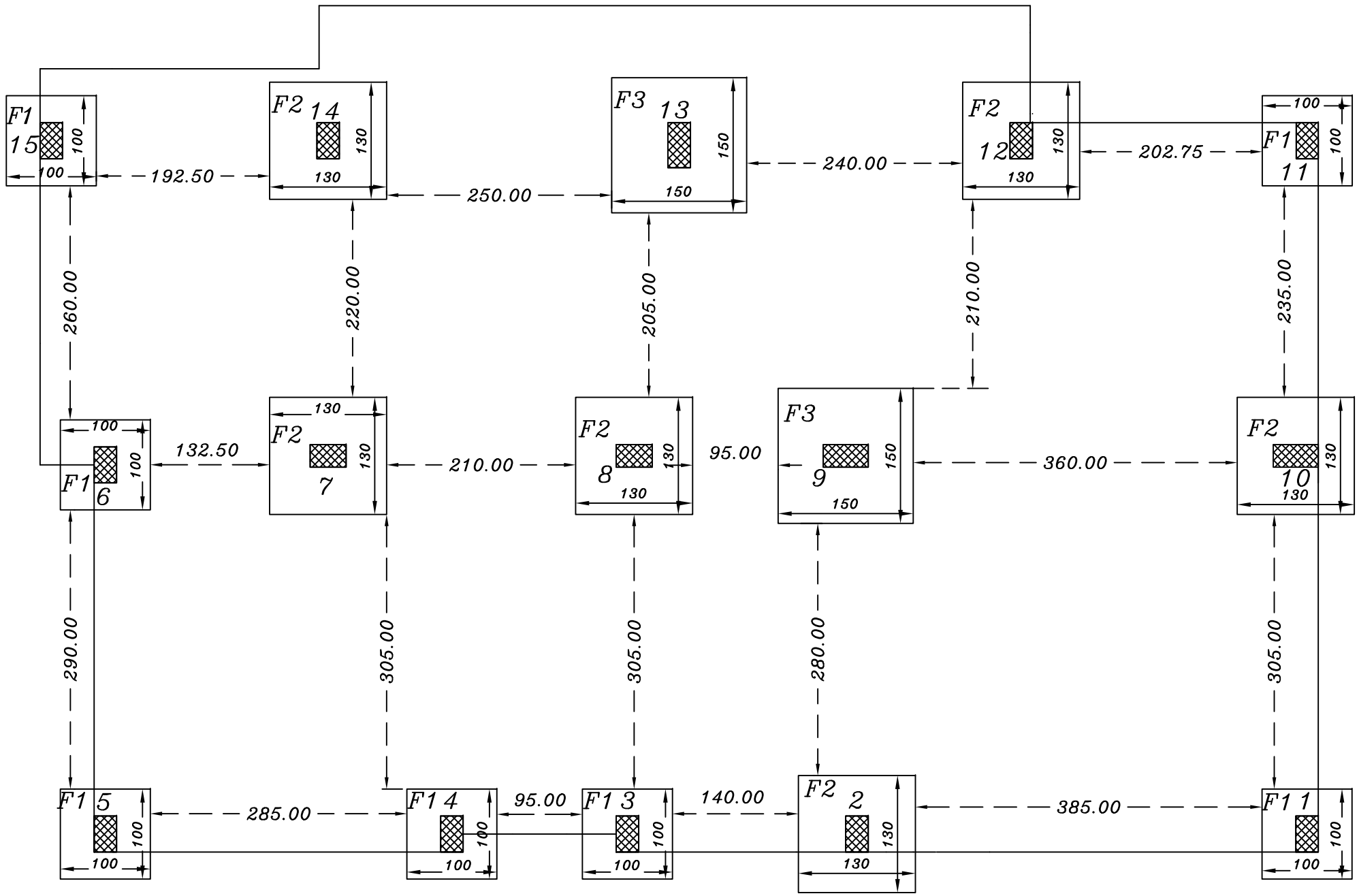
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Axies Of Columns

Symbol	Drawing No.	Rev. No.
RES	T6- C 02	R1



Footings Plan

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

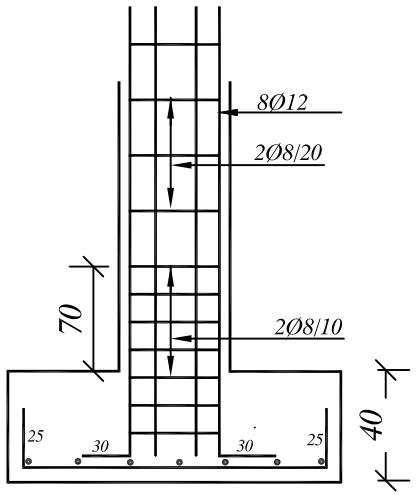
IMPLEMENTED BY:

UNDP

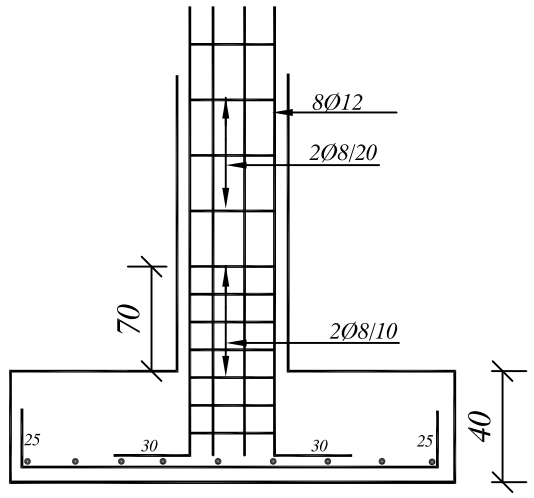
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Footings Plan

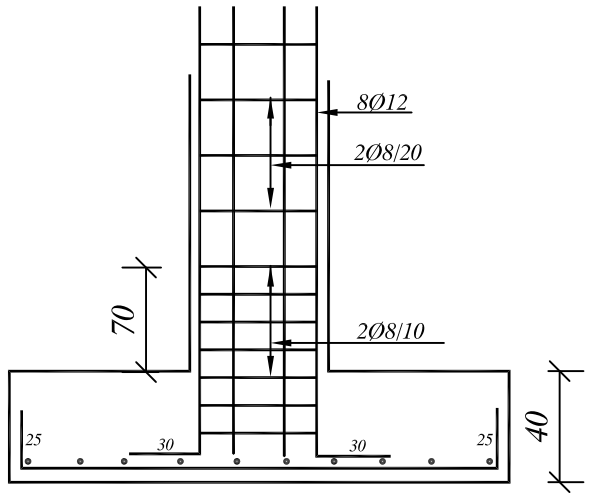
Symbol	Drawing No.	Rev. No.
RES	T6- C 03	R1



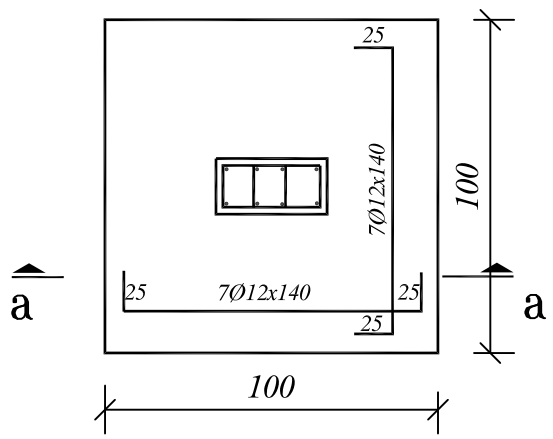
SECTION (a-a)



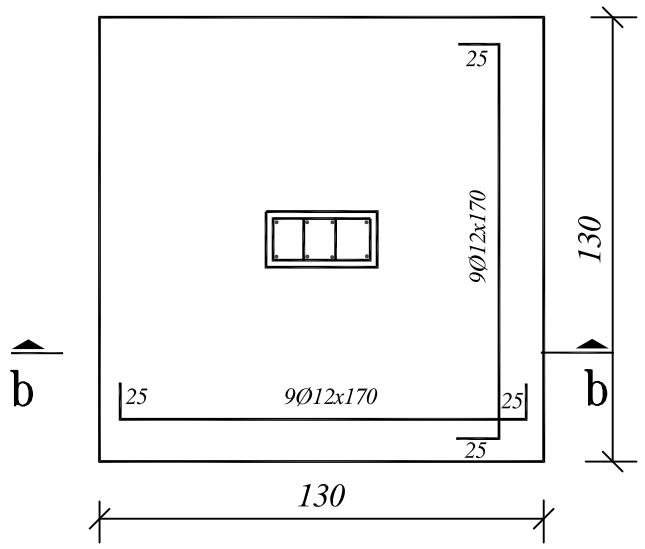
SECTION (b - b)



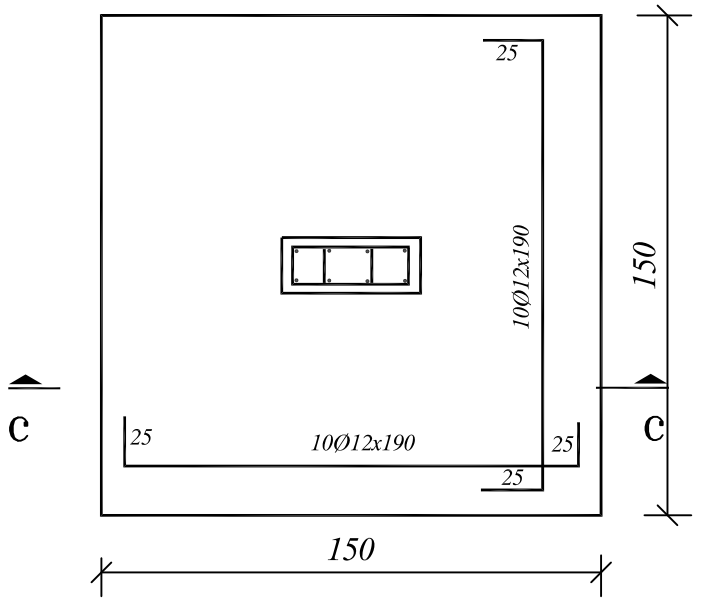
SECTION (c - c)



TYPICAL DETAIL IN F1



TYPICAL DETAIL IN F2



TYPICAL DETAIL IN F3

Footings Details

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
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  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Footings Details

Symbol	Drawing No.	Rev. No.
RES	T6- C 04	R1

Type	Column NO.	Number	Size	Reinforcement	Bar Shape & Length
F1	1-3-4-5-6-11-15	7	100 x 100 x 40	7Ø12x 140cm (Long. & Trav.)	25 — 90 — 25
F2	2-7-8-10-12-14	6	130 x 130 x 40	9Ø12x170 (Long. & Trav.)	25 — 120 — 25
F3	9-13	2	150 x 150 x 40	10Ø12x190 (Long. & Trav.)	25 — 140 — 25
F4	Foundation Under Secondary Ground Beam	4	60 x 60 x 30	5Ø12x80 (Long. & Trav.)	15 — 50 — 15

Footings Table

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
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  B300 for columns
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* The used reinforcement steel is according to to the following notation :
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  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
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  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

No.	Description	Date	By
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Revisions

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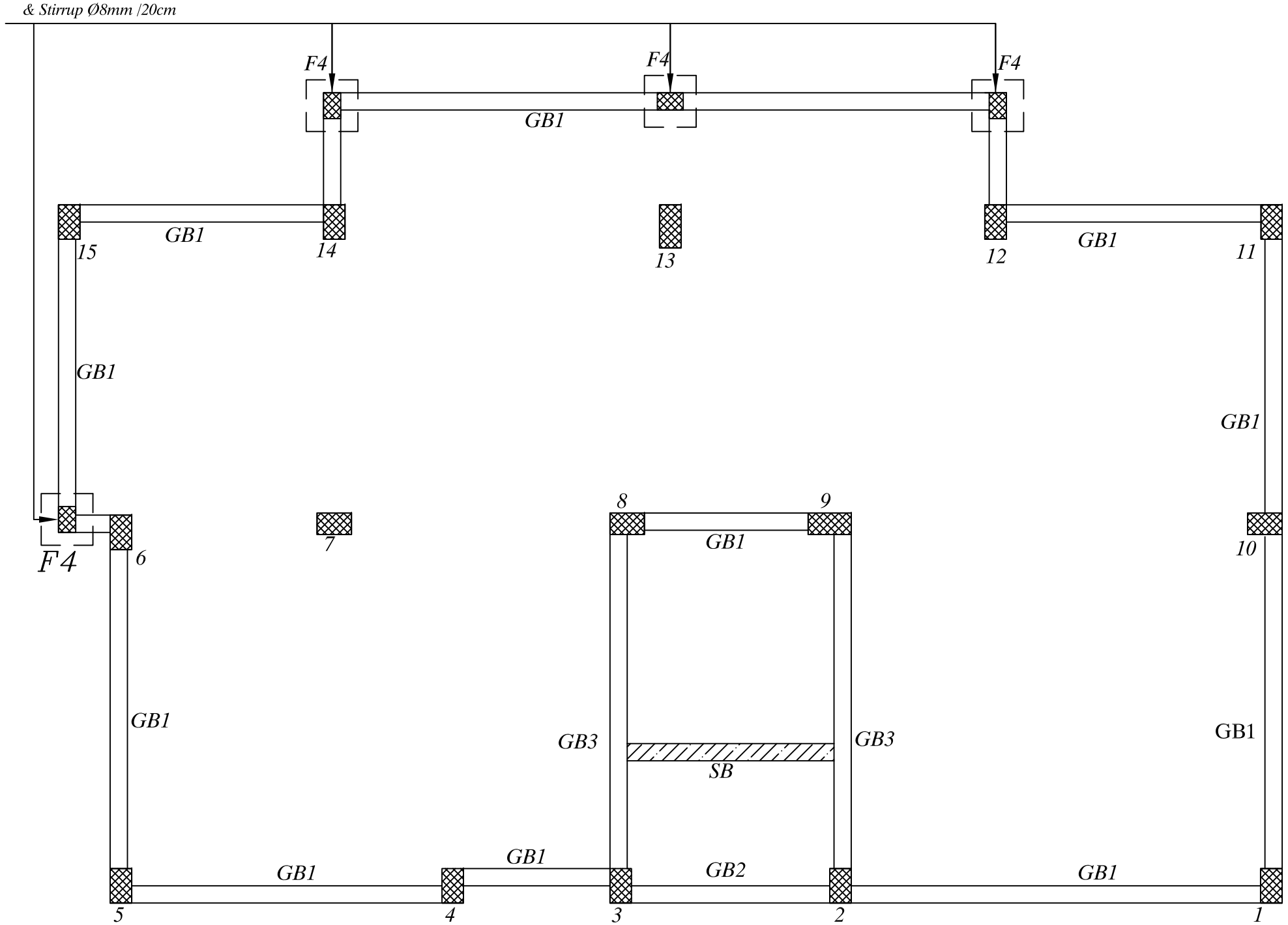
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

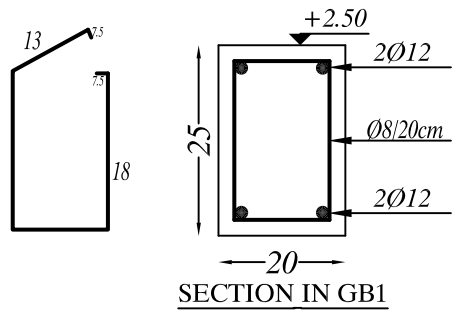
Footings Table

Symbol	Drawing No.	Rev. No.
RES	T6- C 05	R1

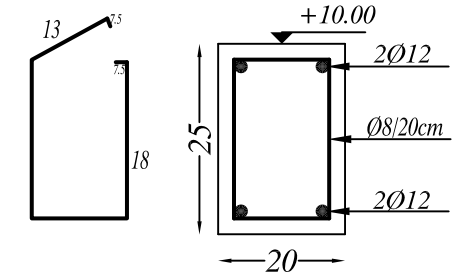
Columns Necks 20X30cm
Longitudinal Steel 6 Ø12
& Stirrup Ø8mm /20cm



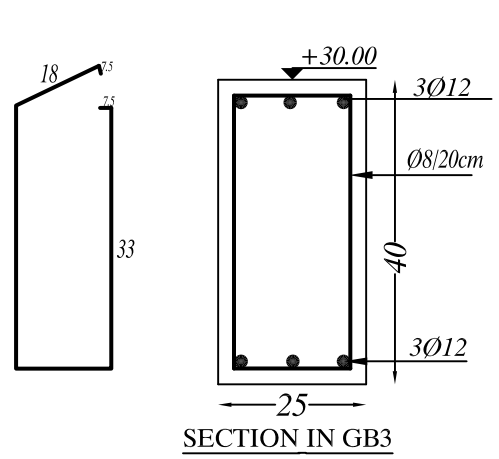
Secondary Beams Plan and Details



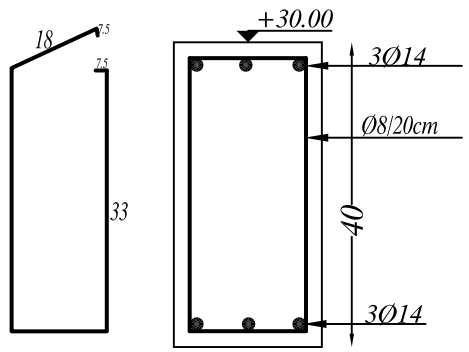
SECTION IN GB1



SECTION IN GB2



SECTION IN GB3



SECTION IN SB

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
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  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
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  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

No.	Description	Date By
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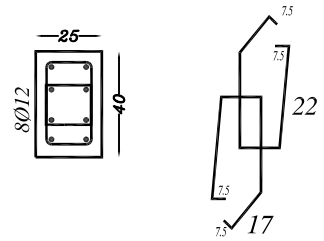
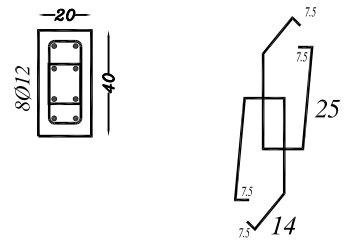
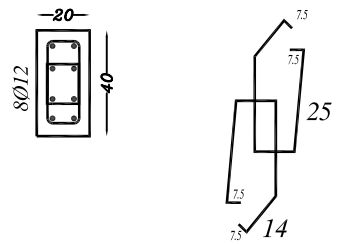
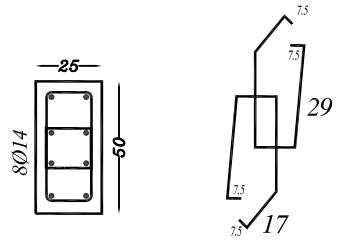
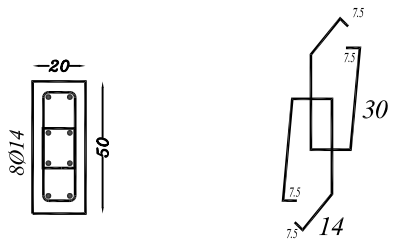
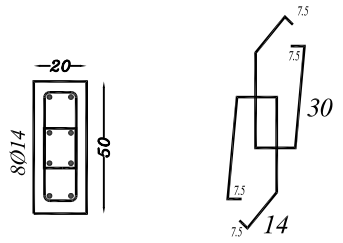
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Secondary Beams Plan & Details

Symbol	Drawing No.	Rev. No.
RES	T6- C 06	R1

Column NO.	Columns Neck	Ground Floor	First Floor
1-2-3-4-5-6-7-8-10-11-12-14-15	 St. 2Ø8/20 Number =13	 St. 2Ø8/20 Number =13	 St. 2Ø8/20 Number =12
9-13	 St. 2Ø8/20 Number =2	 St. 2Ø8/20 Number =2	 St. 2Ø8/20 Number =2

Columns Table & Details

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

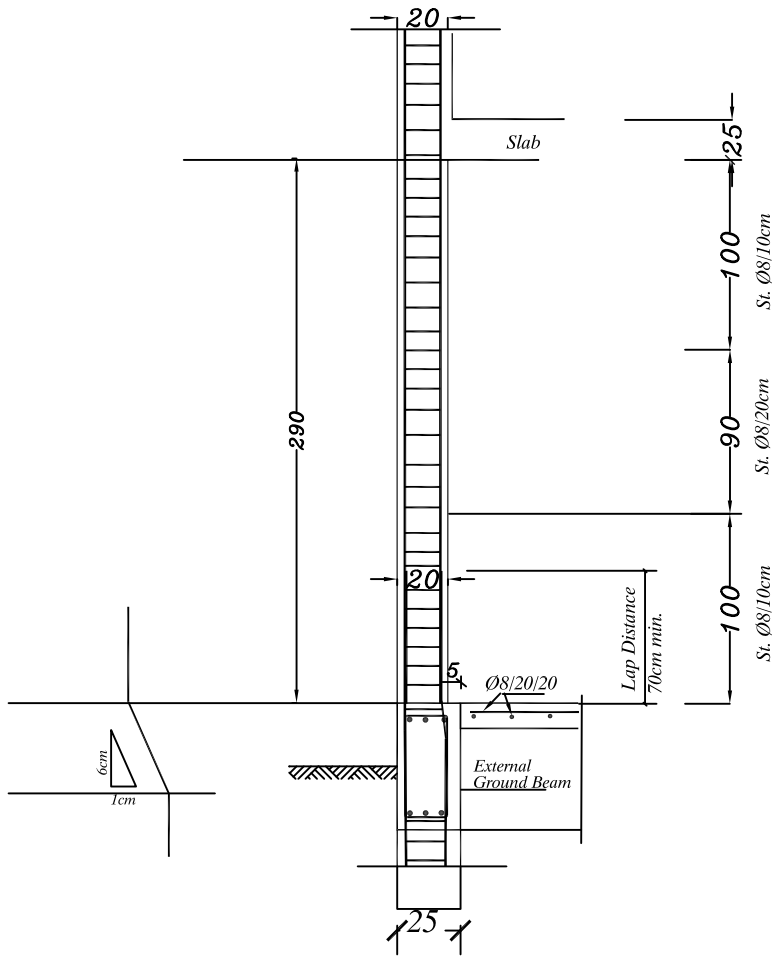
IMPLEMENTED BY:

UNDP

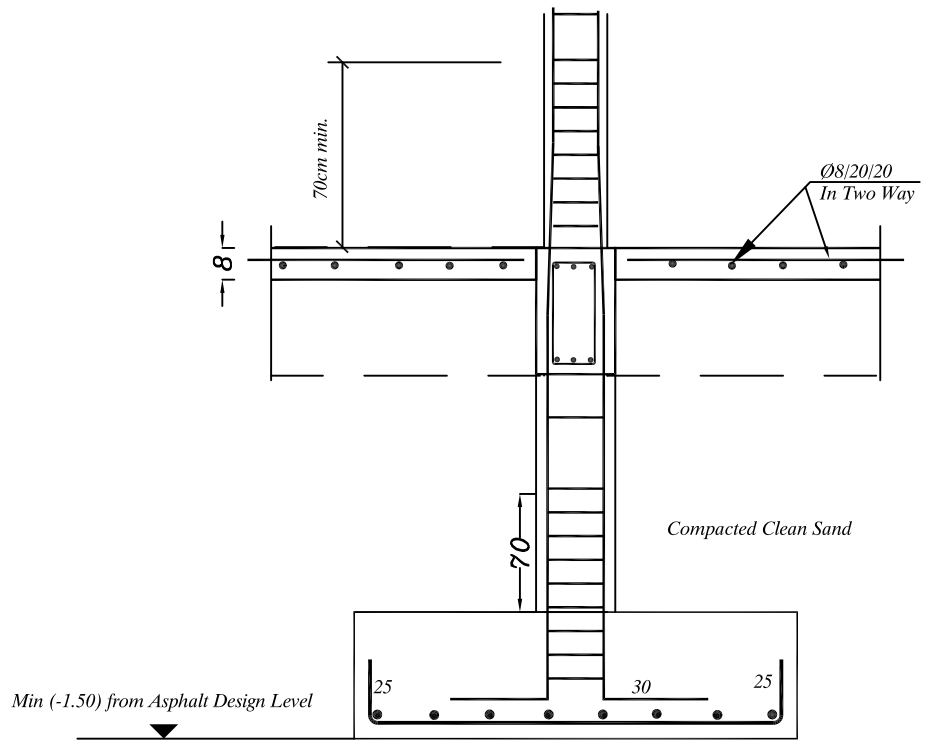
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Columns Table & Details

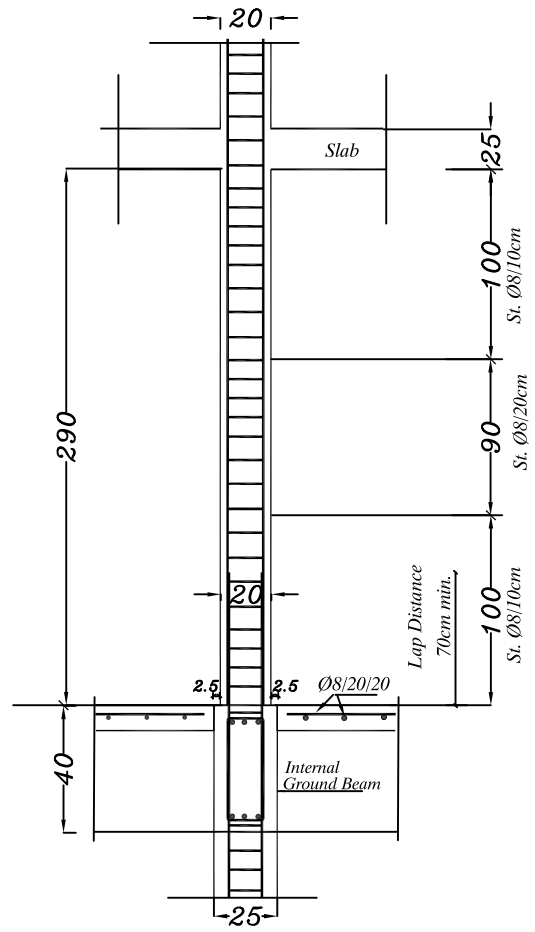
Symbol	Drawing No.	Rev. No.
RES	T6- C 07	R1



External Column Detail.



CONNECTION DETAIL BETWEEN COLUMN
& FOOT & GROUND BEAM



Internal Column Detail

Columns & Ground Slab Details

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
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* The used reinforcement steel is according to to the following notation :
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  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

All Dimensions in cm

No.	Description	Date By
4		
3		
2		
1		

Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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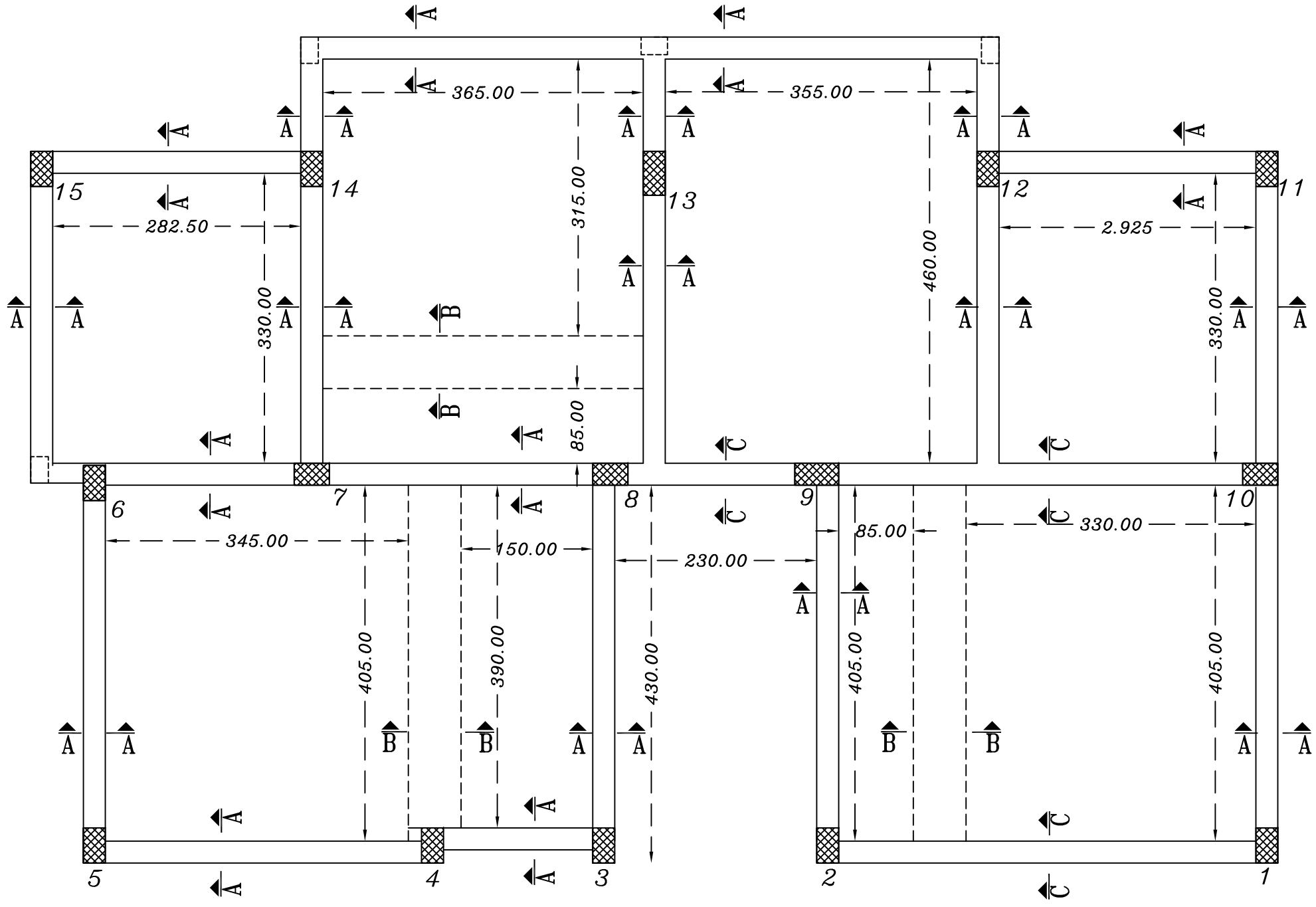
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Columns & Ground Slab Details

Symbol	Drawing No.	Rev. No.
RES	T6- C 08	R1



Main Ground Beam Plan

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
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  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

All Dimensions in cm

No.	Description	Date By
4		
3		
2		
1		

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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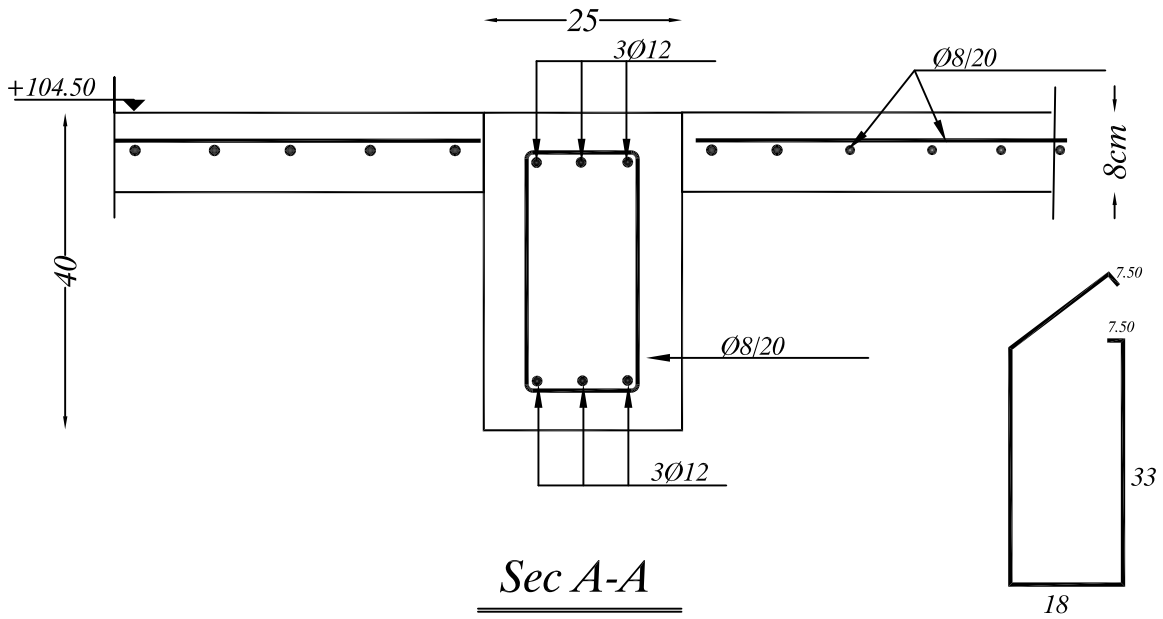
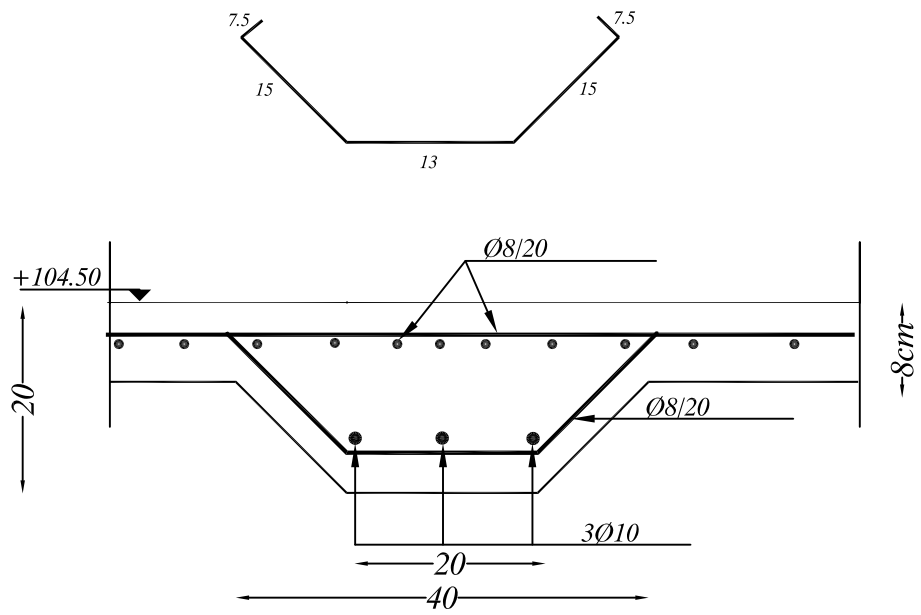
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Ground Beam Plan

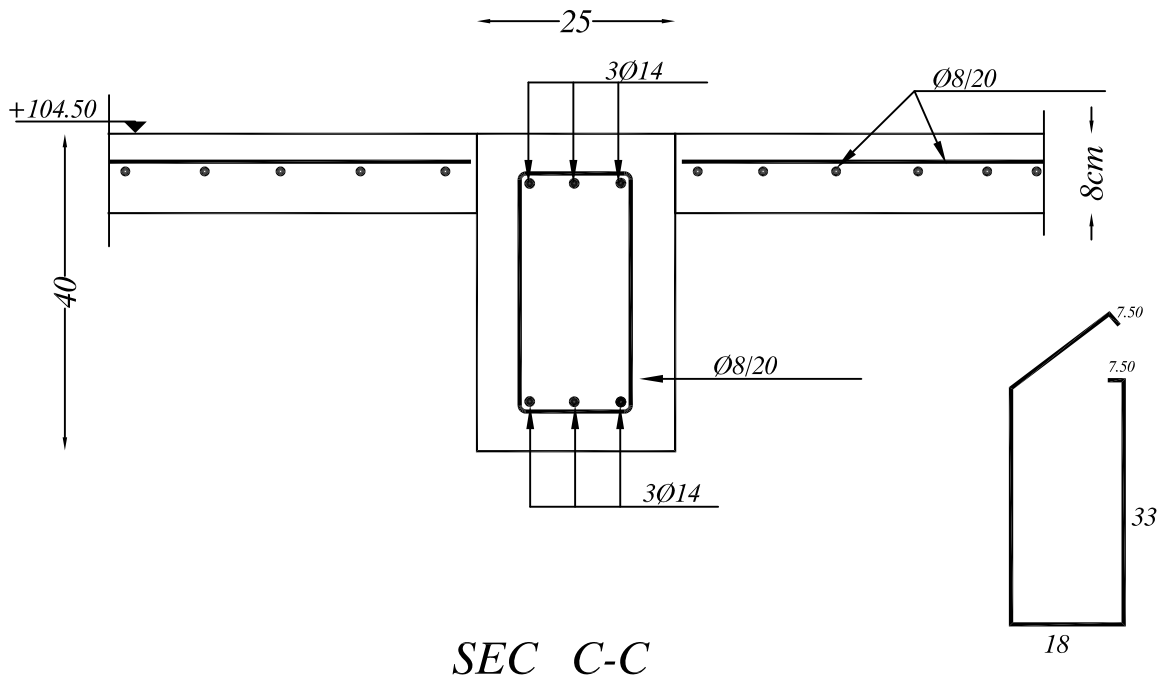
Symbol	Drawing No.	Rev. No.
RES	T6- C 09	R1



Sec A-A



Sec B-B



SEC C-C

Main Ground Beams Details

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
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  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
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  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

All Dimensions in cm

No.	Description	Date By
4		
3		
2		
1		

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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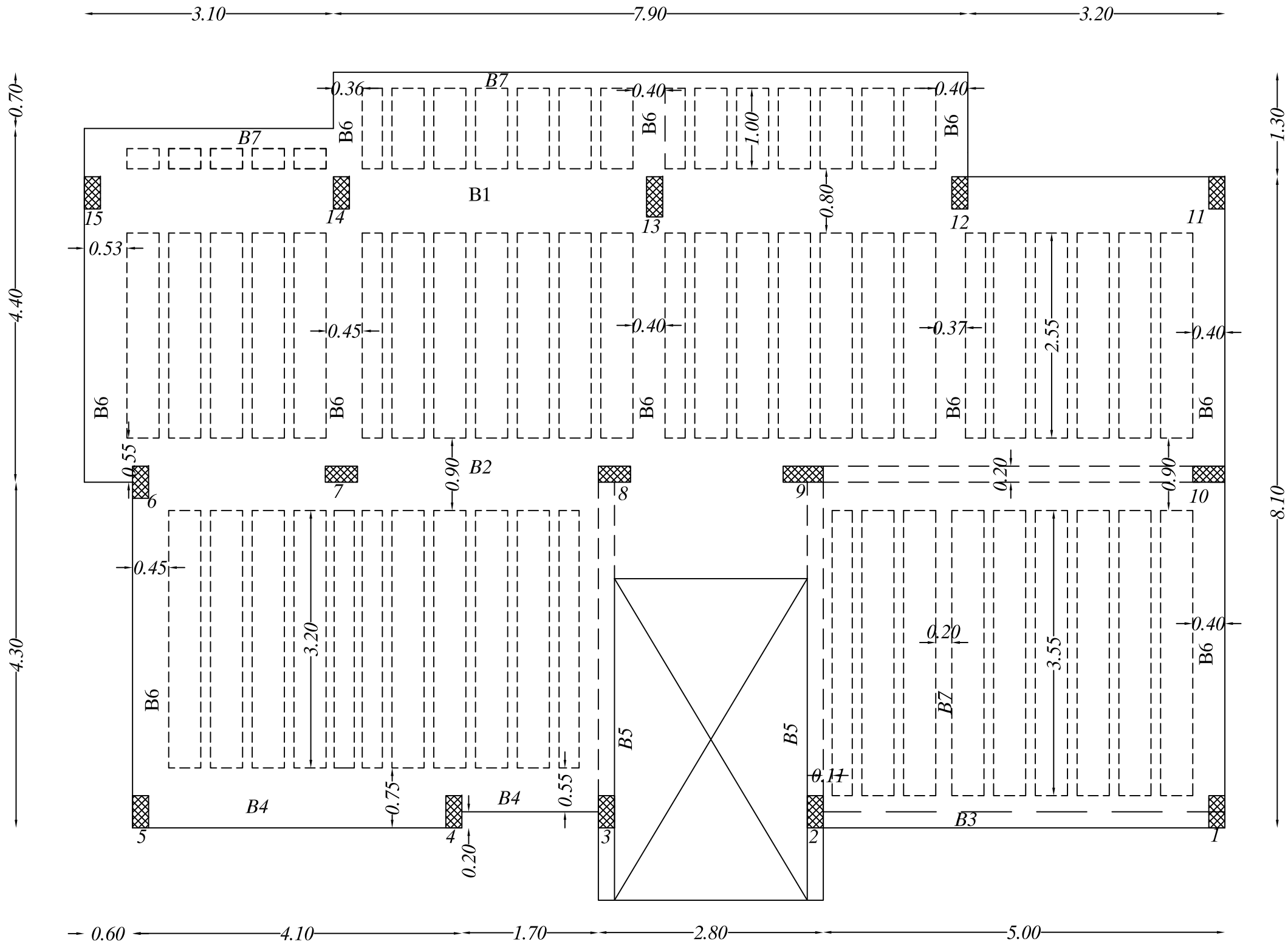
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Ground Beams Details

Symbol	Drawing No.	Rev. No.
RES	T6- C 10	R1



Beam Details & Reinforcement

For Ground Floor-1

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date By
4		
3		
2		
1		

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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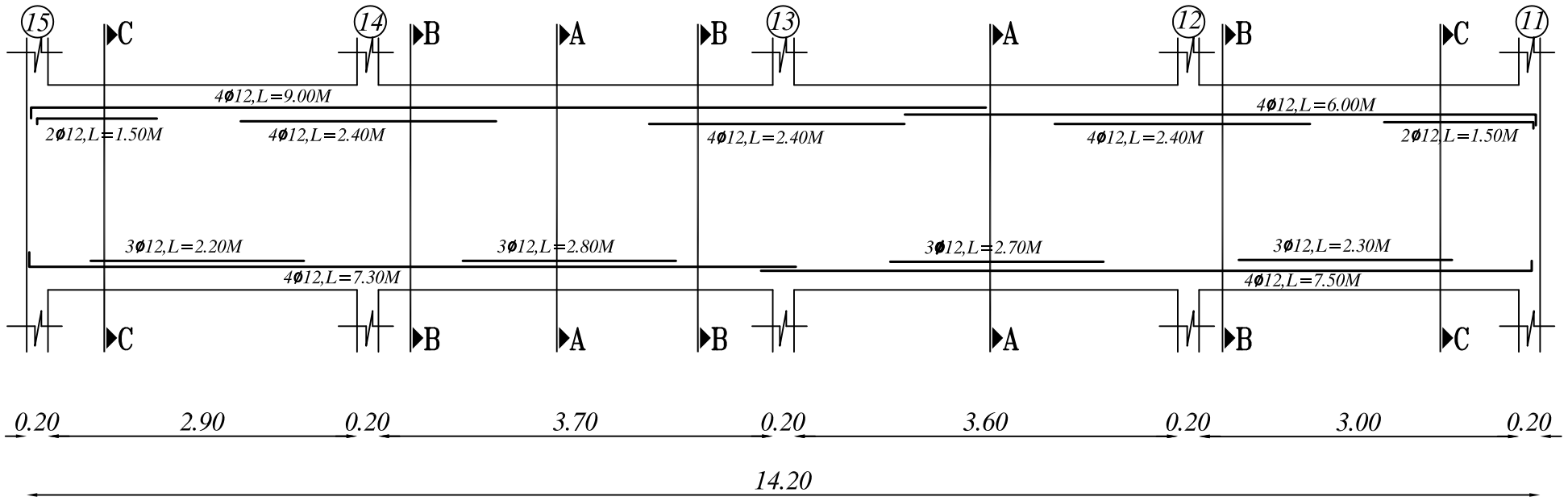
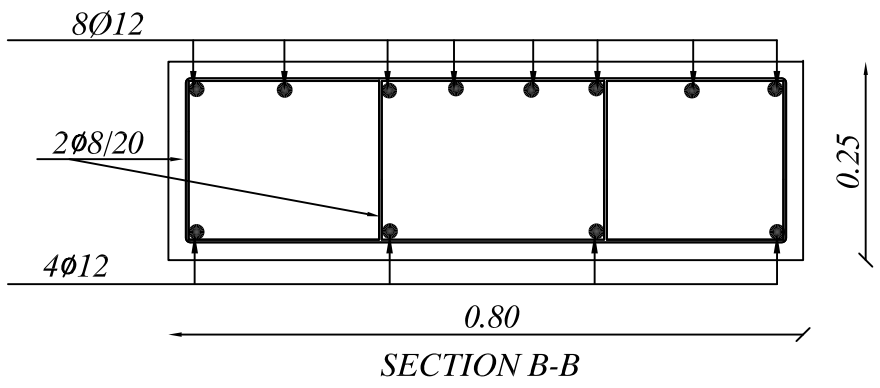
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Ground Floor-1

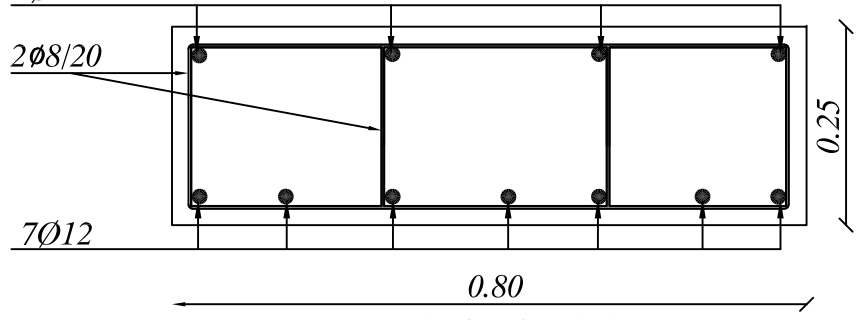
Symbol	Drawing No.	Rev. No.
RES	T6- C 11	R1

B1=25X80cm

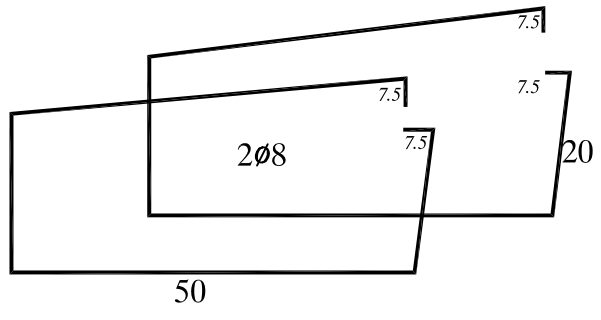


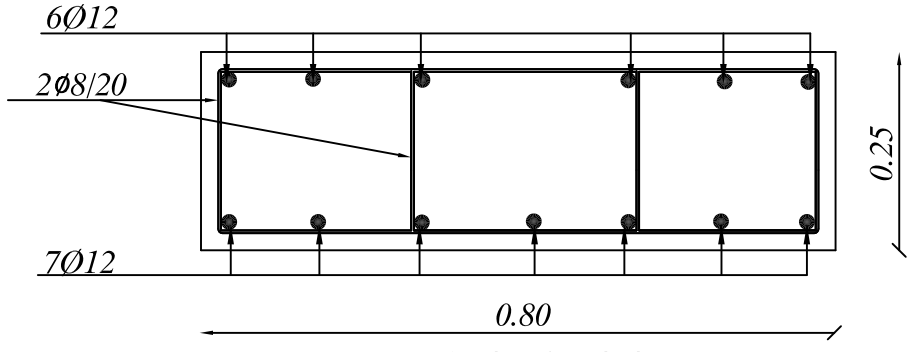


SECTION B-B



SECTION A-A





SECTION C-C

Beam Details & Reinforcement For Ground Floor-2

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

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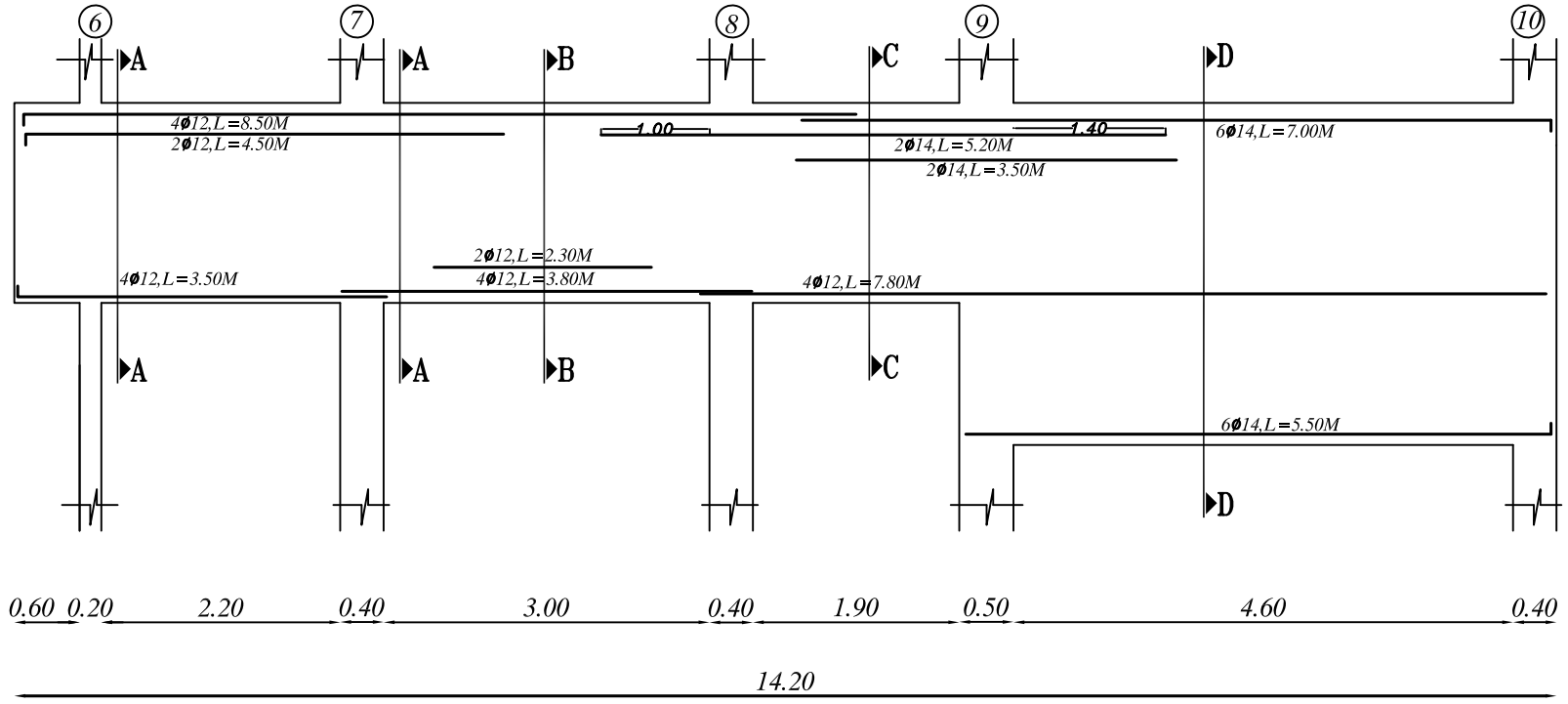
UNDP

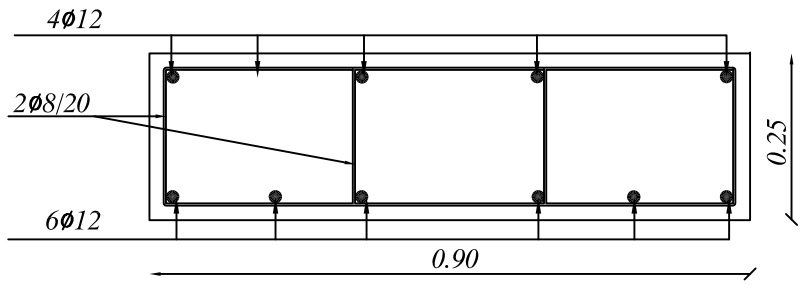
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Ground Floor-2

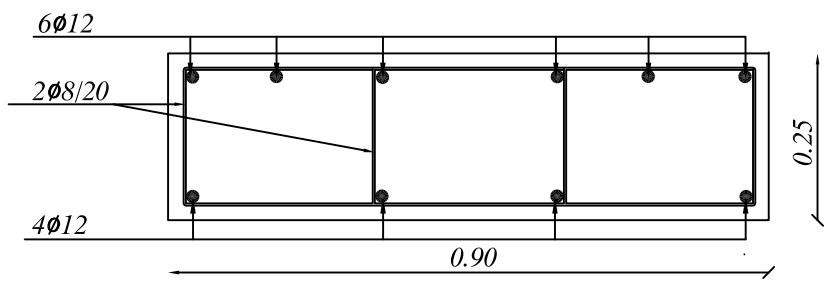
Symbol	Drawing No.	Rev. No.
RES	T6- C 12	R1

B2=25X90CM

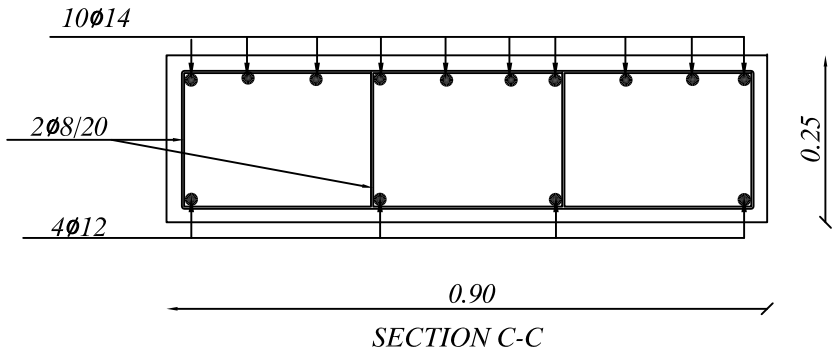




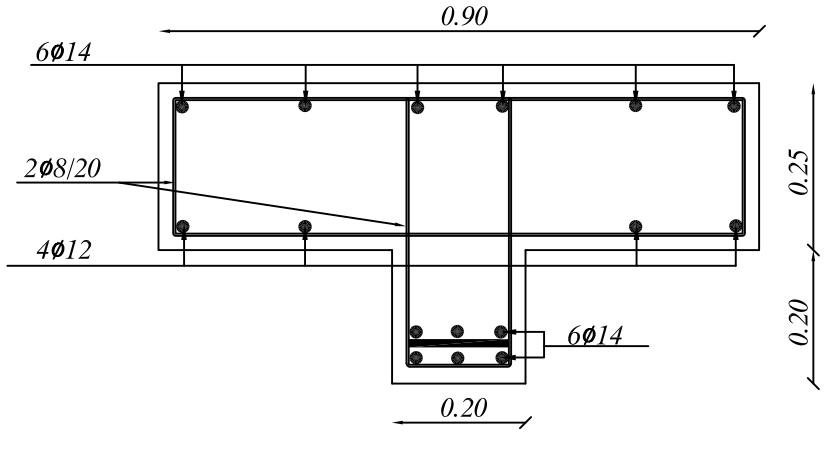
SECTION B-B



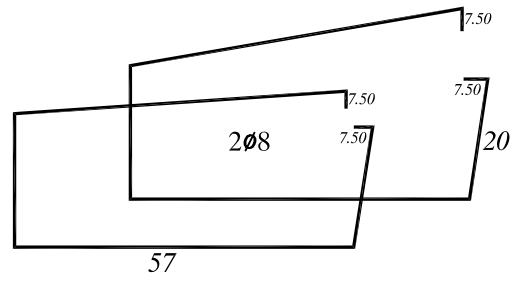
SECTION A-A

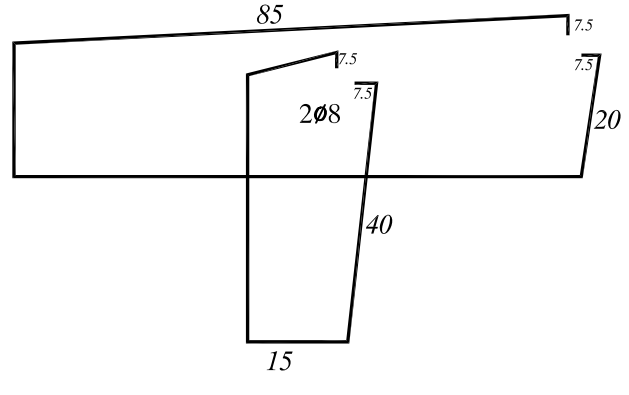


SECTION C-C



SECTION D-D





Beam Details & Reinforcement For Ground Floor-3

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
4		
3		
2		
1		

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

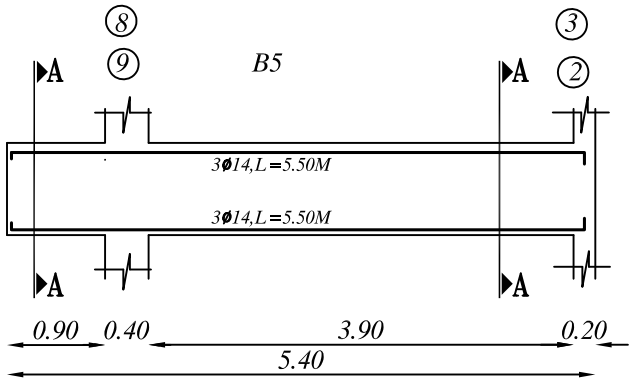
IMPLEMENTED BY:

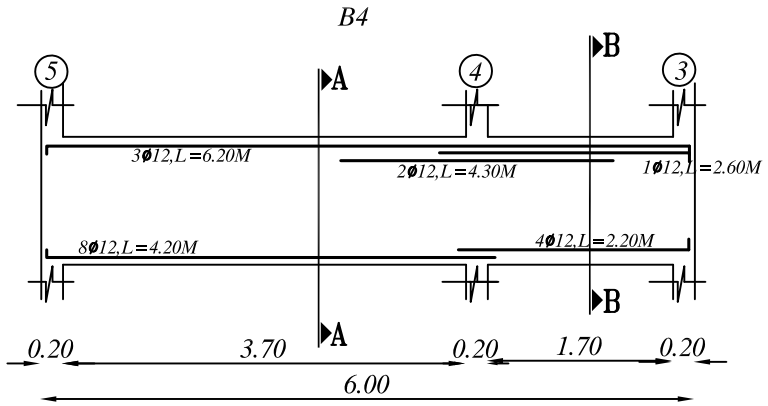
UNDP

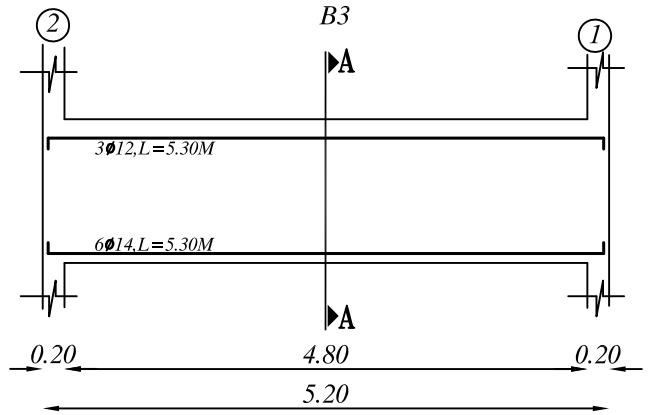
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

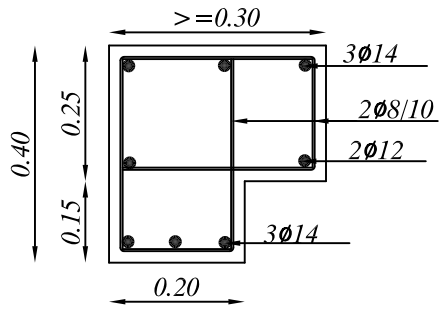
Beam Details & Reinforcement For Ground Floor-3

Symbol	Drawing No.	Rev. No.
RES	T6-C 13	R1

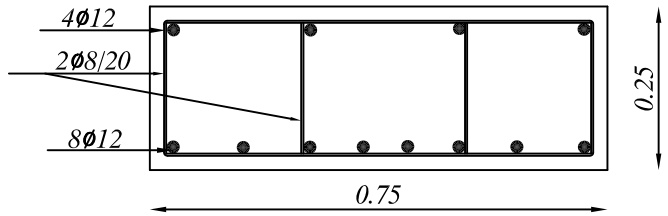




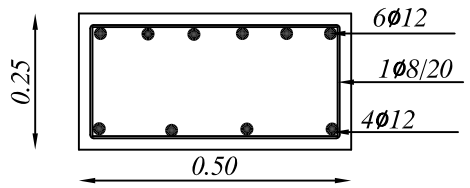




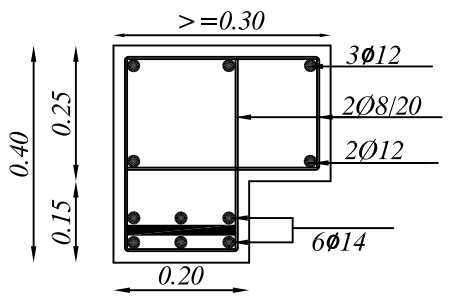
SECTION A-A



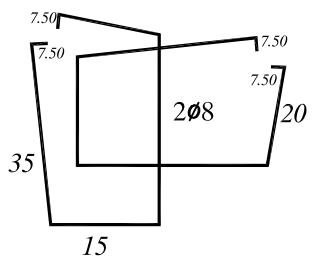
SECTION A-A

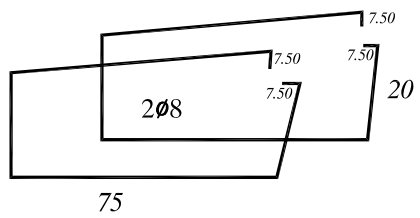


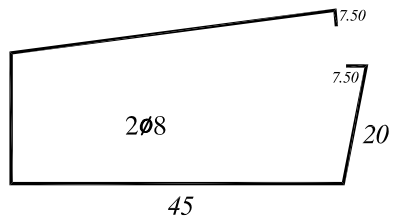
SECTION B-B

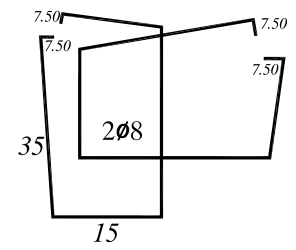


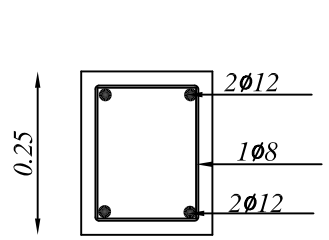
SECTION A-A



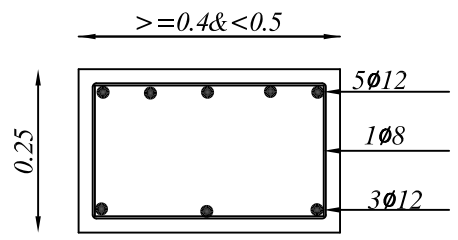




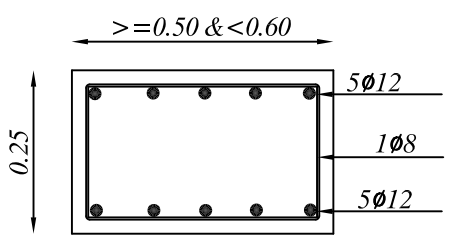




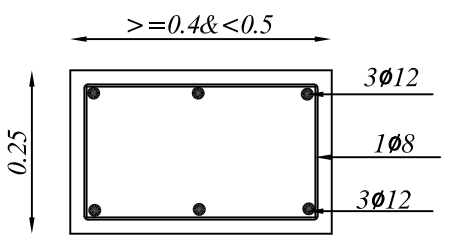
SECTION IN B7



SECTION IN B6 FOR CANTILIVER



SECTION IN B6



SECTION IN B6

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved
Date			

	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

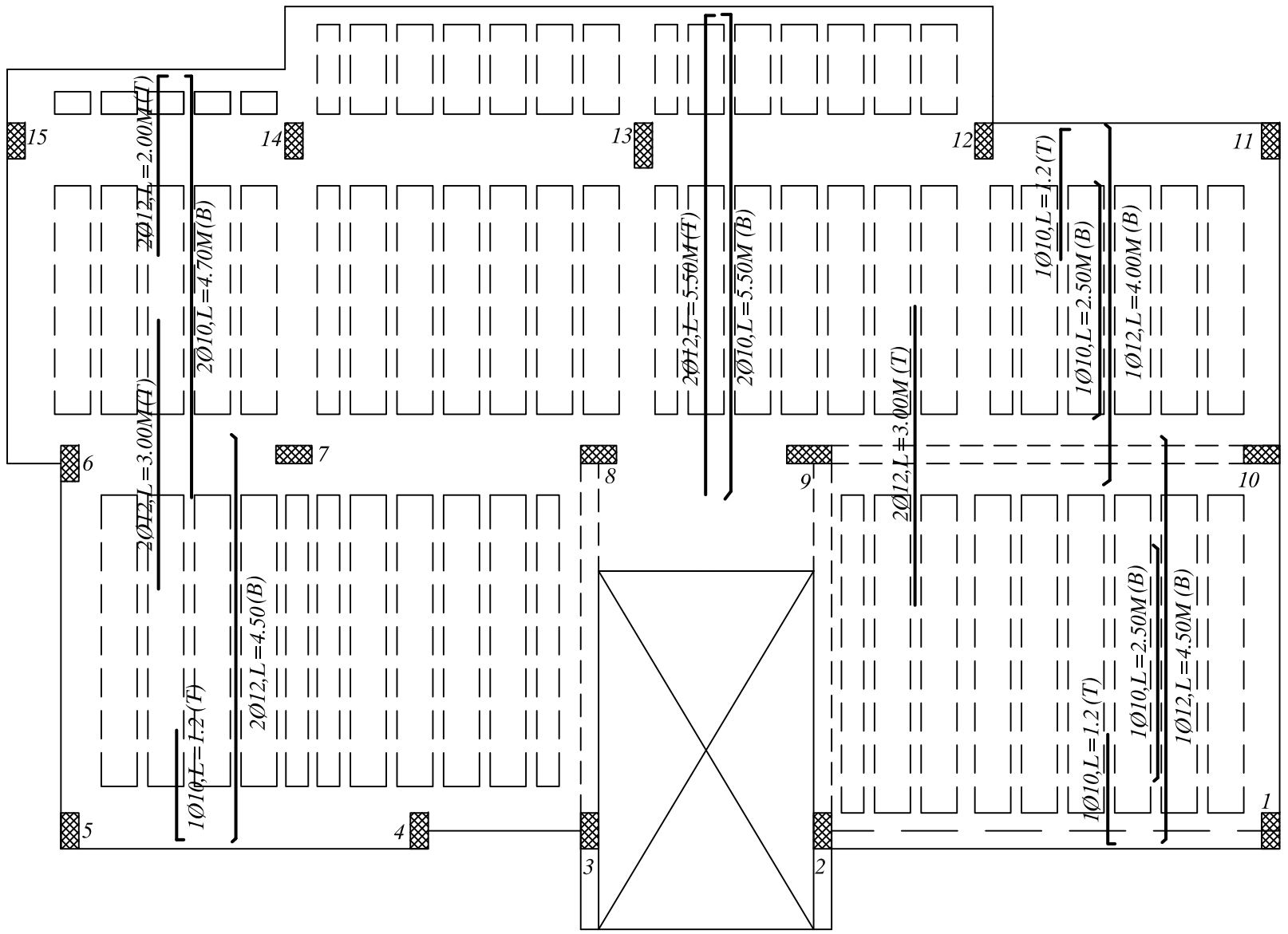
UNDP

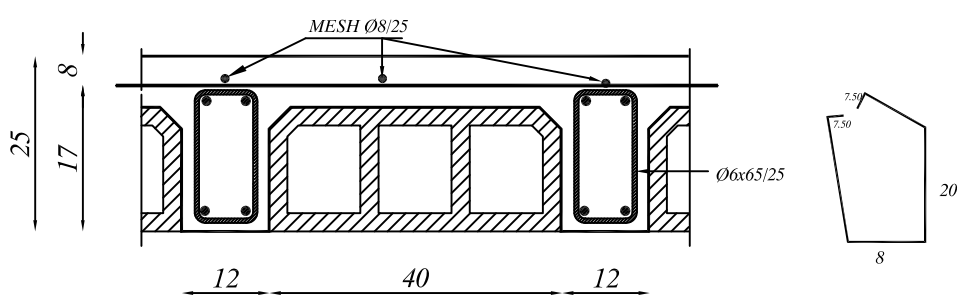
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Ground Floor-4

Symbol	Drawing No.	Rev. No.
RES	T6-C 14	R1

Beam Details & Reinforcement For Ground Floor-4





SECTION IN RIBS

Ribs Details & Reinforcement For Ground Floor

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

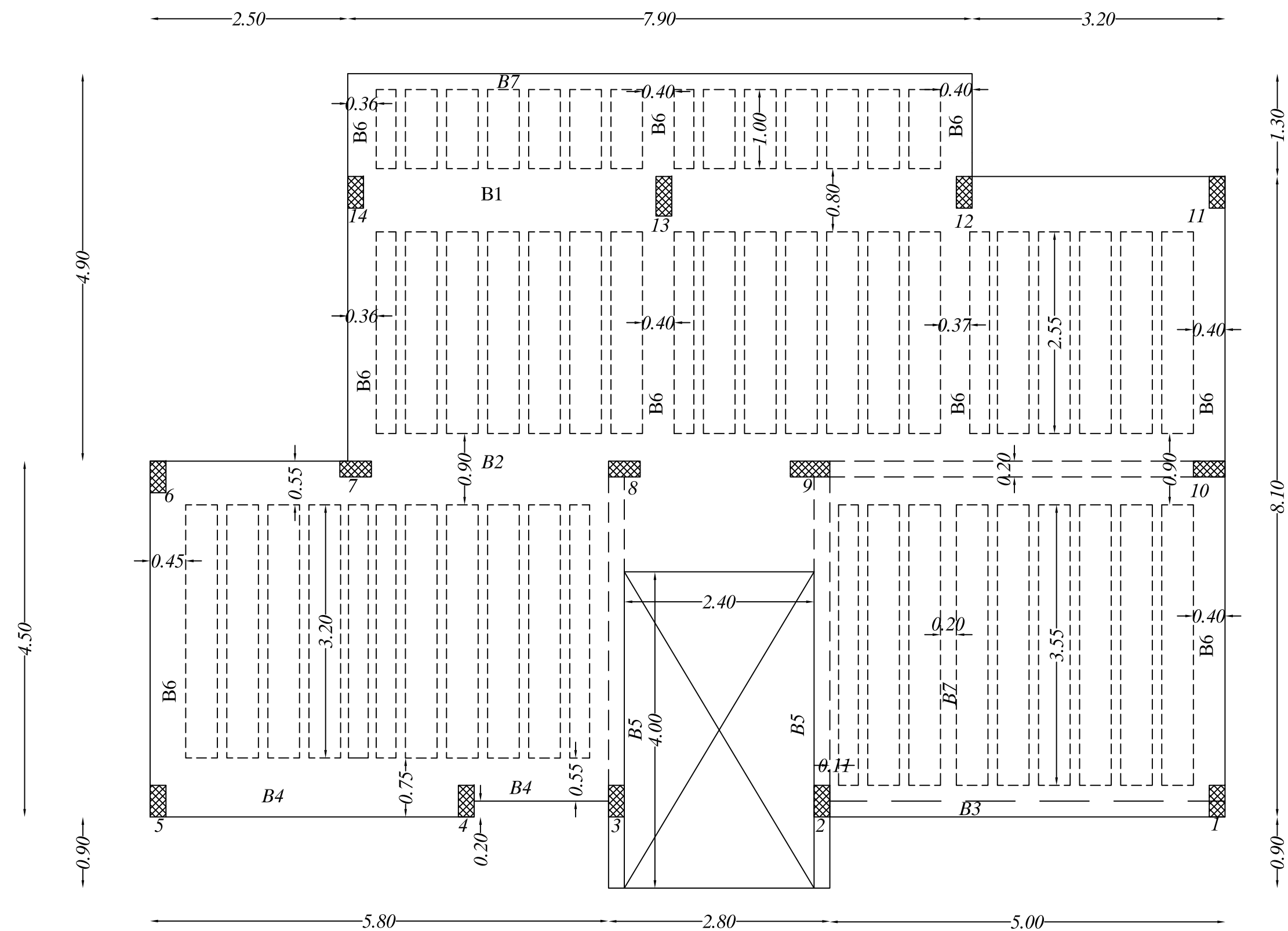
IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Ribs Details & Reinforcement For Ground Floor

Symbol	Drawing No.	Rev. No.
RES	T6-C 15	R1



Beam Details & Reinforcement For First Floor-1

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel (fy=4200kg/cm)
  (R) mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

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IMPLEMENTED BY:

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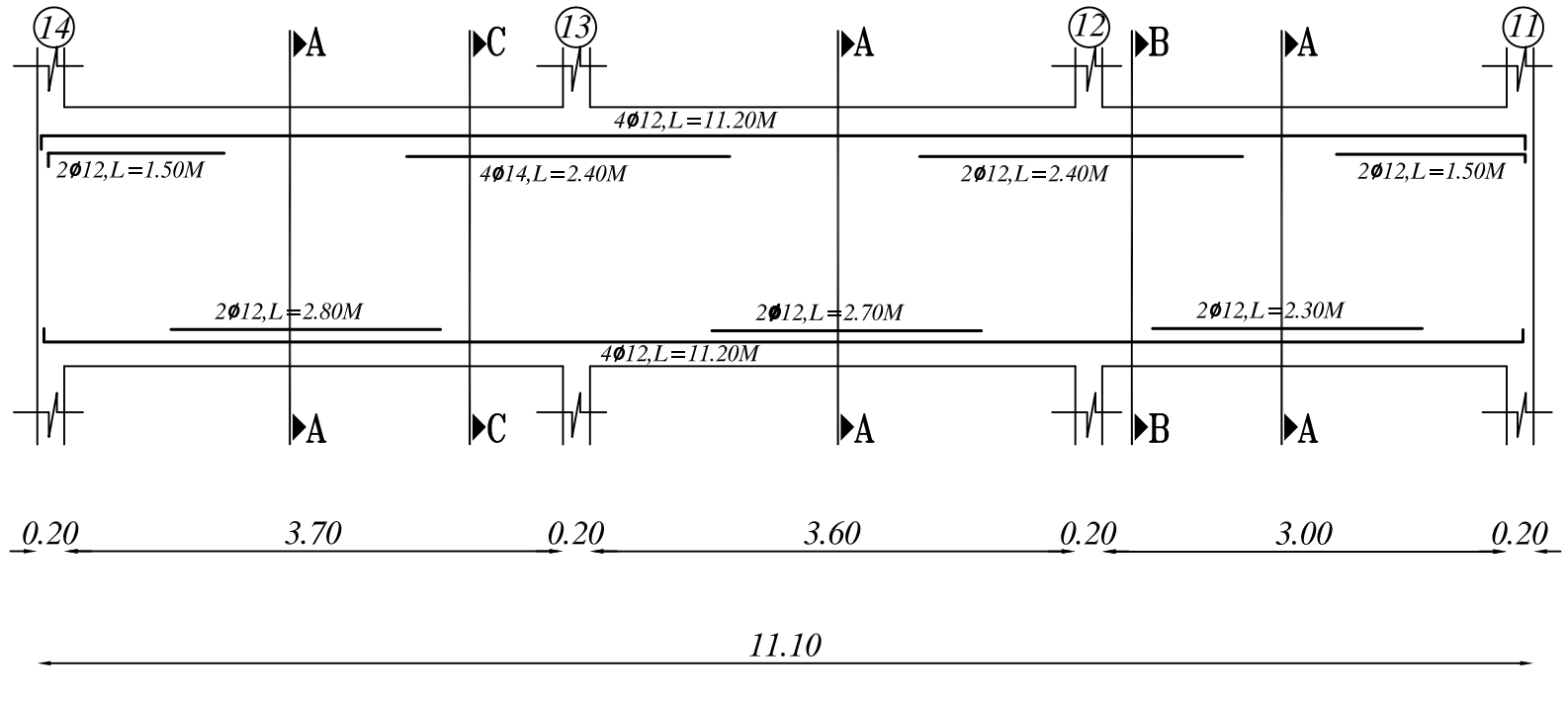
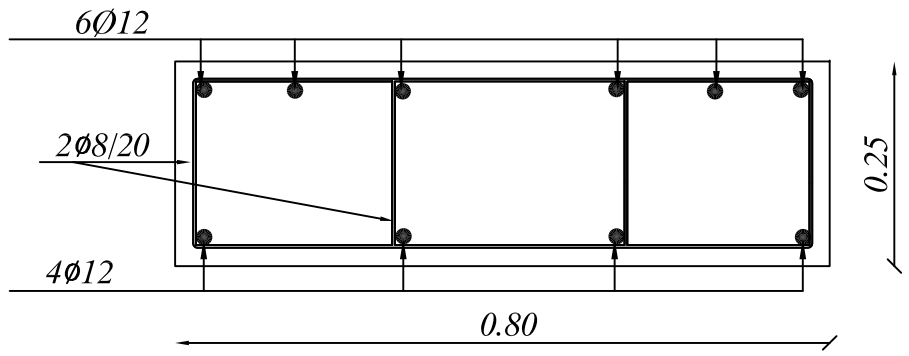
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For First Floor

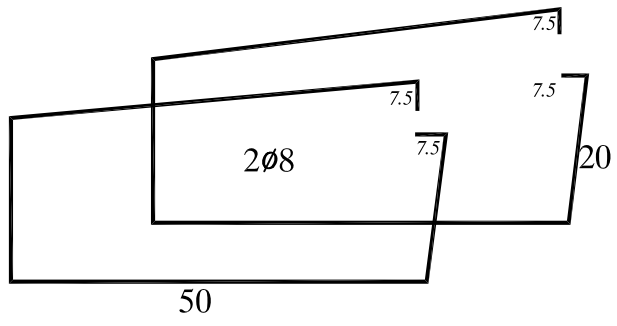
Symbol	Drawing No.	Rev. No.
RES	T6- C 16	R1

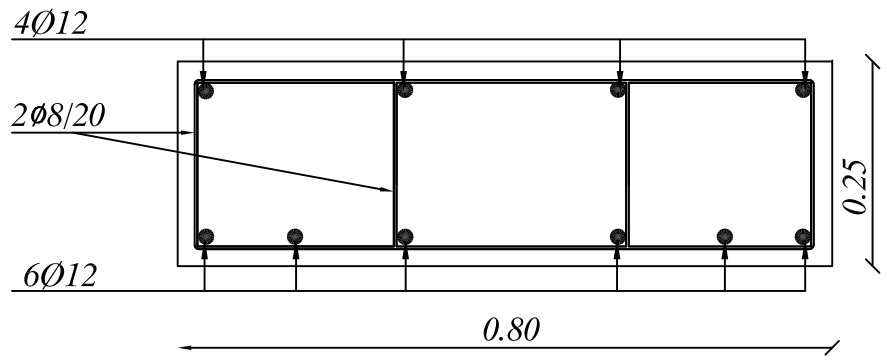
B1=25X80cm



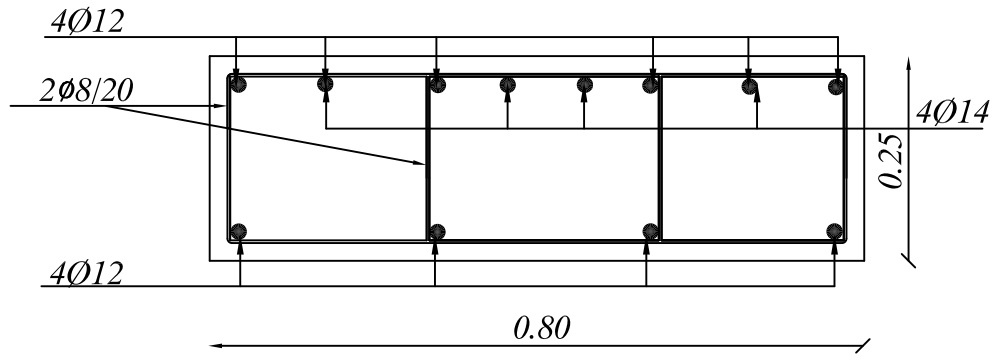


SECTION B-B





SECTION A-A



SECTION C-C

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date	By
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1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

UNDP

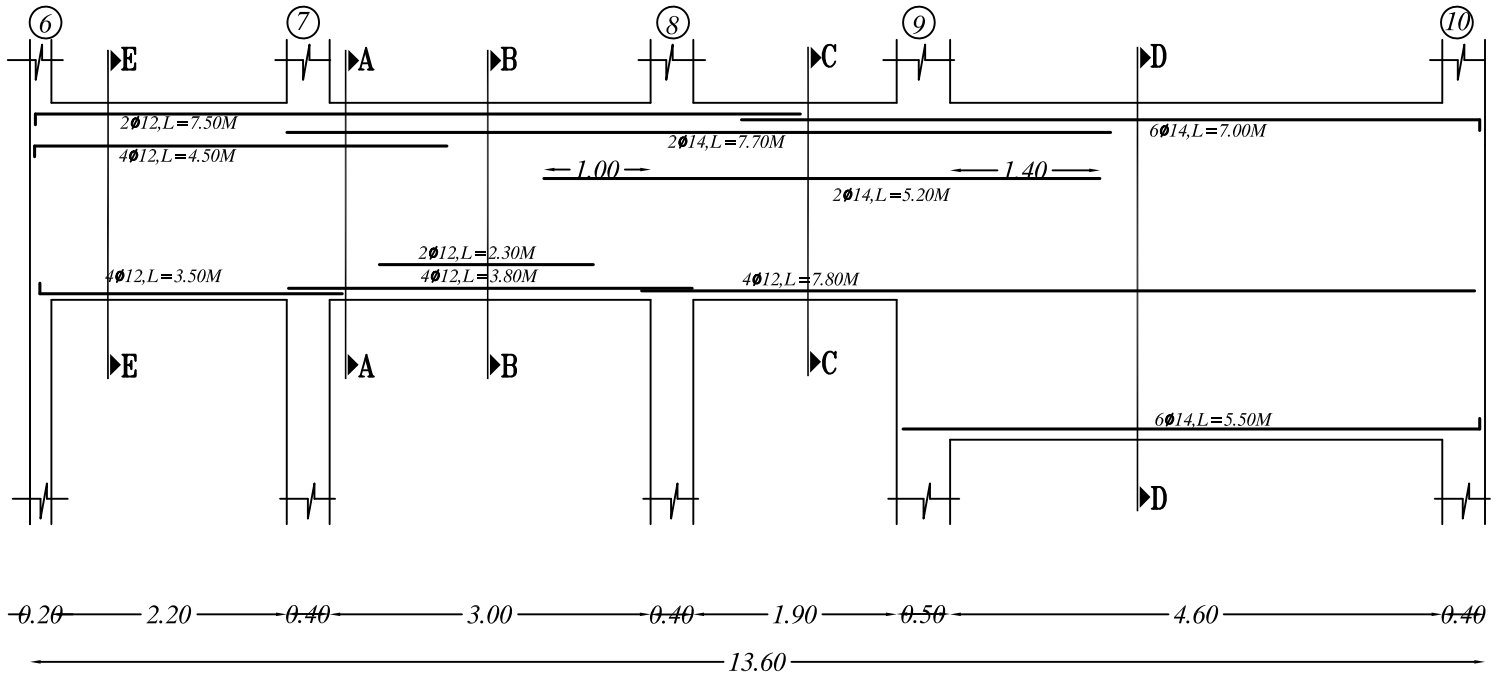
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

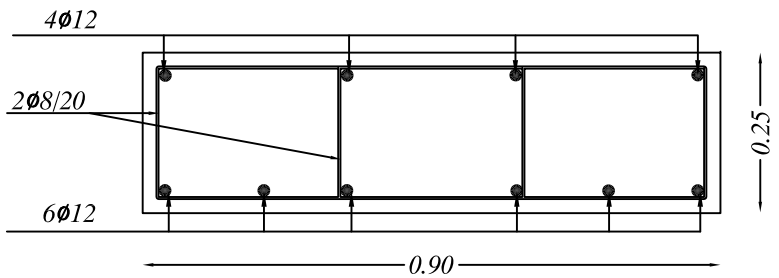
Beam Details & Reinforcement For First Floor-2

Symbol	Drawing No.	Rev. No.
RES	T6- C 17	R1

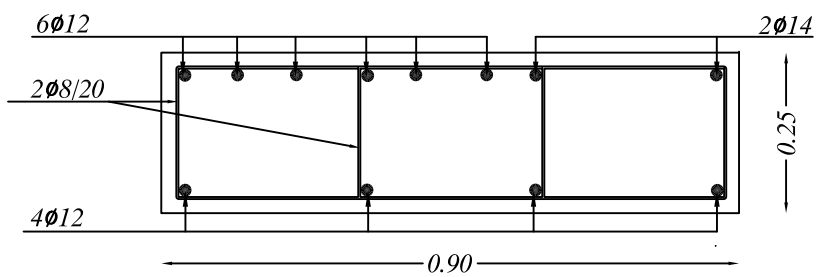
Beam Details & Reinforcement For First Floor-2

B2=25X90CM

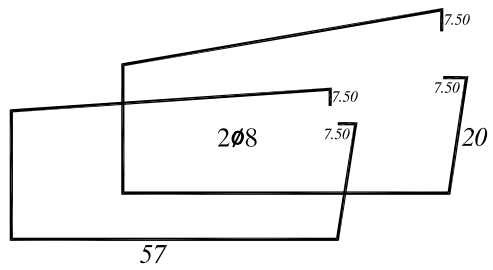


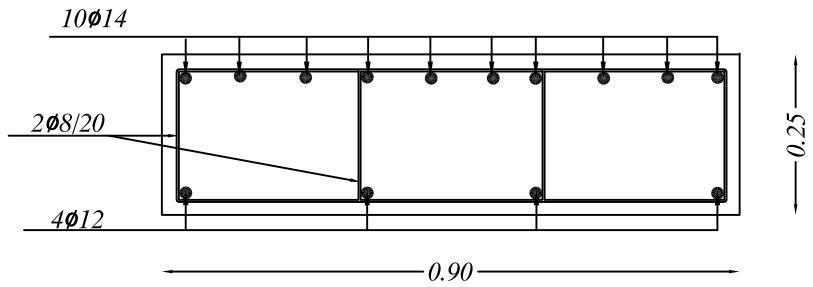


SECTION B-B

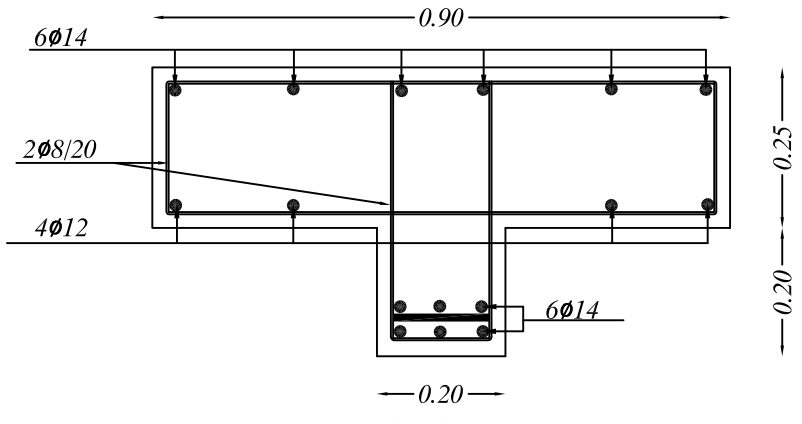


SECTION A-A

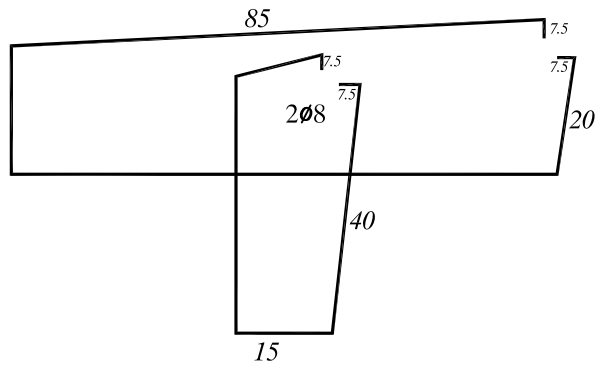


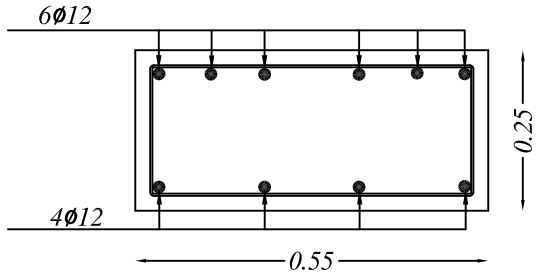


SECTION C-C

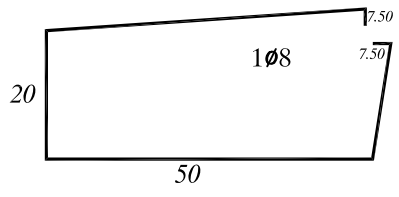


SECTION D-D





SECTION E-E



Beam Details & Reinforcement For First Floor-3

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel (fy=4200kg/cm²)
  (R) mild steel (fy=2500kg/cm²)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

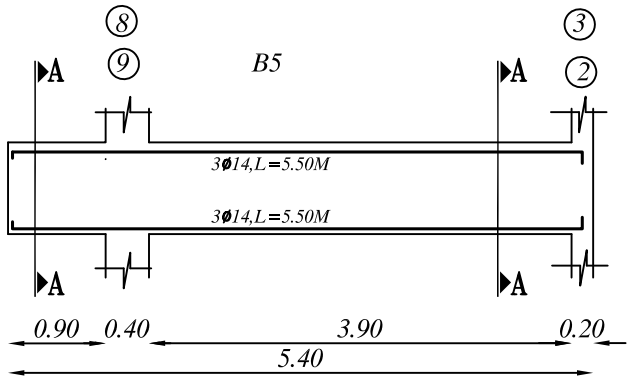
IMPLEMENTED BY:

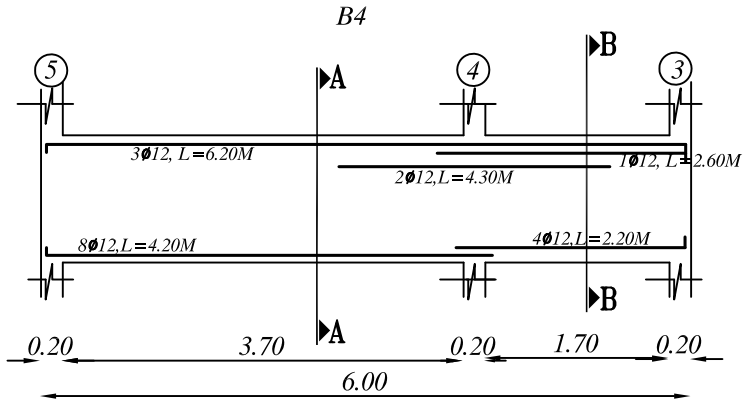
UNDP

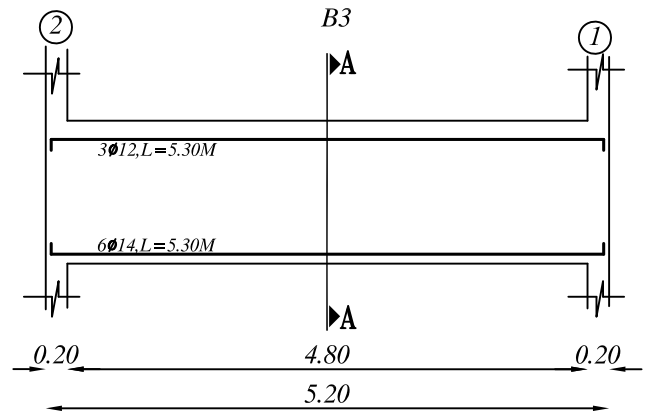
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

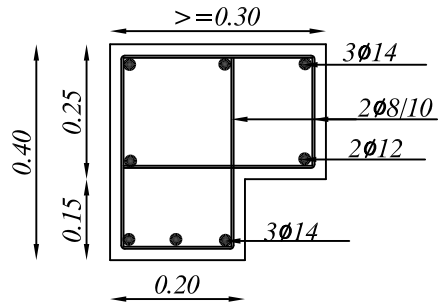
Beam Details & Reinforcement For First Floor-3

Symbol	Drawing No.	Rev. No.
RES	T6-C 18	R1

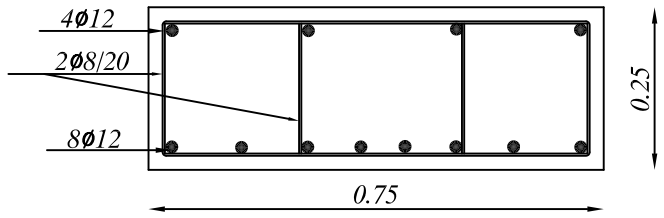




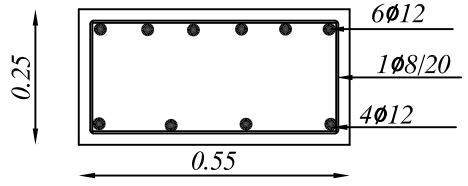




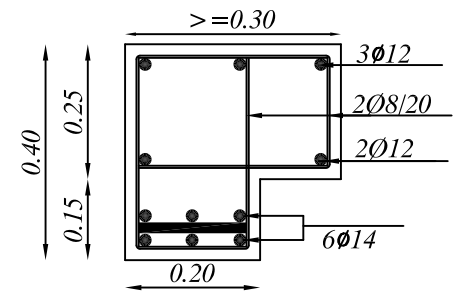
SECTION A-A



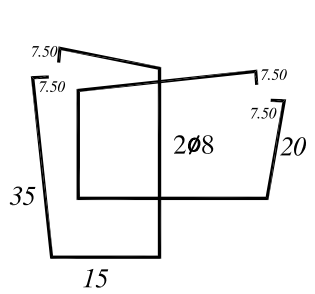
SECTION A-A

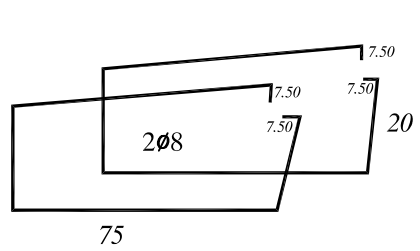


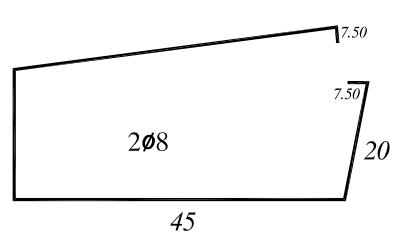
SECTION B-B

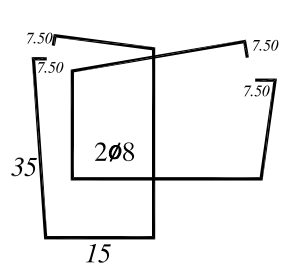


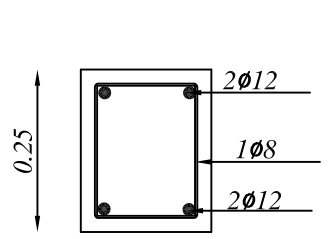
SECTION A-A



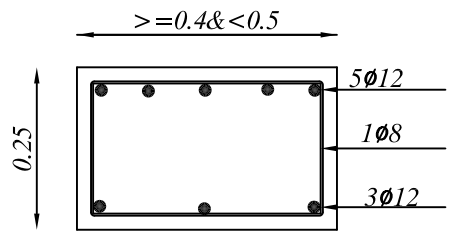




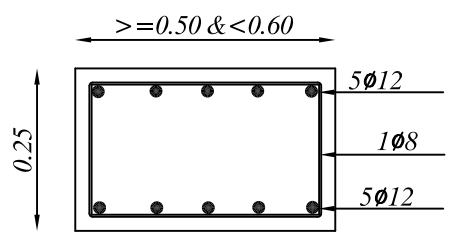




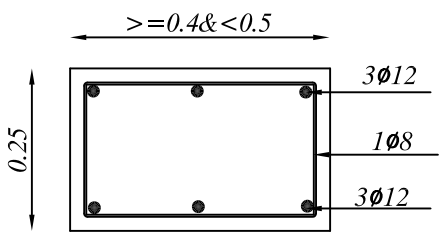
SECTION IN B7



SECTION IN B6 FOR CANTILIVER



SECTION IN B6



SECTION IN B6

Beam Details & Reinforcement For First Floor-4

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel (fy=4200kg/cm)
  (R) mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
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Revisions

Designed	Drawn	Checked	Approved
Date			

File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

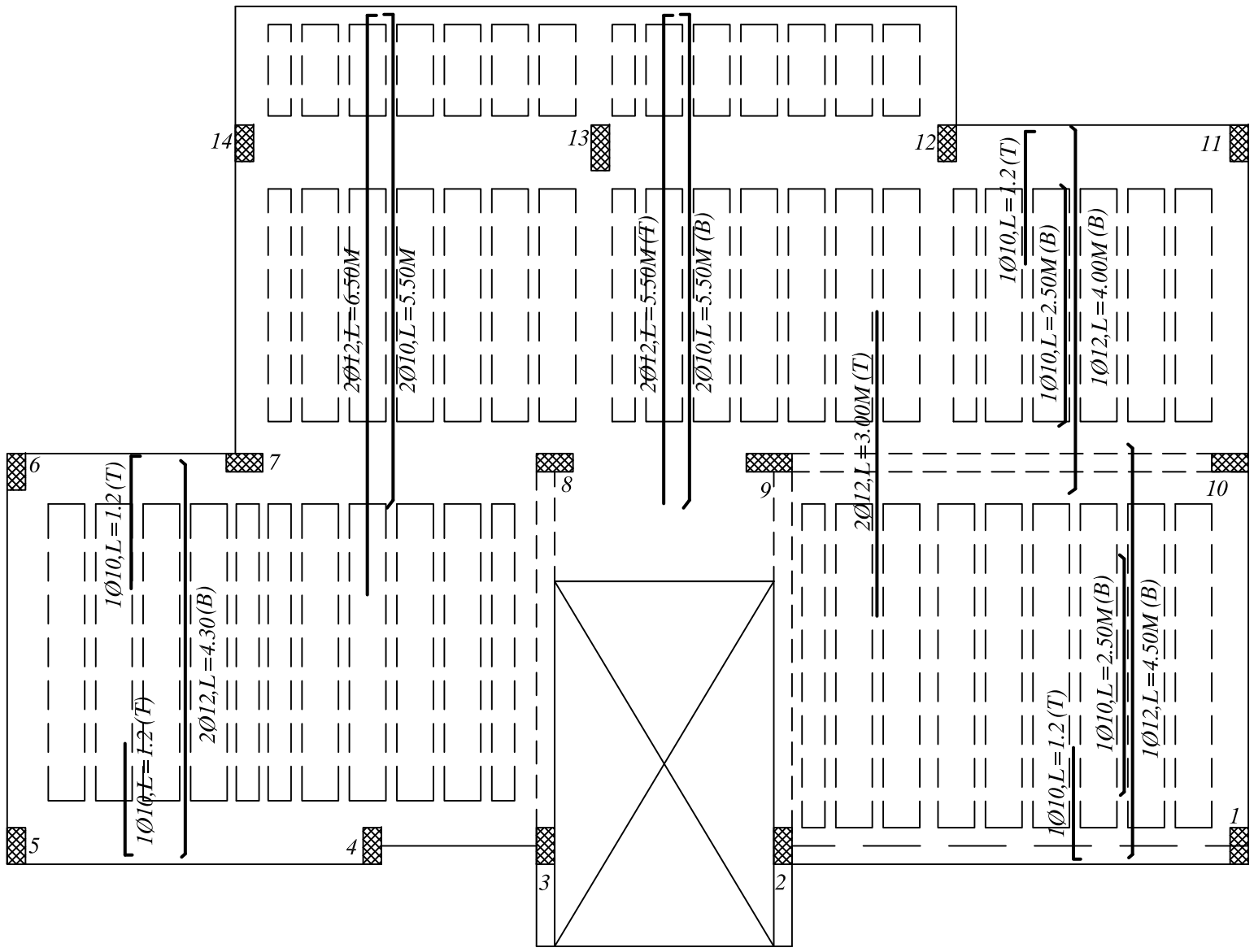
IMPLEMENTED BY:

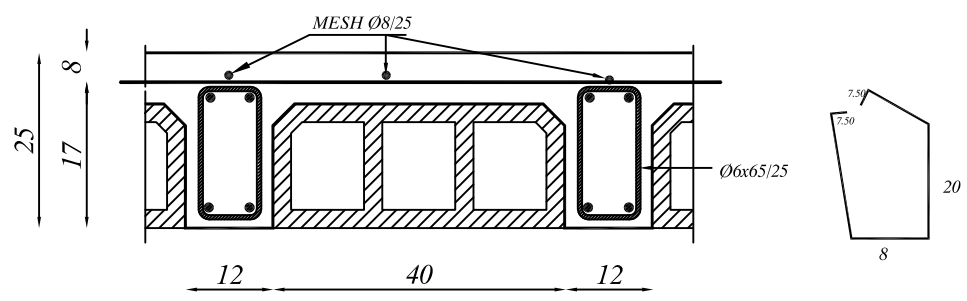
UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For First Floor-4

Symbol	Drawing No.	Rev. No.
RES	T6-C19	R1





SECTION IN RIBS

Ribs Details & Reinforcement For First Floor

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel (fy=4200kg/cm^2)
  (R) mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

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Revisions

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PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

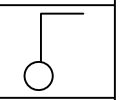
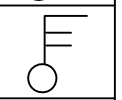
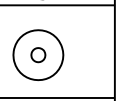
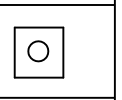
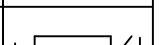
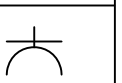
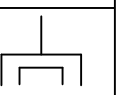
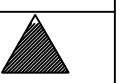
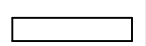
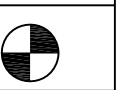
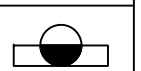
Ribs Details & Reinforcement For First Floor

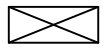
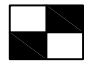
Symbol	Drawing No.	Rev. No.
RES	T6-C 20	R1

ELECTRICAL DRAWINGS

LS (TYPE 6)

جدول الرموز الكهربائية

الرمز	البيان
	مفتاح كهرباء مفرد
	مفتاح كهرباء مزدوج
	مفتاح ثلاثي
	ضاغط جرس
	ضاغط انارة الدرج
	جرس كهرباء
	مخرج كهرباء عادي 16A
	مخرج كهرباء بغطاء 16A
	مخرج تليفزيون
	مخرج تليفون
	مصباح فلورسنت مفرد
	كلوب دائري
	مصباح سقف عادي معلق
	مصباح حائط عادي
	مصباح حائط خافت
	مصباح مرأة الحمام

	مروحة شفط
	وحدة الانتركوم الداخلية
	وحدة الانتركوم الخارجية
	لوحة توزيع كهرباء رئيسية
	لوحة توزيع كهرباء فرعية
	لوحة توزيع اتصالات رئيسية
	لوحة توزيع اتصالات فرعية

NOTES

No.	Description	Date	By
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3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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DONATED BY:

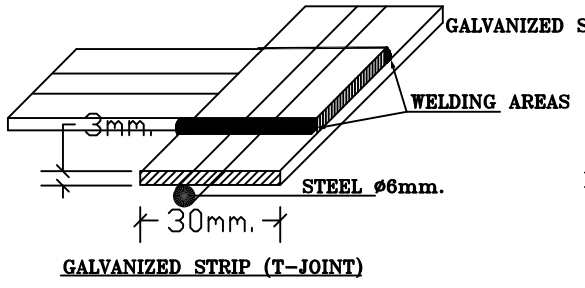
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

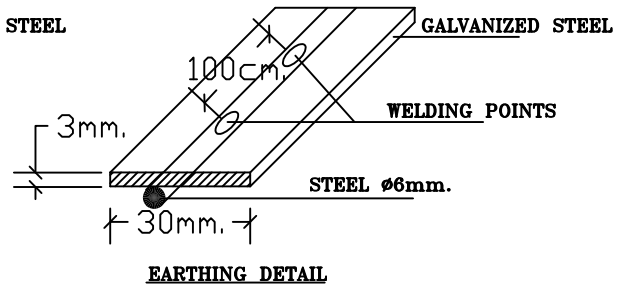
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Legend For Electrical Fittings

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 01*	R1

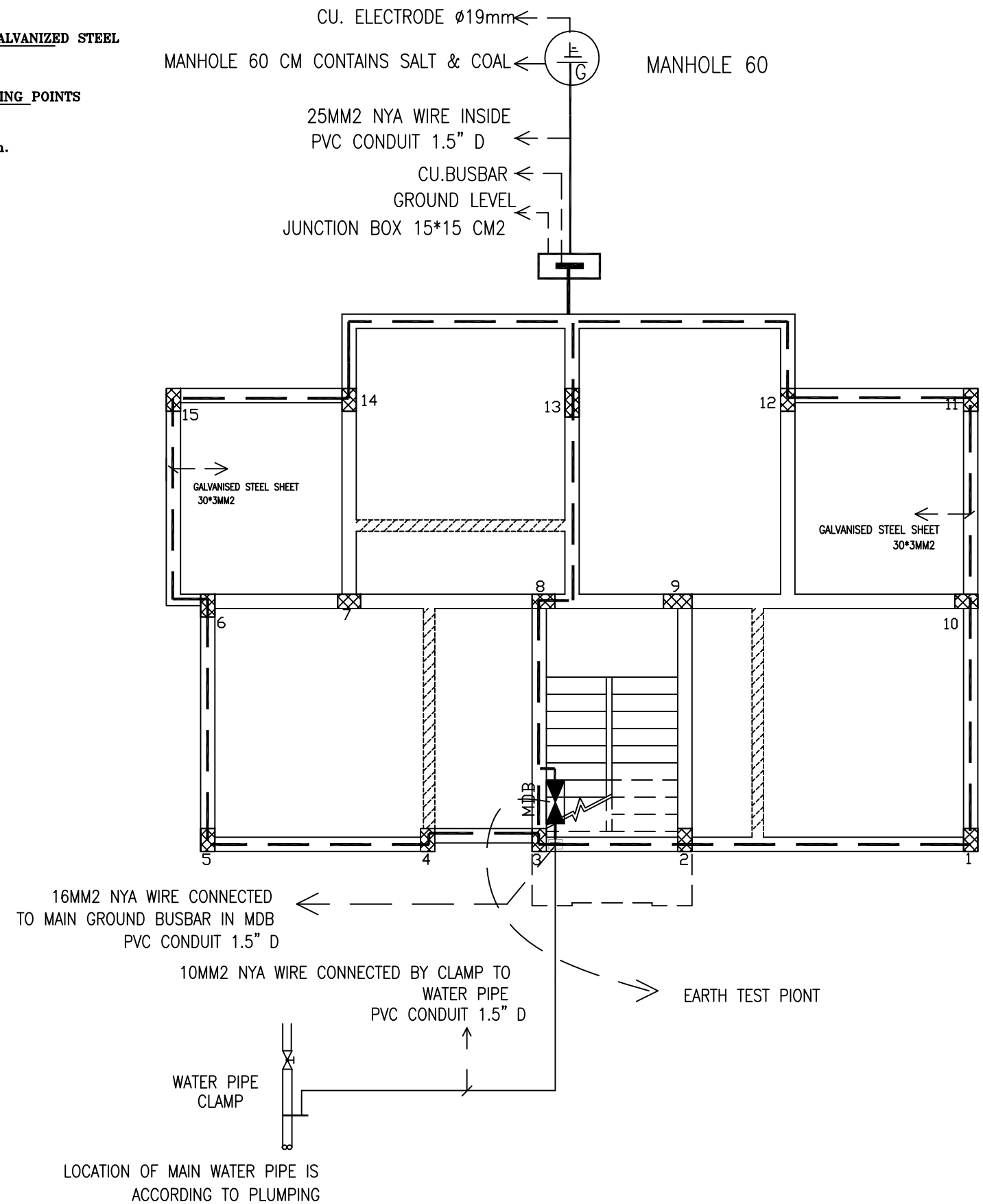


GALVANIZED STRIP (T-JOINT)



EARTHING DETAIL

يجب تمديد الارث الكهربائي قبل الصب



THE EARTHING SYSTEM RESISTANCE SHOULD BE LESS THAN OR EQUAL 2 OHM

NOTES

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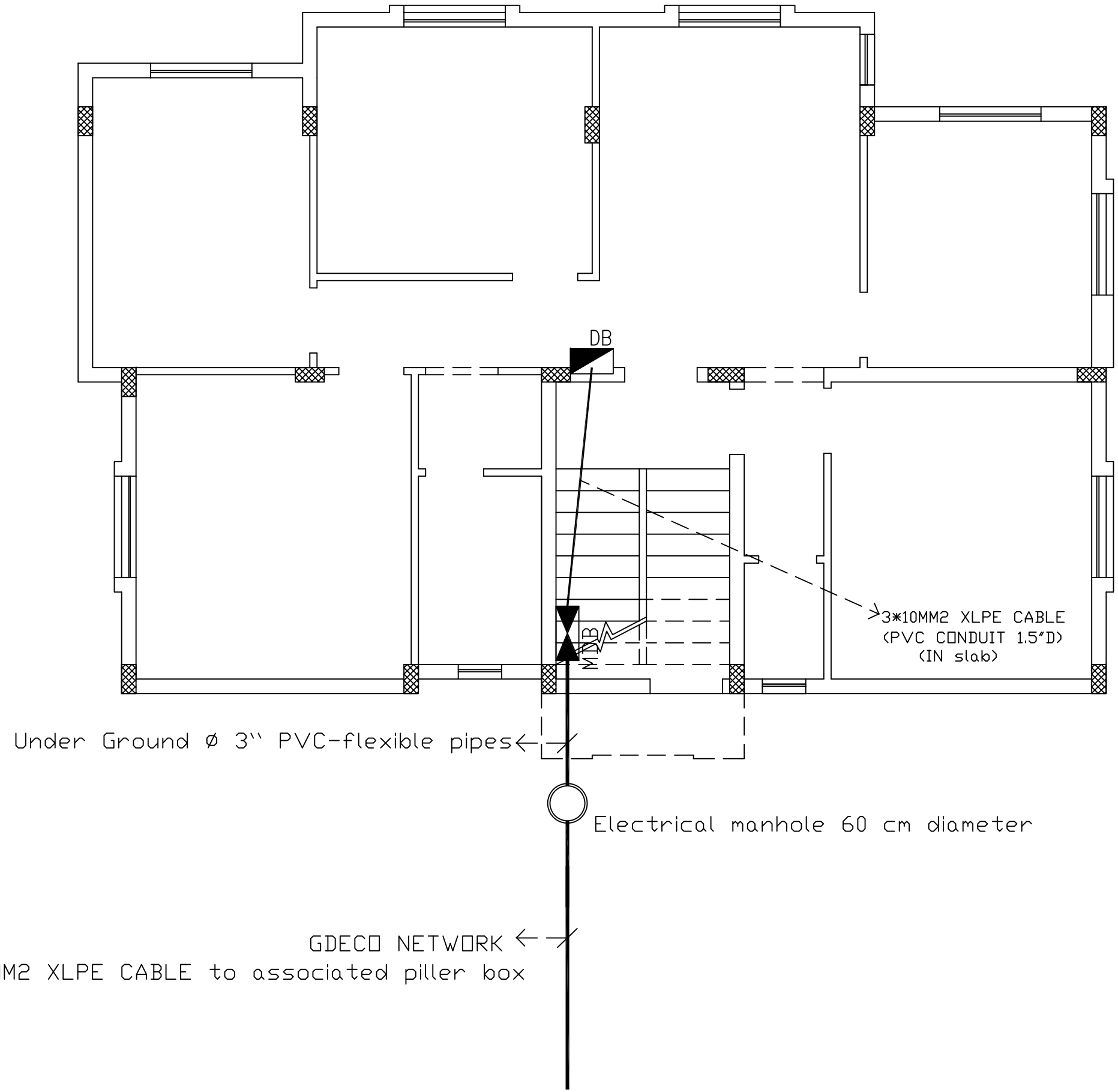
IN RAFAH

Earthing System

Symbol	Drawing No.:	Rev. No.
RES	*T6 - E 02*	R1



NOTES

No.	Description	Date	By
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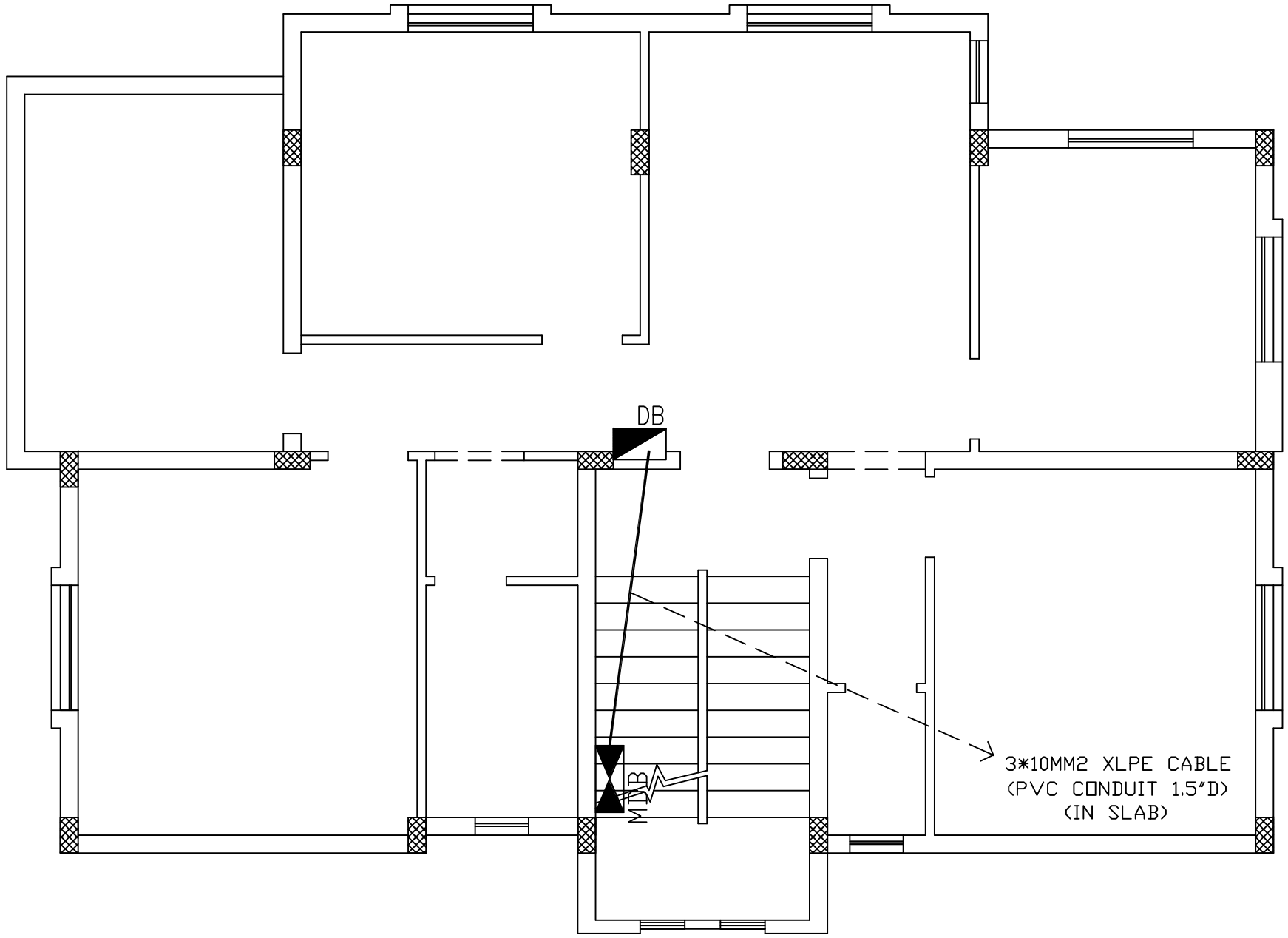
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Main Electrical Incoming and Distributions

Symbol	Drawing No.:	Rev. No.
RES	*T6 - E 03*	R1



NOTES

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

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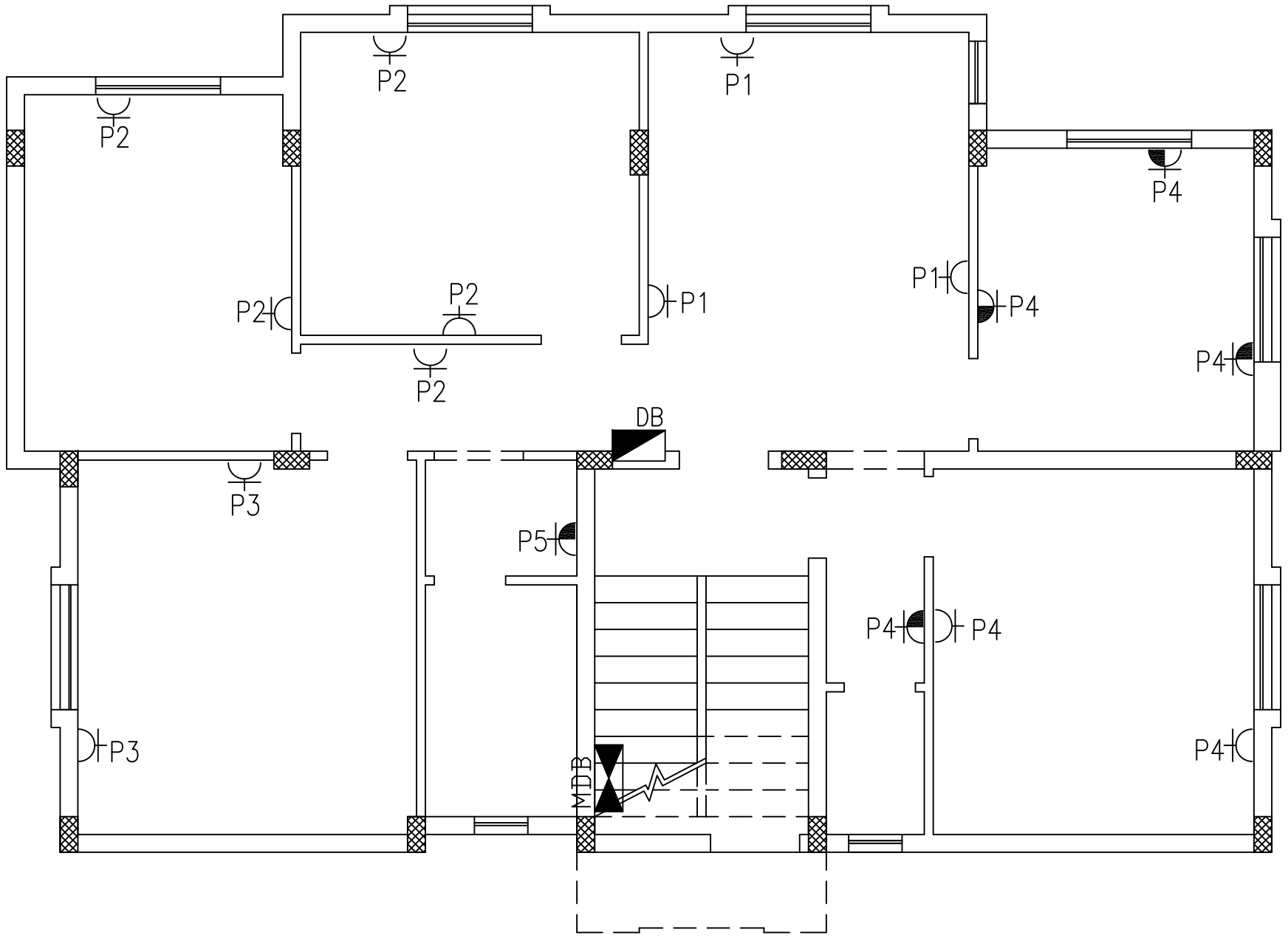
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Distribution Boards for First Floor

Symbol	Drawing No.:	Rev. No.
RES	T6 - E 04	R1



NOTES

HEIGHT OF SOCKET =90 CM FROM FFL

HEIGHT OF SOCKET =120 CM FROM FFL AT KITCHEN

HEIGHT OF BOARDS =180 CM FROM FFL TO BOTTOM

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

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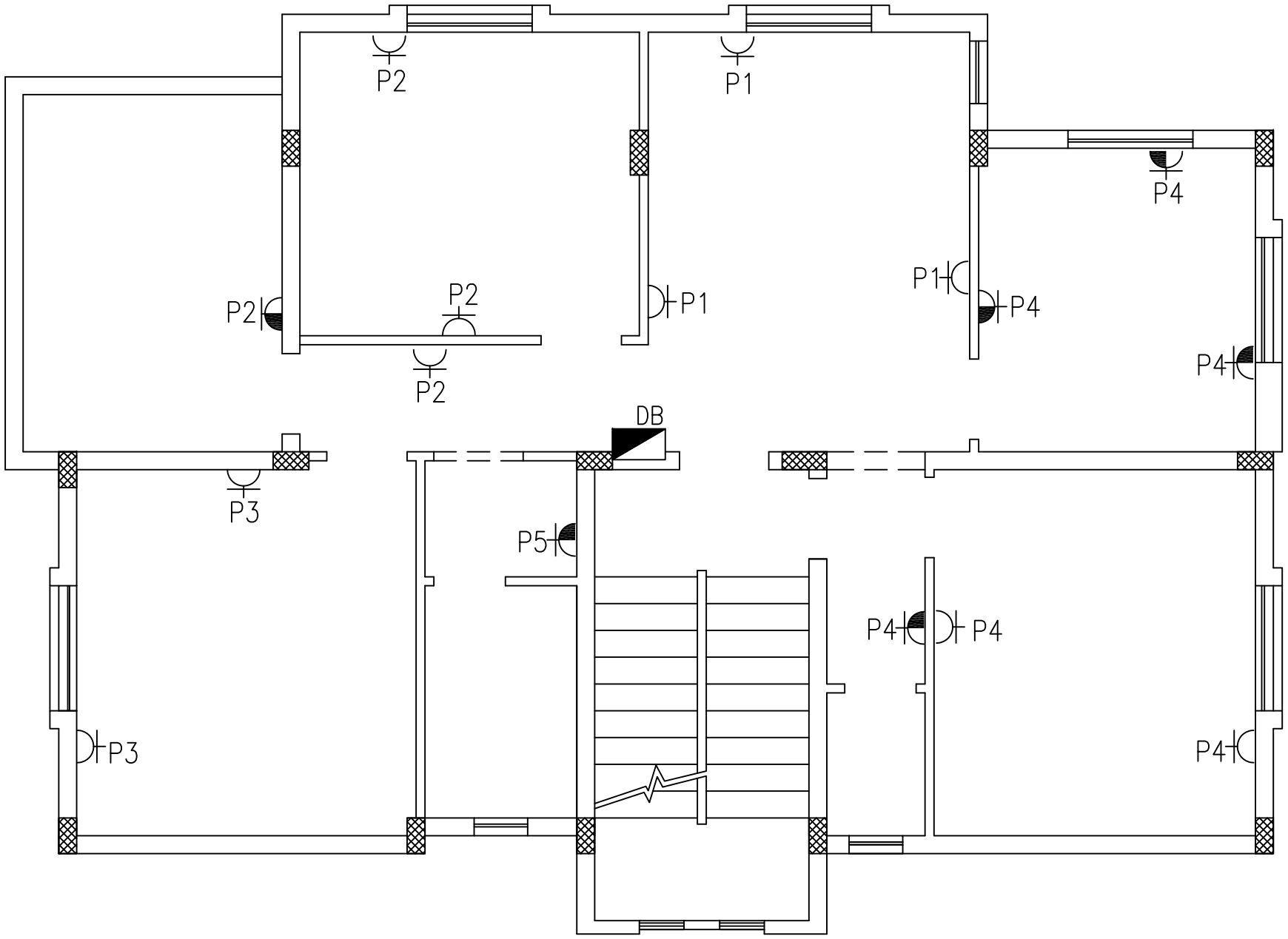
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Power Outlets Layout For Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	*T6 - E 05*	R1



NOTES

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HEIGHT OF SOCKET =120 CM FROM FFL AT KITCHEN

HEIGHT OF BOARDS =180 CM FROM FFL TO BOTTOM

No.	Description	Date	By
4			
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PALESTINIAN NATIONAL AUTHORITY

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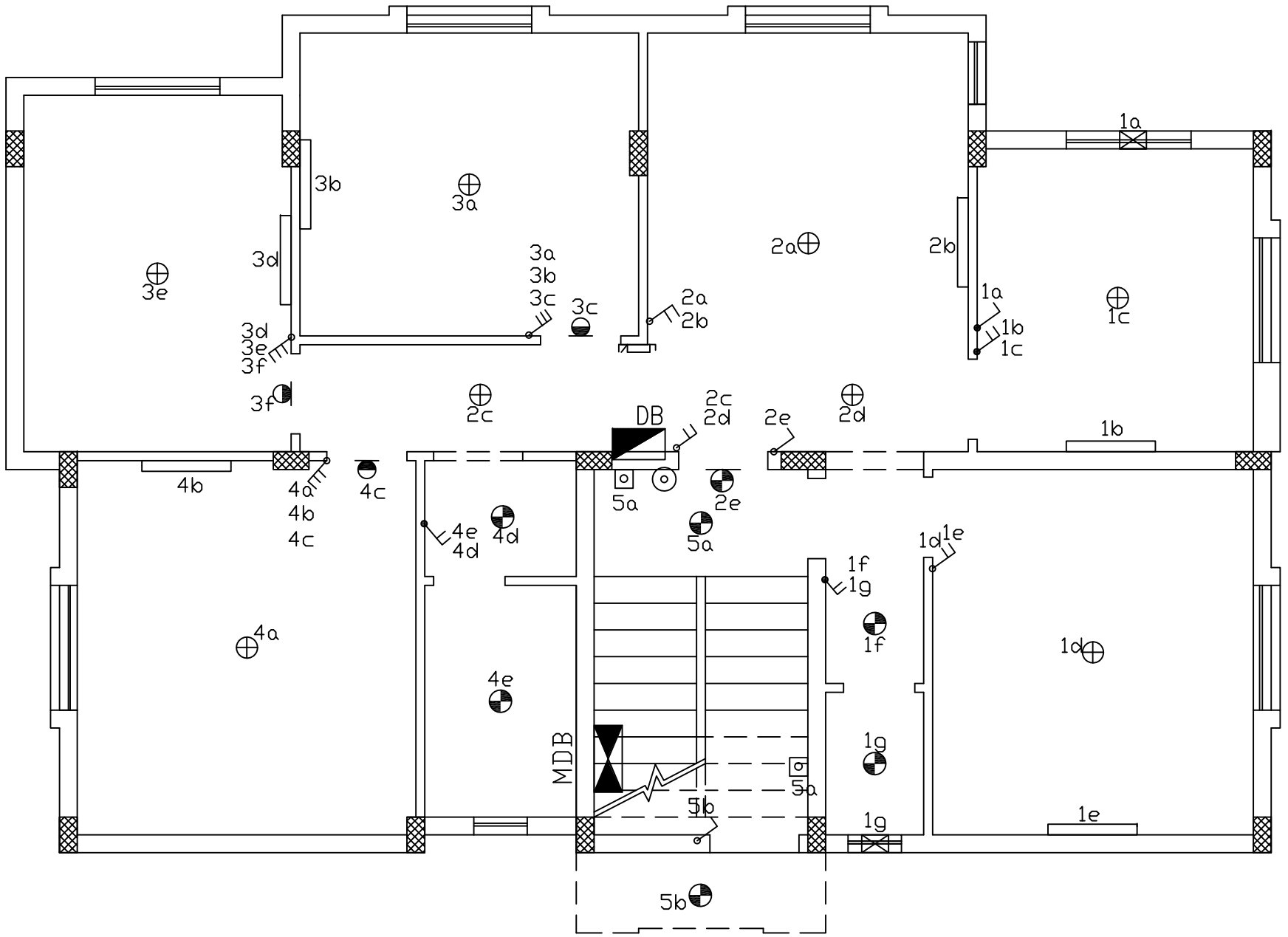
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Power Outlets Layout for First Floor

Symbol	Drawing No.:	Rev. No.
RES	*T6 - E 06*	R1



NOTES

HEIGHT OF SWITCHES =137 CM FROM FFL

EXHAUST FAN =220 CM FROM FFL

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

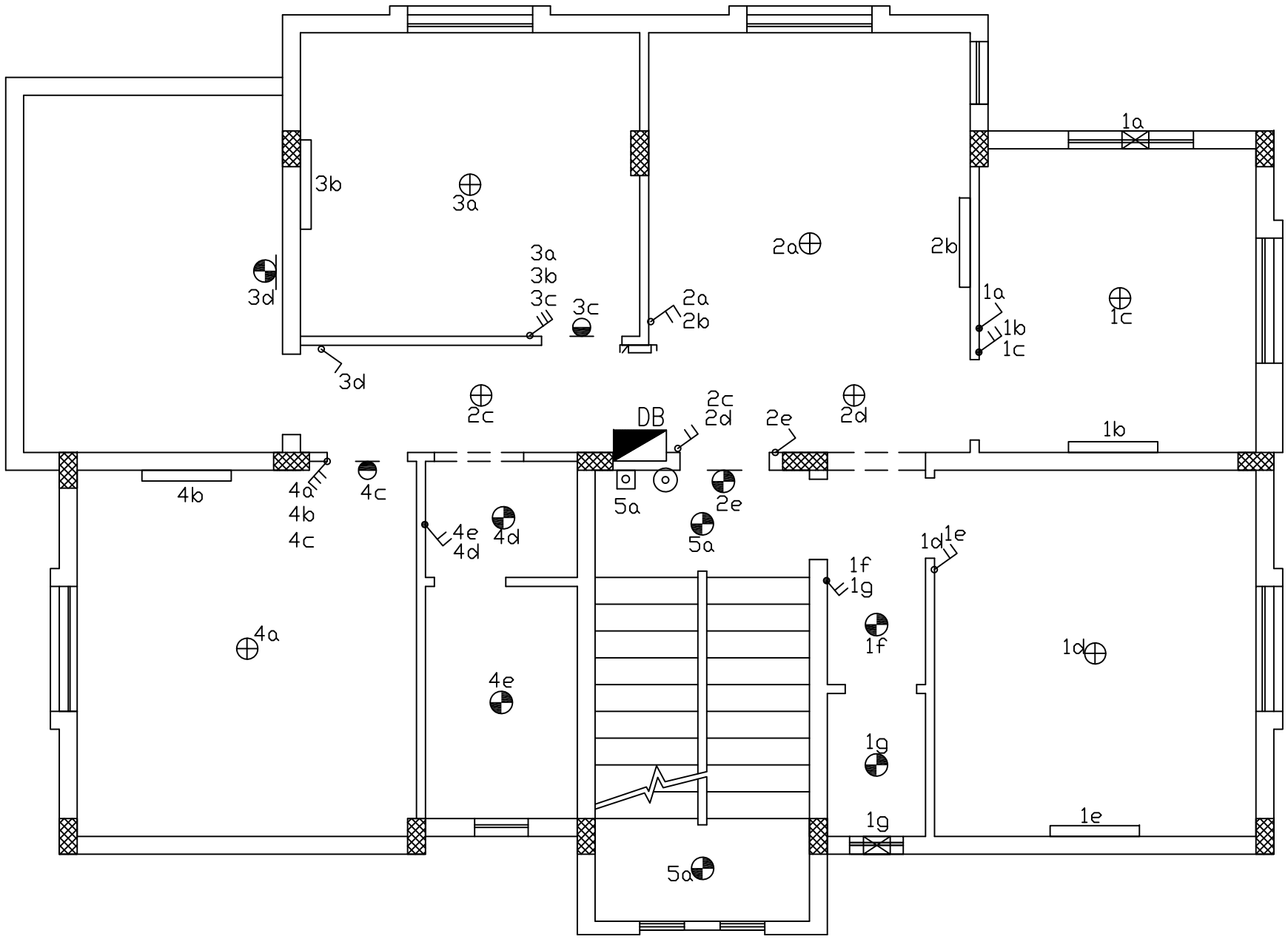
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Lighting Layout For Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	T6 - E 07	R1



NOTES

HEIGHT OF SWITCHES =137 CM FROM FFL

EXHAUST FAN =220 CM FROM FFL

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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DONATED BY:

اللجنة السعودية لإغاثة الشعب الفلسطيني

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

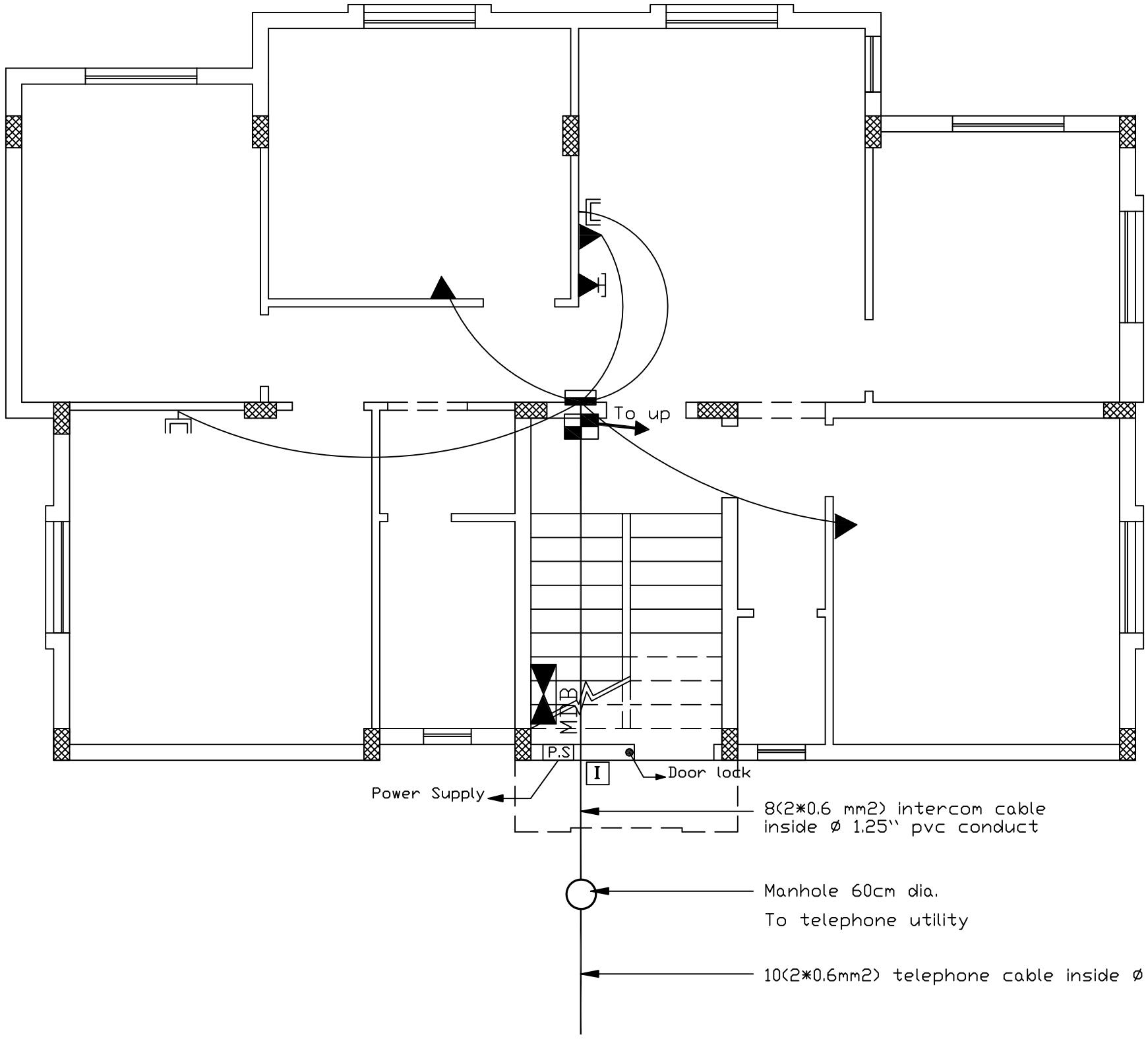
UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Lighting Layout for First Floor

Symbol	Drawing No.:	Rev. No.
RES	*T6 - E 08*	R1



NOTES

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

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PALESTINIAN NATIONAL AUTHORITY

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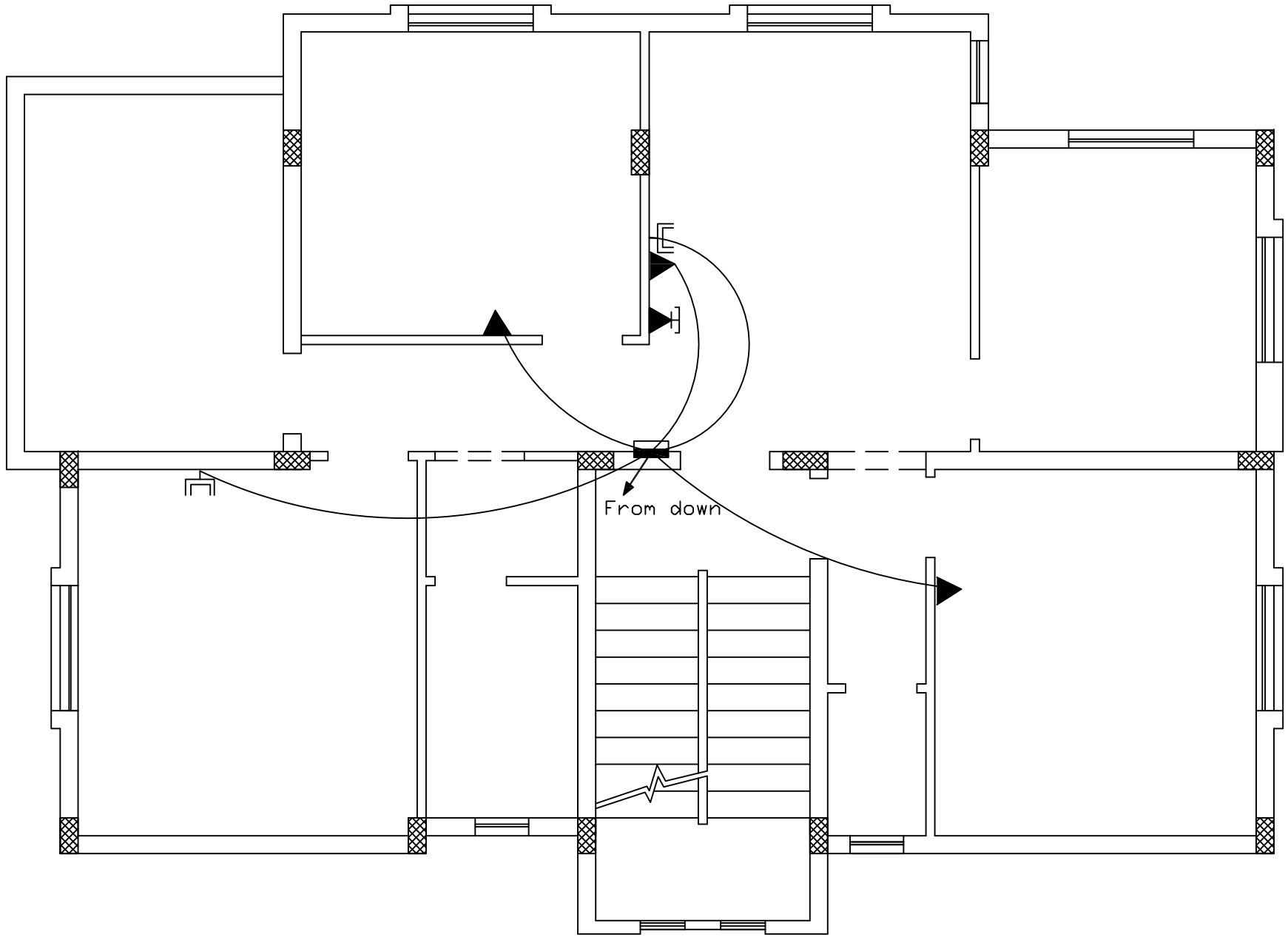
UNDP

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Intercom, TV. and Telephone Layout for Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	T6 - E 09	R1



NOTES

No.	Description	Date	By
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Revisions

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PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

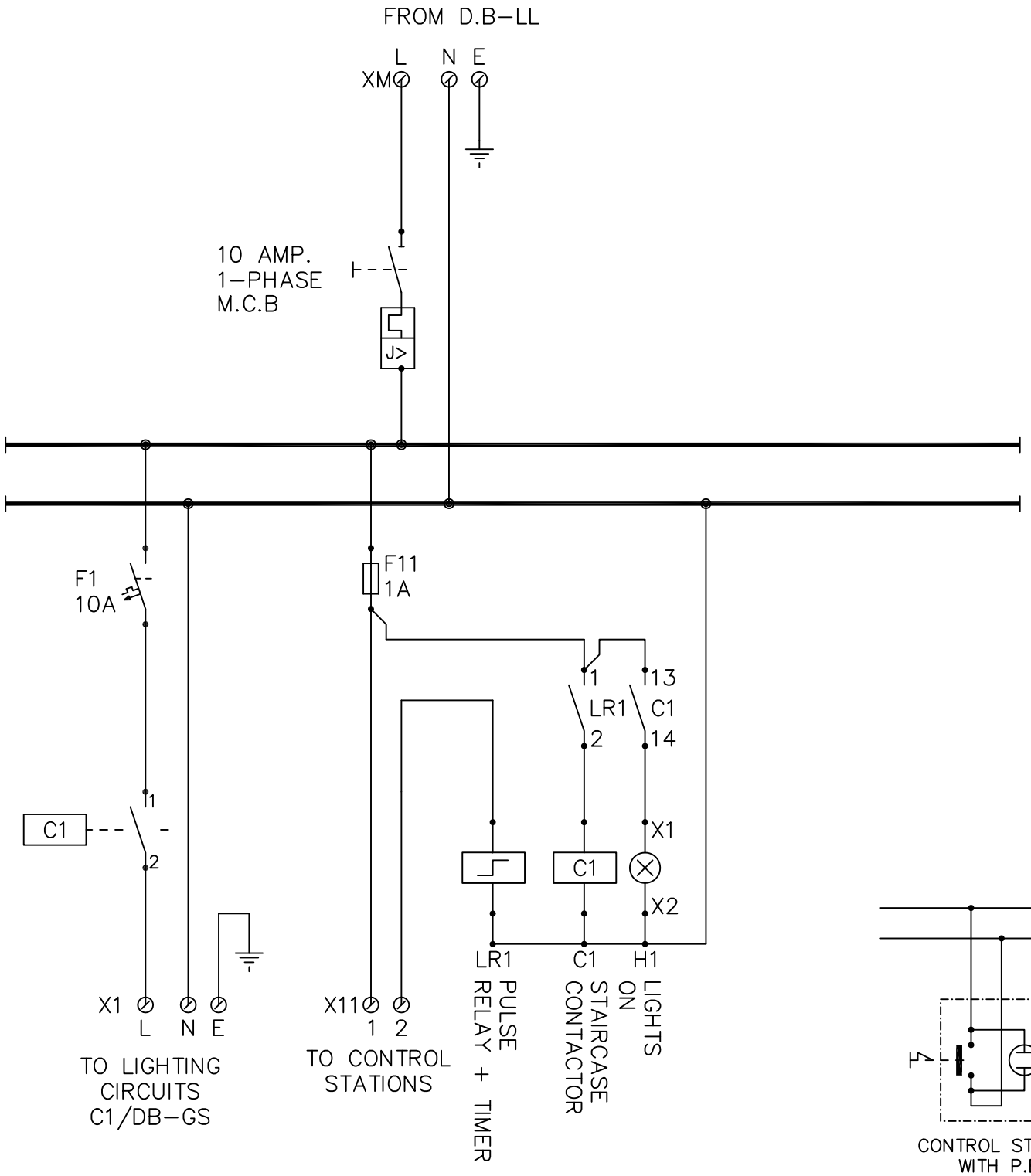
UNDP

PROJECT:-

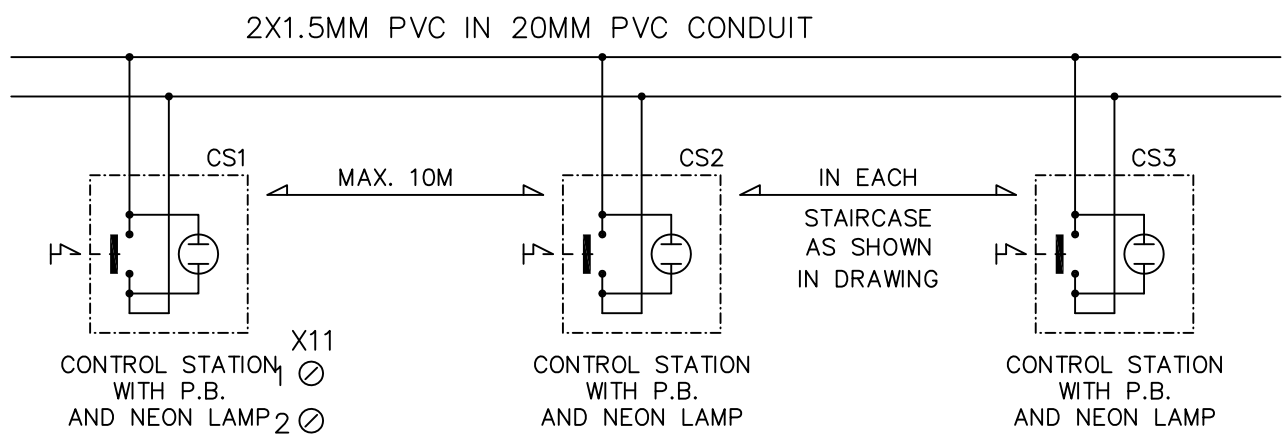
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Intercom, TV. and Telephone Layout for First Floor

Symbol	Drawing No.:	Rev. No.
RES	T6 - E 10	R1



TYPICAL STAIRCASE LIGHTING CIRCUIT



TYPICAL LIGHTING CIRCUIT DETAIL FOR STAIRCASE

NOTES

No.	Description	Date	By
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Designed	Drawn	Checked	Approved

Date	File Name	Scale

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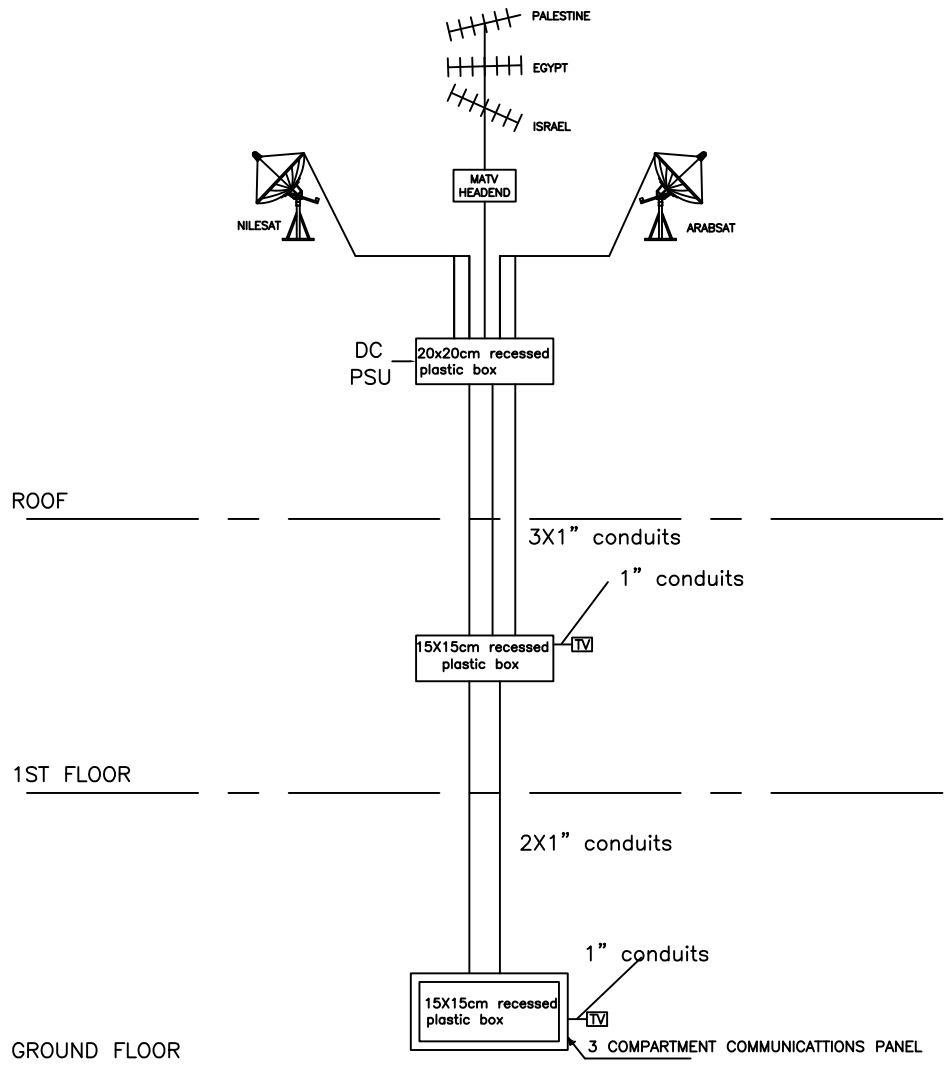
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

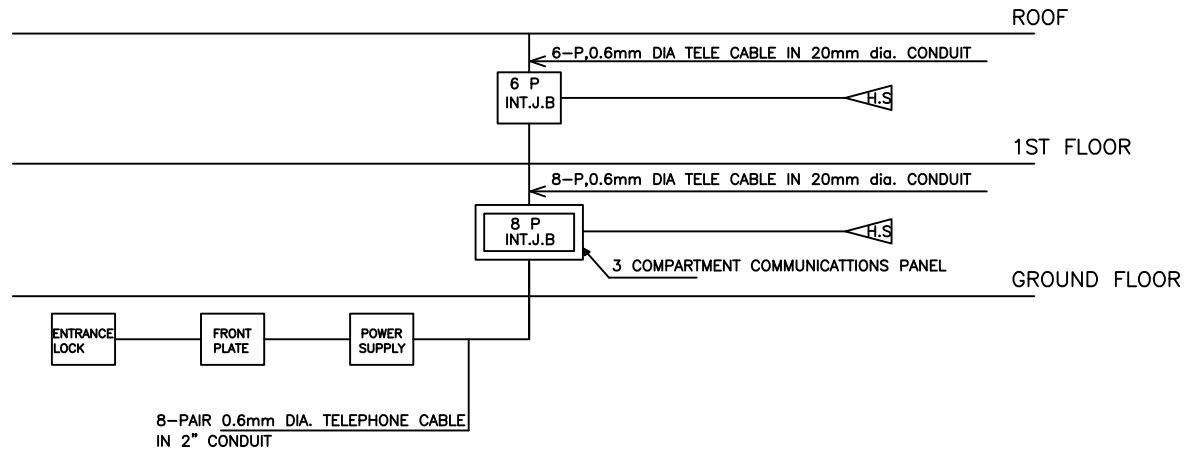
TYPICAL DISTRIBUTION BOARD FOR STAIRCASE

Symbol	Drawing No.:	Rev. No.
RES	T6 - E 11	R1

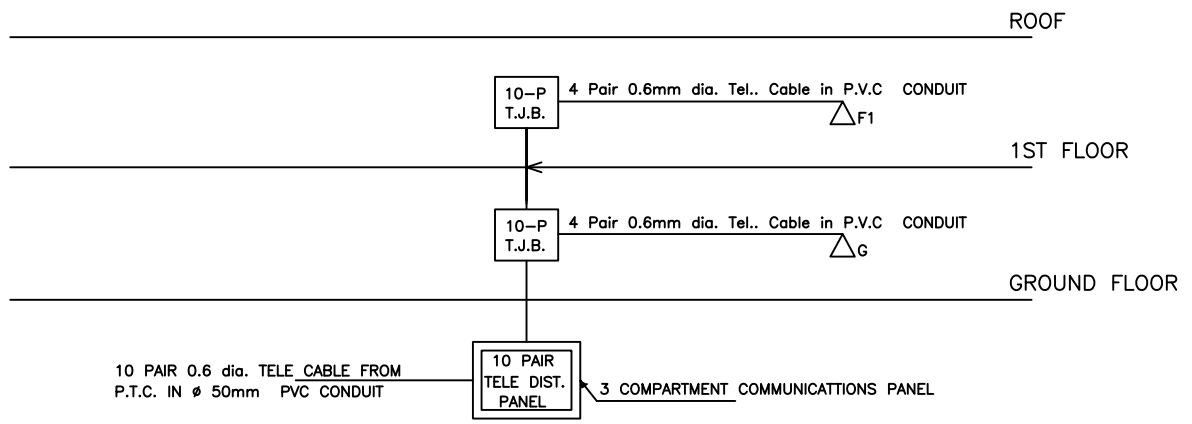


CENTRAL SATELLITE AND TELEVISION RISER DIAGRAM

Carcassing Only (boxes and conduits)



INTERCOM SYSTEM RISER DIAGRAM



TELEPHONE RISER DIAGRAM

NOTES

LEGEND:

P: DENOTES ONE PAIR OF CABLE

H.S : HAND SET COMPLETE WITH LOCK OPENING PUSH BUTTON

FRONT PLATE SHALL BE EQUIPPED WITH:

a) AUDIO MODULE
b) CALL BUTTON MODULE
c) REMOTE MIC

No.	Description	Date	By
4			
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IMPLEMENTED BY:

PROJECT:-

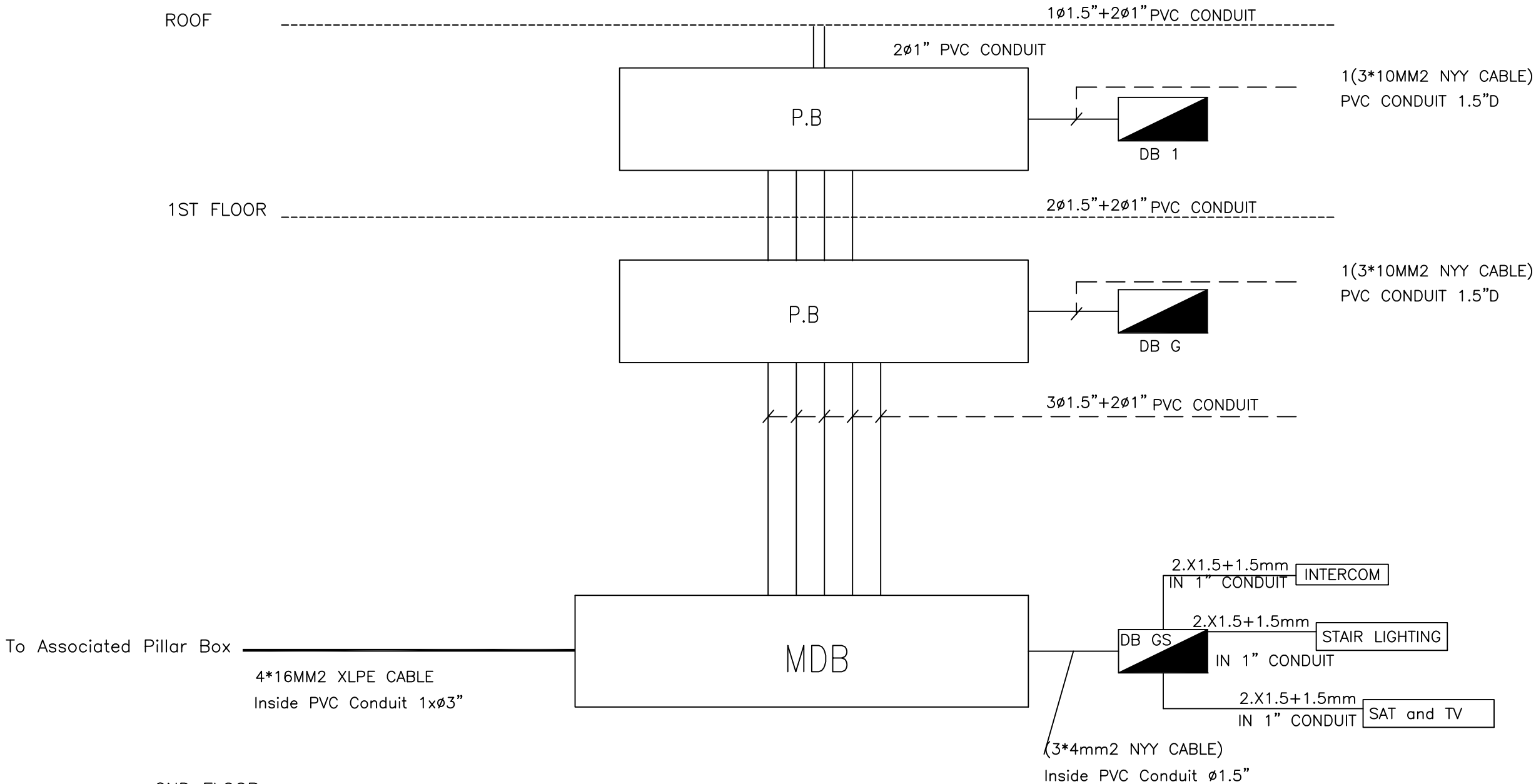
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Tv., Tel., Sat & Intercom Riser Diagram

Symbol	Drawing No.:	Rev. No.
RES	*T6 - E 12*	R1

NOTES:

1. DO NOT SCALE FROM THIS DRAWING
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL, STRUCTURAL MECHANICAL, ELECTRICAL, ALL OTHER DRAWINGS AND ALL THE RELEVANT SECTIONS OF THE SPECIFICATION
3. EACH K.W.H.M CABINET TO HAVE SUITABLE LOCK WITH MODULAR CONSTRUCTION EQUIPPED WITH DOOR AND SUITABLE GLAZED WINDOW TO READ THE K.W.H.M WITHOUT OPENING THE DOOR.



NOTES

LEGEND

DB SECONDARY DISTRIB. BOARD

DB XY X=FLOOR NO.,Y=FLAT NO.

P.B PULL BOX 40*25*8 CM

No.	Description	Date	By
4			
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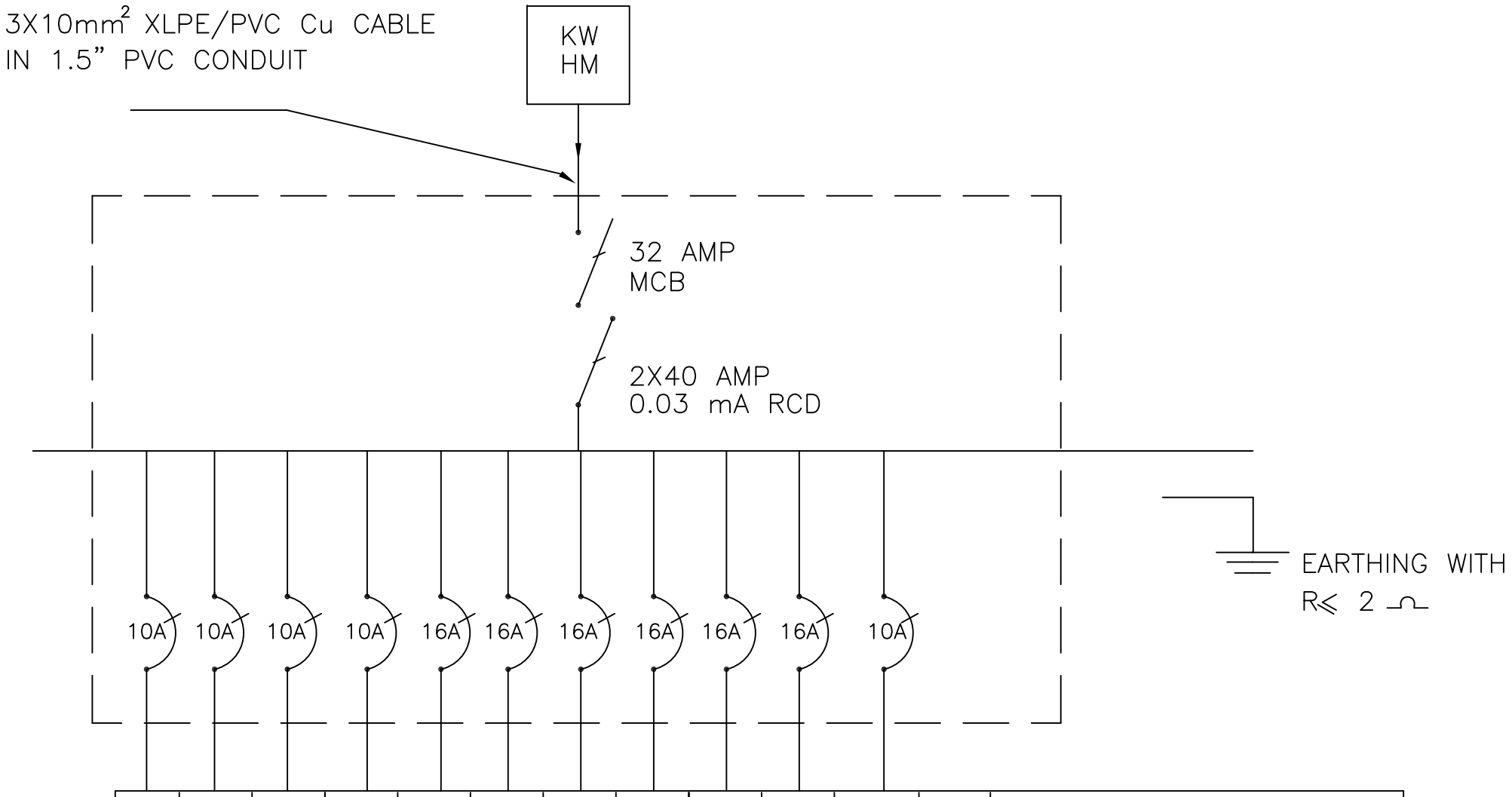
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Power Riser Diagram

Symbol	Drawing No.:	Rev. No.
RES	*T6 - E 13*	R1



L1	L2	L3	L4	P1	P2	P3	P4	P5	PS	LS		CIRCUIT NUMBER
800	700	700	700	800	1000	500	1500	1500		–	–	LOAD IN V.A.
2900				5300					SPARES			8200 TOTAL CONNECTED LOAD V.A
3X1.5 mm²				3x2.5 mm²								SIZE OF WRING MM²
20mm DIA HEAVY GAUGE PVC												SIZE OF CONDUIT AND TYPE
LIGHTING				SW. SOCKET OUTLET					SPARE			LOAD SERVED

TOTAL CONNECTED LOAD=8200 VA
DEMAND FACTOR:30%
TOTAL DEMAND=5740 VA

TYPICAL FLAT DISTRIBUTION BOARD

DB-G,1&2

NOTES

No.	Description	Date	By
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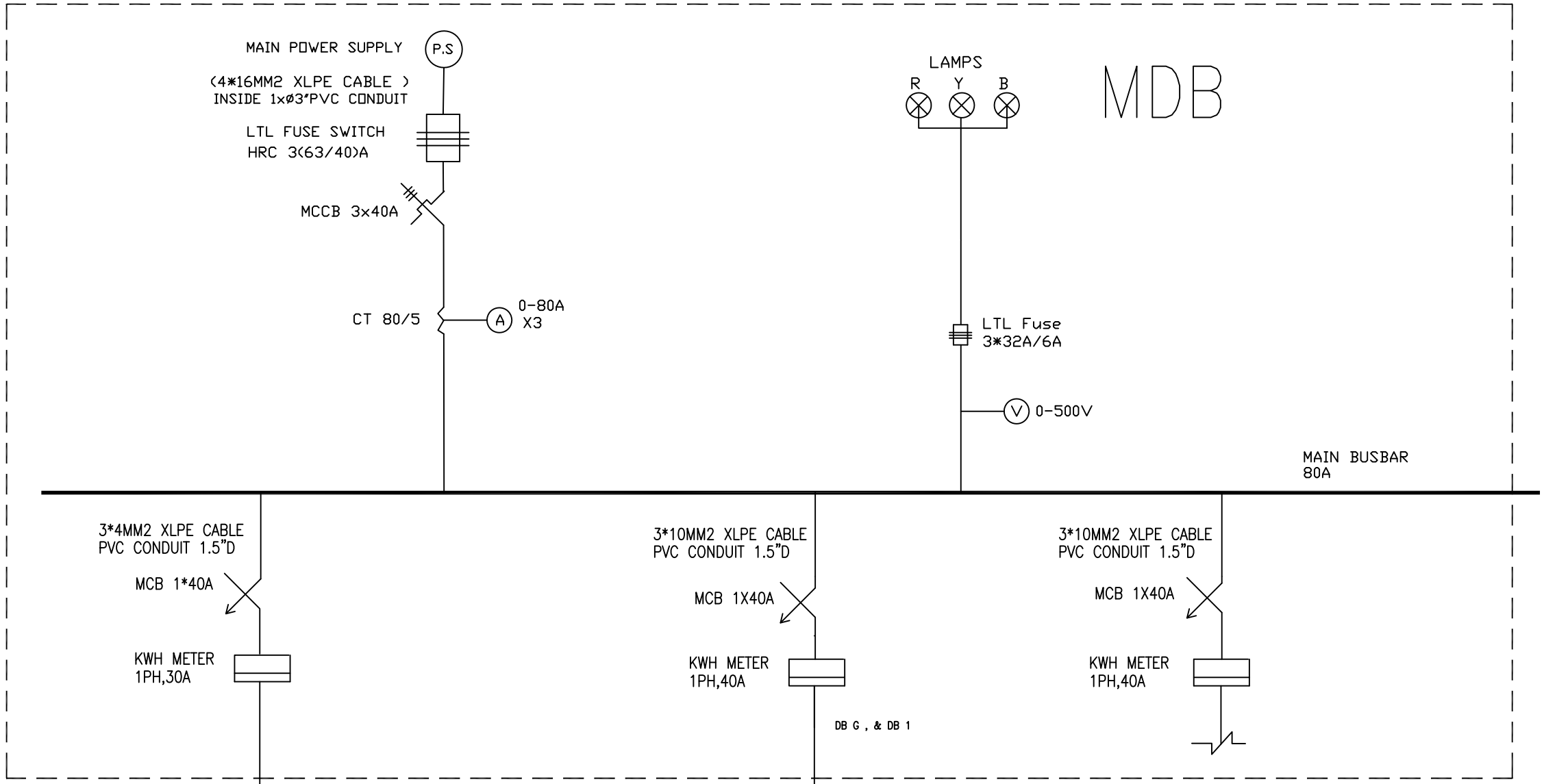
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

TYPICAL FLAT DISTRIBUTION BOARD

Symbol	Drawing No.:	Rev. No.
RES	*T6 - E 14*	R1



NOTES

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CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Distribution Board
Single Line Diagram

Symbol	Drawing No.:	Rev. No.
RES	T6 - E 15	R1

ARCHITECTURAL DRAWINGS

SS (TYPE 7)

List of Drawings- SS (Type7)

Architectural Drawings

T7-A-01 Ground Floor Plan- Type S
T7-A-02 First Floor Plan- Type S
T7-A-03 Roof Floor Plan- Type S
T7-A-04 Furniture Plan- Typical Floor (Type L)
T7-A-05 Main Elevation- No. 1
T7-A-06 Rigth Side Elevation- No. 2
T7-A-07 Rare Elevation- No. 3
T7-A-08 Left Side Elevation- No. 4
T7-A-09 Section A---A
T7-A-10 Section B---B

Mechanical Drawings

T7-M-01 Legened, General Notes, & List of Mechanical Drawings
T7-M-02 Typical Detail of Manhole & Pipeline
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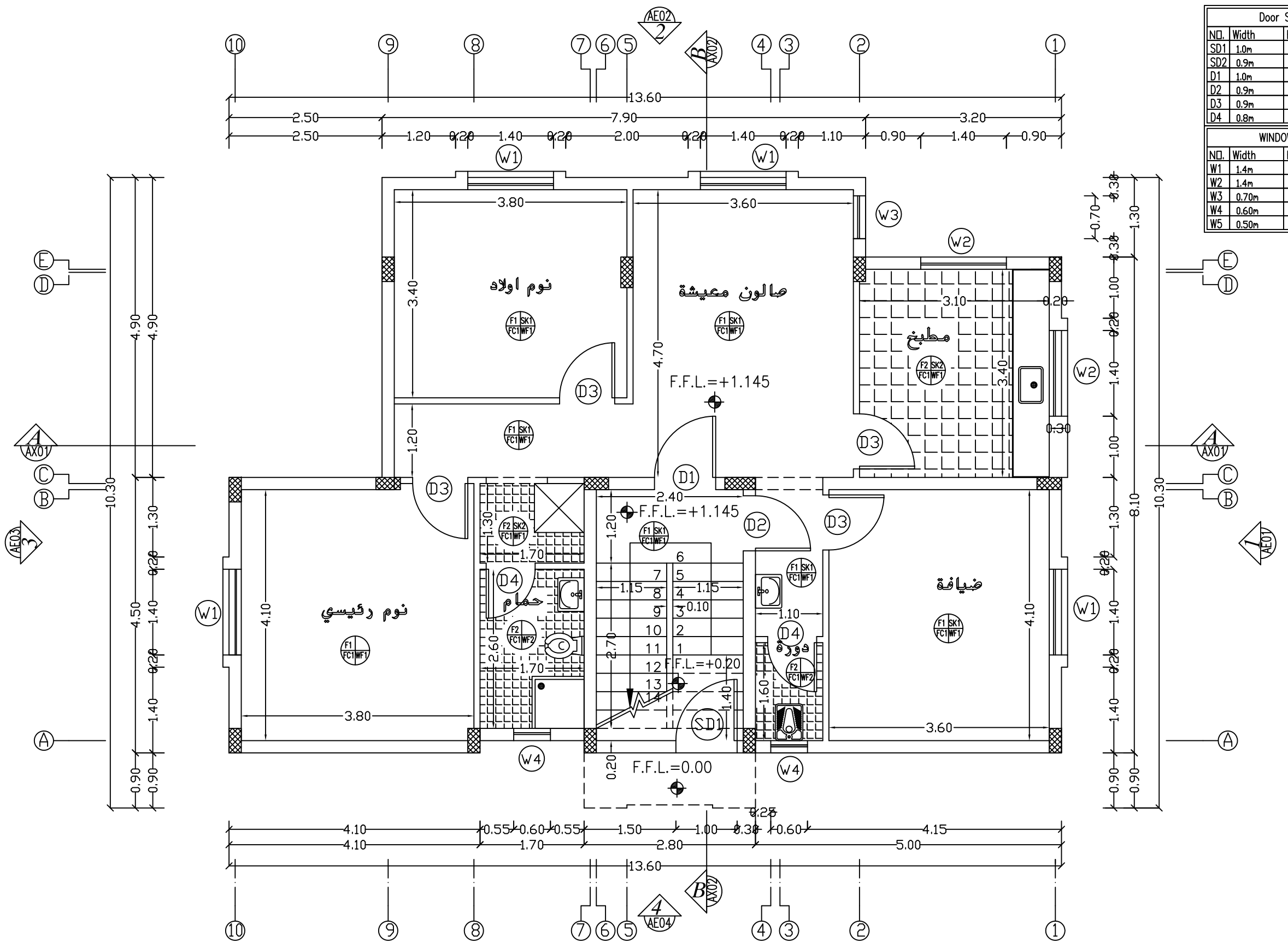

GROUND FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
3			
2			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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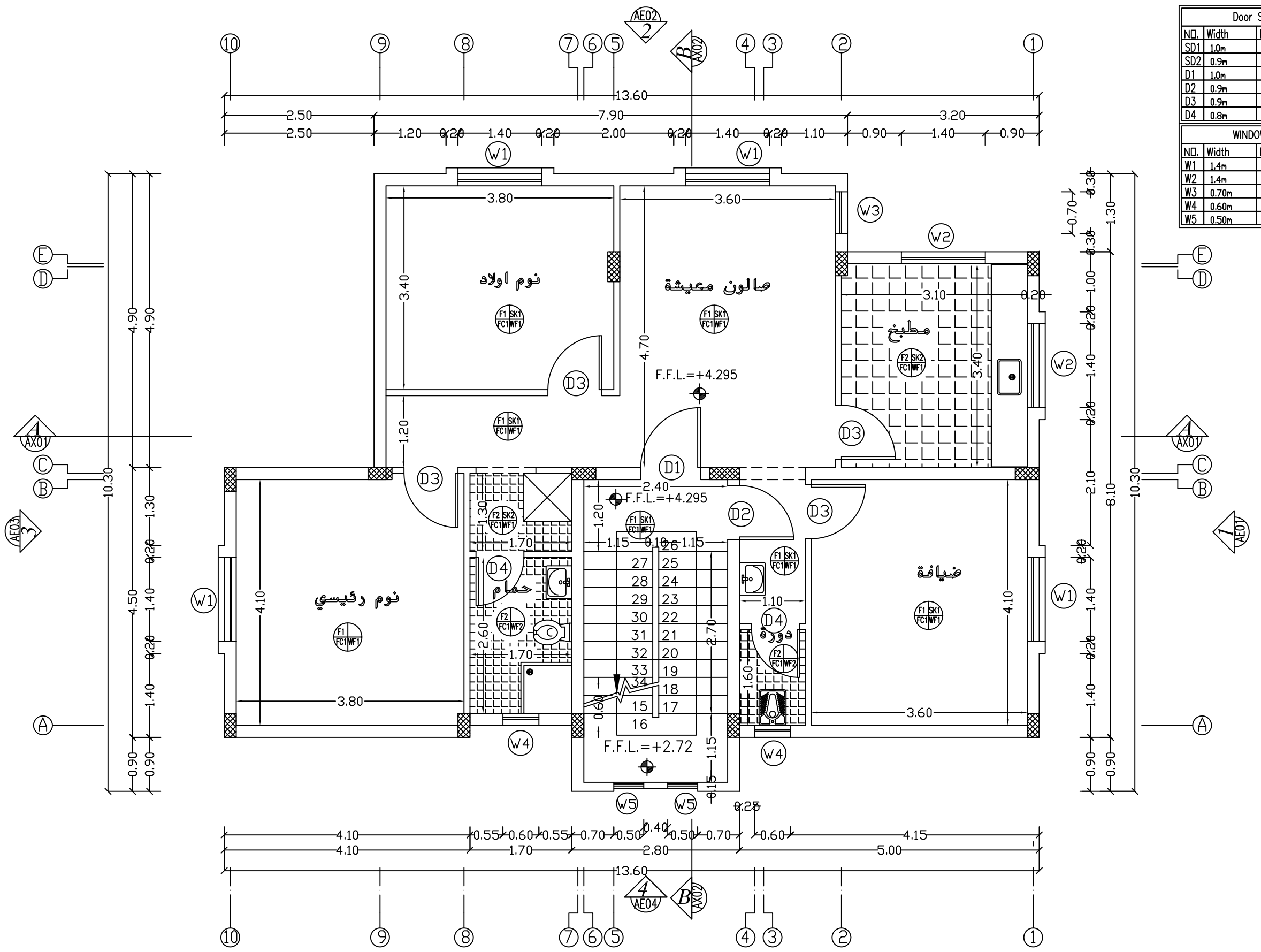
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Ground Floor Plan
Type S

Symbol	Drawing No.:	Rev. No.
RES	T7-A01	R1



FIRST FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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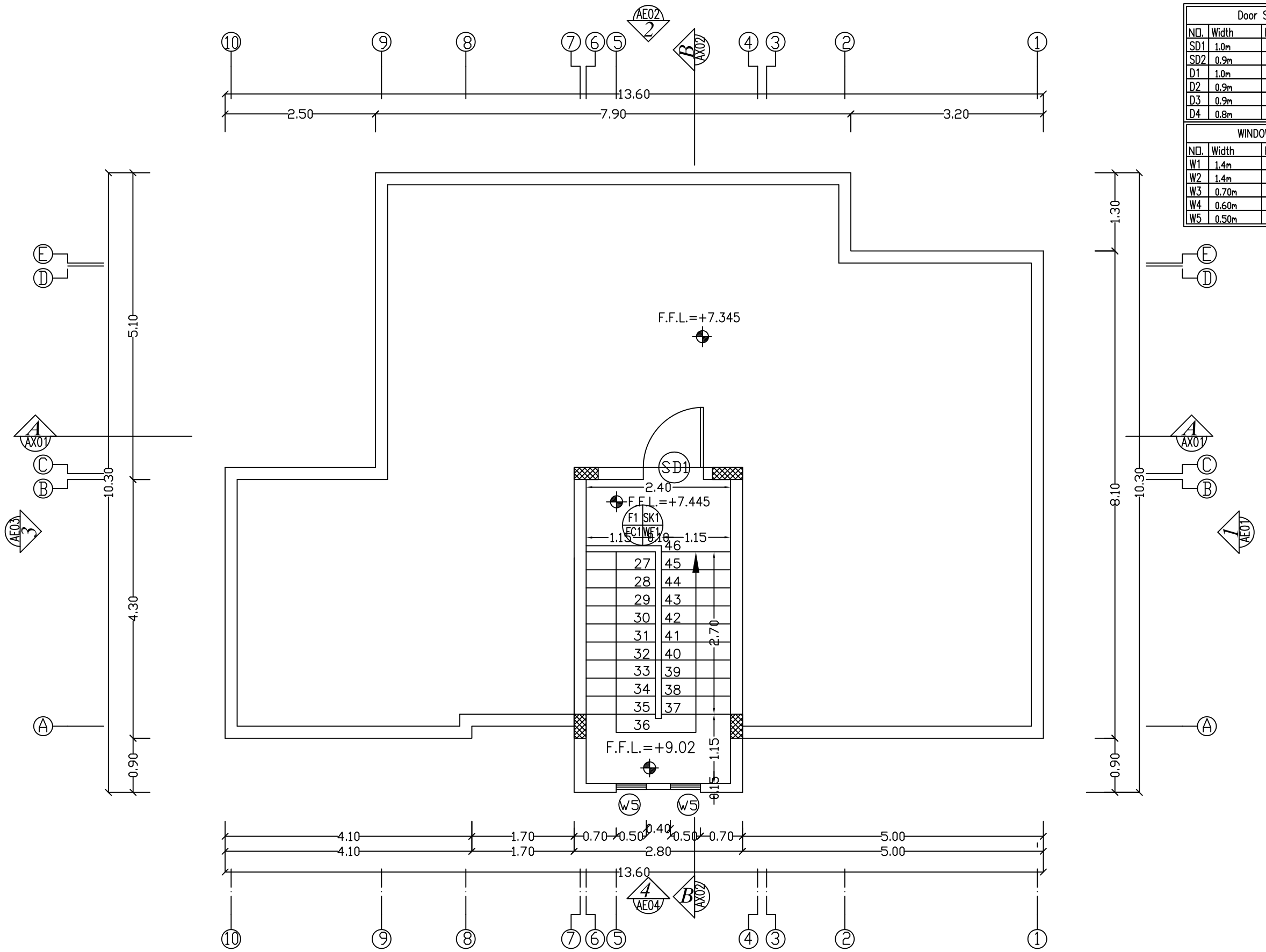
First Floor Plan
Type S

Symbol	Drawing No.:	Rev. No.
RES	T7-A02	R1



ROOF FLOOR PLAN

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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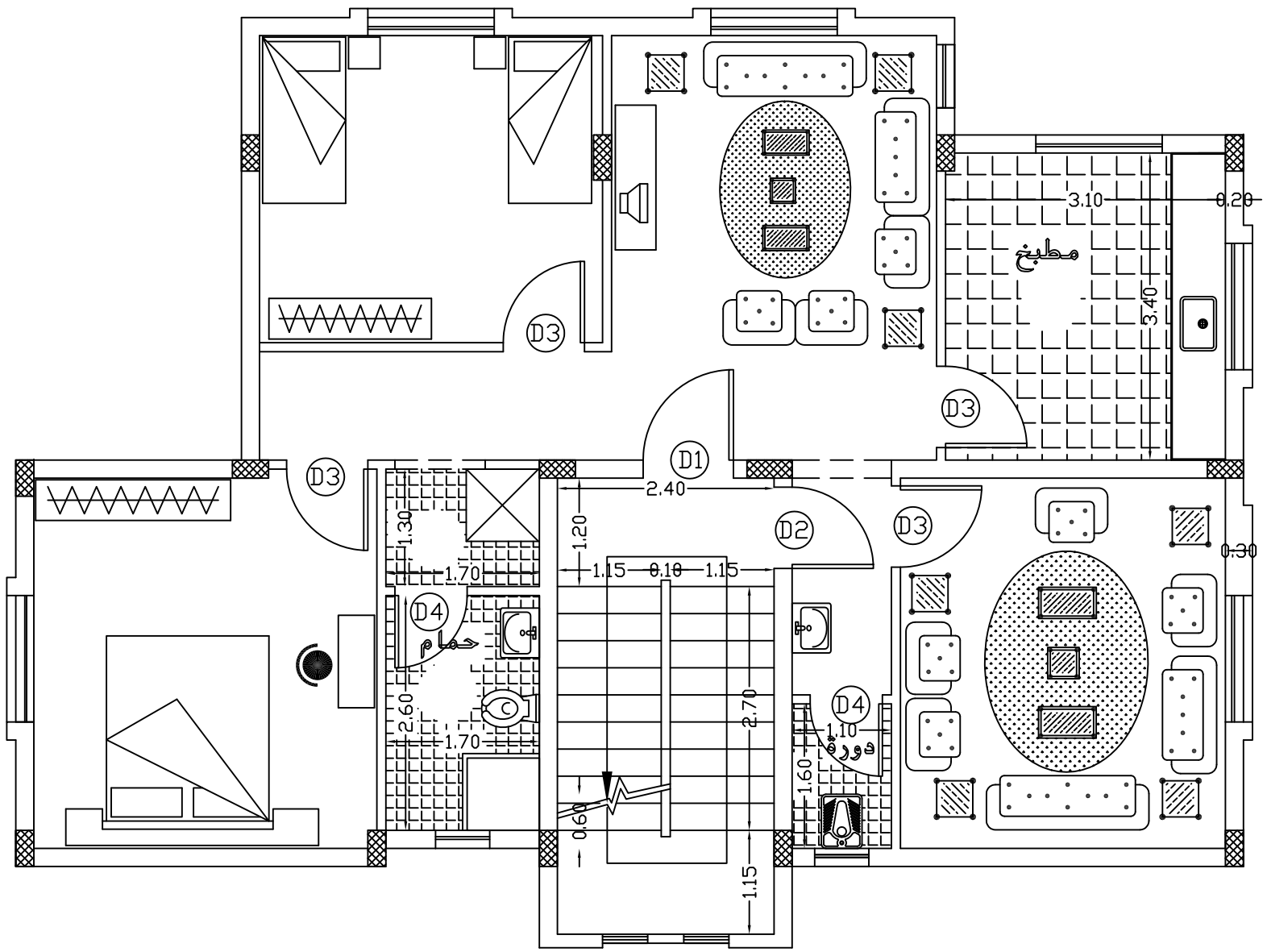
Roof Floor Plan
Type S

Symbol	Drawing No.:	Rev. No.
RES	T7-A03	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver



FURNITURE PLAN TYPICAL FLOOR

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
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Revisions

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Date	File Name	Scale

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IN RAFAH

Furniture Plan Typical Floor
Type L

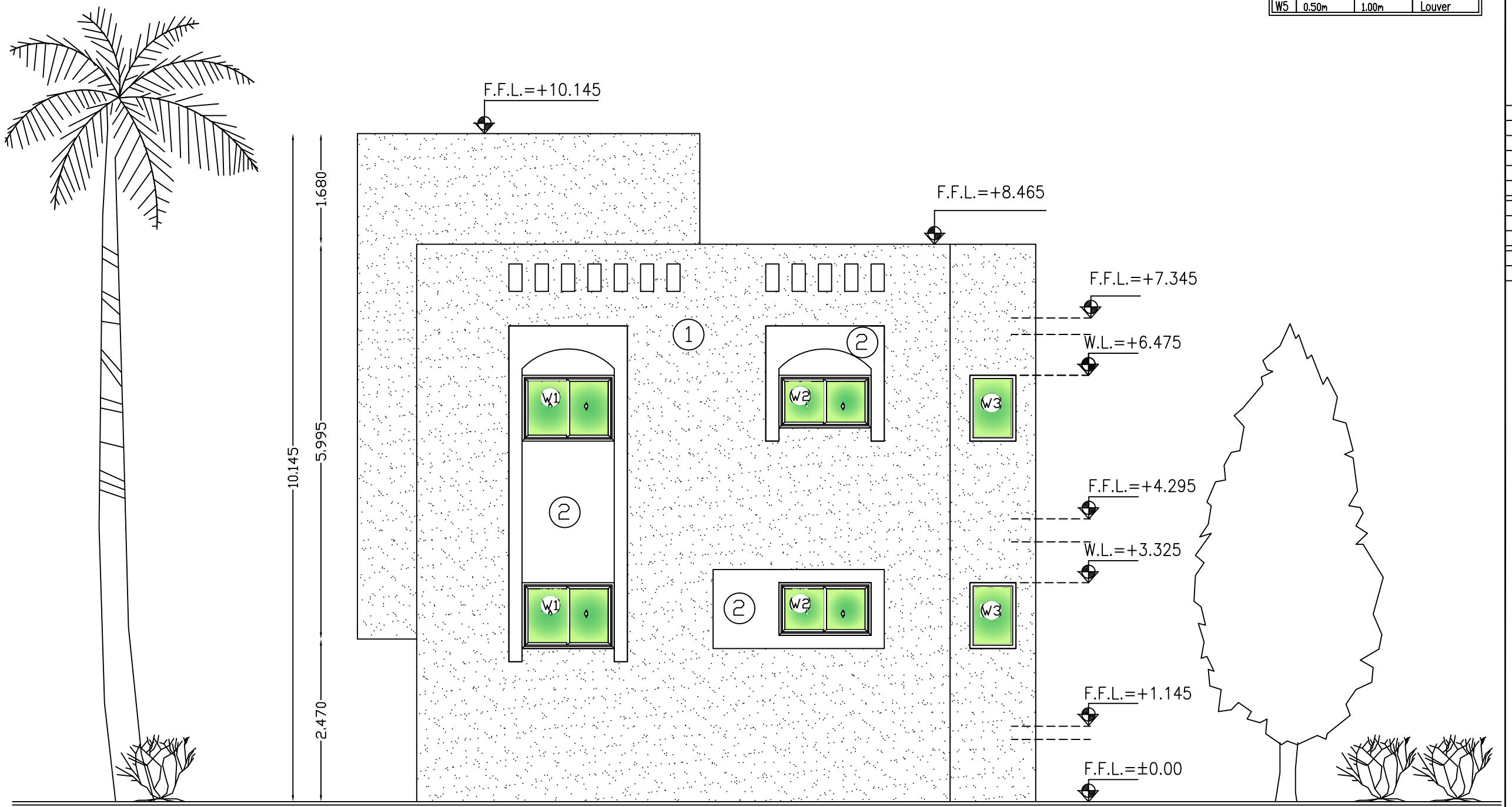
Symbol	Drawing No.:	Rev. No.
RES	T7-A04	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Main Elevation

NO. 1

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Elevation NO. 1

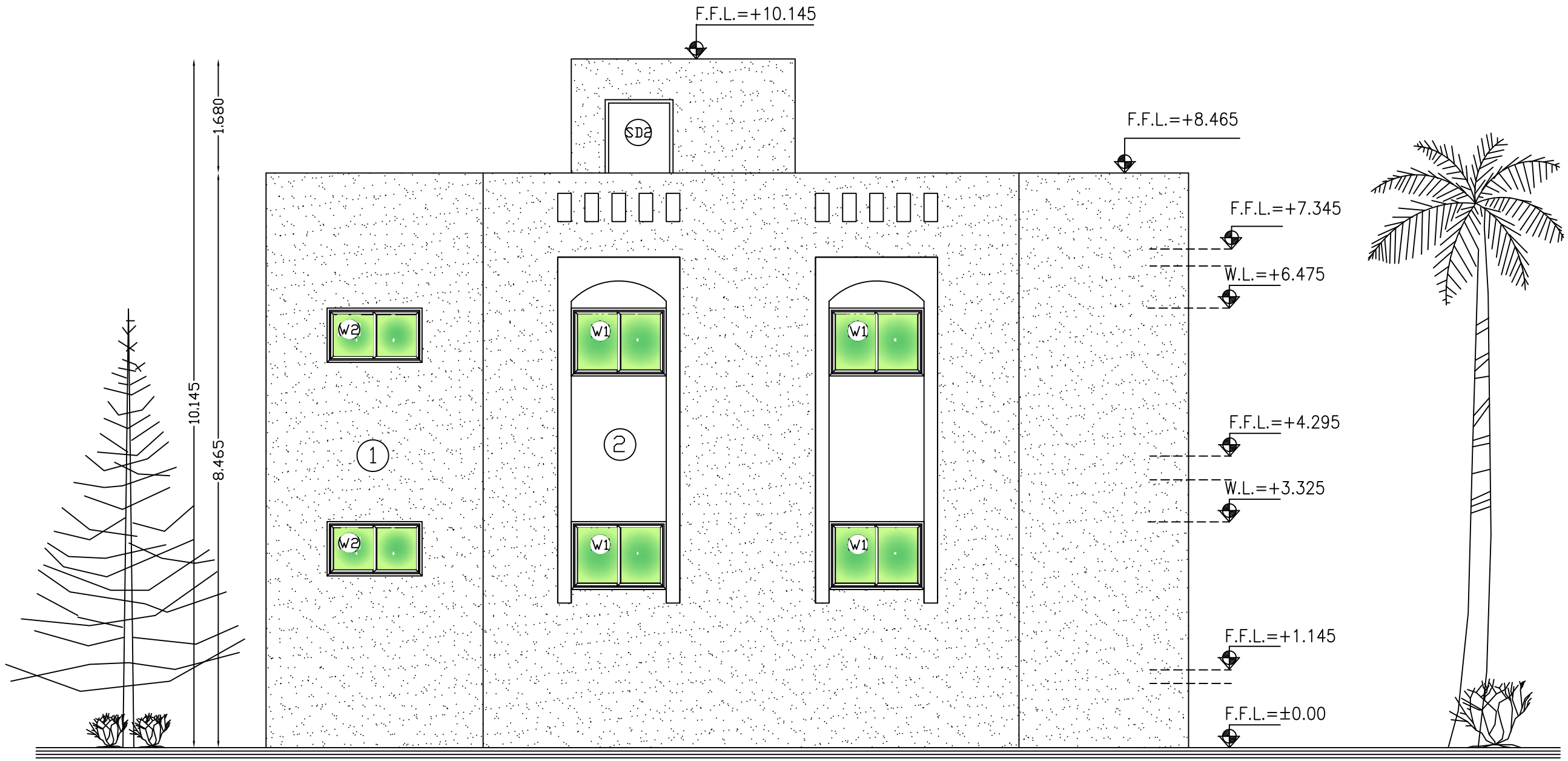
Symbol	Drawing No.:	Rev. No.
RES	T7-A05	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Right Side Elevation

NO. 2

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Right Side Elevation NO. 2

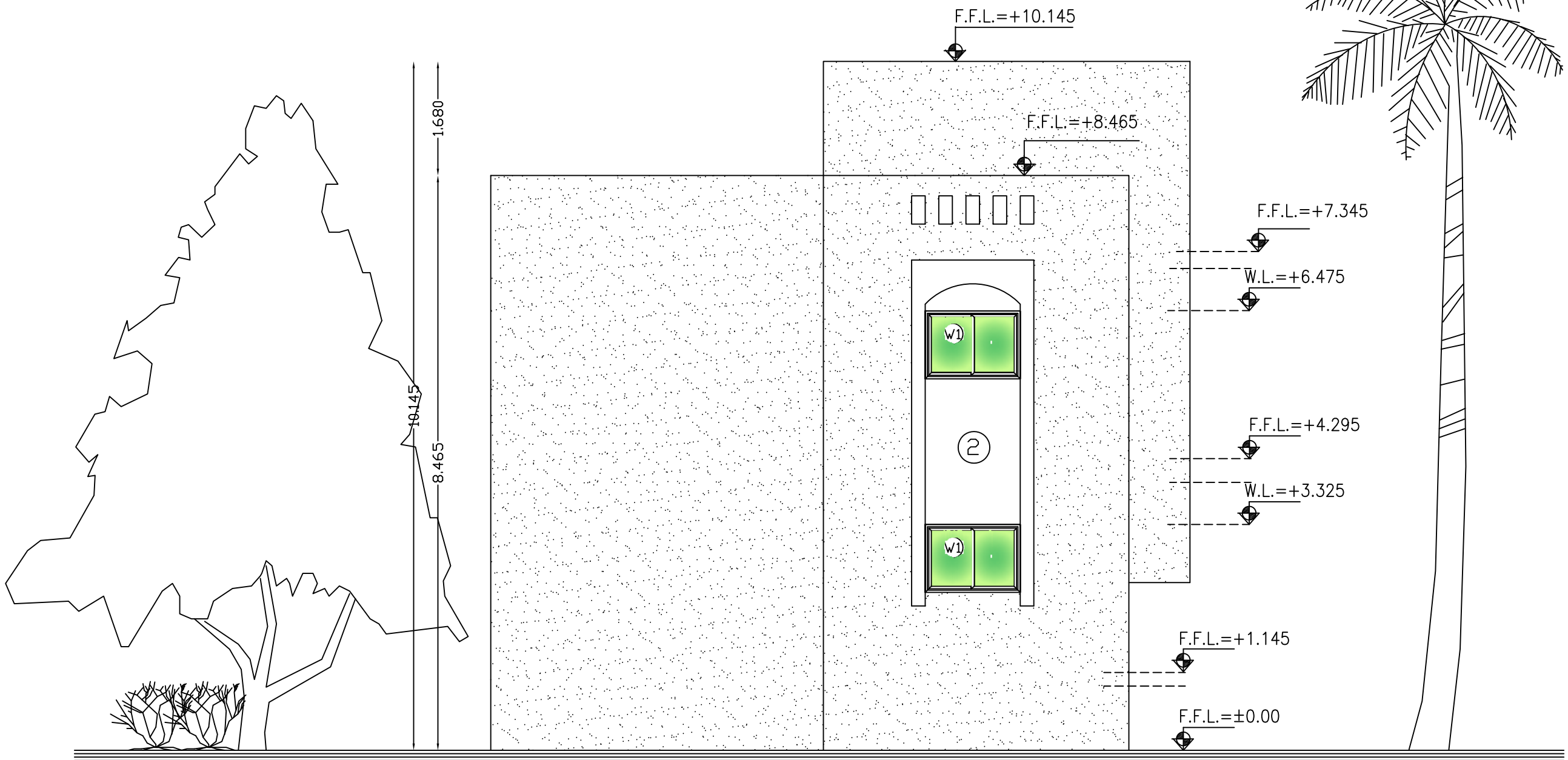
Symbol	Drawing No.:	Rev. No.
RES	T7-A06	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Rare Elevation

NO. 3

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Rare Elevation
NO. 3

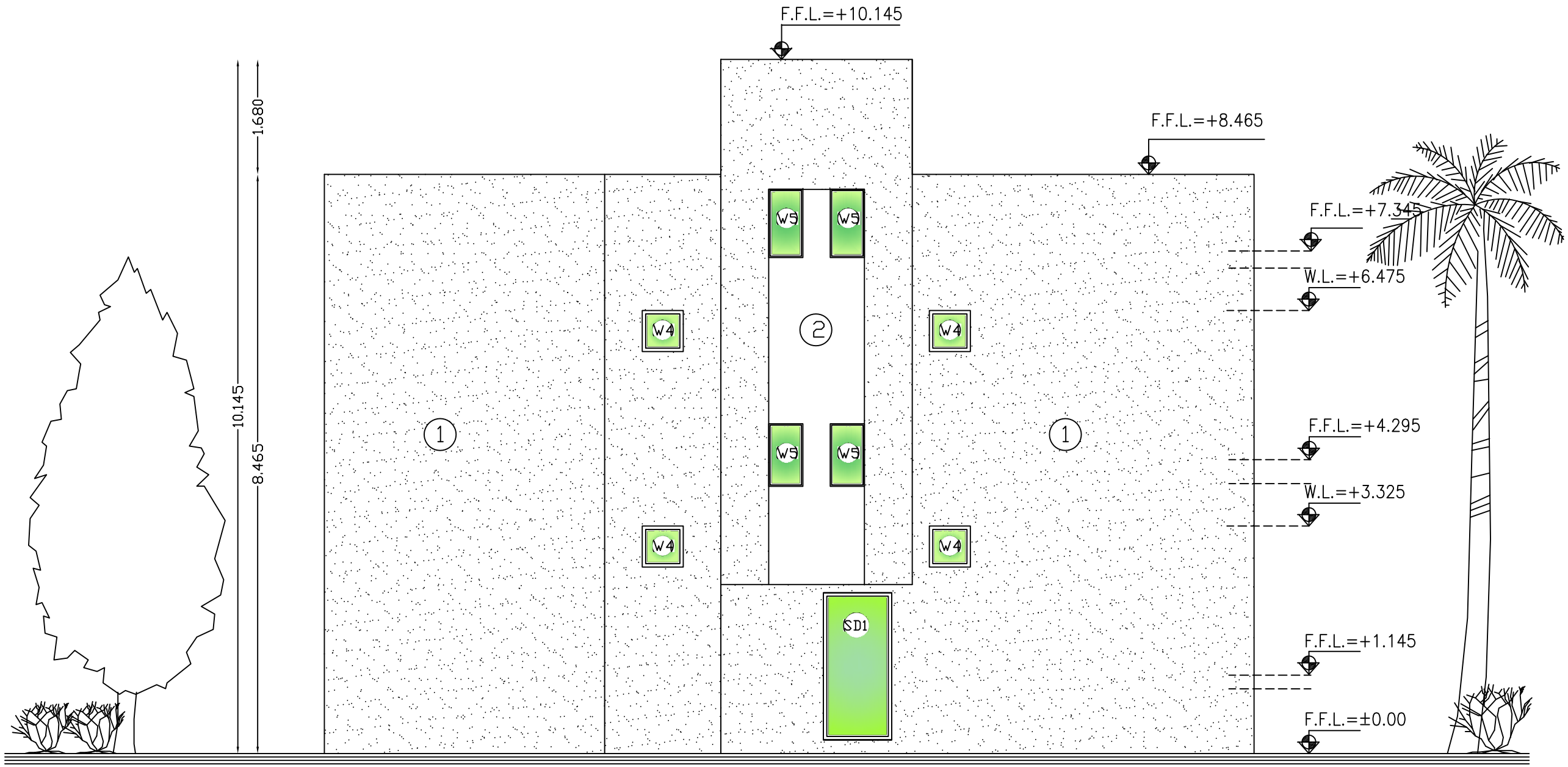
Symbol	Drawing No.:	Rev. No.
RES	T7-A07	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Left Side Elevation

NO. 4

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Left Side Elevation NO. 4

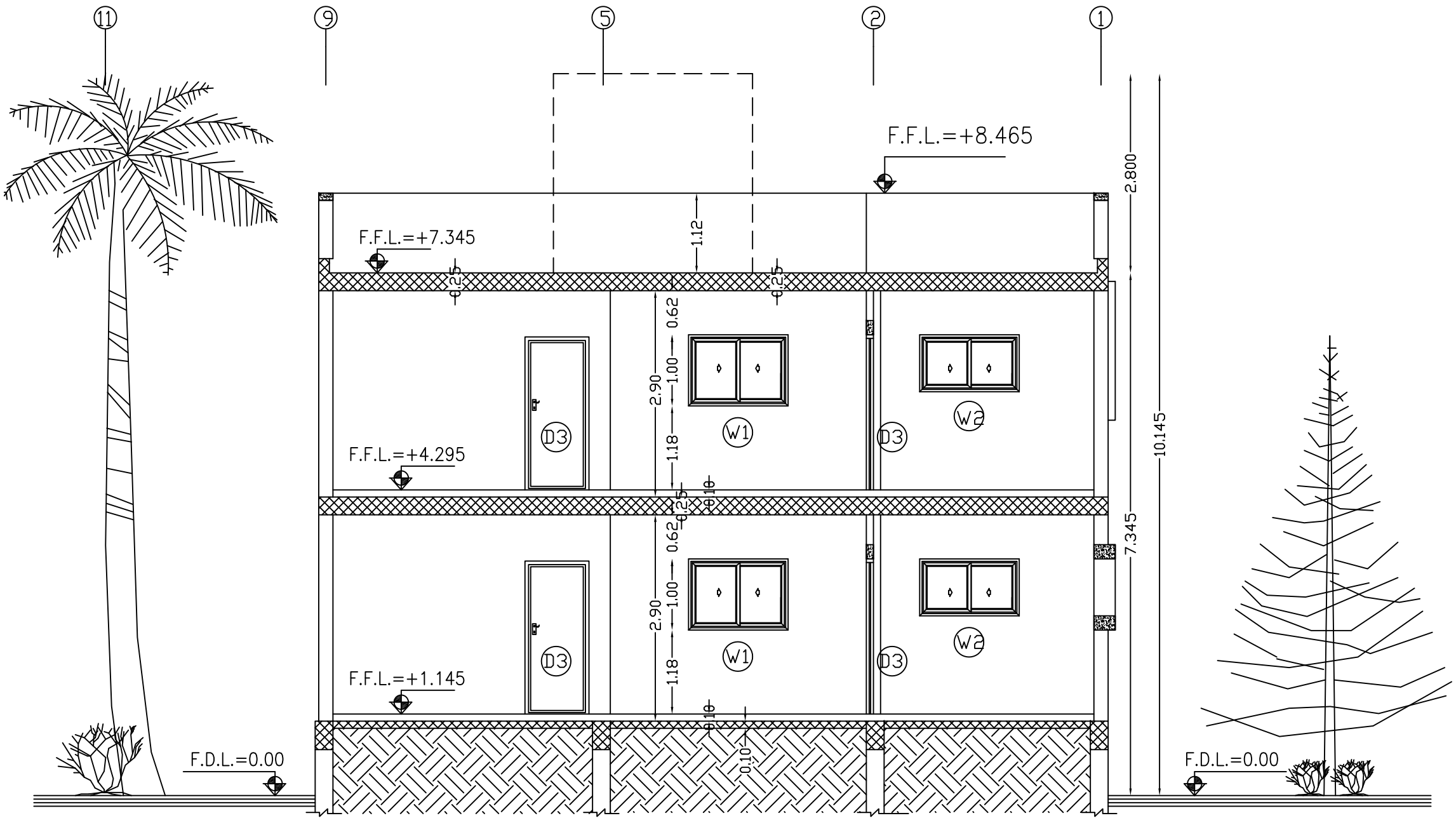
Symbol	Drawing No.:	Rev. No.
RES	T7-A08	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Section A___A

No.	Description	Date	By
4			
3			
2			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Section A----A

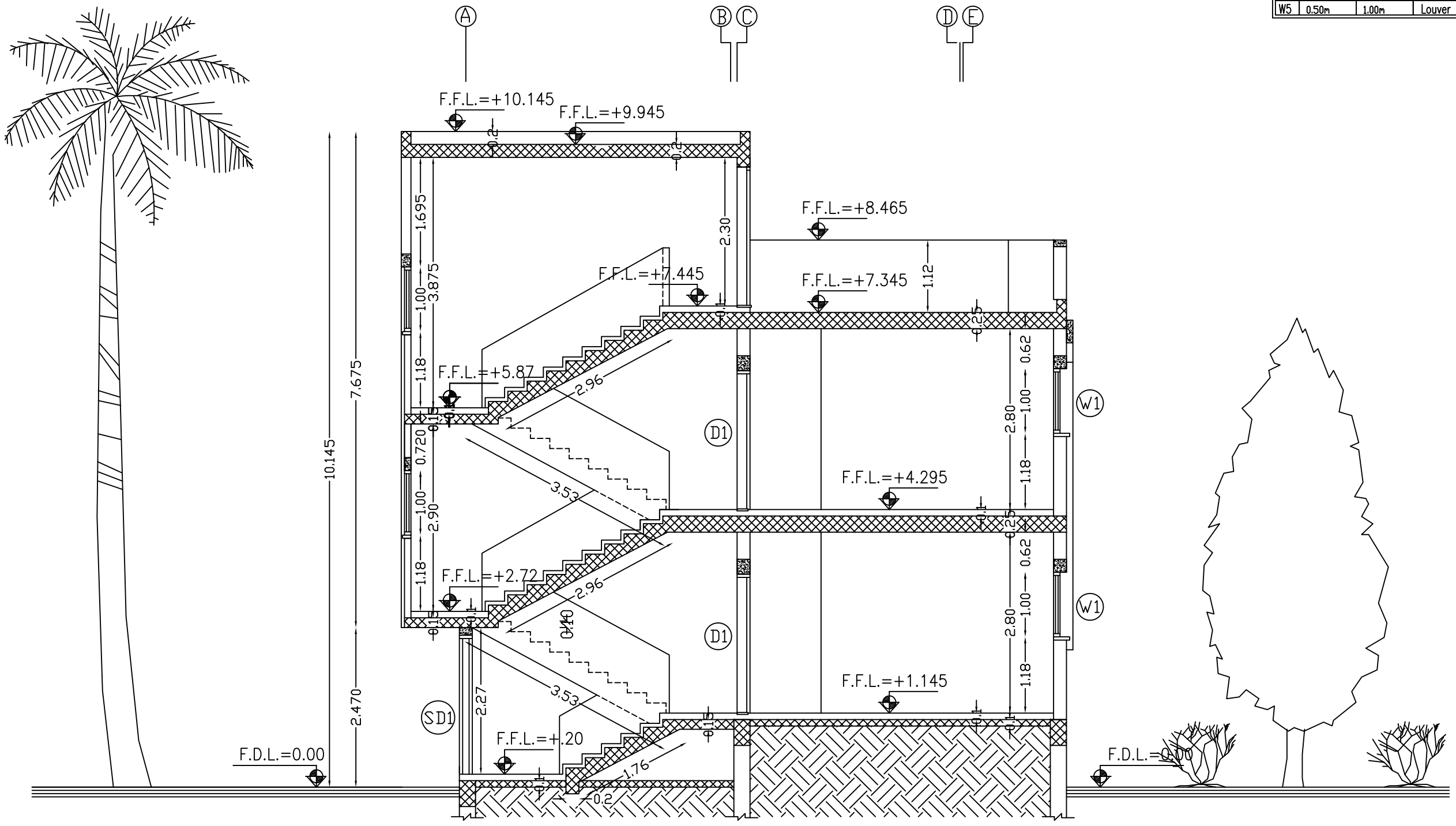
Symbol	Drawing No.:	Rev. No.
RES	T7-A09	R1

Door Schedule			
NO.	Width	Hight	Type
SD1	1.0m	2.25m	Steel
SD2	0.9m	2.25m	Steel
D1	1.0m	2.25m	Wood
D2	0.9m	2.25m	Wood
D3	0.9m	2.25m	Wood
D4	0.8m	2.25m	Wood

WINDOW Schedule			
NO.	Width	Hight	Type
W1	1.4m	1.00m	Sliding
W2	1.4m	0.80m	Sliding
W3	0.70m	1.00m	Hinge
W4	0.60m	0.60m	Louver
W5	0.50m	1.00m	Louver

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.



Section B____B

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Section B----B

Symbol	Drawing No.:	Rev. No.
RES	T7-A10	R1

MECHANICAL DRAWINGS

SS (TYPE 7)

LEGEND, ABBREVIATIONS AND SYMBOLS

BD	⊠	BALCONY DRAIN
BDR		BALCONY DRAIN RISER
CW		COLD WATER PIPE
MH	◯	MANHOLE
RW		RAIN WATER PIPE
——		Cold water
- - -		Hot water
WDB		BOX
		FLOAT VALVE
		GATE VALVE
NC		NORMALLY CLOSED VALVE
		GLOBE VALVE
		BUTTERFLY VALVE
		SOLINOID VALVE
R.W.P		RAIN WATER PIPE WITH FLOOR TRAP
		2" UPVC DRINAG PIPE
		4" UPVC DRAINAG PIPE
		6" UPVC PIPE (MANHOLE CONECTION)
F.T		4''UPVC B.D.P BALCONY DRAIN PIPE
		4"UPVC RISER SOLID, FLUID WASTE
F.T		FLOOR TRAP
		WATER METER 3/4"

SANITARY FIXTURES CONNECTION

UNLESS OTHERWISE NOTED THE CONNECTIONS FOR THE FIXTURE UNITS WILL BE AS FOLLOWS .

KS	KITCHEN SINK	2" (50 mm)
JS/LS	JANITOR SINK/LAVATORY	2" (50 mm)
WB/LAV	HAND WASH BASIN	2" (50 mm)
WC	WATER CLOSET	4" (100 mm)
W/M	WASHING MACHINE	2" (50 mm)
FD	FLOOR DRAIN	3" (75 mm)

NOTES:

No.	Description	Date	By
4			
3			
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1			

Revisions

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Date	File Name	Scale

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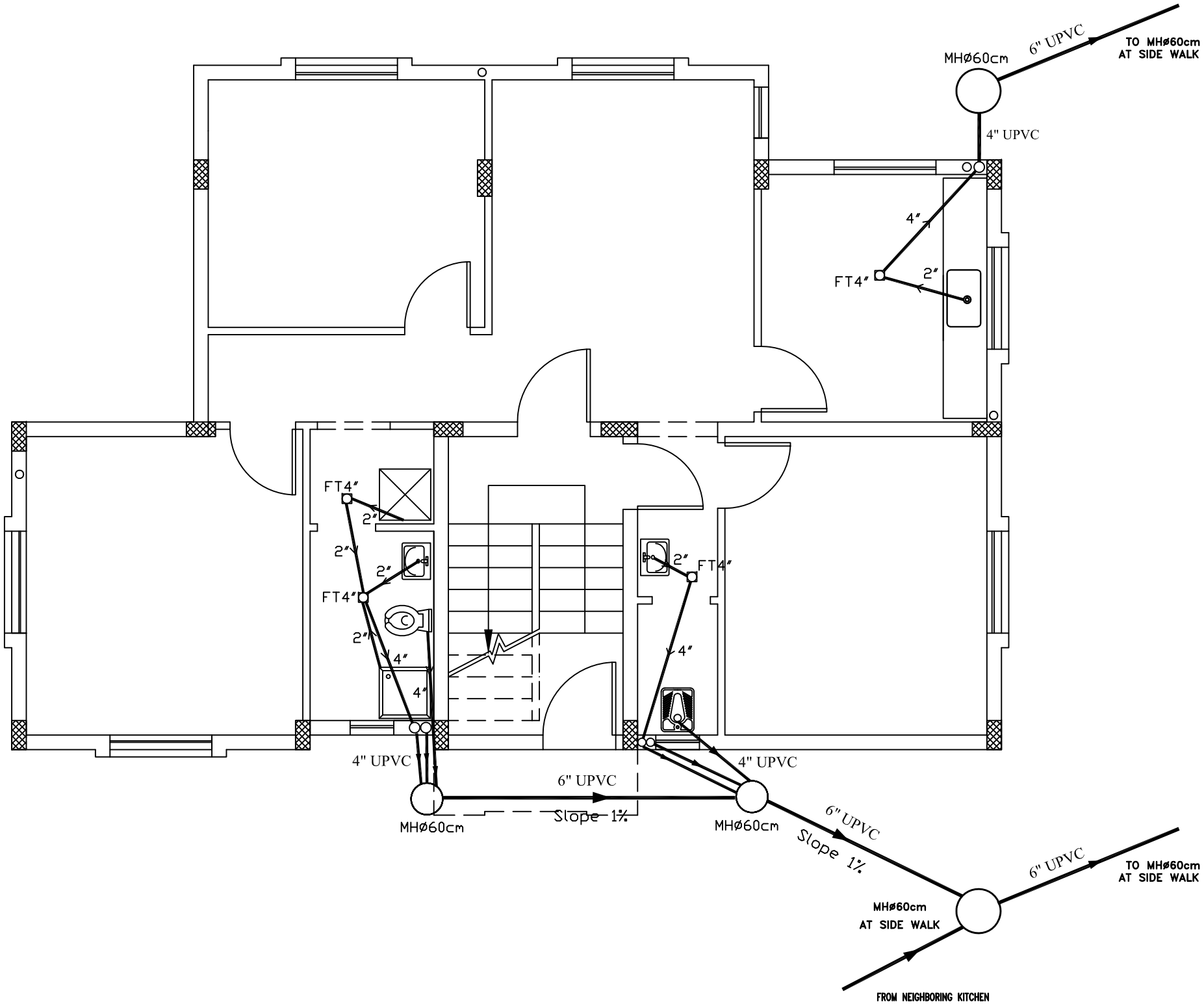
Legend, General Notes & List of Mechanical Drawings

Symbol	Drawing No.:	Rev. No.
RES	*T7 - M 01*	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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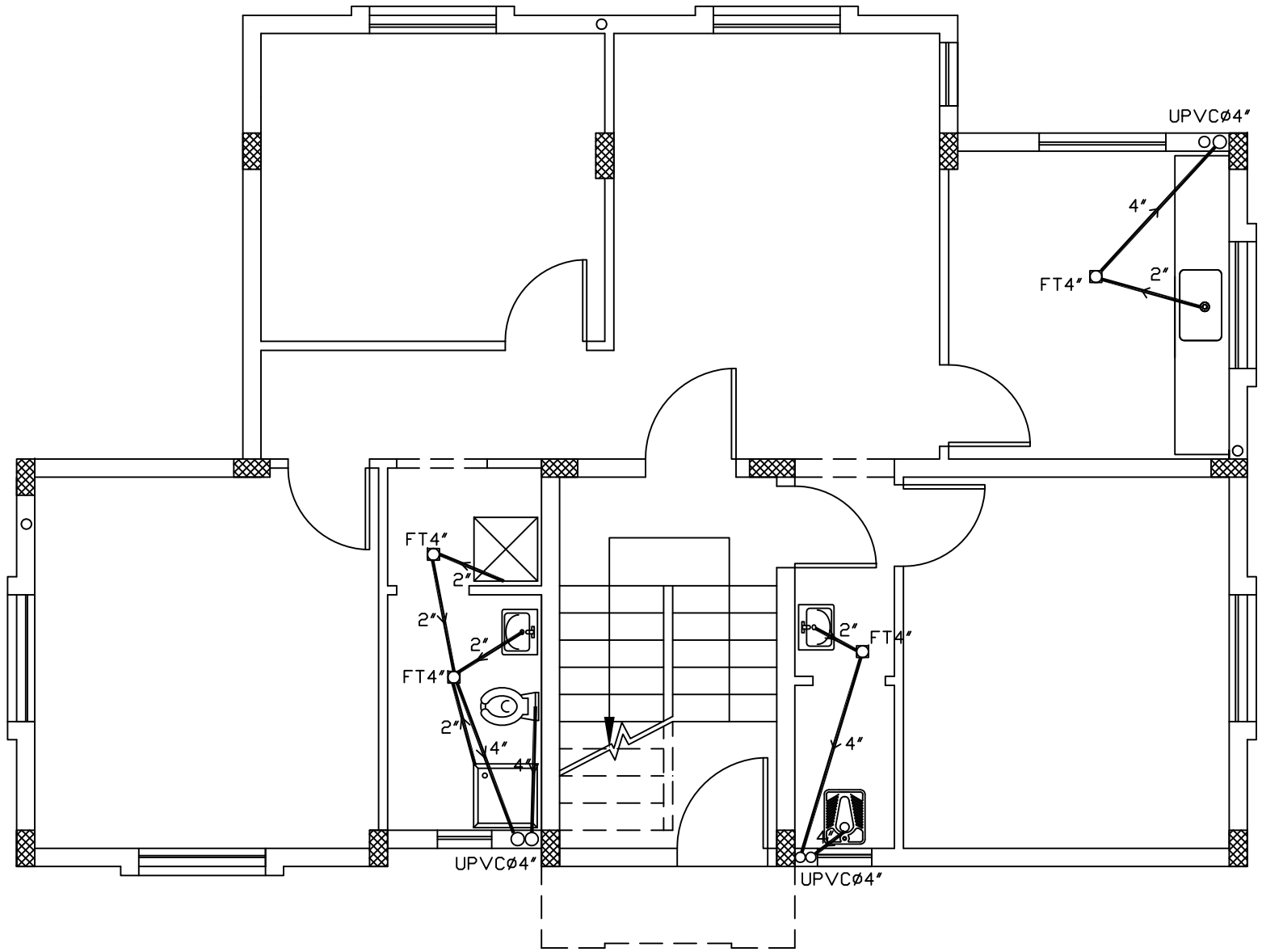
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Typical Detail Of Manhole & Pipeline

Symbol	Drawing No.:	Rev. No.
RES	T7 - M 02	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
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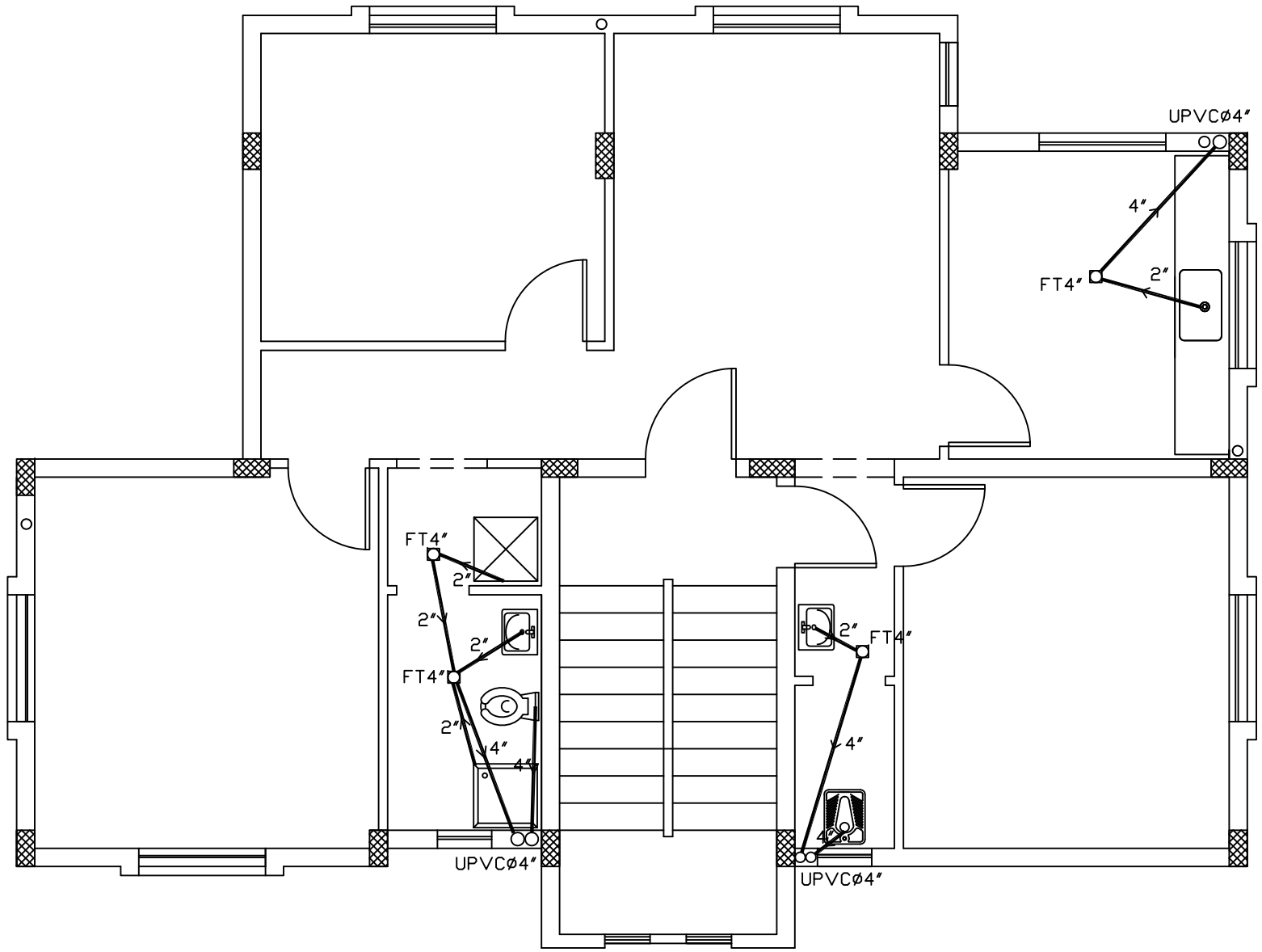
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Drainage System for Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	T7 - M 03	R1



NOTES:

- R.W.P — RAIN WATER PIPE WITH FLOOR TRAP
- 2" UPVC DRINAG PIPE
- 4" UPVC DRAINAG PIPE
- 6" UPVC PIPE (MANHOLE CONECTION)
- 4"UPVC RISER SOLID, FLUID WASTE
- F.T — FLOOR TRAP
- W.O — WASH OUT (PUMP ROOM & DUCT)
- F.T — 4"UPVC B.D.P BALCONY DRAIN PIPE

No.	Description	Date	By
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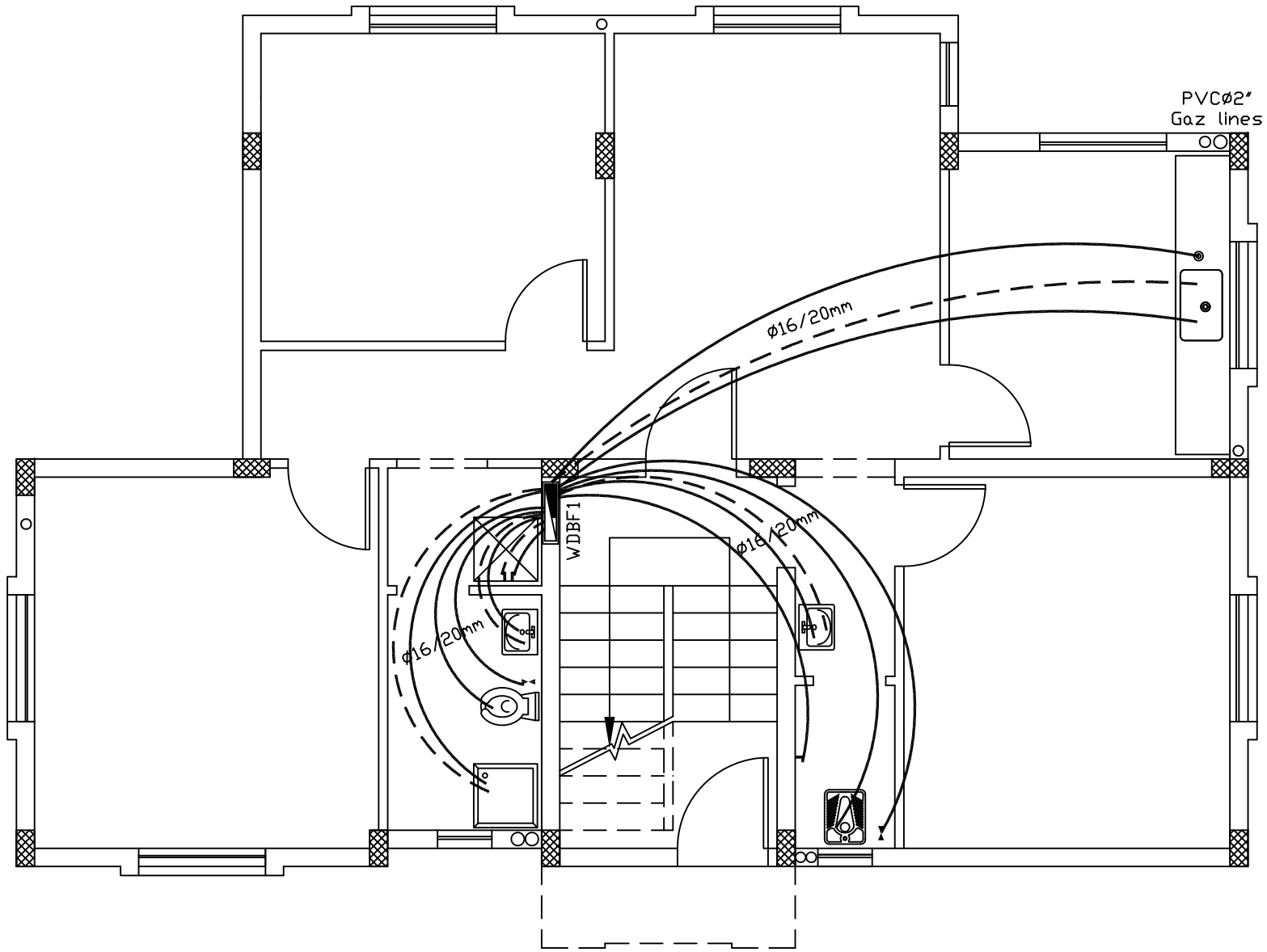
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Drainage System for First Floor

Symbol	Drawing No.:	Rev. No.
RES	*T7 - M 04*	R1



NOTES:

——— COLD (GOLLANI)

- - - - HOT (GOLLANI)

EWH WATER HEATER 150 LITERS

WDB BOX

F.H 2"

HOSE REEL 3/4

2"w.o WASH OUT VALVE

3/4" A.V WATER AIR VENT

3/4" w.i

R.W.T & FH. L.

WATER METER 3/4"

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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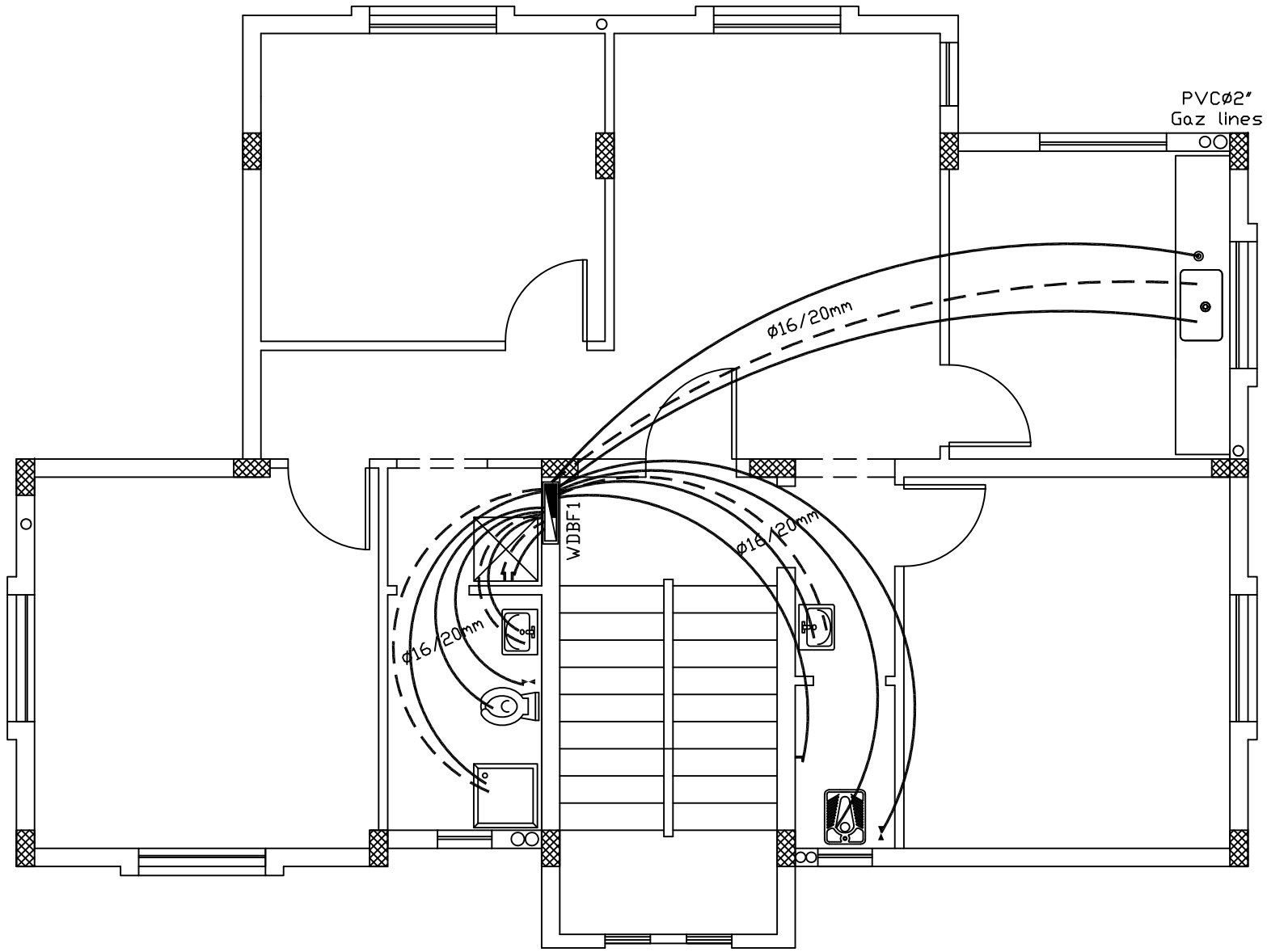
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water System for Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	*T7 - M 05*	R1



NOTES:

——— COLD (GOLLANI)

- - - - HOT (GOLLANI)

EWH WATER HEATER 150 LITERS

WDB BOX

F.H 2"

HOSE REEL 3/4

2"w.o WASH OUT VALVE

3/4" A.V WATER AIR VENT

3/4" w.i

R.W.T & FH. L.

WATER METER 3/4"

No.	Description	Date	By
4			
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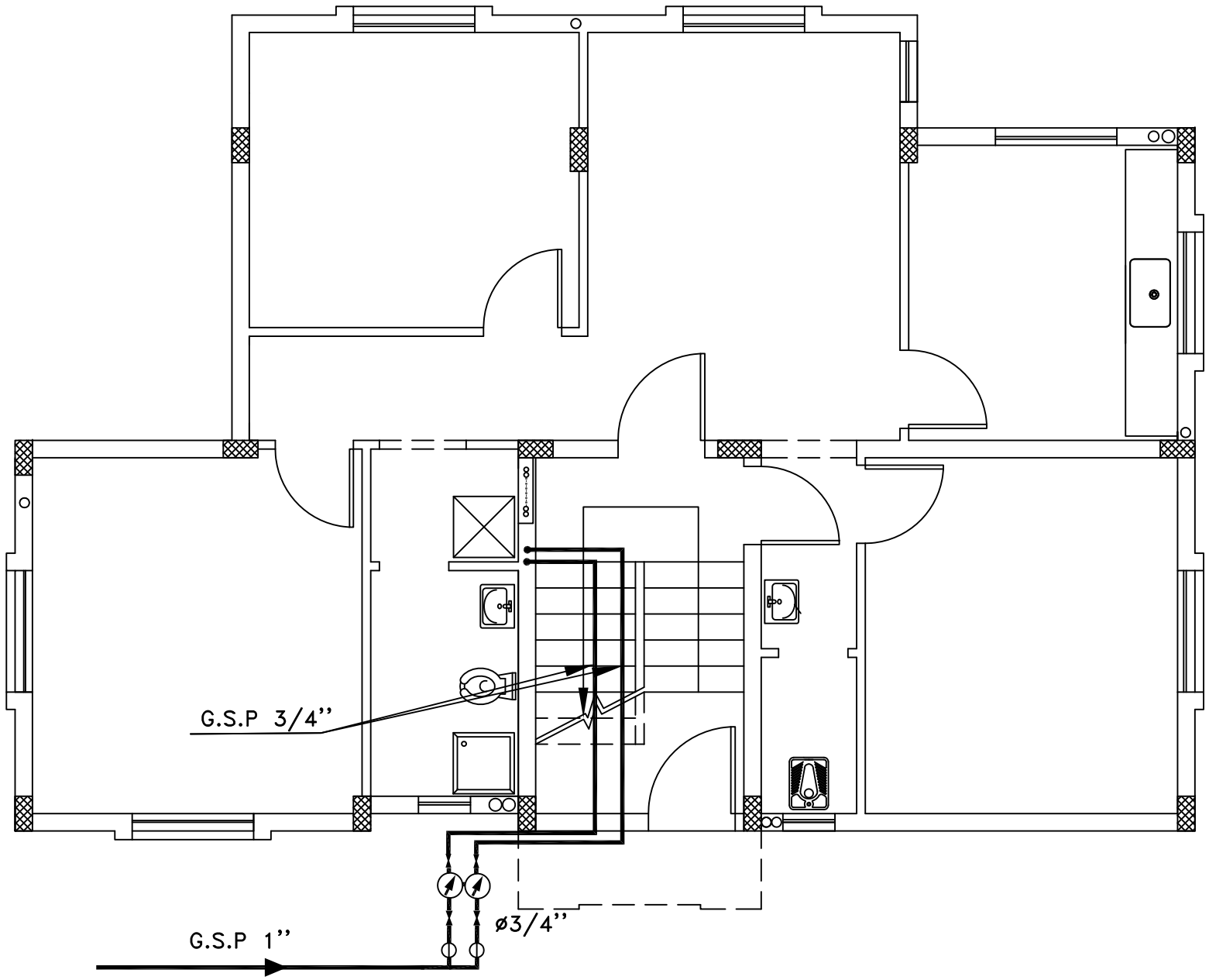
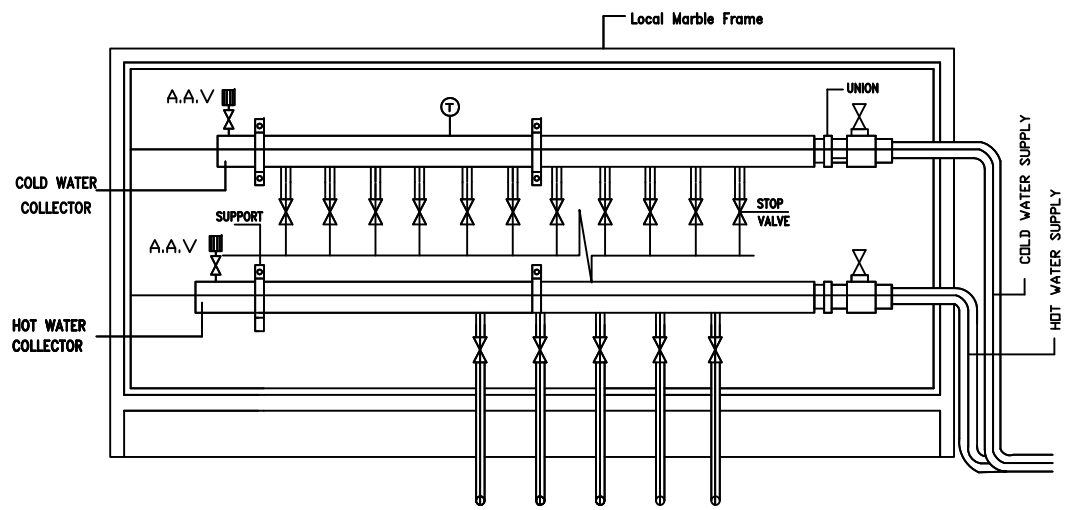
Water System for First Floor

Symbol	Drawing No.:	Rev. No.
RES	*T7 - M 06*	R1





DISTRIBUTION BOX

Size of DB according to actual outlets

NOTES:

- COLD (GOLLANI)
- HOT (GOLLANI)
- EWH — WATER HEATER 150 LITERS
- WDB — BOX
- F.H — 2''
- HOSE REEL 3/4
- 2''w.o — WASH OUT VALVE
- 3/4'' A.V — WATER AIR VENT
- 3/4'' w.i
- R.W.T & FH. L.
- WATER METER 3/4"

No.	Description	Date	By
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3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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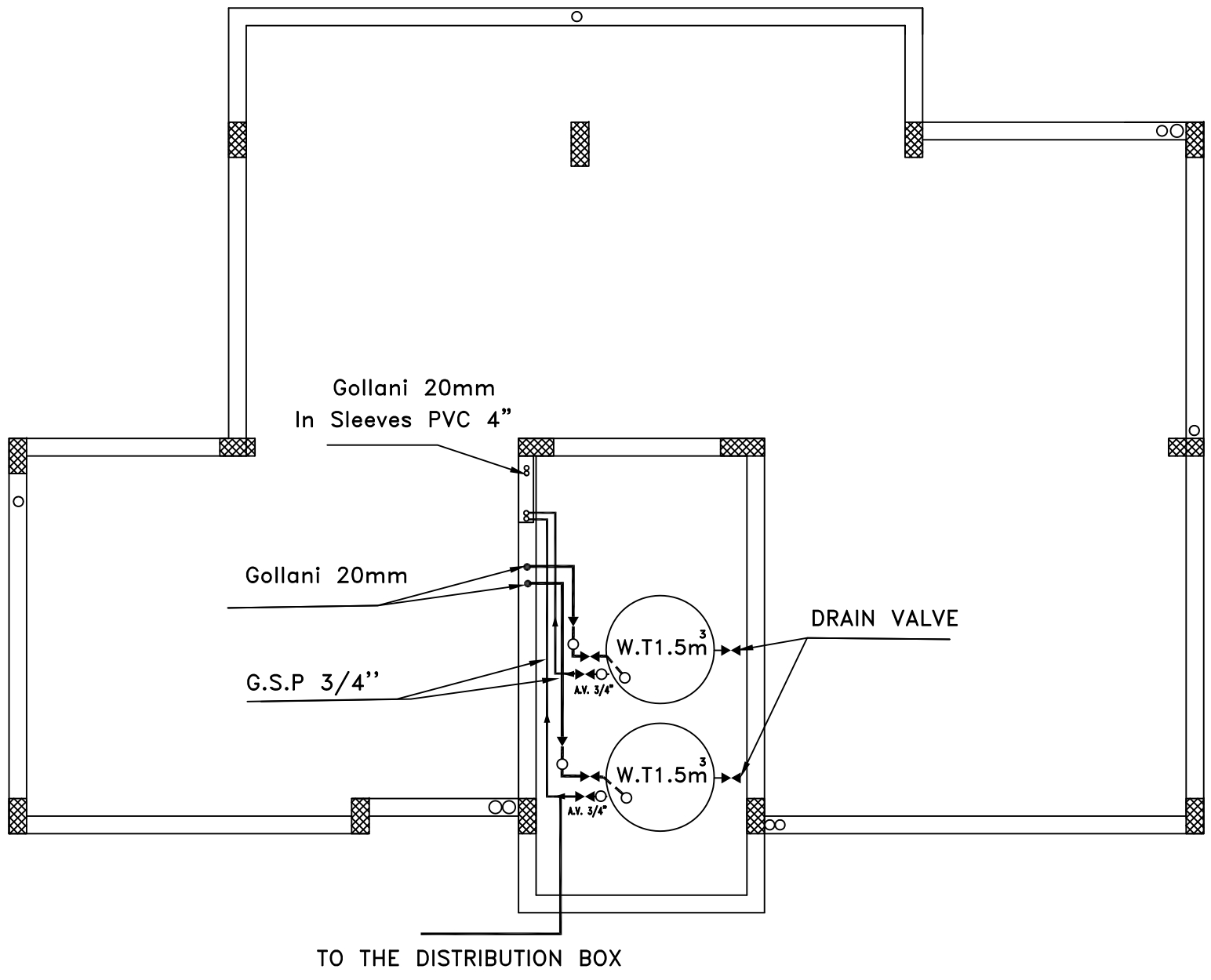
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water Supply And Distribution Box

Symbol	Drawing No.:	Rev. No.
RES	T7 - M 07	R1



NOTES:

——— COLD (GOLLANI)

- - - - HOT (GOLLANI)

(EWH) WATER HEATER 150 LITERS

WDB BOX

F.H 2”

HOSE REEL 3/4

2”w.o WASH OUT VALVE

3/4” A.V WATER AIR VENT

3/4” w.i

R.W.T & FH. L.

WATER METER 3/4”

No.	Description	Date	By
4			
3			
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Revisions

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PALESTINIAN NATIONAL AUTHORITY

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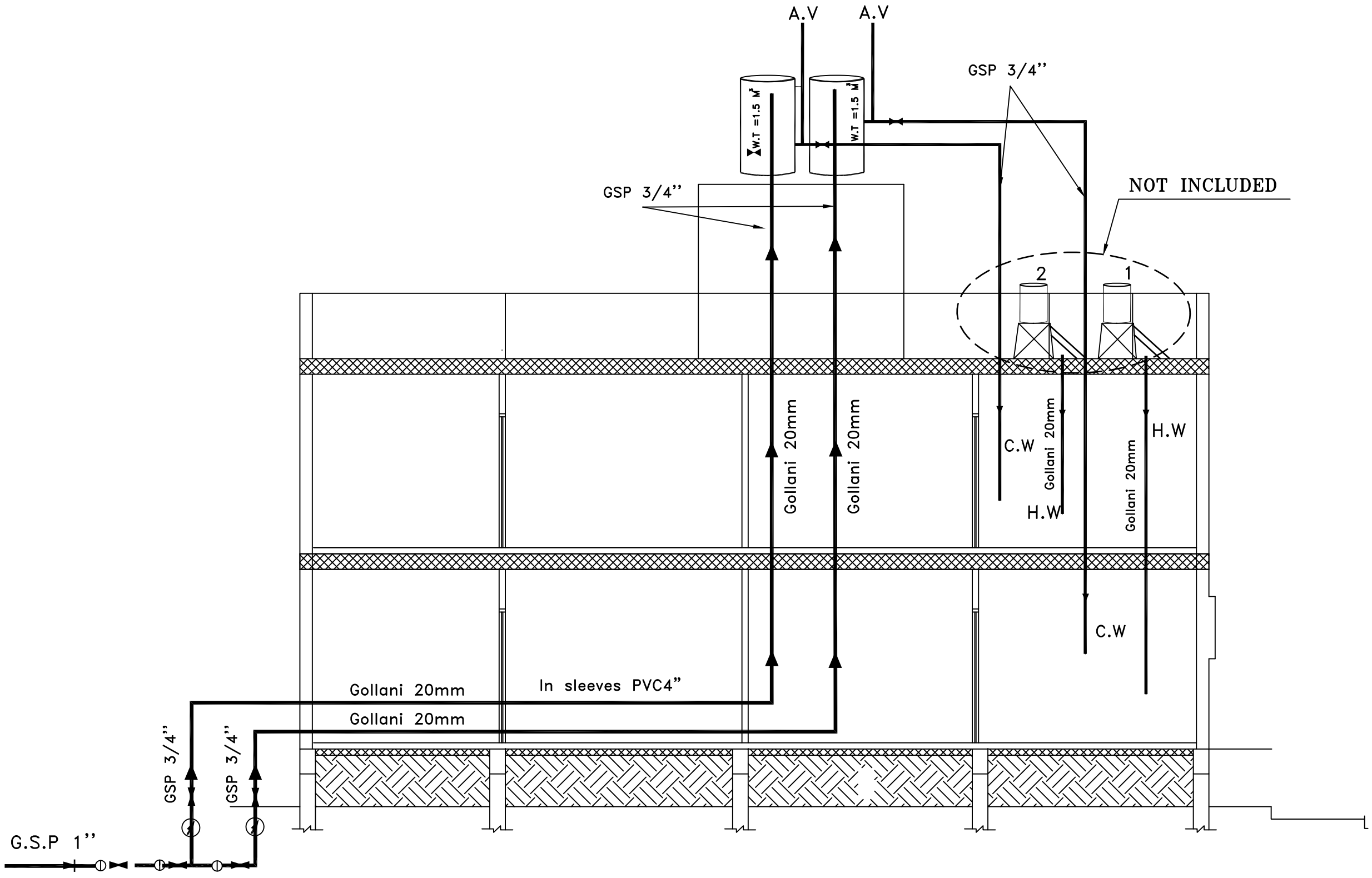
PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water Tanks on Stair

Symbol	Drawing No.:	Rev. No.
RES	*T7 - M 08*	R1



NOTES:

- COLD (GOLLANI)
- HOT (GOLLANI)
- (EWH) WATER HEATER 150 LITERS
- WDB BOX
- F.H 2''
- HOSE REEL 3/4
- 2''w.o WASH OUT VALVE
- 3/4'' A.V WATER AIR VENT
- 3/4'' w.i R.W.T & FH. L.
- WATER METER 3/4"

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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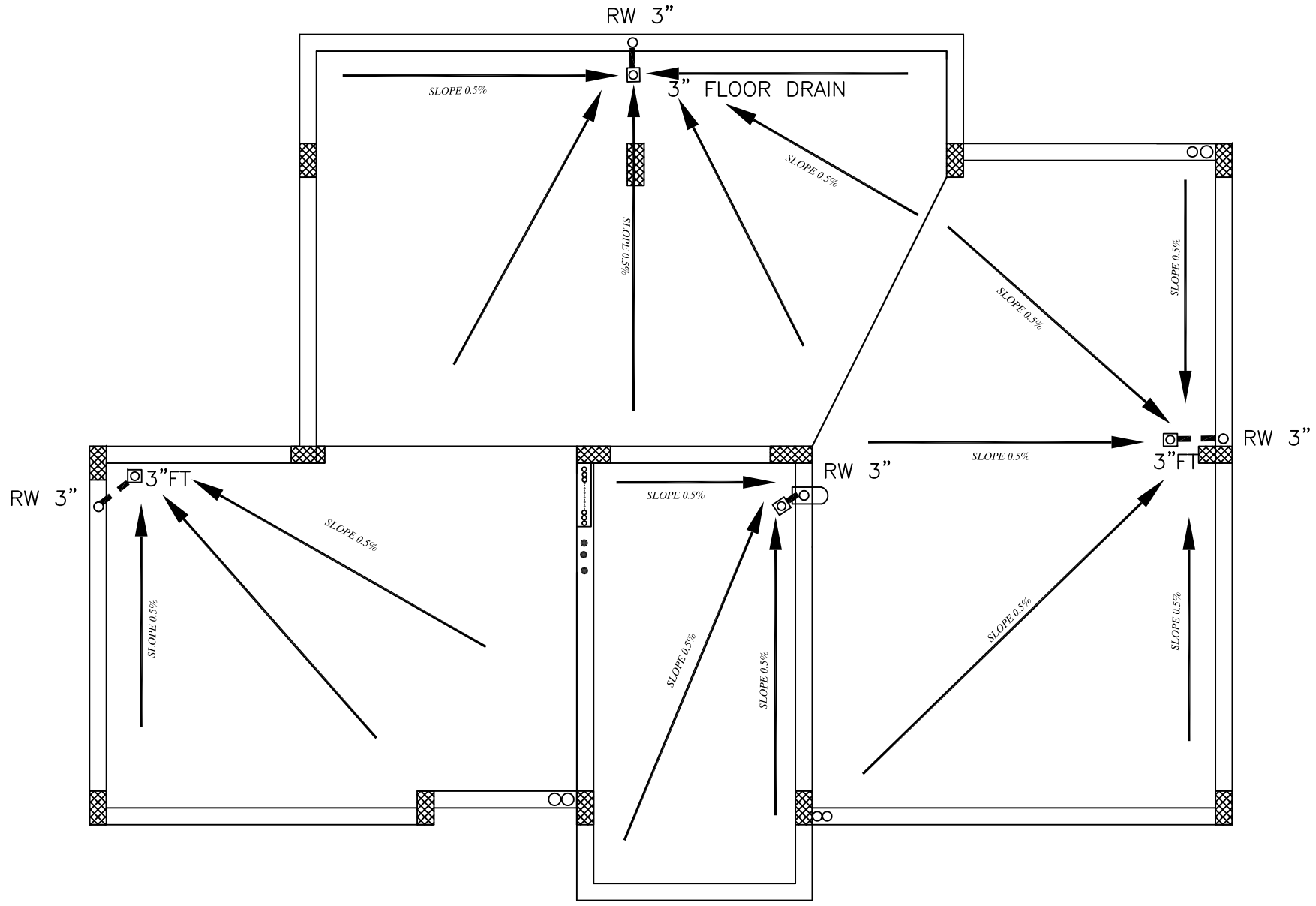
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Water System For Typical Floor

Symbol	Drawing No.:	Rev. No.
RES	*T7 - M 09*	R1



NOTES:

- COLD (GOLLANI)
- HOT (GOLLANI)
- EWH — WATER HEATER 150 LITERS
- WDB — BOX
- F.H 2"
- HOSE REEL 3/4
- 2"w.o WASH OUT VALVE
- 3/4" A.V WATER AIR VENT
- 3/4" w.i
- R.W.T & FH. L.
- WATER METER 3/4"

No.	Description	Date	By
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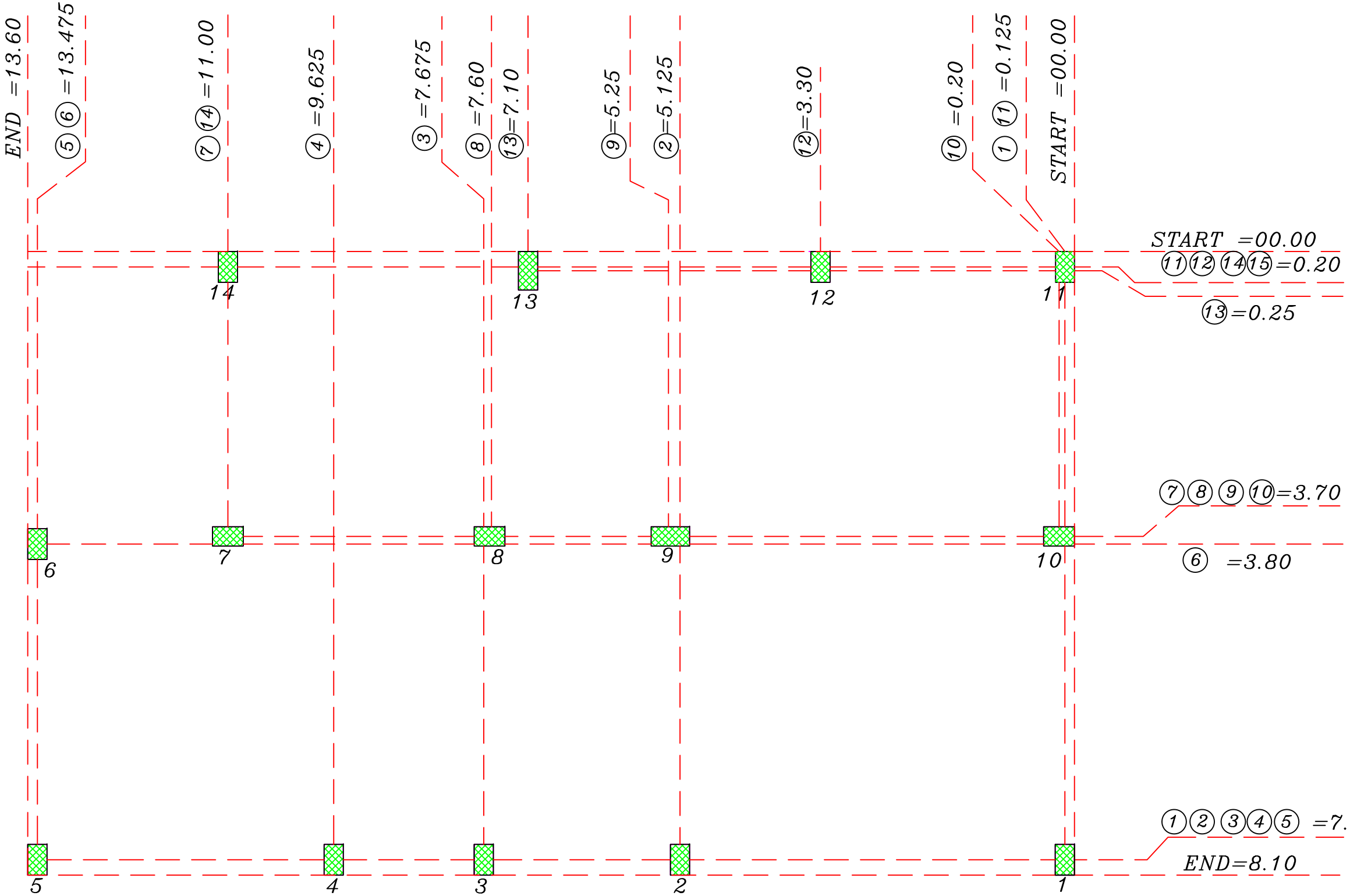
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Roof Floor Drainage System

Symbol	Drawing No.:	Rev. No.
RES	*T7 - M 10*	R1

CIVIL DRAWINGS

SS (Type7)



Axies Of Columns Necks

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm²)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date By
4		
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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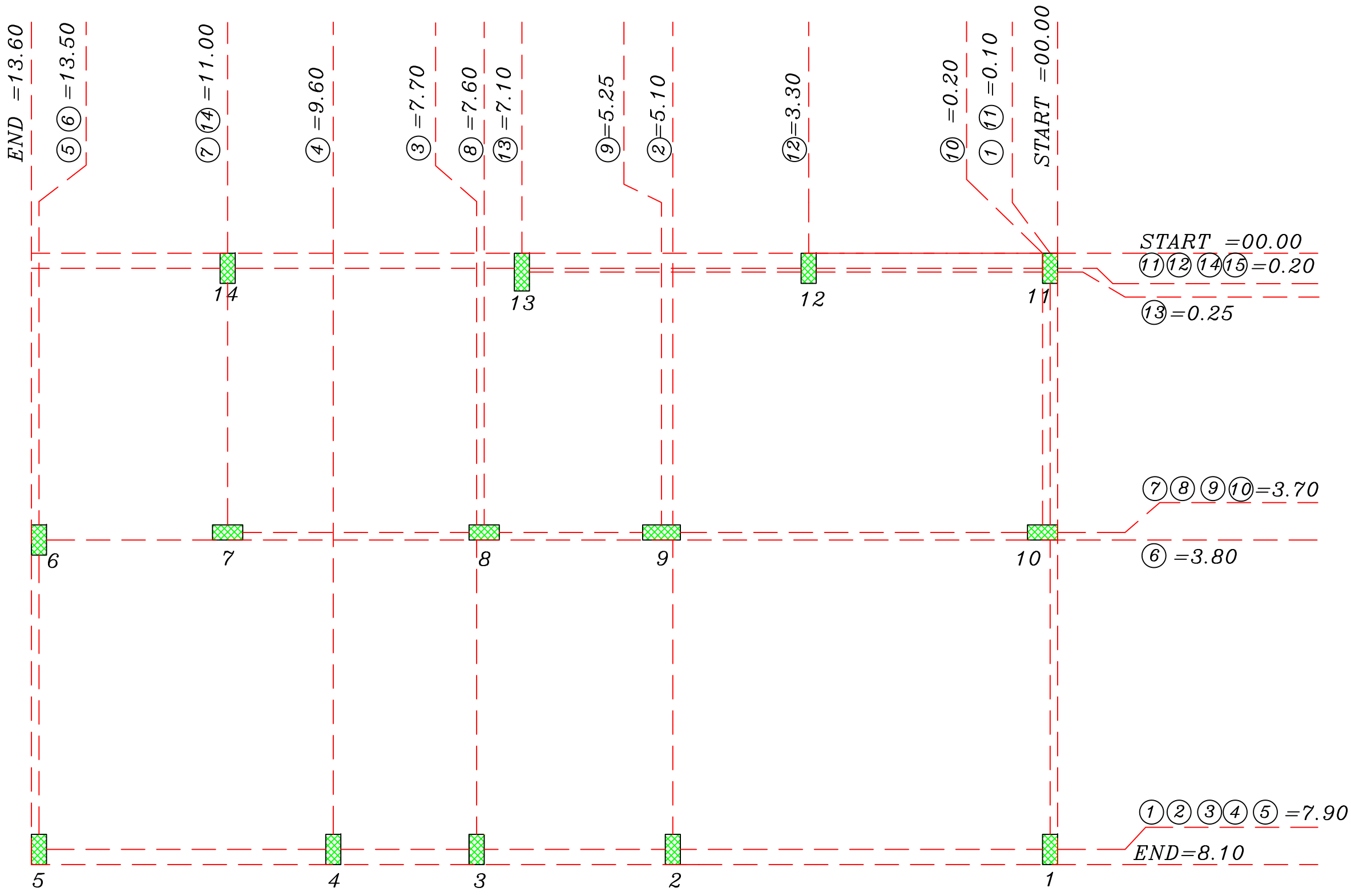
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Axies Of Column Necks

Symbol	Drawing No.	Rev. No.
RES	T7-C 01	R1



Axies Of Columns

NOTES

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  3.5 cm in ground beams
  3cm in columns
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* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

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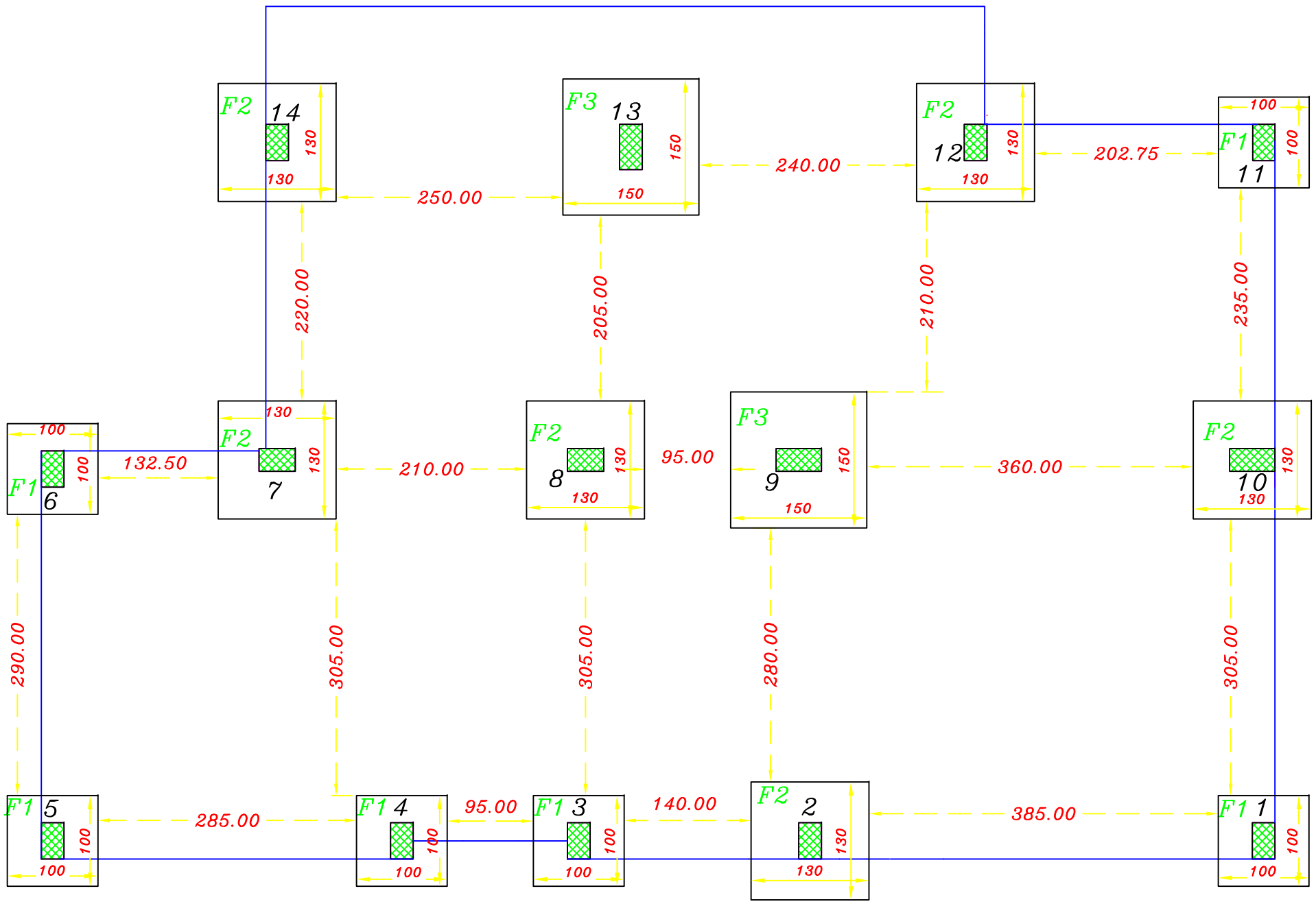
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Axies Of Columns

Symbol	Drawing No.	Rev. No.
RES	T7- C 02	R1



Footings Plan

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
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  B300 for columns
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- The concrete cover :
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  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
- All Dimensions in cm

No.	Description	Date	By
4			
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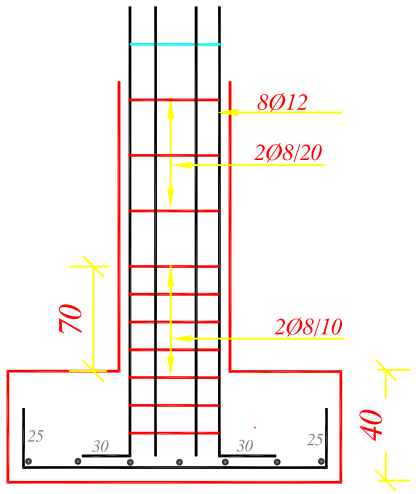
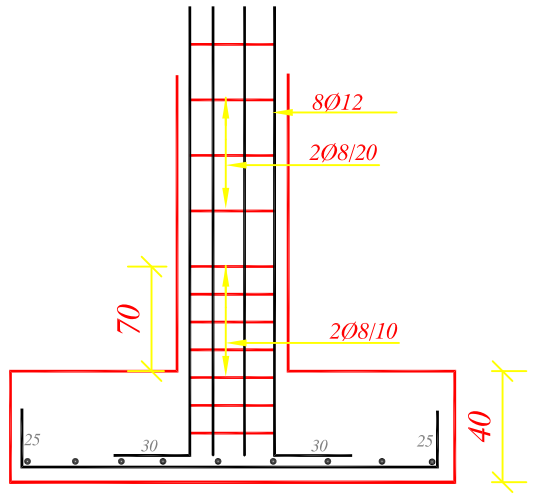
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Footings Plan

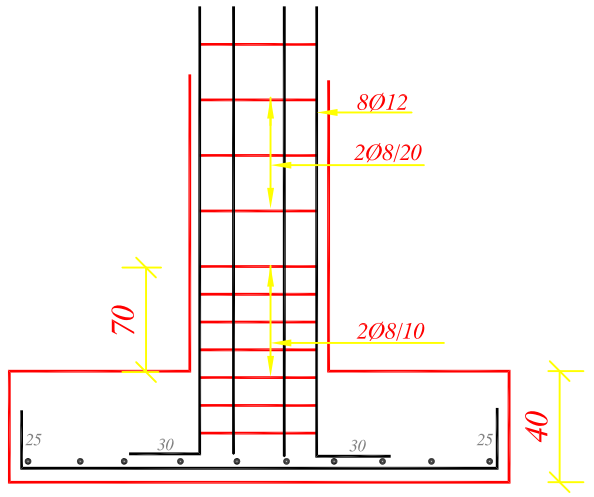
Symbol	Drawing No.	Rev. No.
RES	T7- C 03	R1



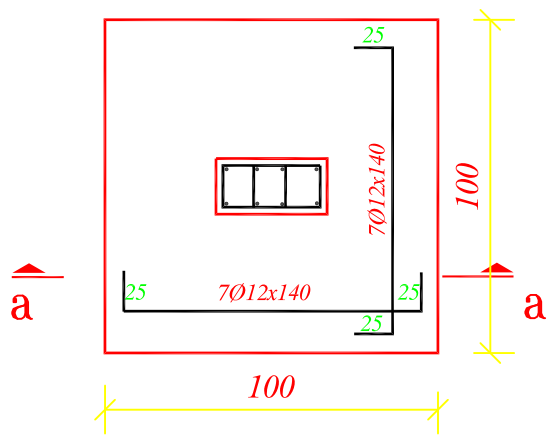
SECTION (a-a)



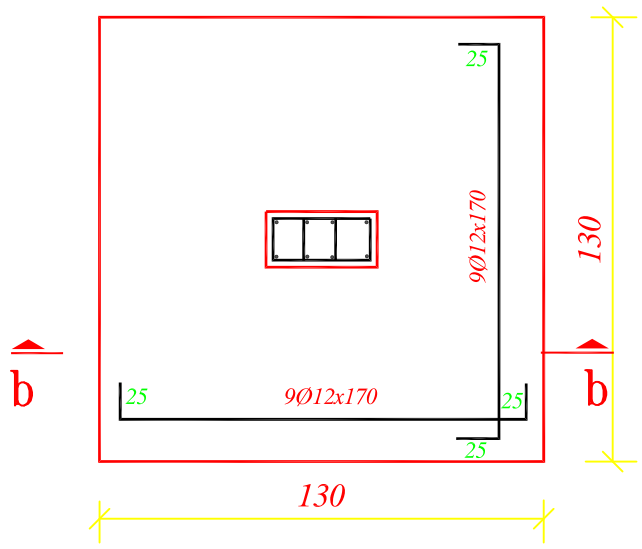
SECTION (b - b)



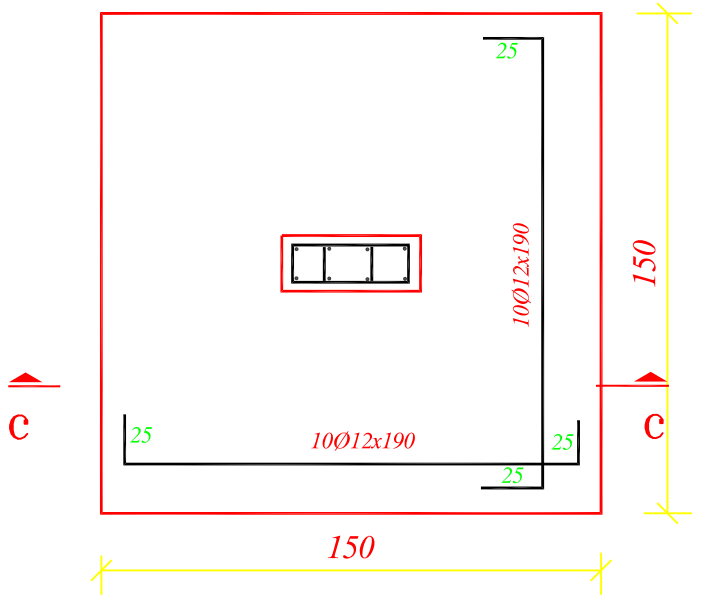
SECTION (c - c)



TYPICAL DETAIL IN F1



TYPICAL DETAIL IN F2



TYPICAL DETAIL IN F3

Footings Details

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

No.	Description	Date	By
4			
3			
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Revisions

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UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Footings Details

Symbol	Drawing No.	Rev. No.
RES	T7- C 04	R1

Type	Column NO.	Number	Size	Reinforcement	Bar Shape & Length
F1	1-3-4-5-6-11	6	100 x 100 x 40	7Ø12x 140cm (Long. & Trav.)	25 — 90 — 25
F2	2-7-8-10-12-14	6	130 x 130 x 40	9Ø12x170 (Long. & Trav.)	25 — 120 — 25
F3	9-13	2	150 x 150 x 40	10Ø12x190 (Long. & Trav.)	25 — 140 — 25
F4	Foundation Under Secondary Ground Beam	3	60 x 60 x 30	5Ø12x80 (Long. & Trav.)	15 — 50 — 15

Footings Table

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

No.	Description	Date	By
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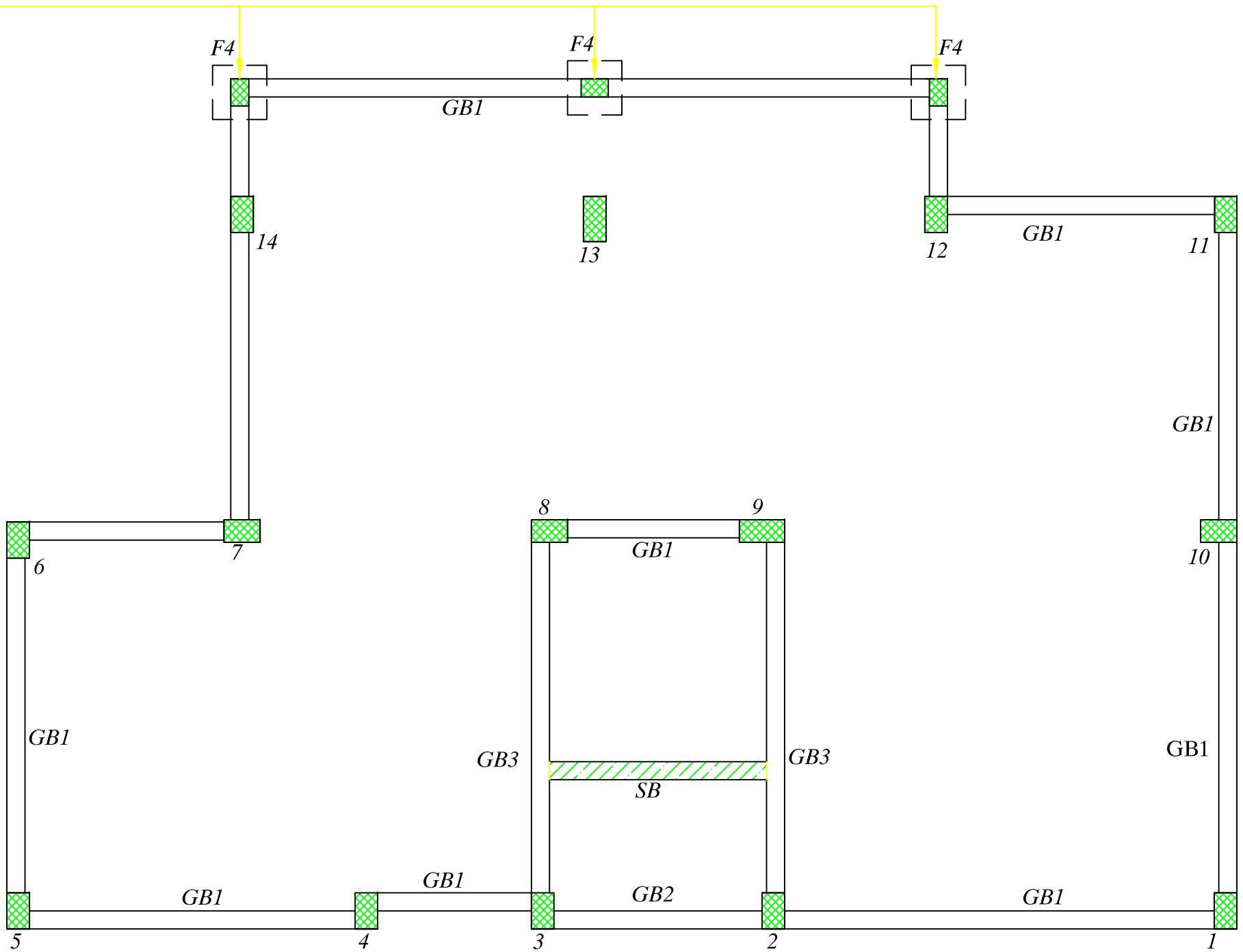
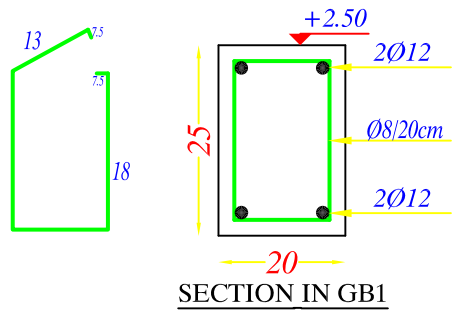
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Footings Table

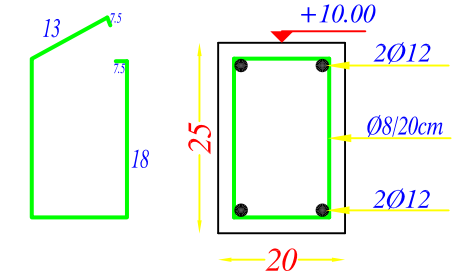
Symbol	Drawing No.	Rev. No.
RES	T7- C 05	R1

Columns Necks 20X30cm
Longitudinal Steel 6 Ø12
& Stirrup Ø8mm /20cm

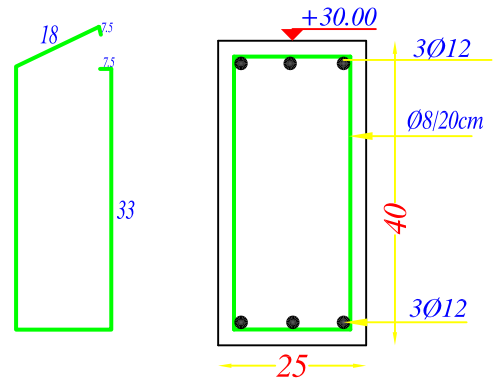




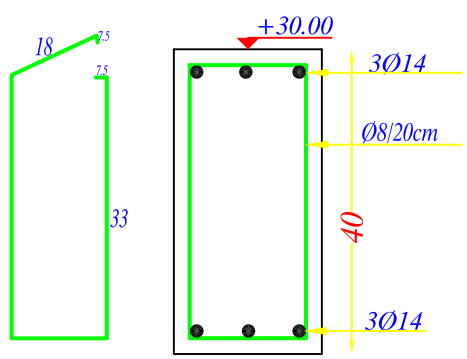
SECTION IN GB1



SECTION IN GB2



SECTION IN GB3



SECTION IN SB

Secondary Beams Plan and Details

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in cm

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

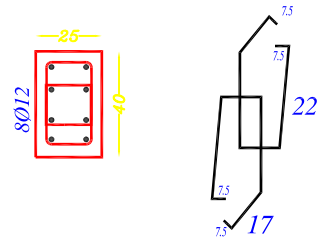
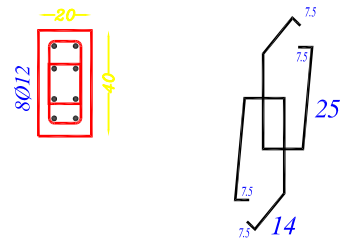
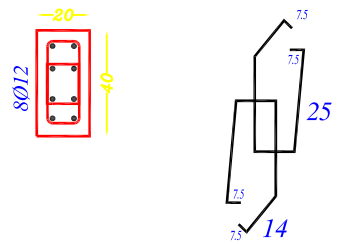
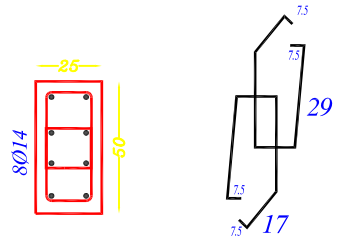
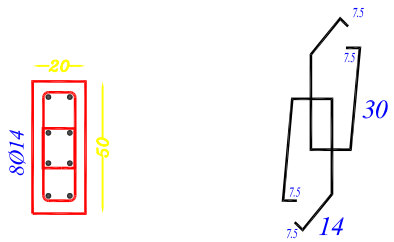
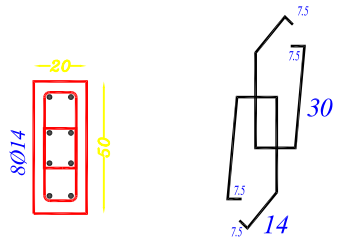
DONATED BY:
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:
UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Secondary Beams Plan & Details

Symbol	Drawing No.	Rev. No.
RES	T7- C 06	R1

Column NO.	Columns Neck	Ground Floor	First Floor
1-2-3-4-5-6-7-8-10-11-12-14	 St. 2Ø8/20 Number =12	 St. 2Ø8/20 Number =12	 St. 2Ø8/20 Number =12
9-13	 St. 2Ø8/20 Number =2	 St. 2Ø8/20 Number =2	 St. 2Ø8/20 Number =2

Columns Table & Details

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
- All Dimensions in cm

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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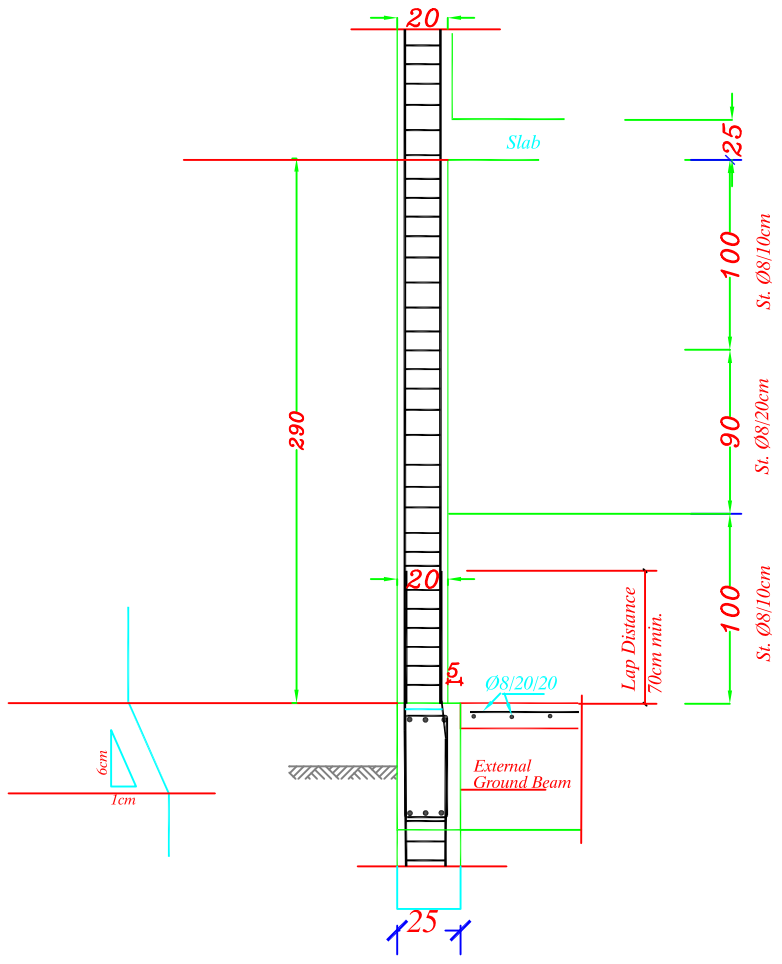
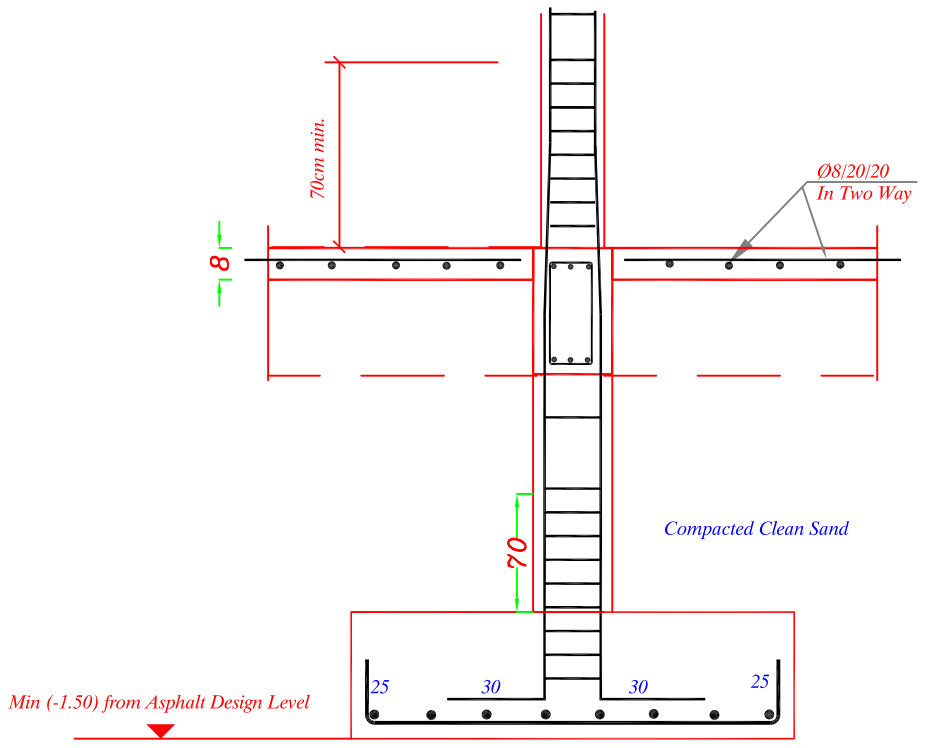
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Columns Table & Details

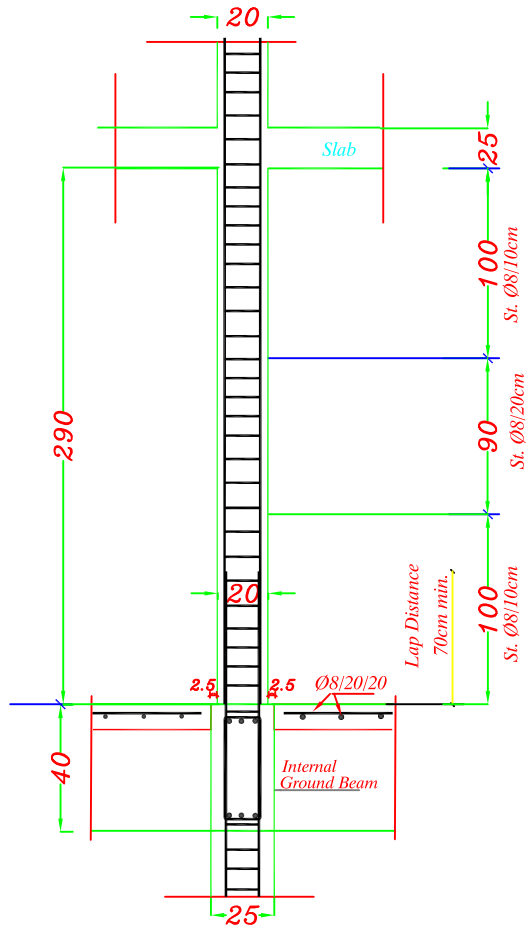
Symbol	Drawing No.	Rev. No.
RES	T7- C 07	R1



External Column Detail.



CONNECTION DETAIL BETWEEN COLUMN
& FOOT & GROUND BEAM



Internal Column Detail

Columns & Ground Slab Details

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
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  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

All Dimensions in cm

No.	Description	Date By
4		
3		
2		
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Date	File Name	Scale

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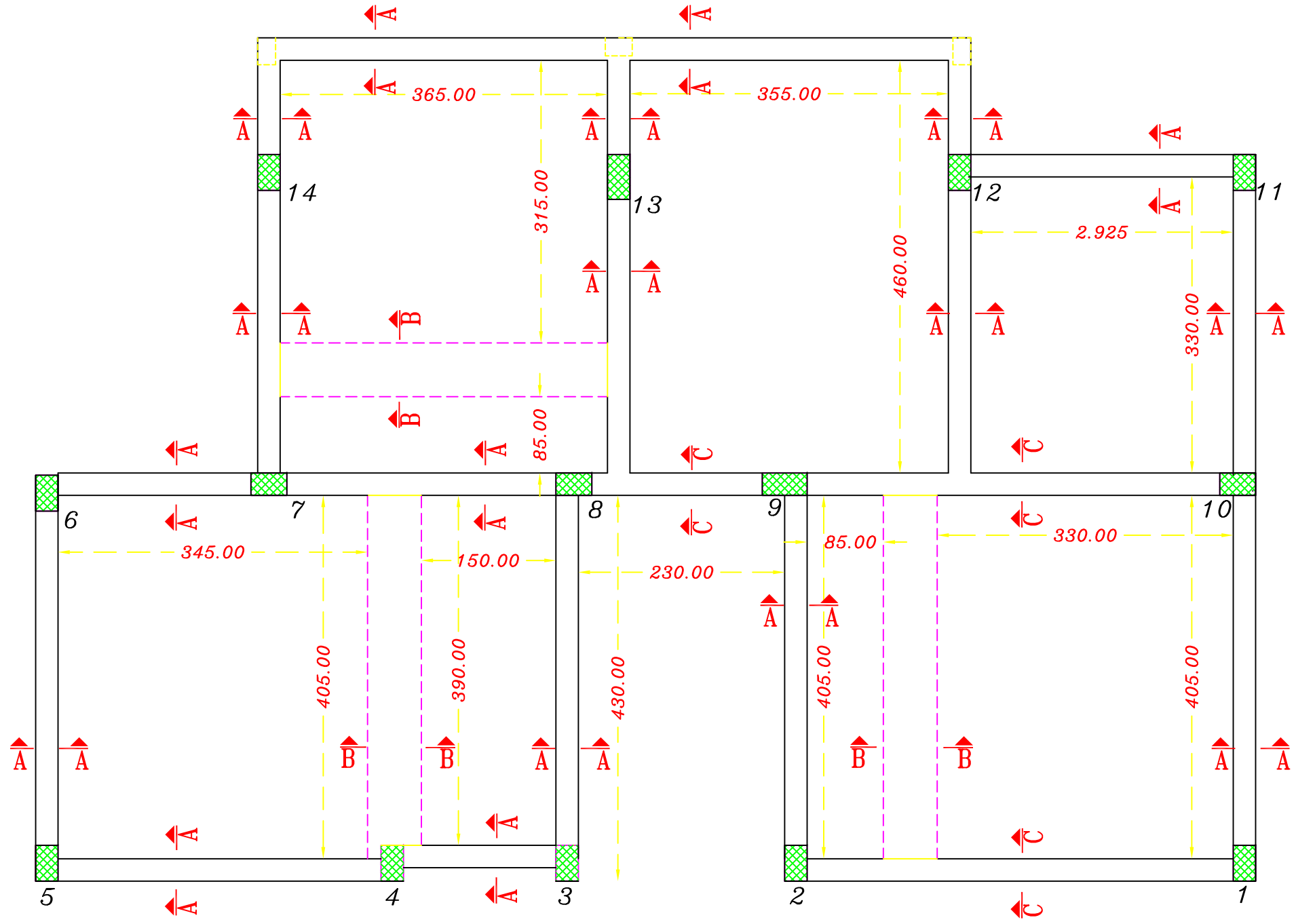
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Columns & Ground Slab Details

Symbol	Drawing No.	Rev. No.
RES	T7- C 08	R1



Main Ground Beam Plan

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

All Dimensions in cm

No.	Description	Date	By
4			
3			
2			
1			

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Date	File Name	Scale

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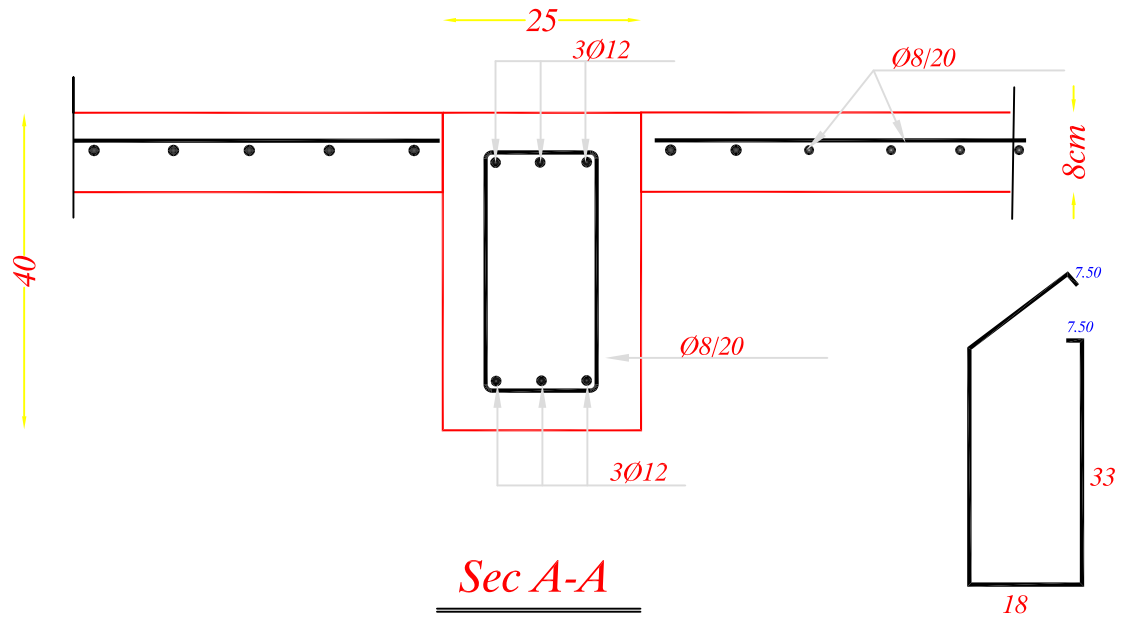
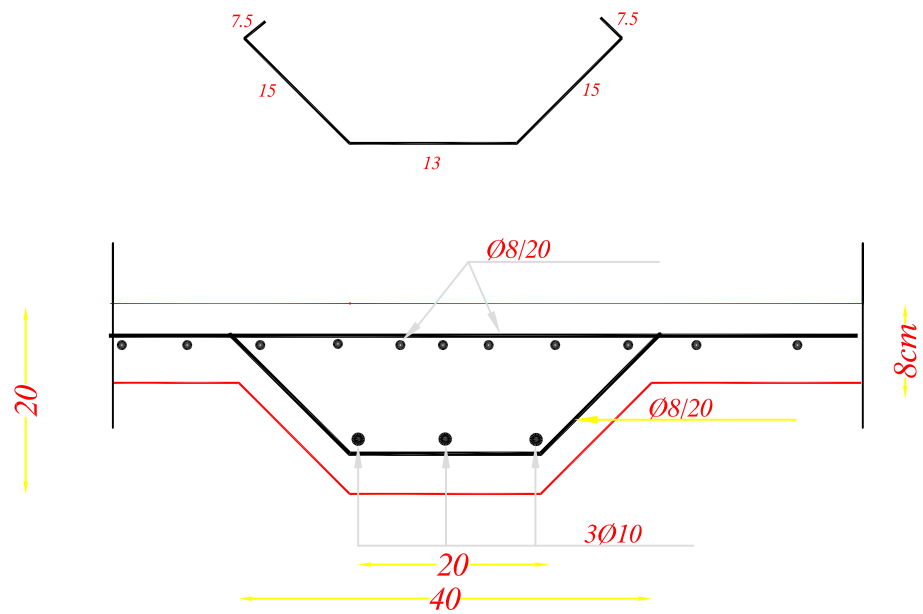
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Ground Beam Plan

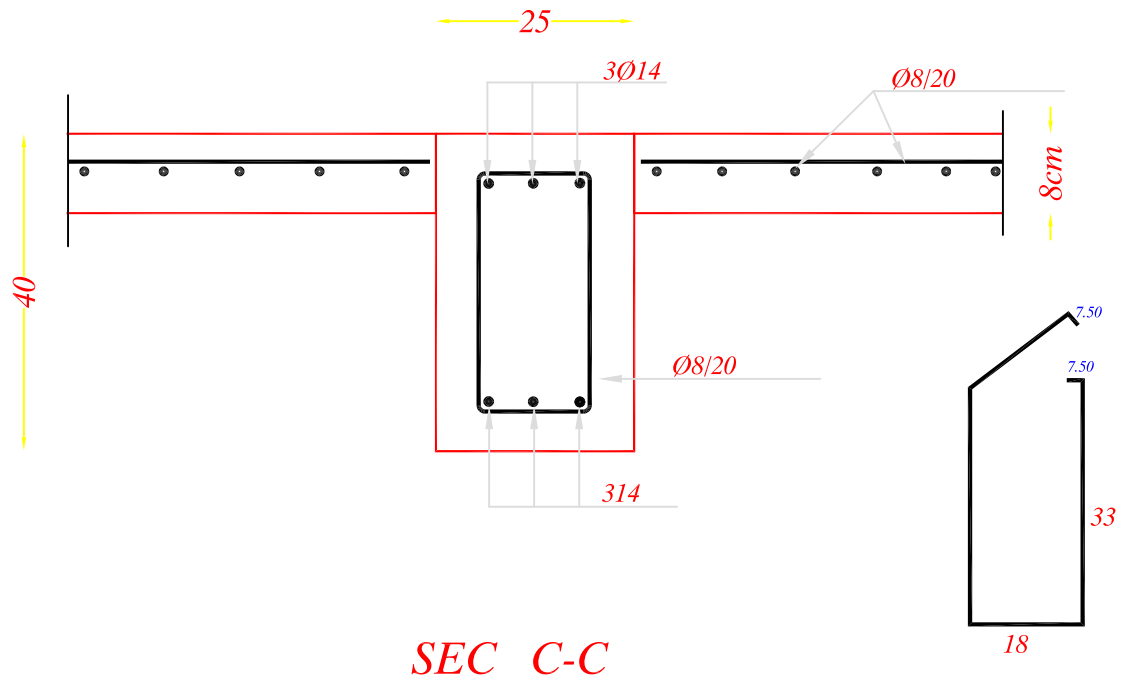
Symbol	Drawing No.	Rev. No.
RES	T7- C 09	R1



Sec A-A



Sec B-B



SEC C-C

Main Ground Beams Details

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

All Dimensions in cm

No.	Description	Date	By
4			
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2			
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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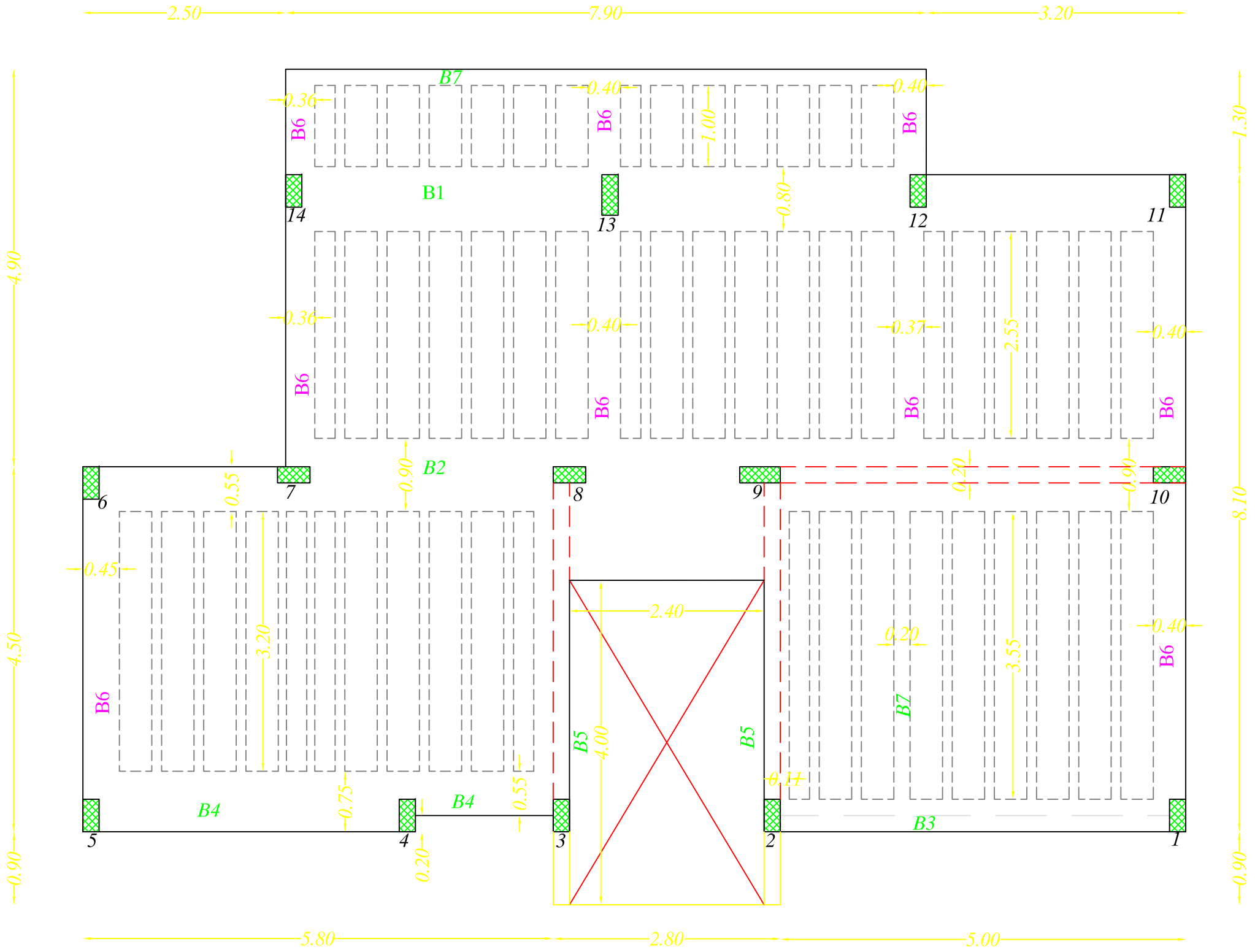
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Main Ground Beams Details

Symbol	Drawing No.	Rev. No.
RES	T7- C 10	R1



Beam Details & Reinforcement For Typical Floor-1

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date By
4		
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Revisions

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Date	File Name	Scale

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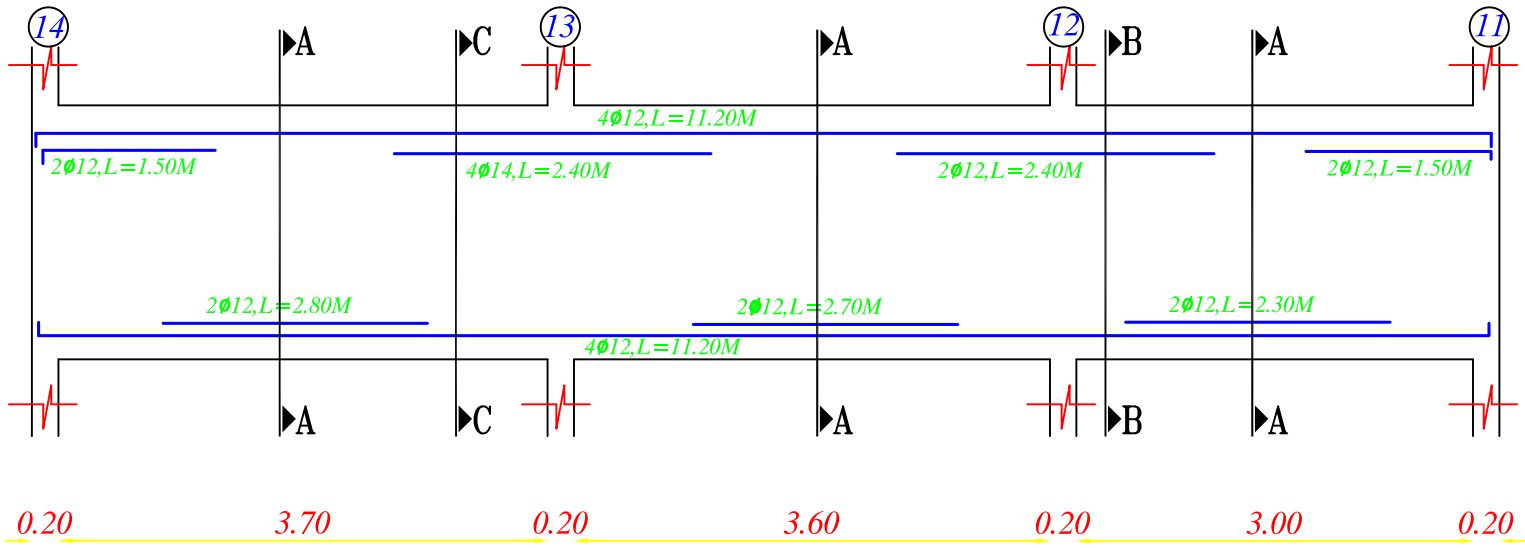
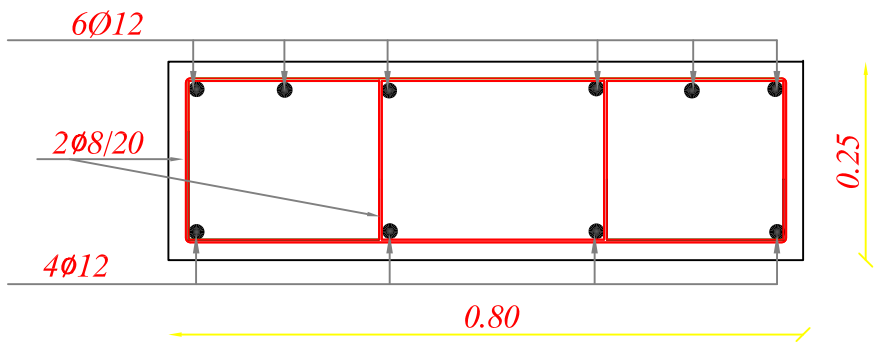
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Typical Floor

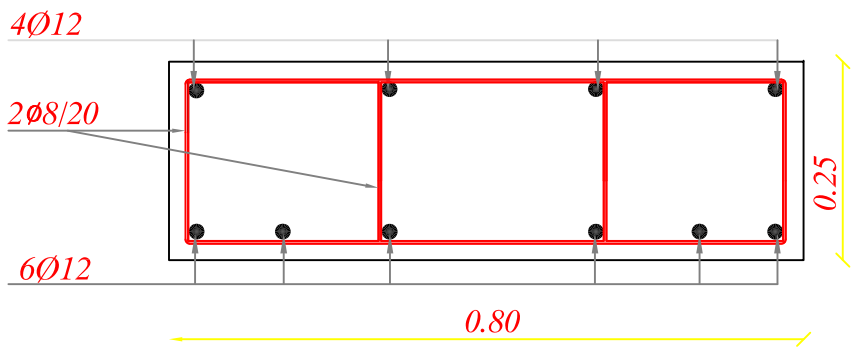
Symbol	Drawing No.	Rev. No.
RES	T7- C 11	R1

B1=25X80cm

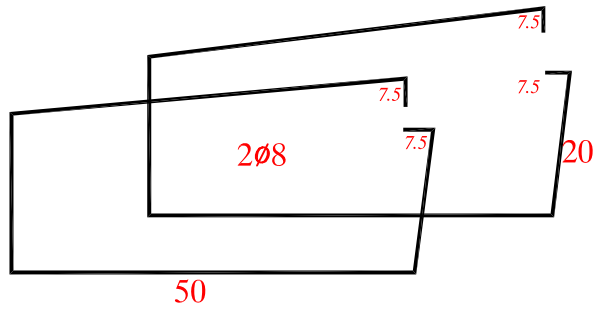


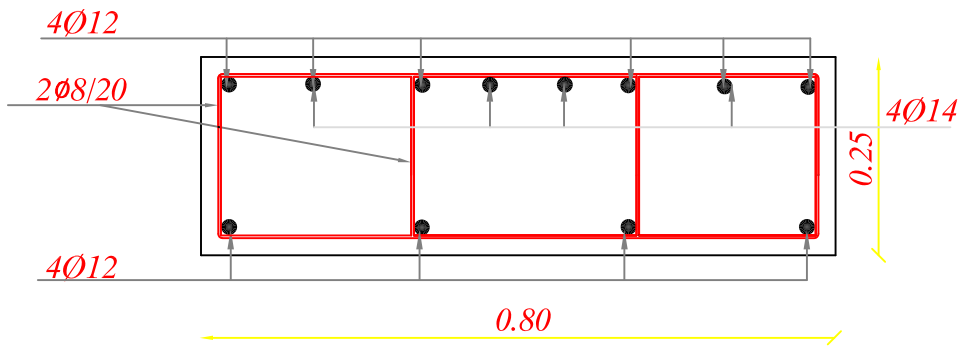


SECTION B-B



SECTION A-A





SECTION C-C

Beam Details & Reinforcement For Typical Floor-2

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
  B250 for other members
* The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm)
  (R)mild steel (fy=2500kg/cm^2)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span
* All Dimensions in meter

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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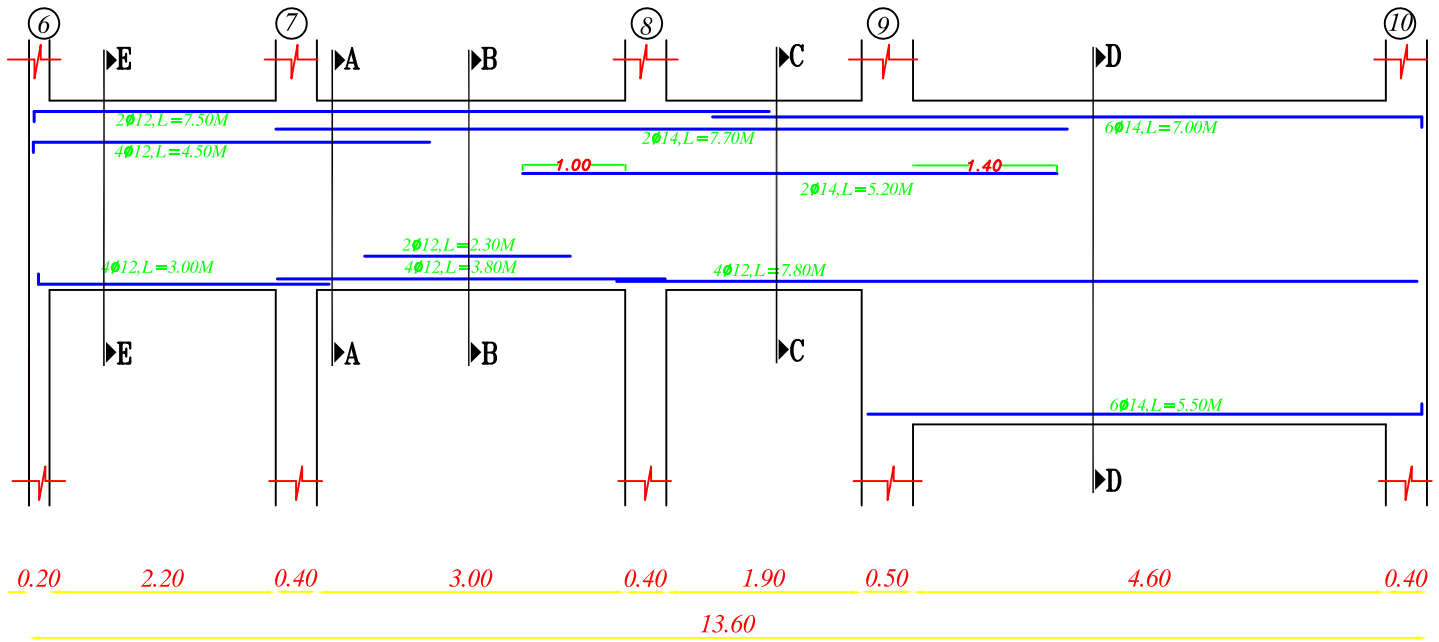
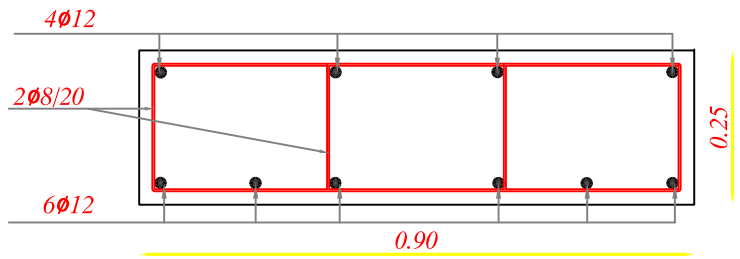
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Typical Floor-2

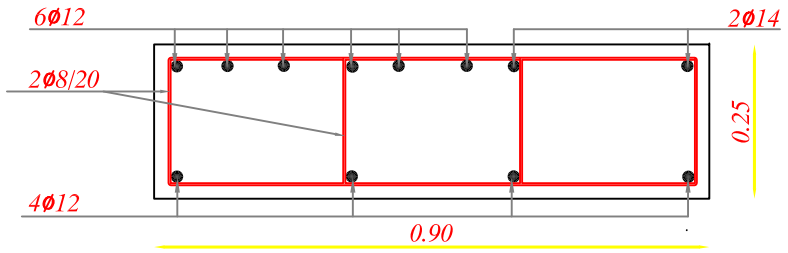
Symbol	Drawing No.	Rev. No.
RES	T7- C 12	R1

B2=25X90CM

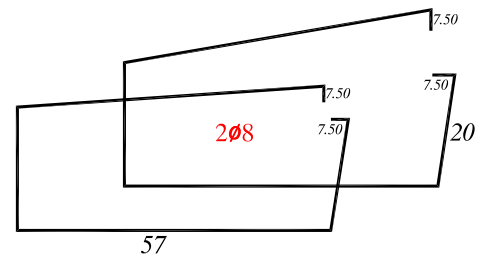


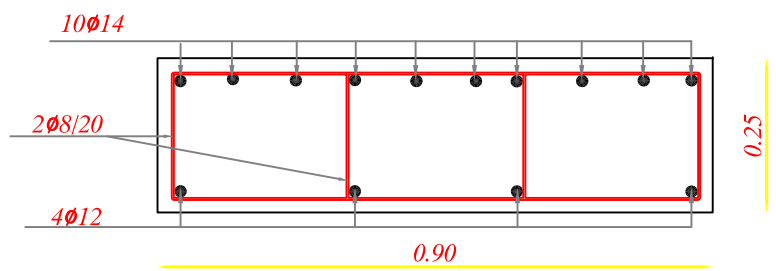


SECTION B-B

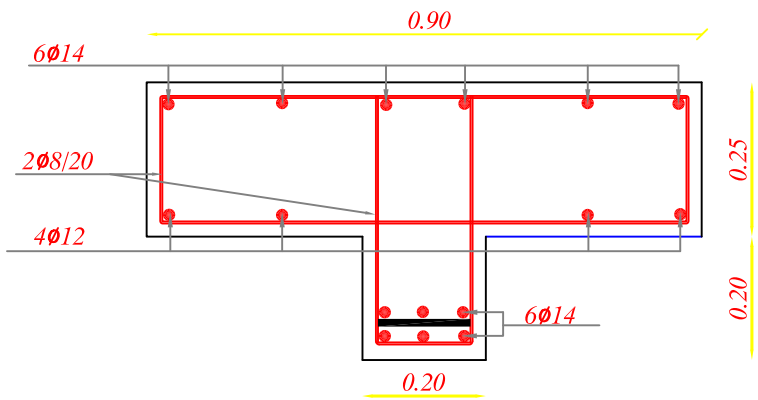


SECTION A-A

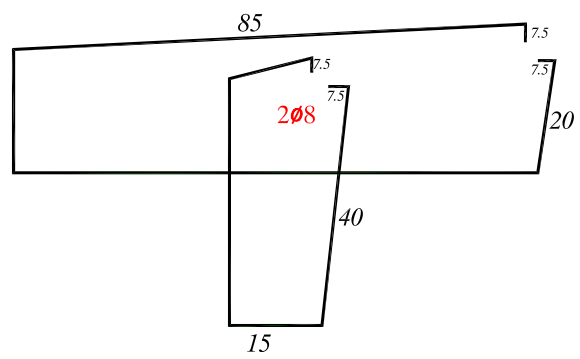


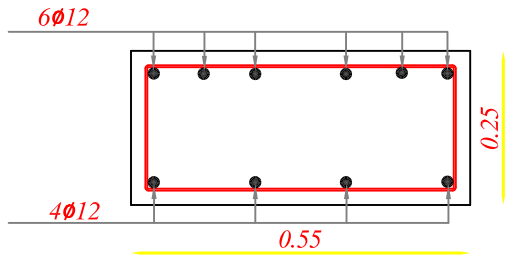


SECTION C-C

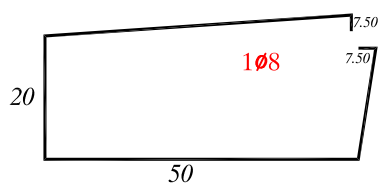


SECTION D-D





SECTION E-E



Beam Details & Reinforcement For First & Second Floor-3

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm^2)
  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

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PALESTINIAN NATIONAL AUTHORITY

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IMPLEMENTED BY:

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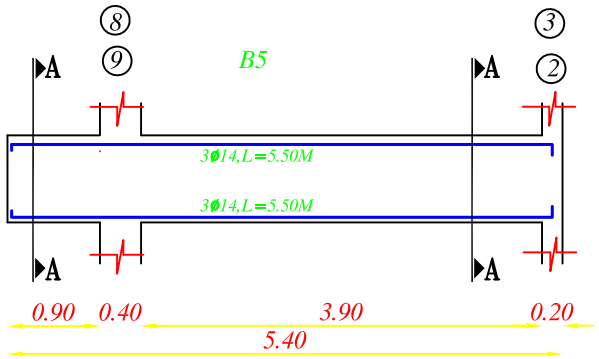
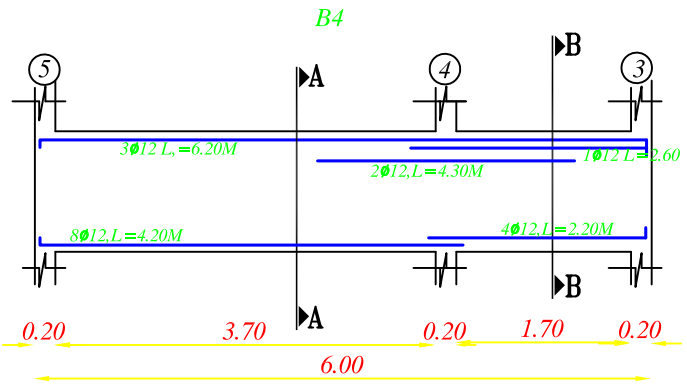
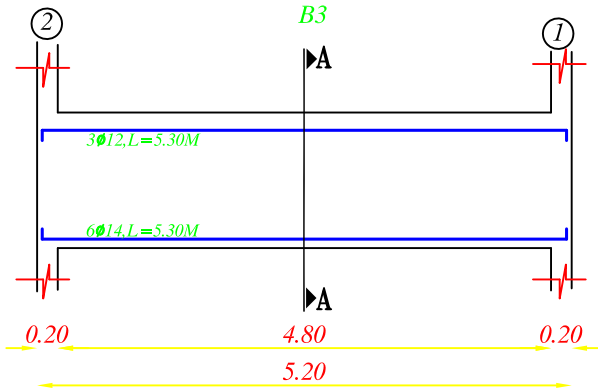
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

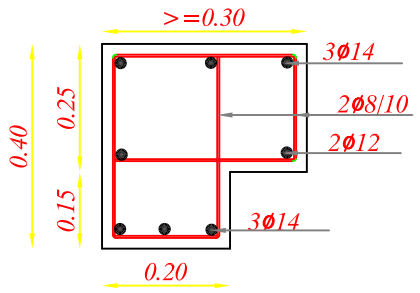
Beam Details & Reinforcement For First & Second Floor-3

Symbol	Drawing No.	Rev. No.
RES	T7-C 13	R1

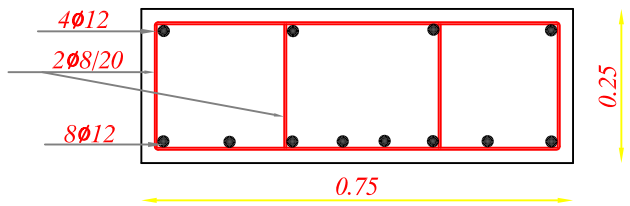




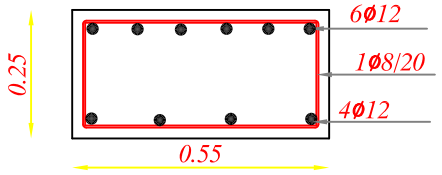




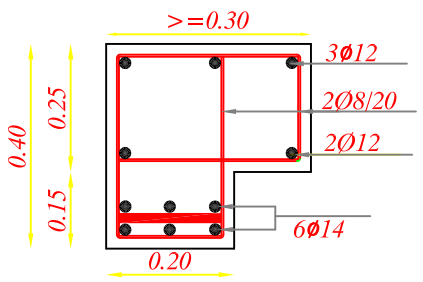
SECTION A-A



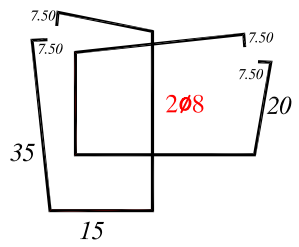
SECTION A-A

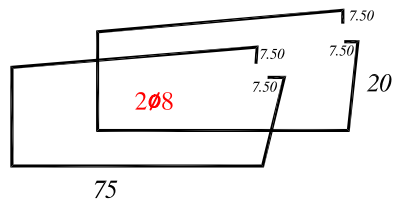


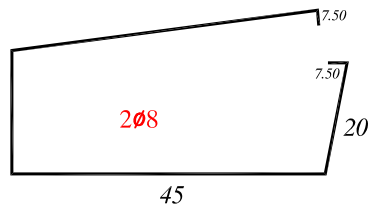
SECTION B-B

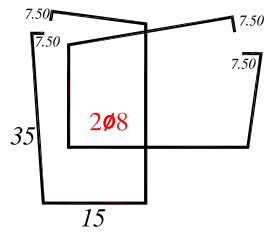


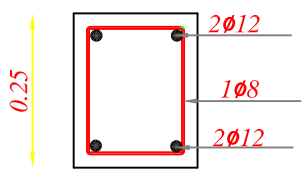
SECTION A-A



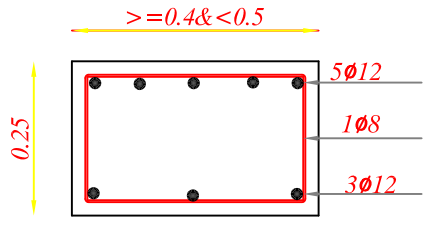




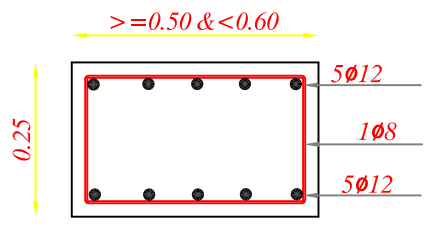




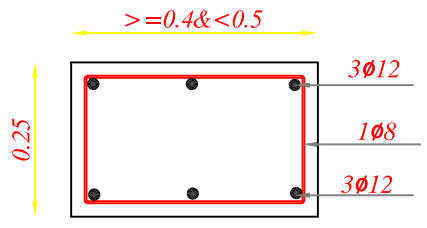
SECTION IN B7



SECTION IN B6 FOR CANTILIVER



SECTION IN B6



SECTION IN B6

Beam Details & Reinforcement
For Typical Floor-4

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm^2)
  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved
Date			

File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

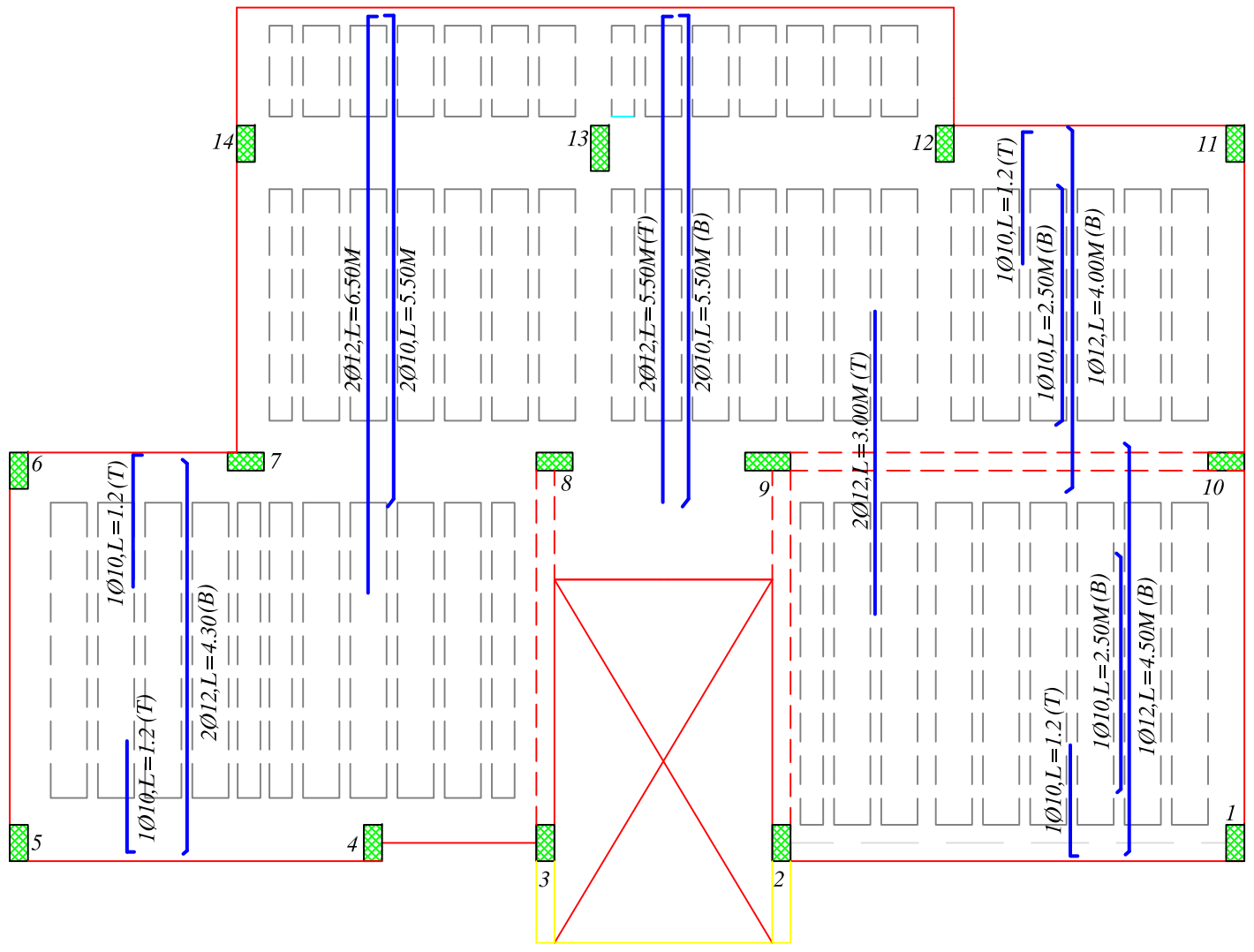
IMPLEMENTED BY:

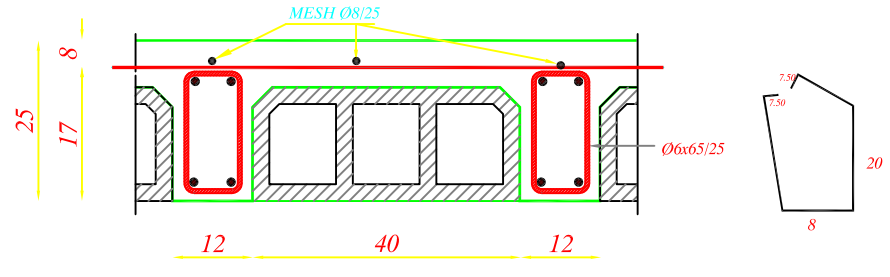
UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Beam Details & Reinforcement For Typical Floor-4

Symbol	Drawing No.	Rev. No.
RES	T7-C14	R1





SECTION IN RIBS

Ribs Details & Reinforcement For Typical Floor

NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel(fy=4200kg/cm^2)
  (R)mild steel (fy=2500kg/cm^2)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
- Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

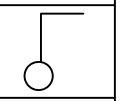
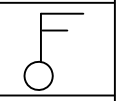
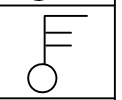
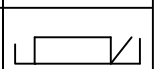
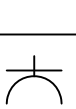
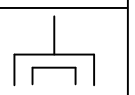
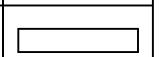
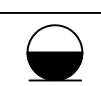
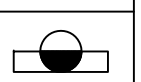
Ribs Details & Reinforcement For Typical Floor

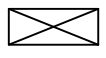
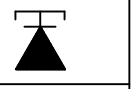
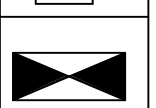
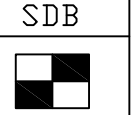
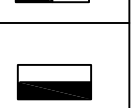
Symbol	Drawing No.	Rev. No.
RES	T7-C 15	R1

ELECTRICAL DRAWINGS

SS (TYPE 7)

جدول الرموز الكهربائية

الرمز	البيان
	مفتاح كهرباء مفرد
	مفتاح كهرباء مزدوج
	مفتاح ثلاثي
	ضاغط جرس
	ضاغط انارة الدرج
	جرس كهرباء
	مخرج كهرباء عادي 16A
	مخرج كهرباء بغطاء 16A
	مخرج تليفزيون
	مخرج تليفون
	مصباح فلورسنت مفرد
	كلوب دائري
	مصباح سقف عادي معلق
	مصباح حائط عادي
	مصباح حائط خافت
	مصباح مرأة الحمام

الرمز	البيان
	مروحة شفط
	وحدة الانتركوم الداخلية
	وحدة الانتركوم الخارجية
	لوحة توزيع كهرباء رئيسية
	لوحة توزيع كهرباء فرعية
	لوحة توزيع اتصالات رئيسية
	لوحة توزيع اتصالات فرعية

NOTES

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

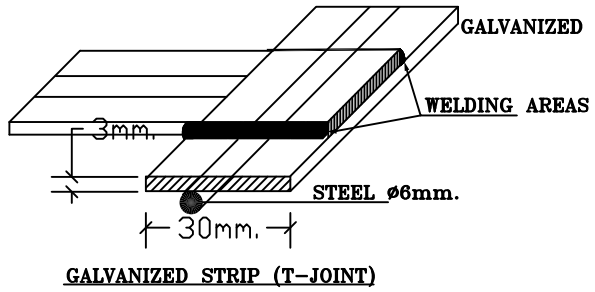
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

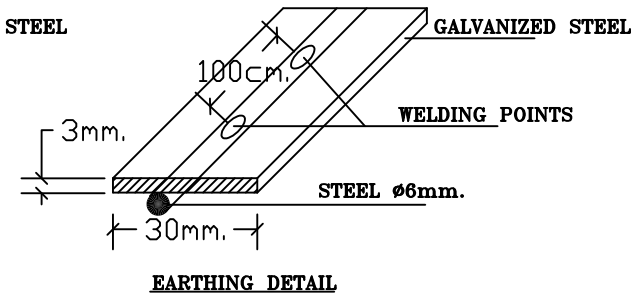
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Legend For Electrical Fittings

Symbol	Drawing No.:	Rev. No.
RES	*T1 - E 01*	R1

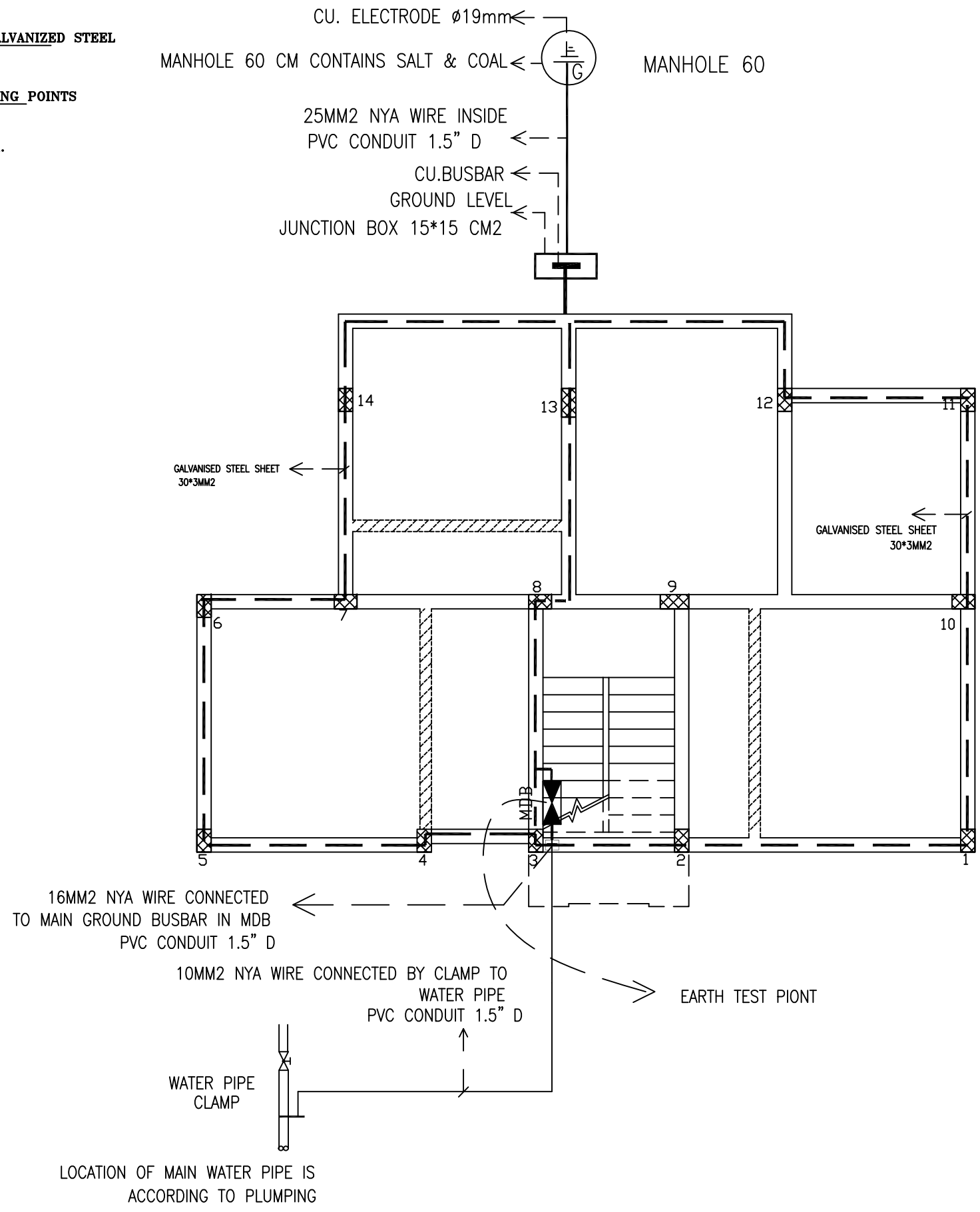


GALVANIZED STRIP (T-JOINT)



EARTHING DETAIL

يجب تمديد الارث الكهربائي قبل الصب



THE EARTHING SYSTEM RESISTANCE SHOULD BE LESS THAN OR EQUAL 2 OHM

NOTES

No.	Description	Date	By
4			
3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

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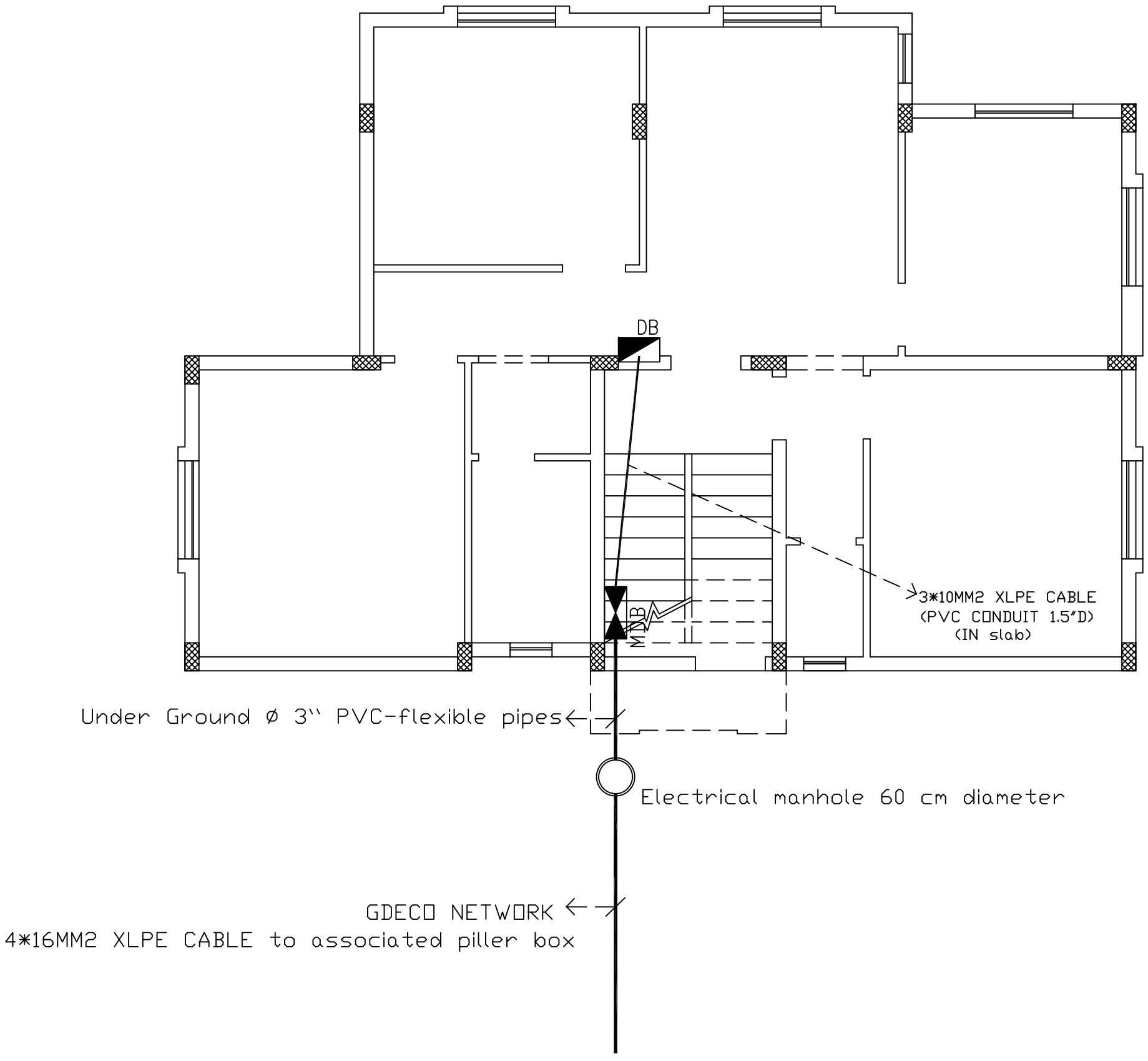
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Earthing System

Symbol	Drawing No.:	Rev. No.
RES	T7 - E 02	R1



NOTES

No.	Description	Date	By
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3			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

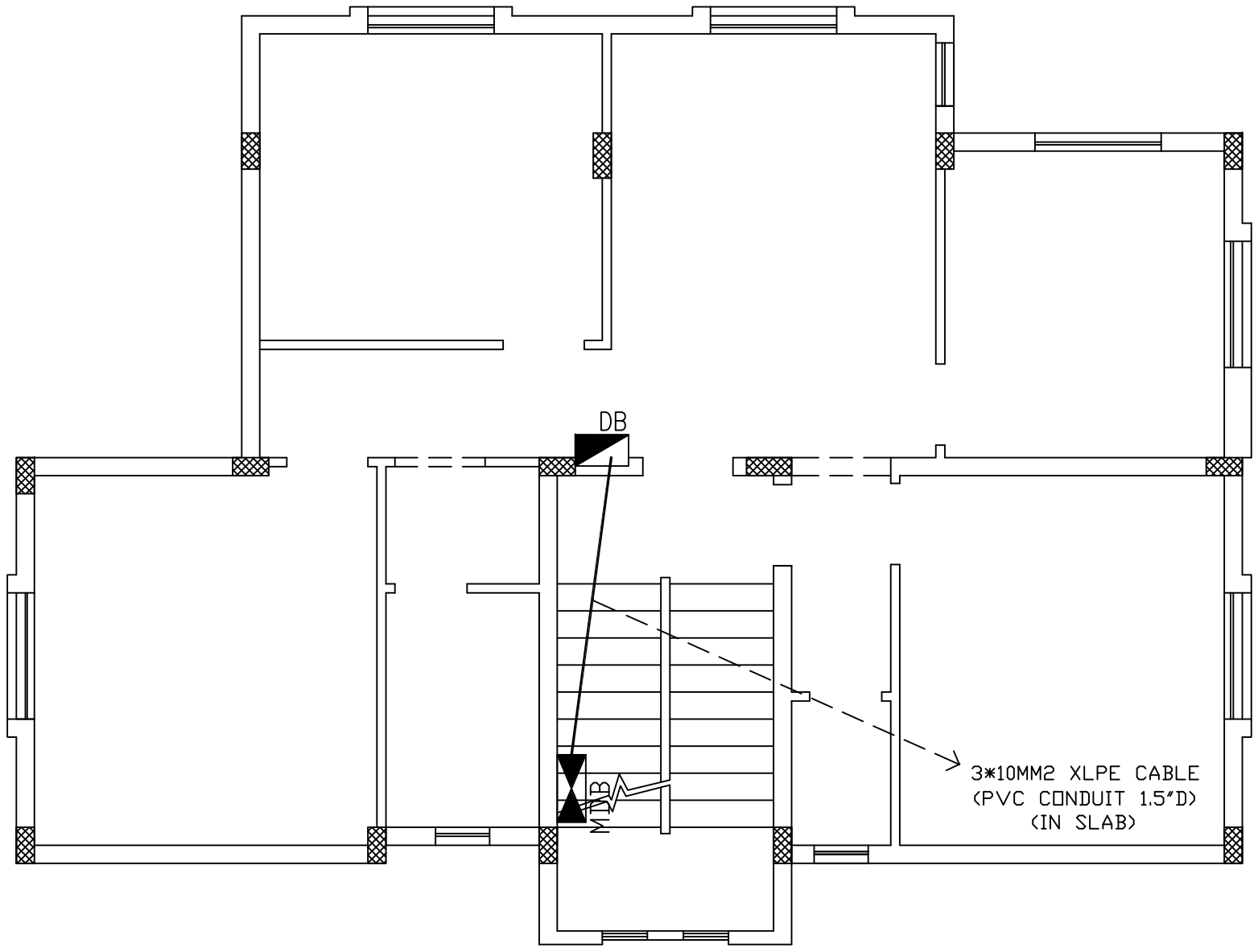
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Main Electrical Incoming and Distributions

Symbol	Drawing No.:	Rev. No.
RES	T7 - E 03	R1



NOTES

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

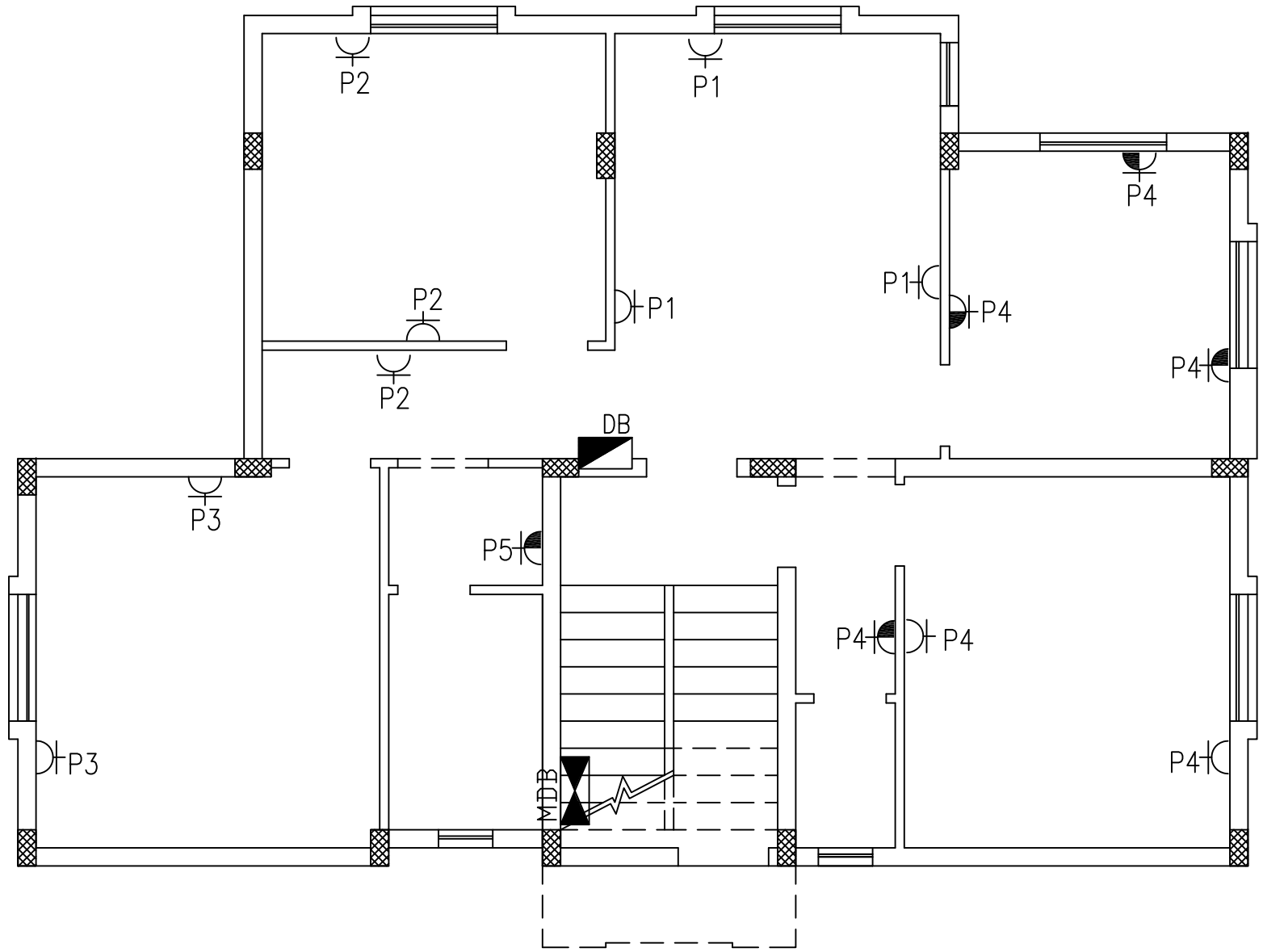
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Distribution Boards
for First Floor

Symbol	Drawing No.:	Rev. No.
RES	T7 - E 04	R1



NOTES

HEIGHT OF SOCKET =90 CM FROM FFL

HEIGHT OF SOCKET =120 CM FROM FFL AT KITCHEN

HEIGHT OF BOARDS =180 CM FROM FFL TO BOTTOM

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

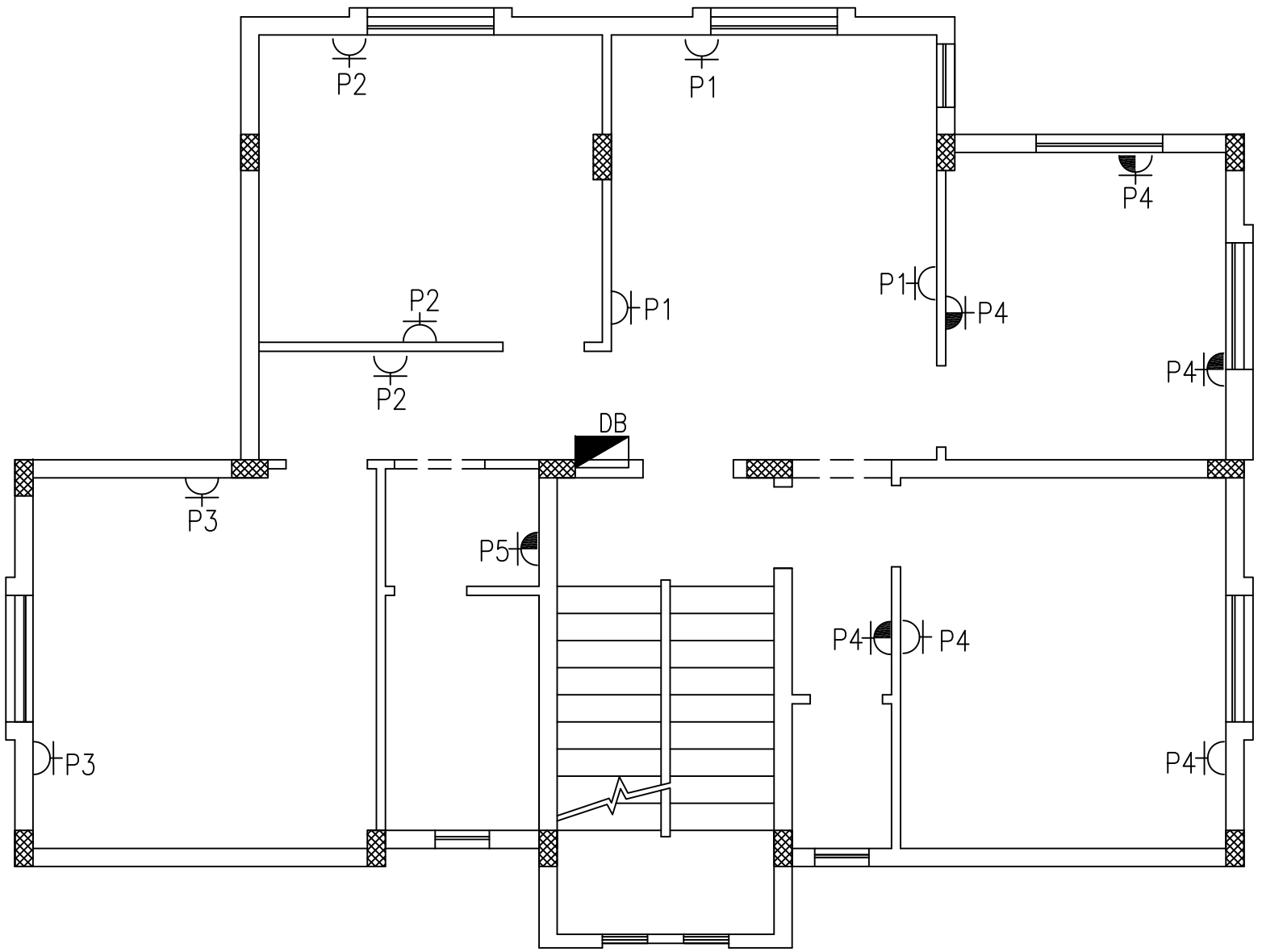
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Power Outlets Layout For Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	*T7 - E 05*	R1



NOTES

HEIGHT OF SOCKET =90 CM FROM FFL

HEIGHT OF SOCKET =120 CM FROM FFL AT KITCHEN

HEIGHT OF BOARDS =180 CM FROM FFL TO BOTTOM

No.	Description	Date	By
4			
3			
2			
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

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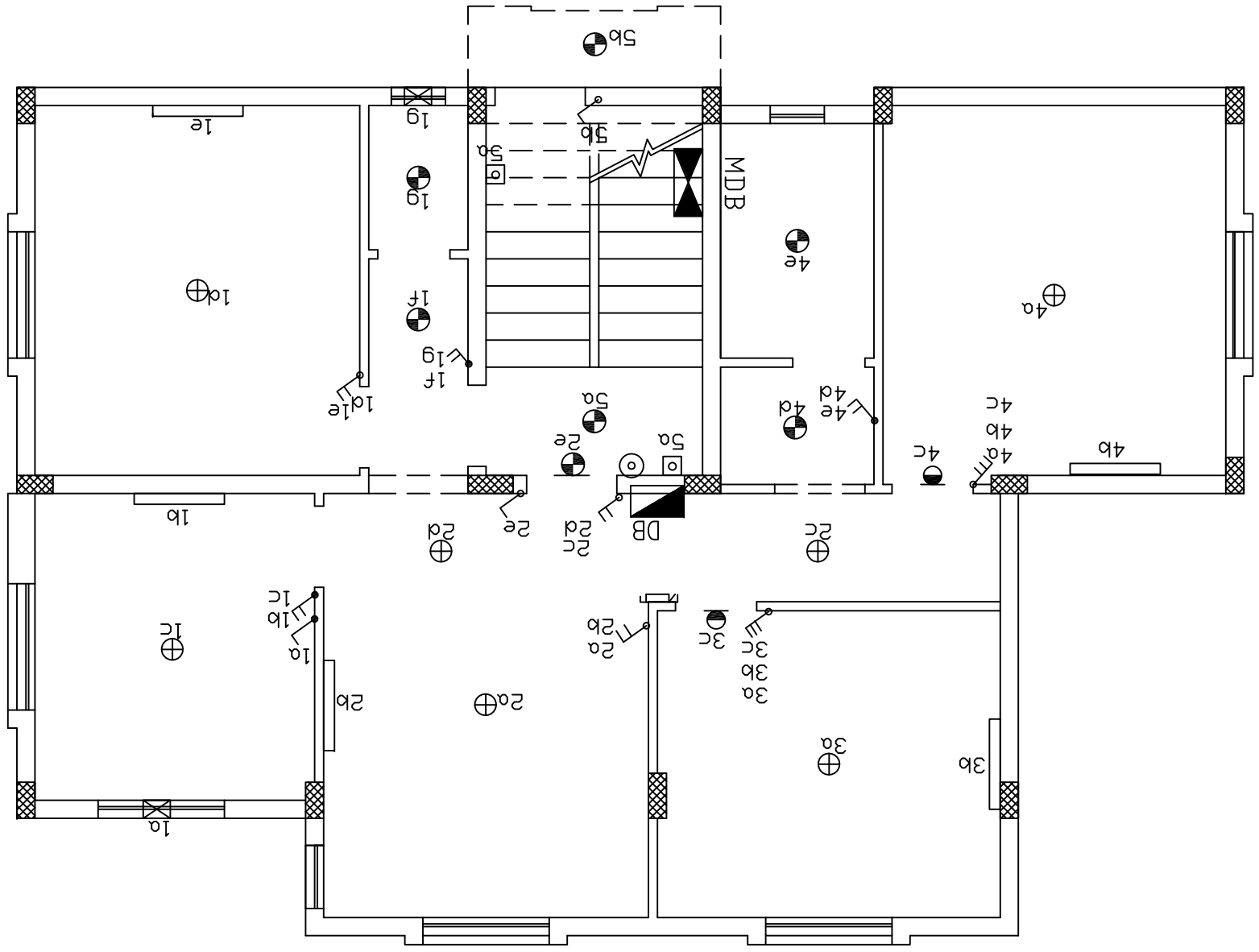
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Power Outlets Layout
for First Floor

Symbol	Drawing No.:	Rev. No.
RES	T7 - E 06	R1



NOTES

HEIGHT OF SWITCHES =137 CM FROM FFL

EXHAUST FAN =220 CM FROM FFL

No.	Description	Date	By
1			
2			
3			
4			

Revisions

Designed	*Drawn*	*Checked*	*Approved*

Date	*File Name*	*Scale*

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

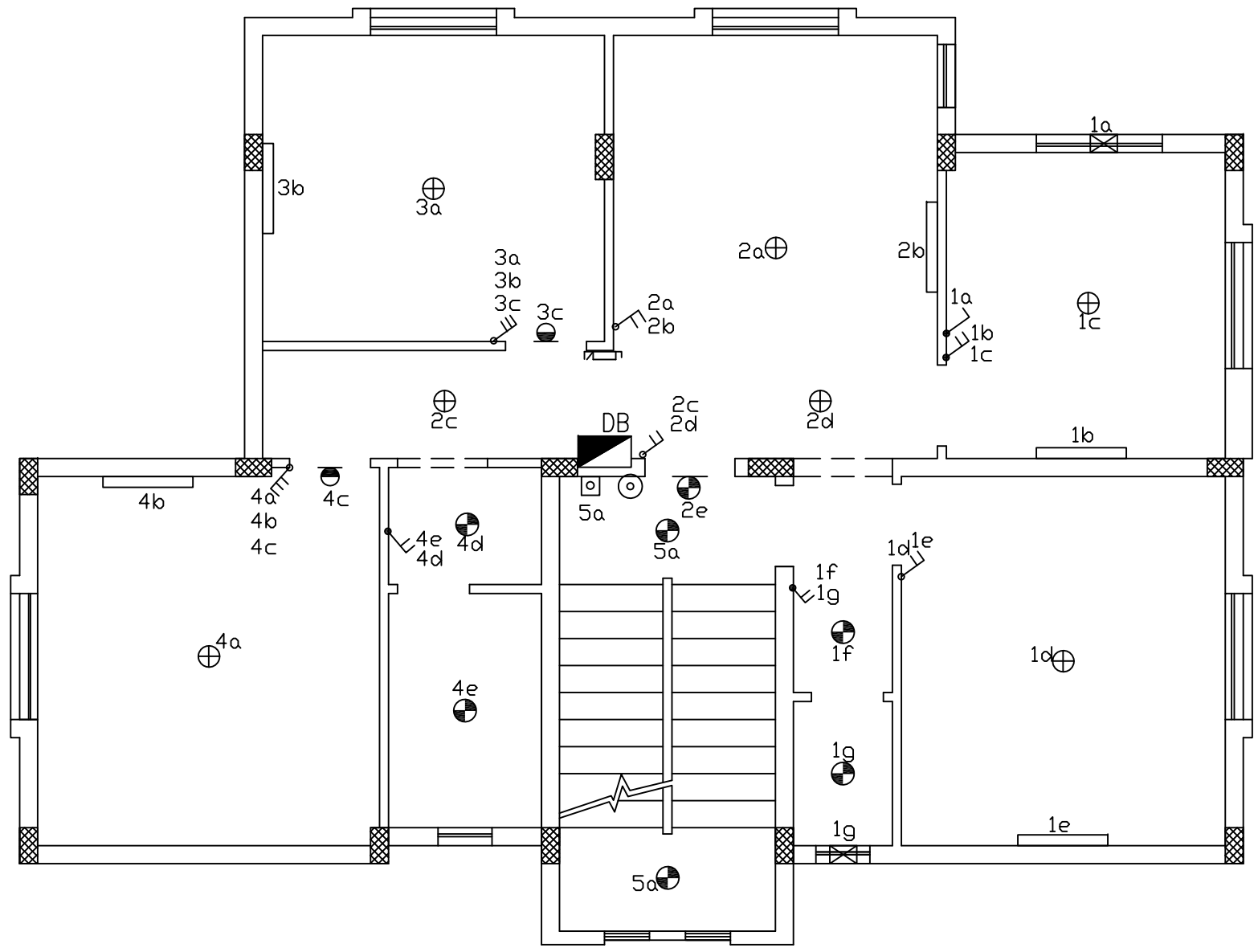
SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Lighting Layout For Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	*T7 - E 07*	R1



NOTES

HEIGHT OF SWITCHES =137 CM FROM FFL

EXHAUST FAN =220 CM FROM FFL

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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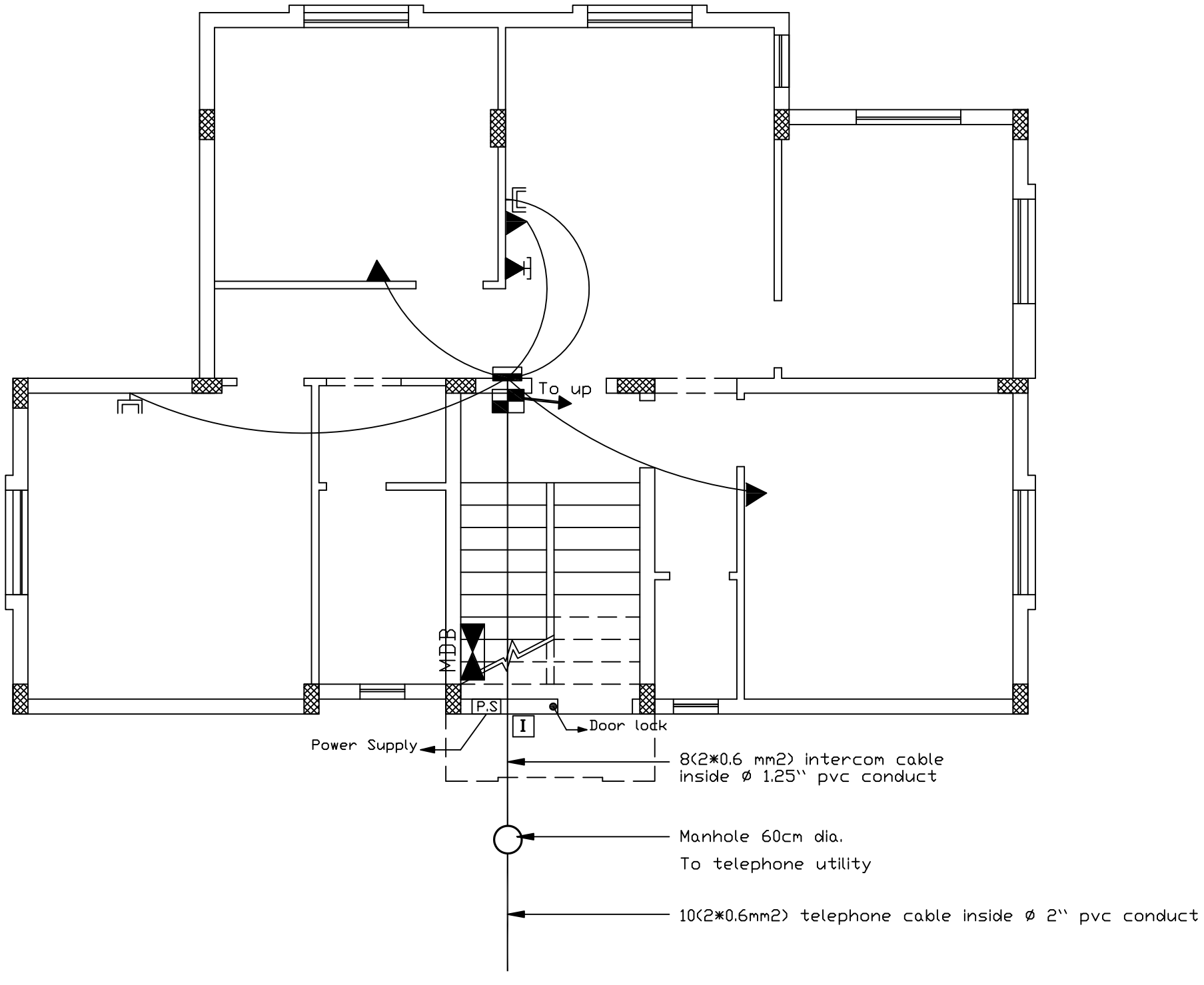
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Lighting Layout for First Floor

Symbol	Drawing No.:	Rev. No.
RES	*T7 - E 08*	R1



NOTES

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

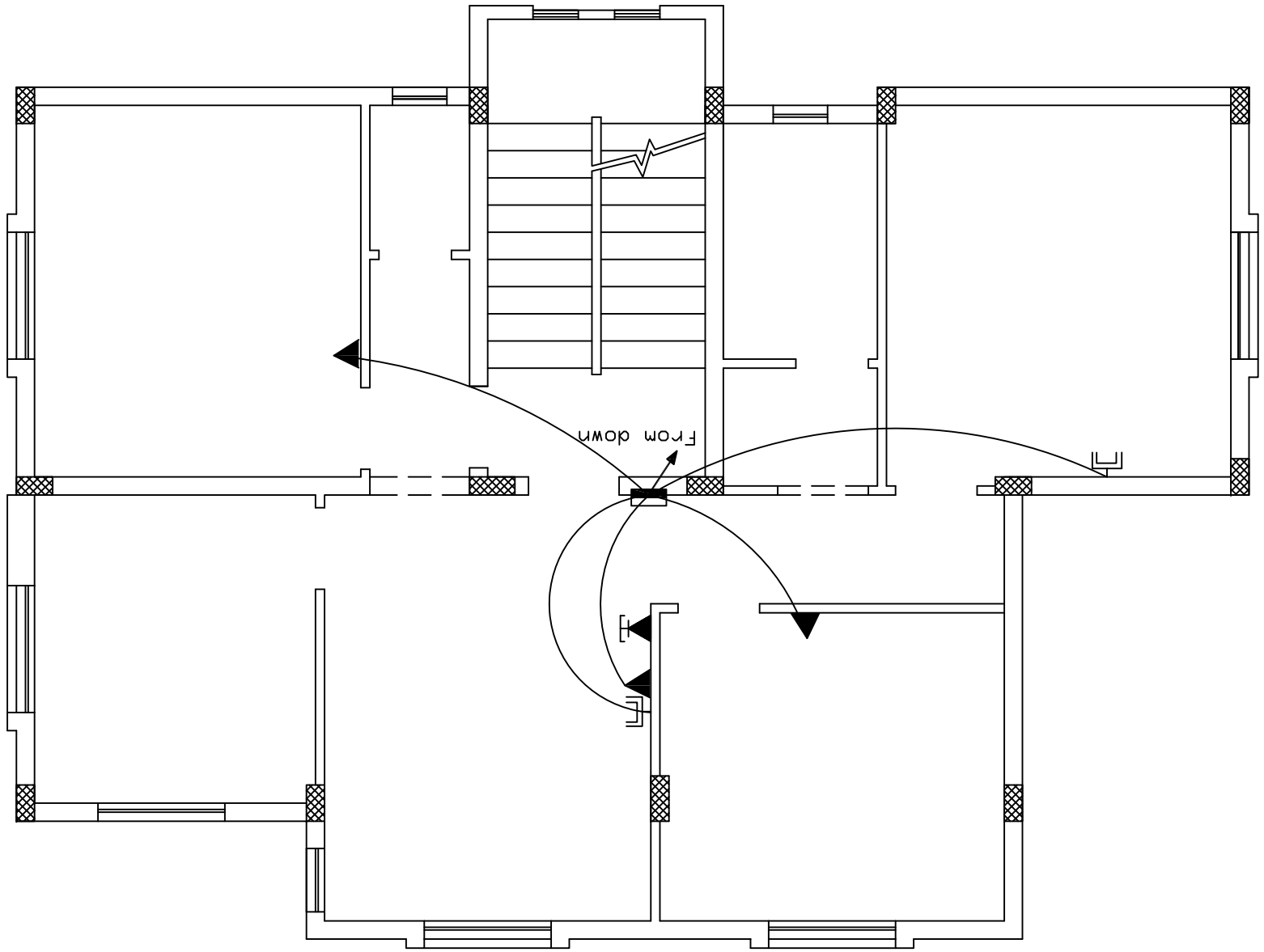
IMPLEMENTED BY:

PROJECT:-

CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Intercom, TV. and Telephone Layout for Ground Floor

Symbol	Drawing No.:	Rev. No.
RES	T7 - E 09	R1



NOTES

No.	Description	Date	By
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

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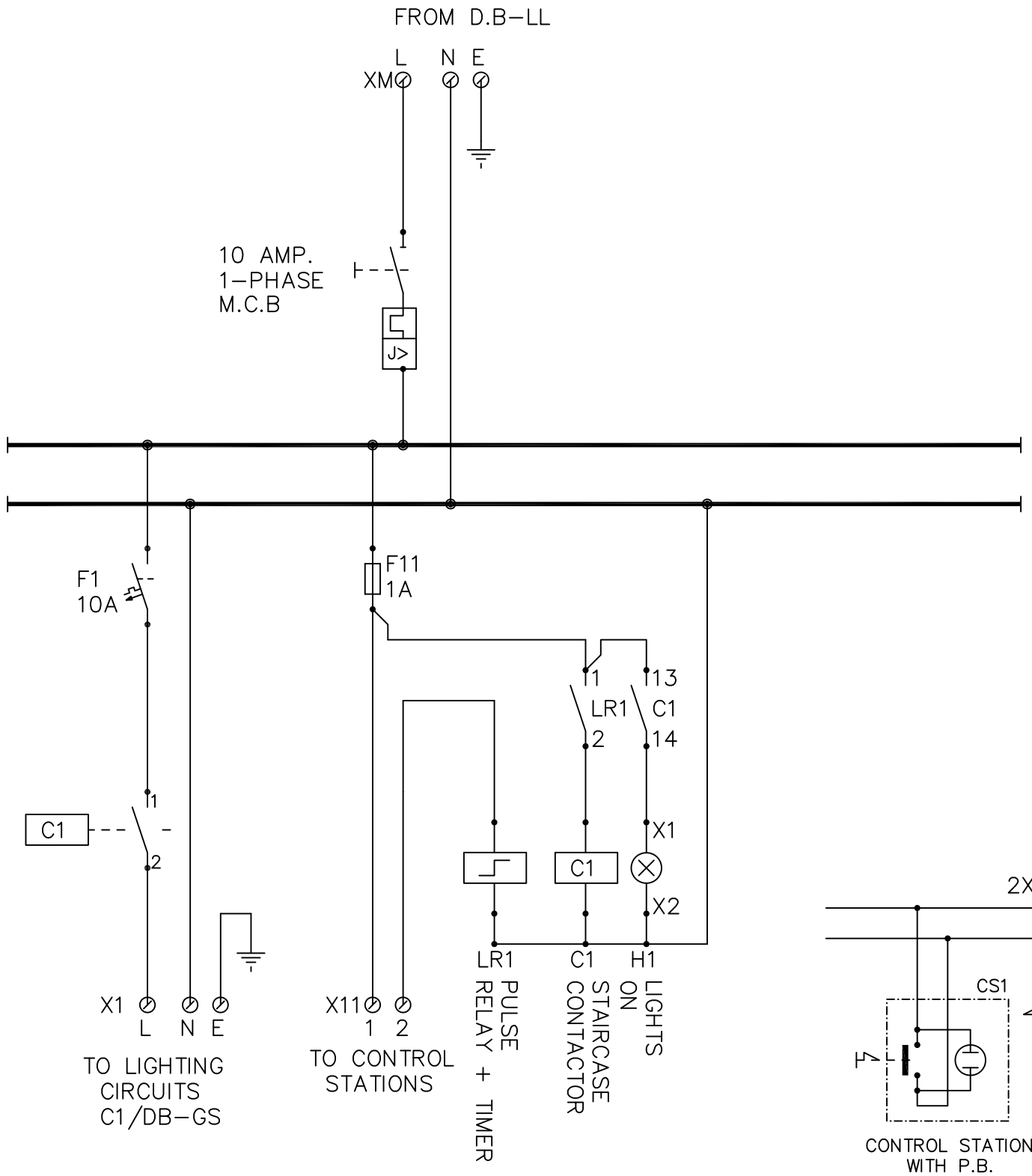
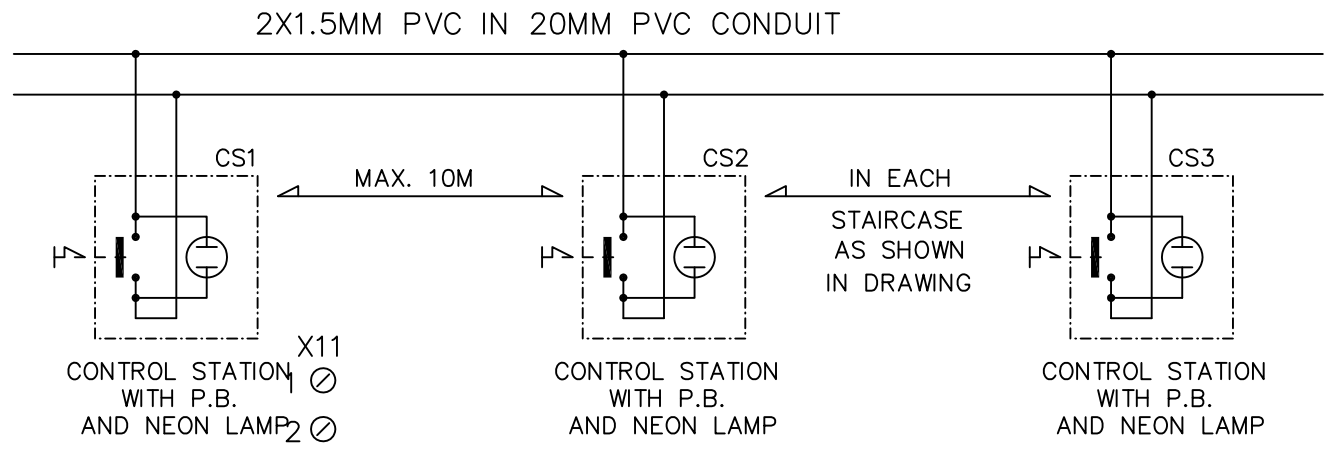
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Intercom, TV. and Telephone Layout
for First Floor

Symbol	Drawing No.:	Rev. No.
RES	17- E 10	R1



TYPICAL STAIRCASE LIGHTING CIRCUIT



TYPICAL LIGHTING CIRCUIT DETAIL FOR STAIRCASE

NOTES

No.	Description	Date	By
4			
3			
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1			

Revisions

Designed	Drawn	Checked	Approved

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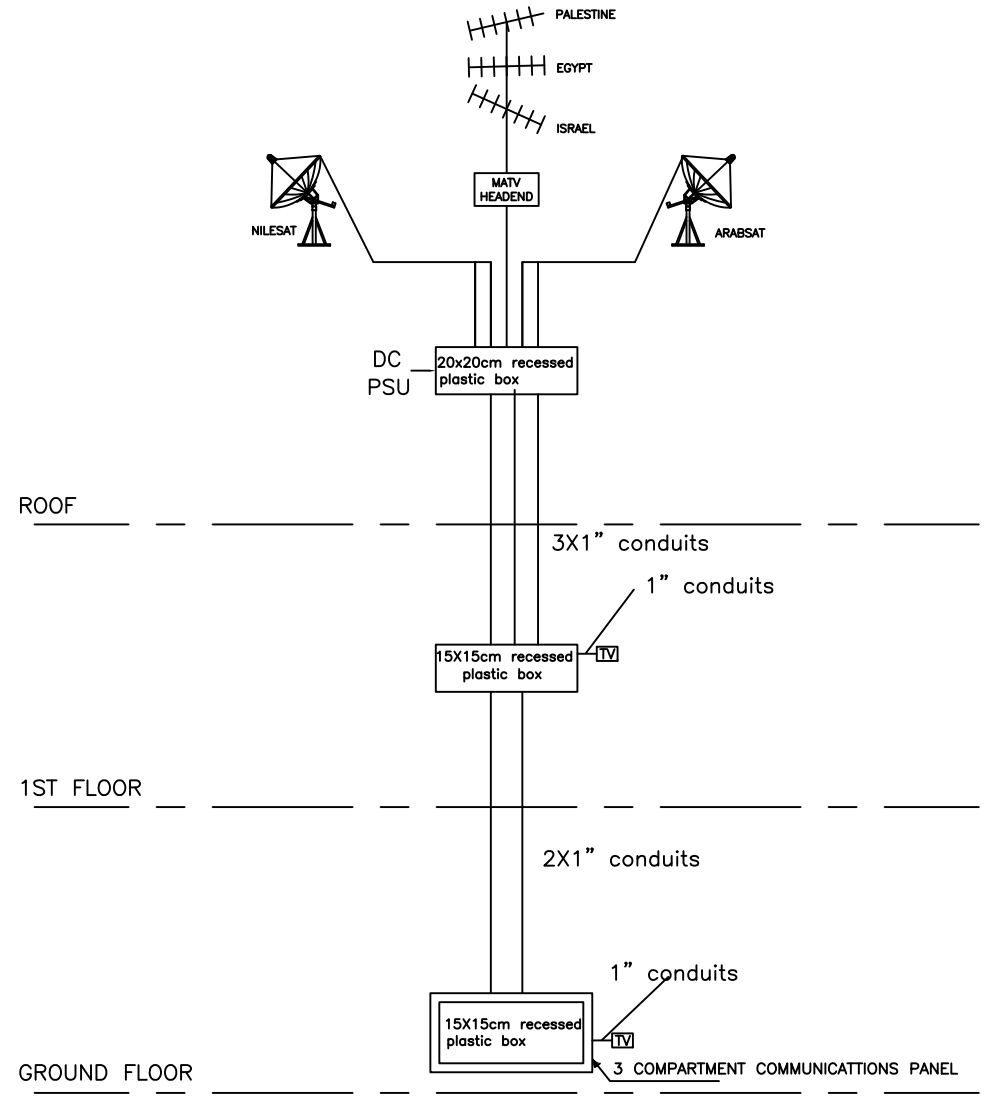
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

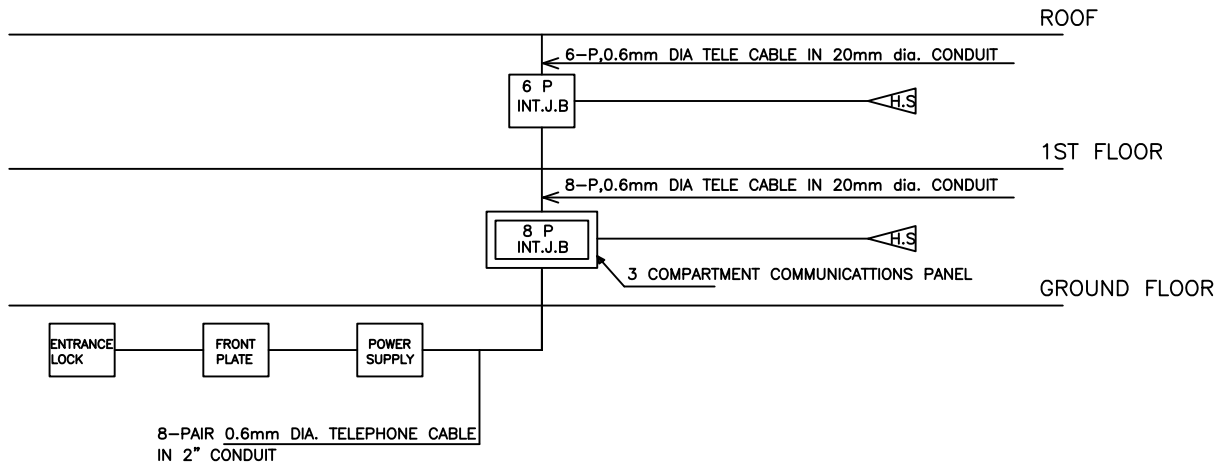
TYPICAL DISTRIBUTION BOARD FOR STAIRCASE

Symbol	Drawing No.:	Rev. No.
RES	T7 - E 11	R1

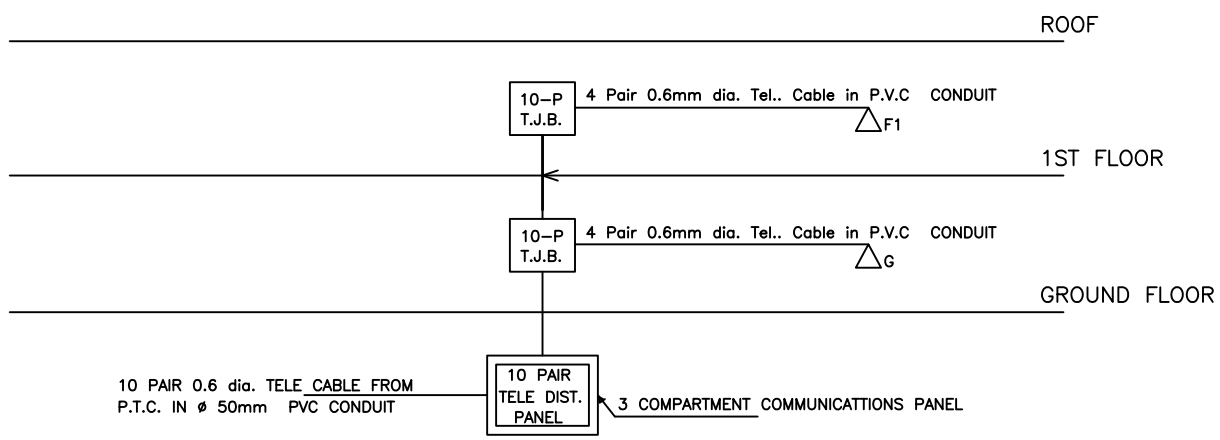


CENTRAL SATELLITE AND TELEVISION RISER DIAGRAM

Carcassing Only (boxes and conduits)



INTERCOM SYSTEM RISER DIAGRAM



TELEPHONE RISER DIAGRAM

NOTES

LEGEND:

P: DENOTES ONE PAIR OF CABLE

H.S : HAND SET COMPLETE WITH LOCK OPENING PUSH BUTTON

FRONT PLATE SHALL BE EQUIPPED WITH:

a) AUDIO MODULE
b) CALL BUTTON MODULE
c) REMOTE MIC

No.	Description	Date	By
4			
3			
2			
1			

Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

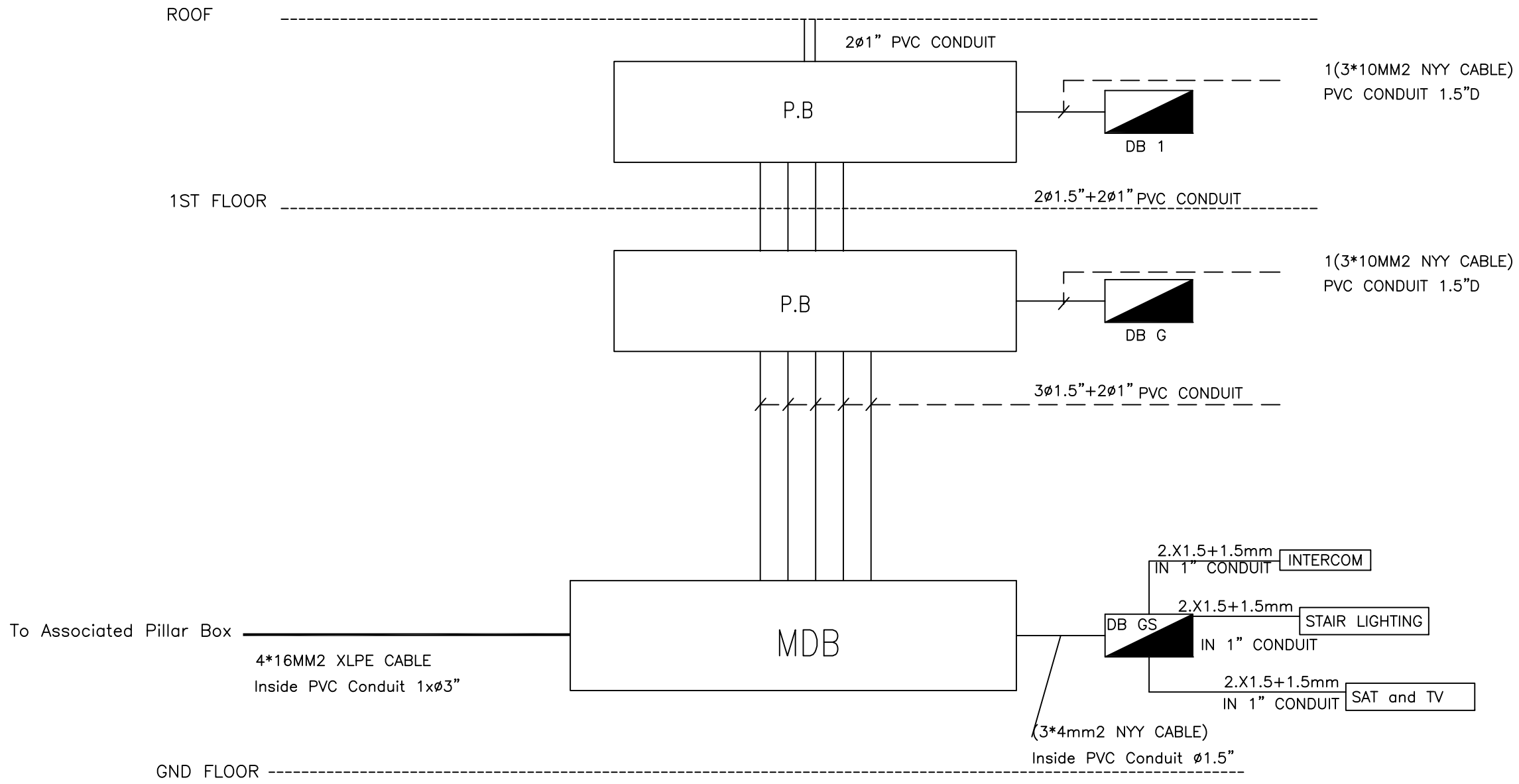
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Tv., Tel., Sat & Intercom Riser Diagram

Symbol	Drawing No.:	Rev. No.
RES	T7 - E 12	R1

NOTES:

1. DO NOT SCALE FROM THIS DRAWING
2. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH OTHER RELEVANT ARCHITECTURAL, STRUCTURAL MECHANICAL, ELECTRICAL, ALL OTHER DRAWINGS AND ALL THE RELEVANT SECTIONS OF THE SPECIFICATION
3. EACH K.W.H.M CABINET TO HAVE SUITABLE LOCK WITH MODULAR CONSTRUCTION EQUIPPED WITH DOOR AND SUITABLE GLAZED WINDOW TO READ THE K.W.H.M WITHOUT OPENING THE DOOR.



NOTES

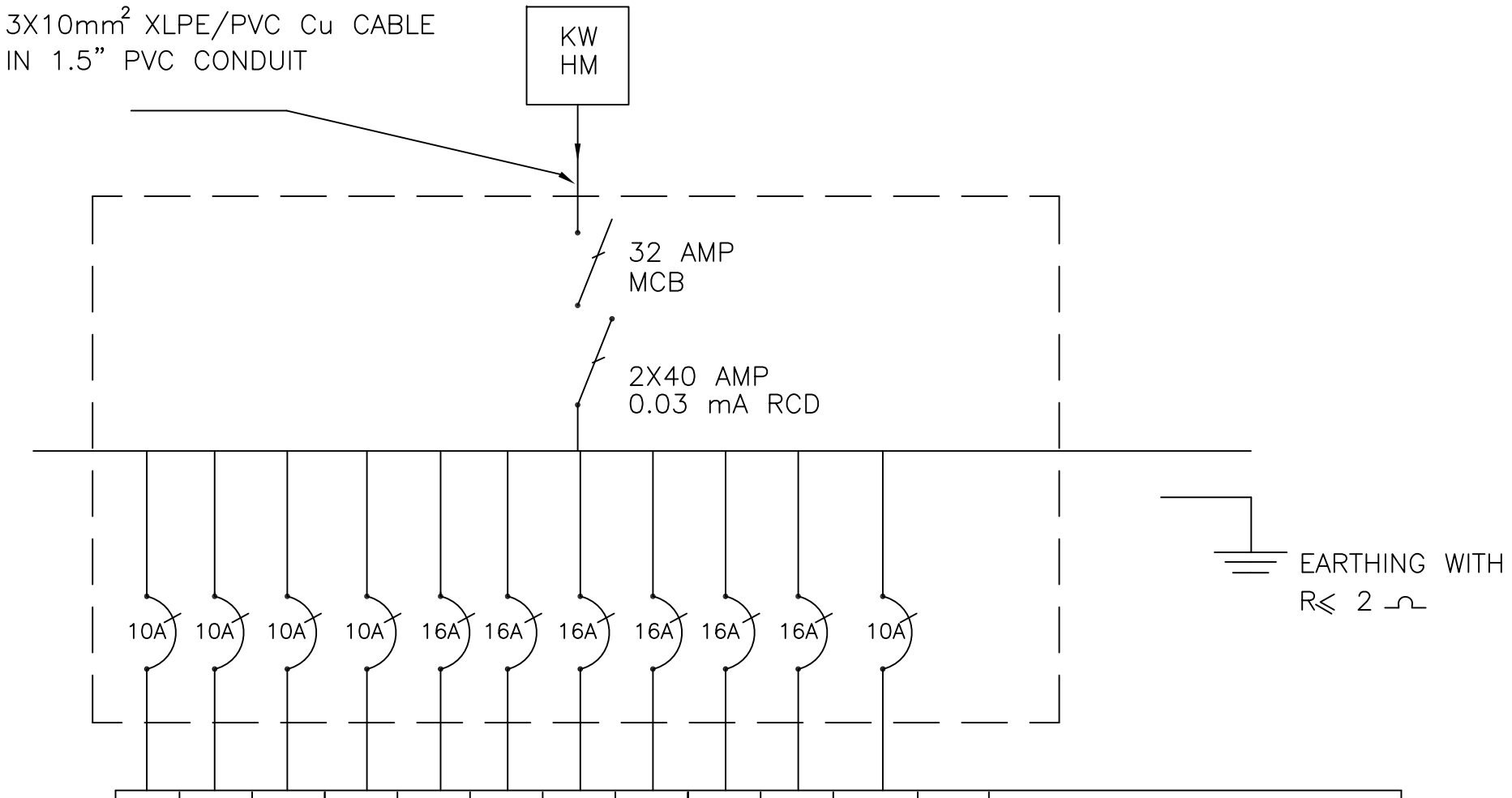
LEGEND

DB	SECONDARY DISTRIB. BOARD	
DB XY	X=FLOOR NO.,Y=FLAT NO.	
P.B	PULL BOX	40*25*8 CM

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Power Riser Diagram

Symbol	Drawing No.:	Rev. No.
RES	*T7 - E 13*	R1



L1	L2	L3	L4	P1	P2	P3	P4	P5	PS	LS		CIRCUIT NUMBER
800	700	700	700	800	1000	500	1500	1500		–	–	LOAD IN V.A.
2900				5300					SPARES			8200 TOTAL CONNECTED LOAD V.A
3X1.5 mm²				3x2.5 mm²								SIZE OF WRING MM²
20mm DIA HEAVY GAUGE PVC												SIZE OF CONDUIT AND TYPE
LIGHTING				SW. SOCKET OUTLET					SPARE			LOAD SERVED

TOTAL CONNECTED LOAD=8200 VA
DEMAND FACTOR:30%
TOTAL DEMAND=5740 VA

TYPICAL FLAT DISTRIBUTION BOARD

DB-G,1&2

NOTES

No.	Description	Date	By
4			
3			
2			
1			

Revisions

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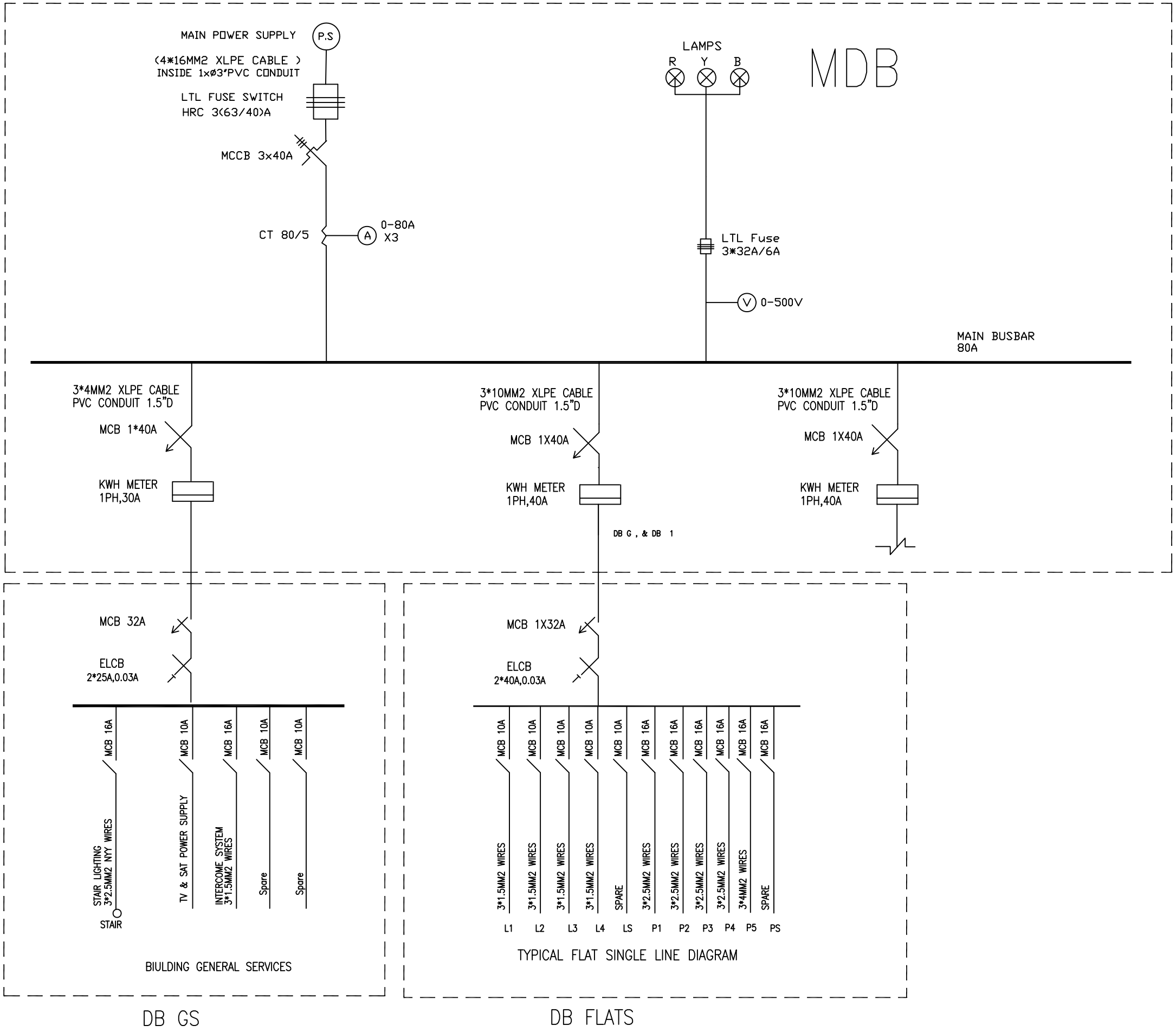
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

TYPICAL FLAT DISTRIBUTION BOARD

Symbol	Drawing No.:	Rev. No.
RES	T7 - E 14	R1



NOTES

No.	Description	Date	By
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PROJECT:-
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IN RAFAH

Main Distribution Board
Single Line Diagram

Symbol	Drawing No.:	Rev. No.
RES	T7 - E 15	R1

List of Drawings

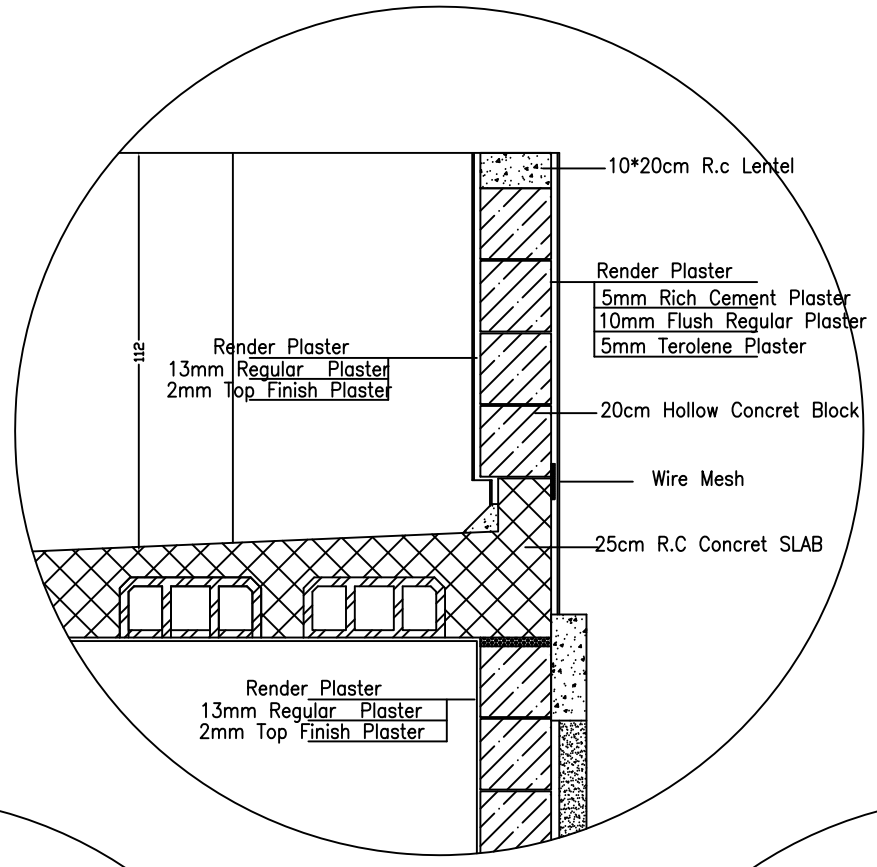
General Architectural Details

AD-01 Wall Details
AD-02 Elevation Details
AD-03 Stair Details
AD-04 Kitchen Details
AD-05 Bathroom Details
AD-06 Wooden Door Details
AD-07 Steel Doors Details
AD-08 Window Details

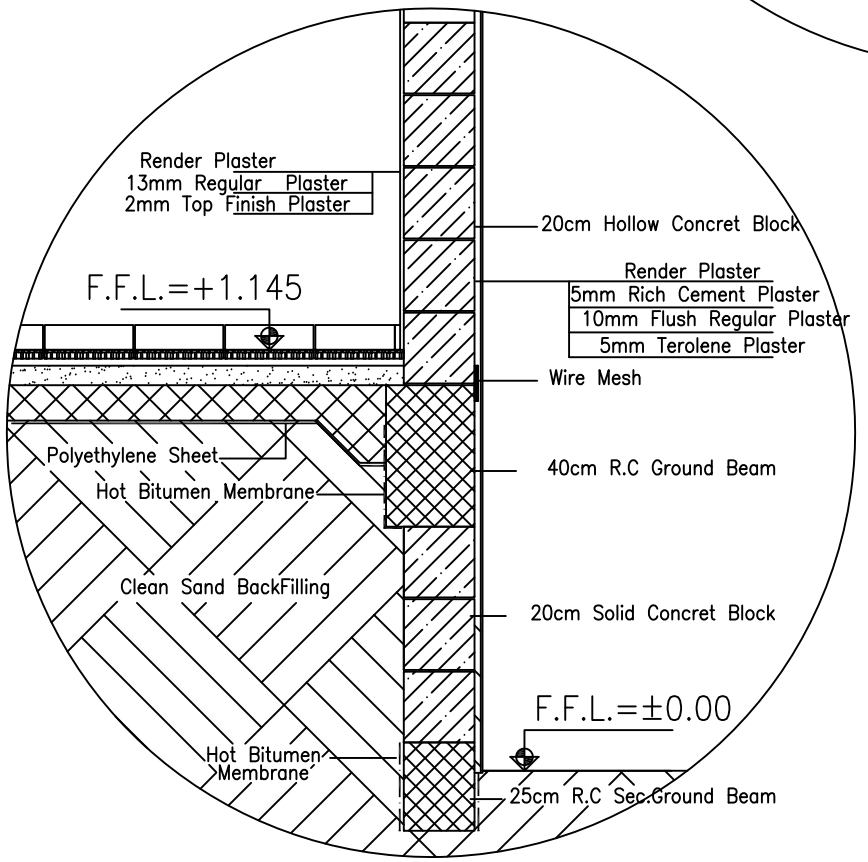
General Civil Details

CD-01 Stair Details
CD-02 Stair Slab Reinforcement
CD-03 Sills, Lintels & Roof Reinforcement
CD-04 Decoration Details

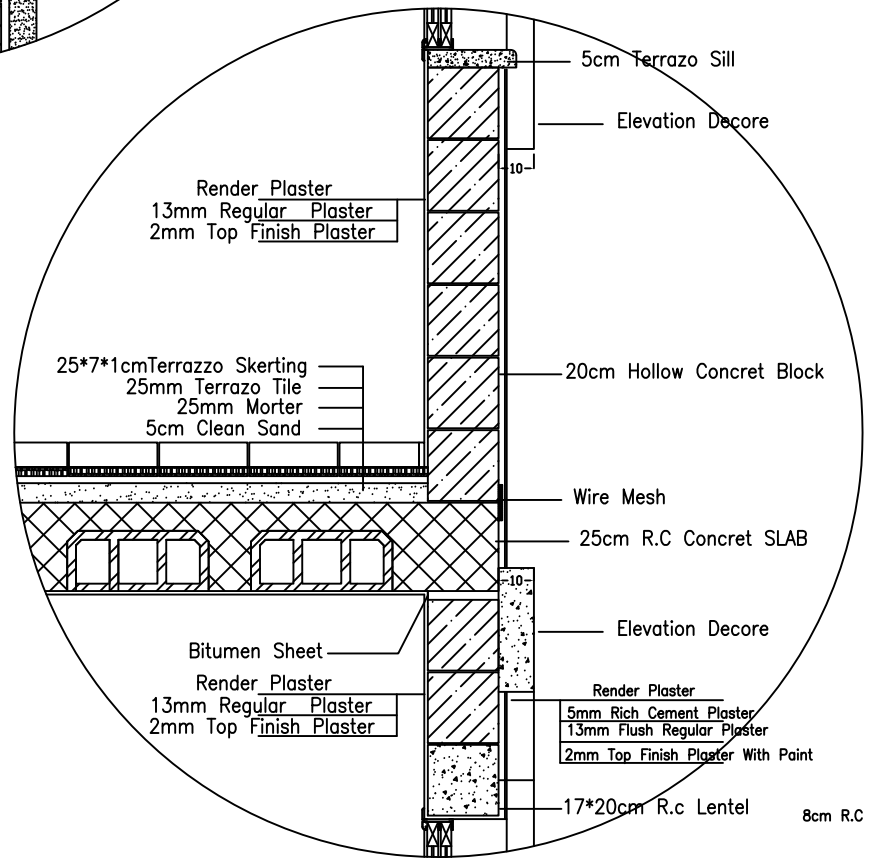
GENERAL ARCHITECTURAL DETAILS



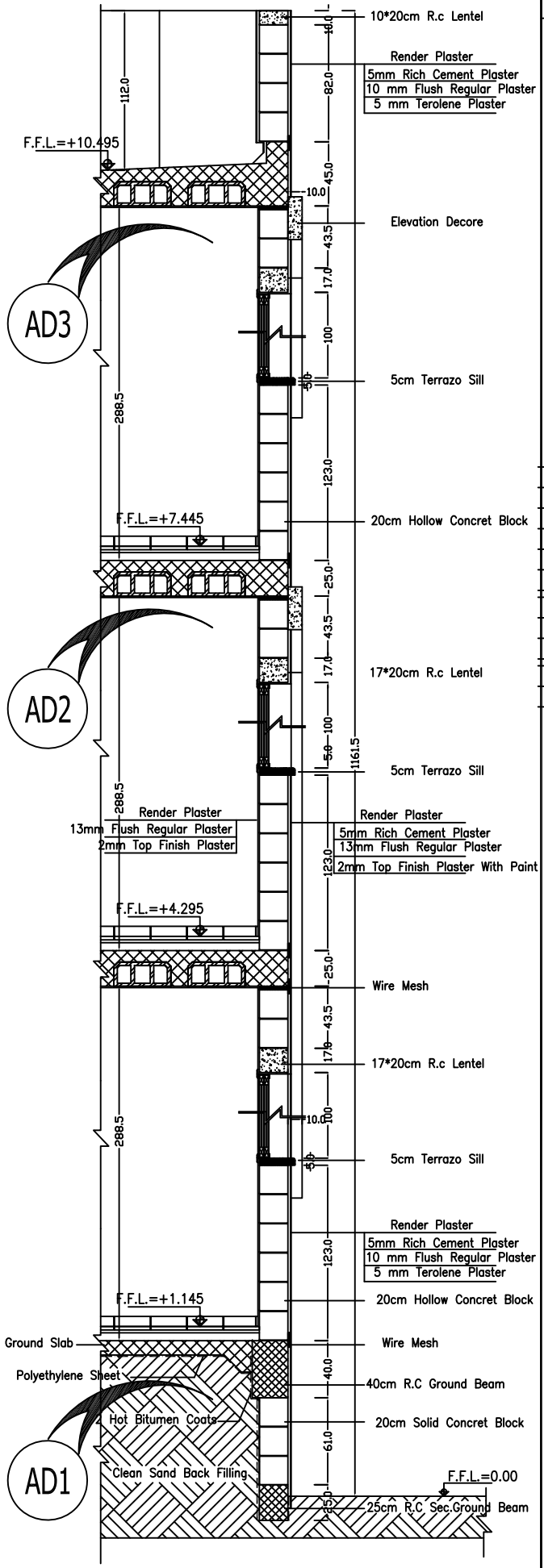
AD3



AD1



AD2



NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
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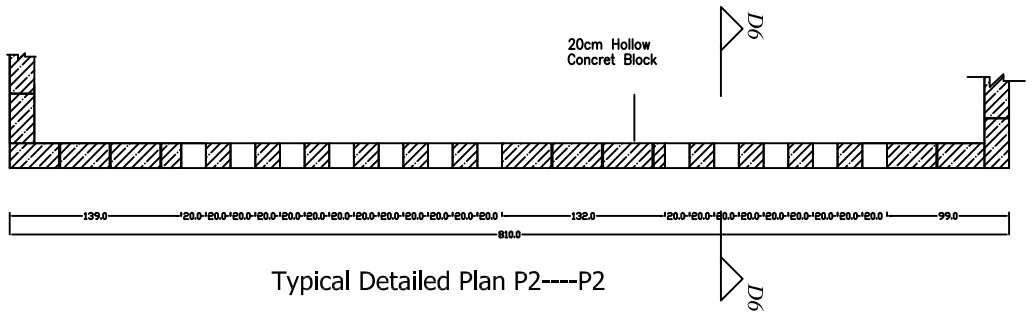
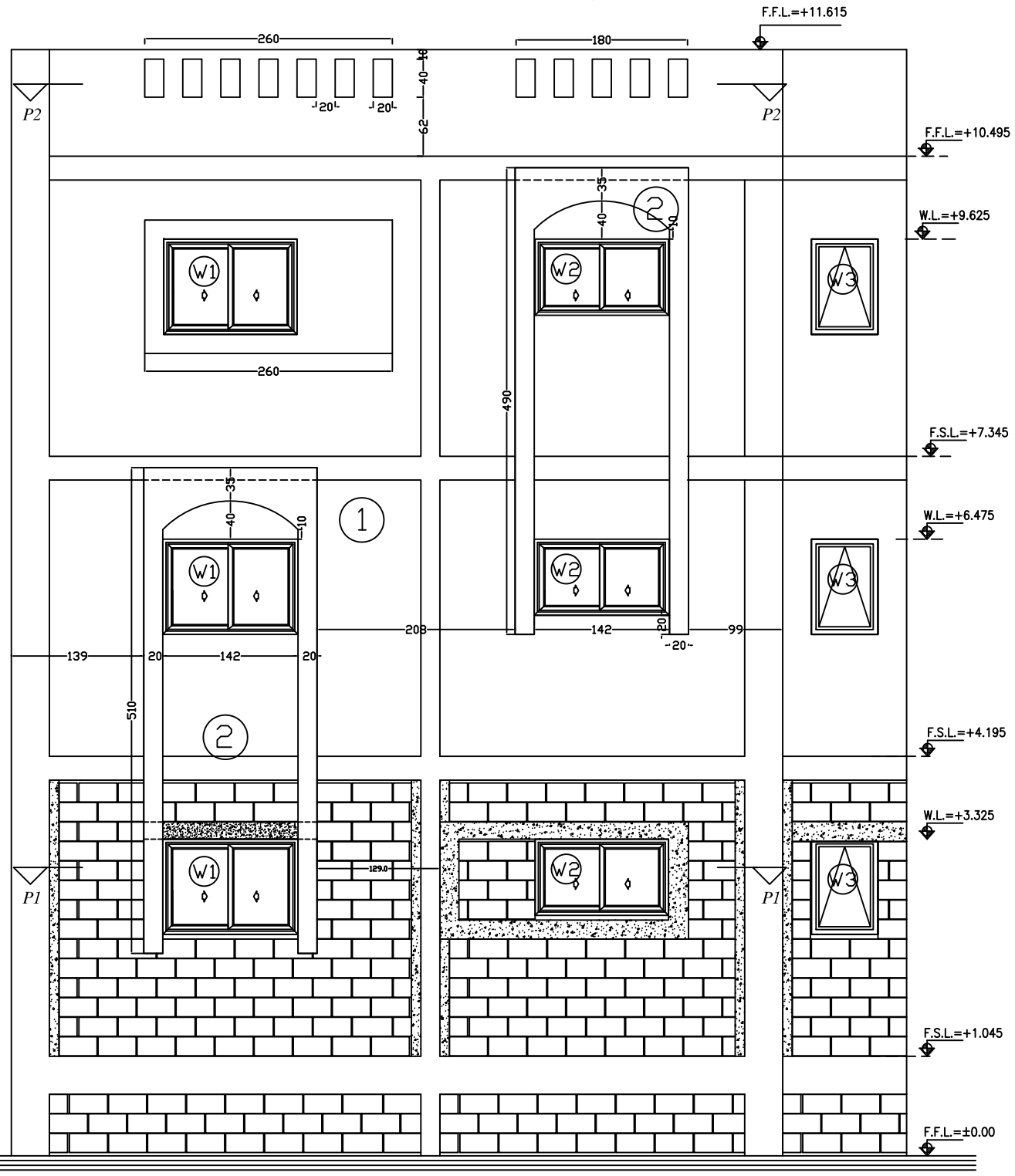
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Wall Details

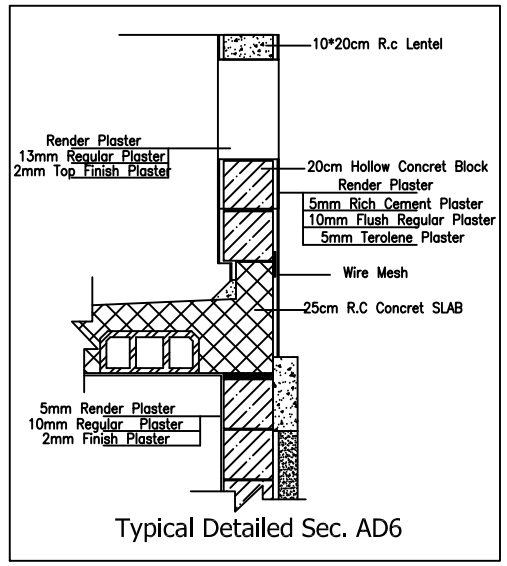
Symbol	Drawing No.:	Rev. No.
RES	AD01	R1



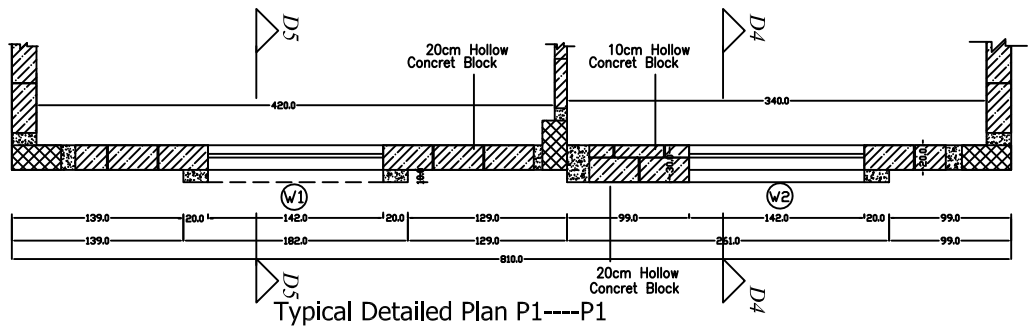
Typical Detailed Plan P2----P2



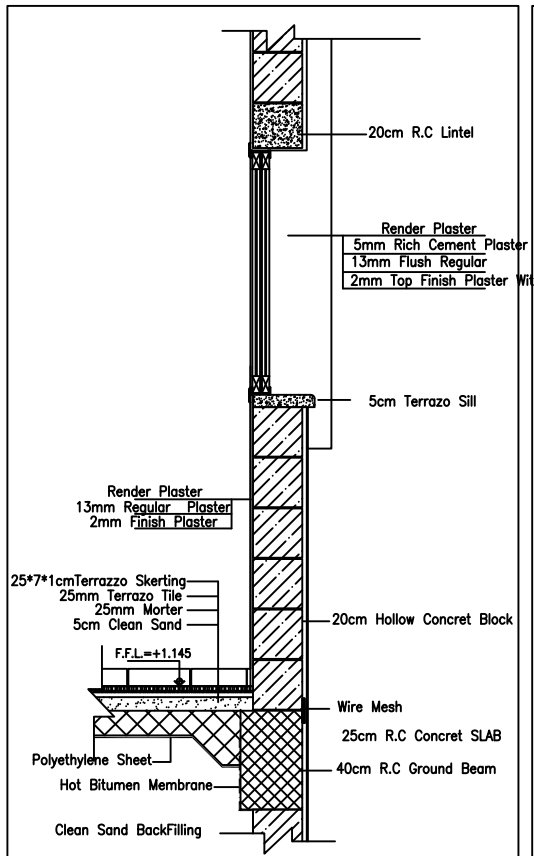
Typical Detailed Elevation



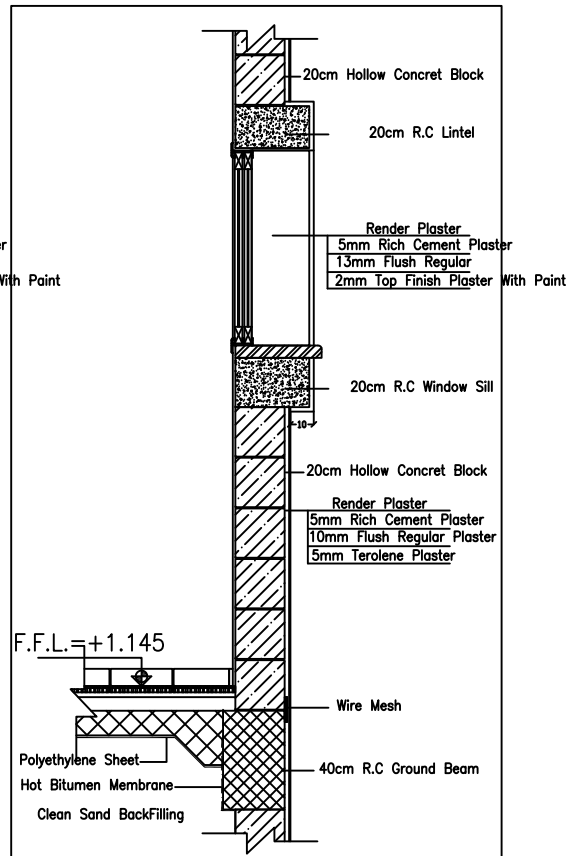
Typical Detailed Sec. AD6



Typical Detailed Plan P1----P1



Typical Detailed Sec. AD5



Typical Detailed Sec. AD4

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
3			
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Revisions

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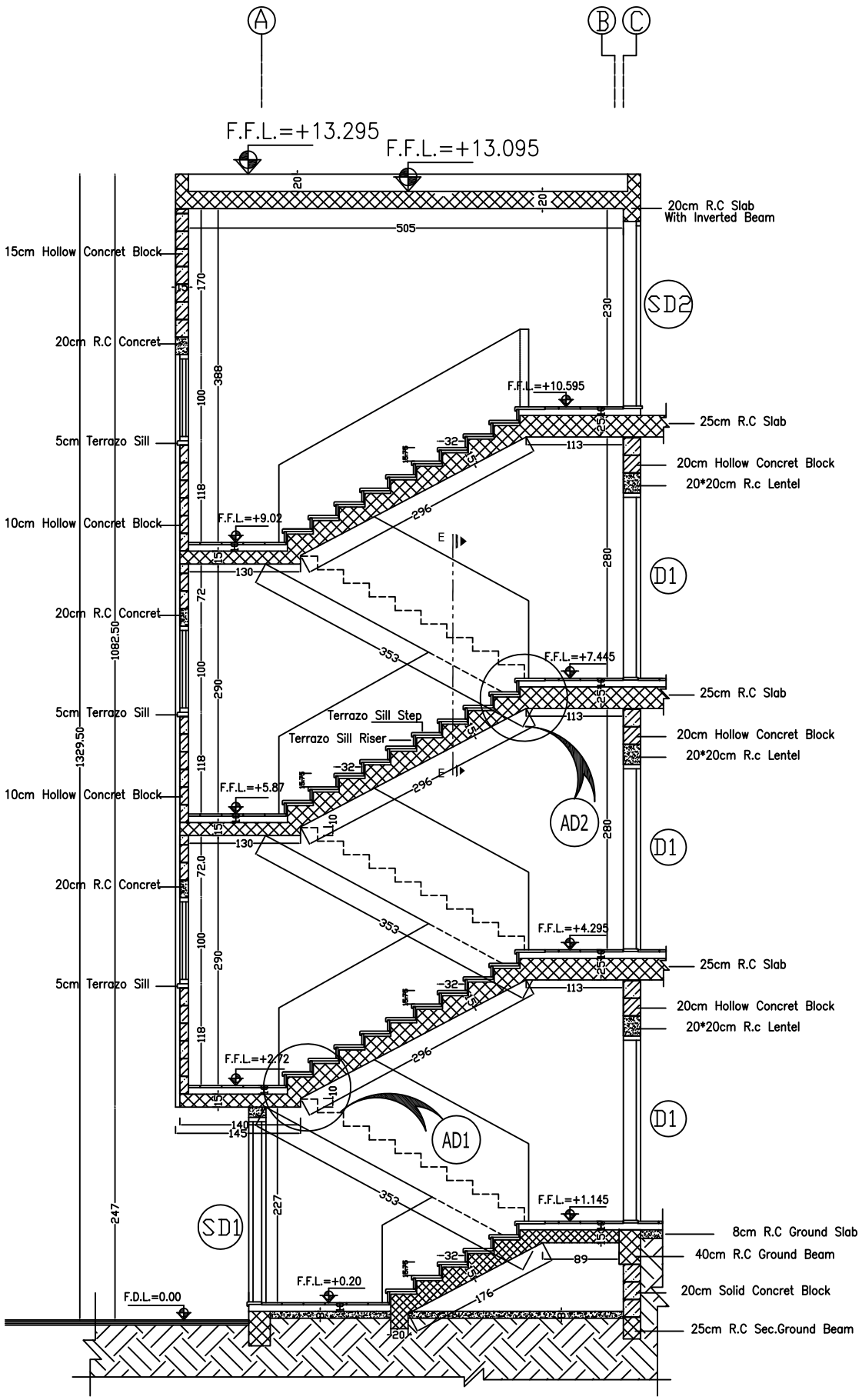
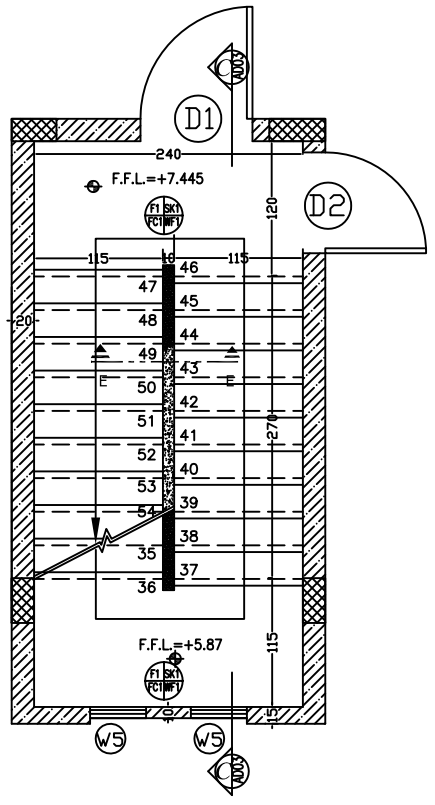
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Elevation Details

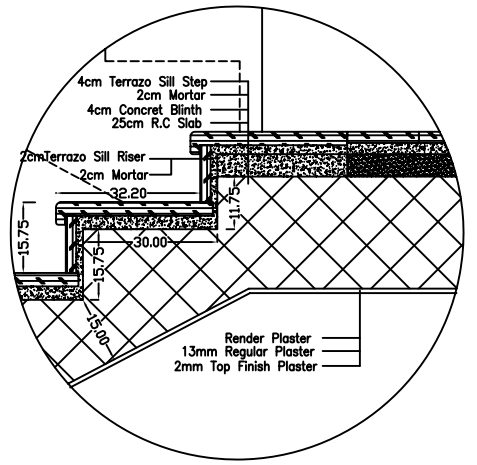
Symbol	Drawing No.:	Rev. No.
RES	AD02	R1



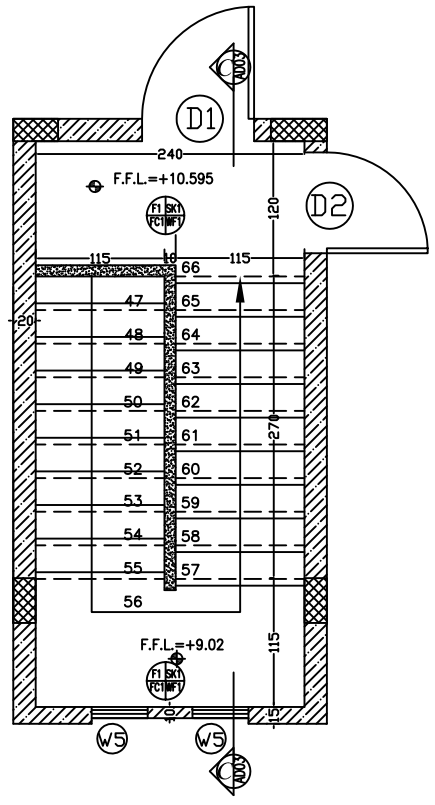
Section C-----C



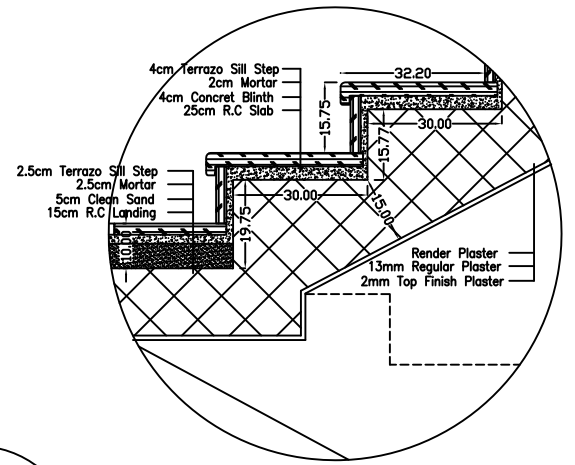
Second Floor Plan



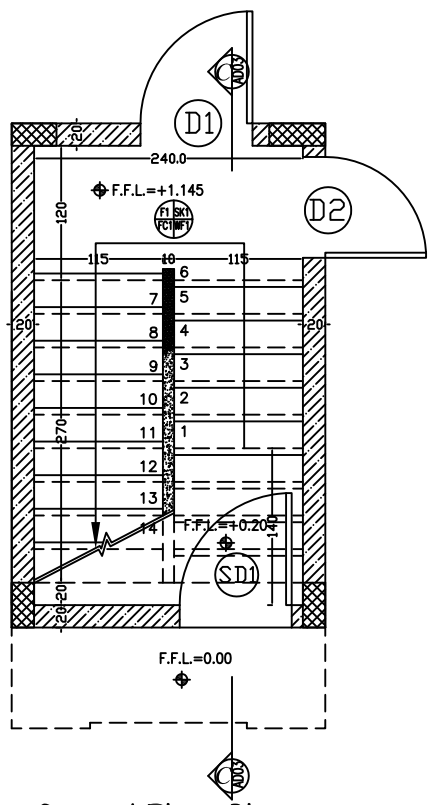
AD2



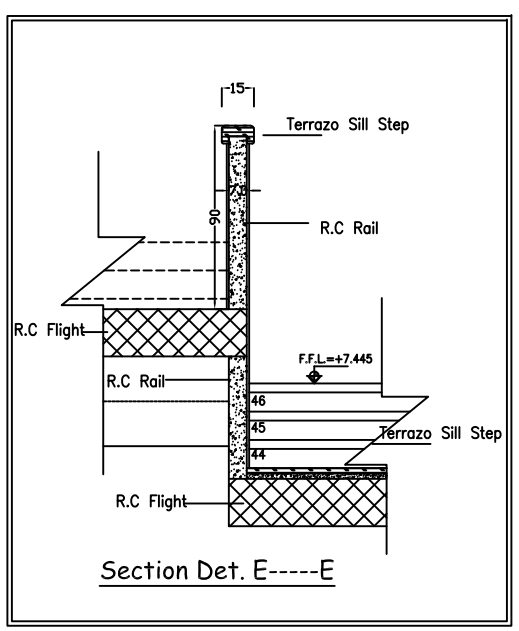
Roof Plan



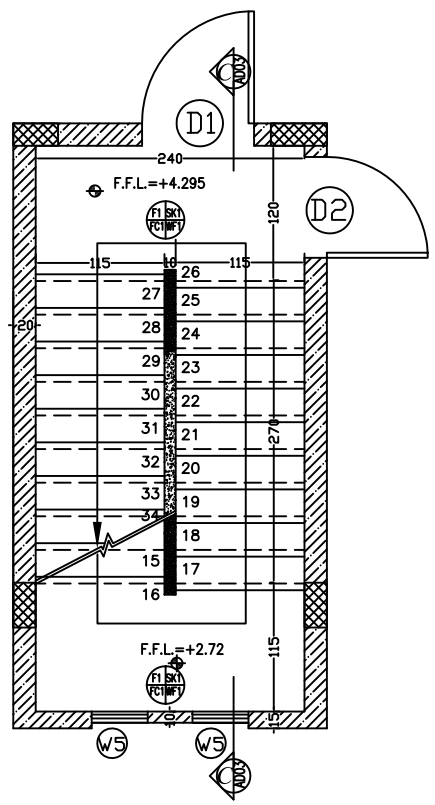
AD1



Ground Floor Plan



Section Det. E-----E



First Floor Plan

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
3			
2			
1			

Revisions

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Date	File Name	Scale

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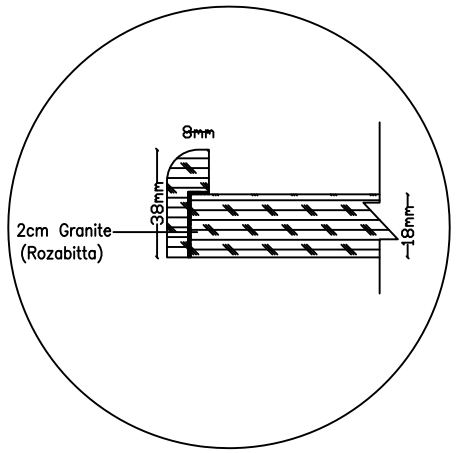
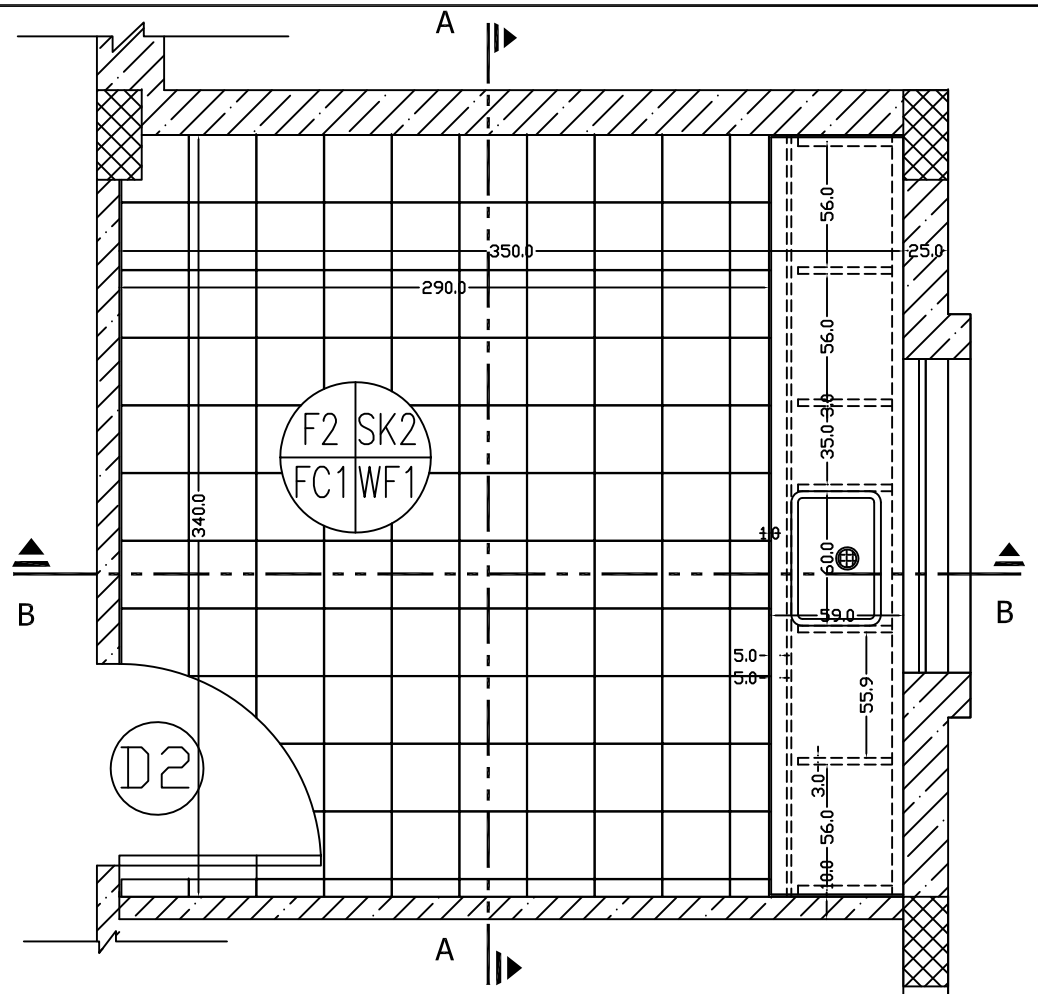
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

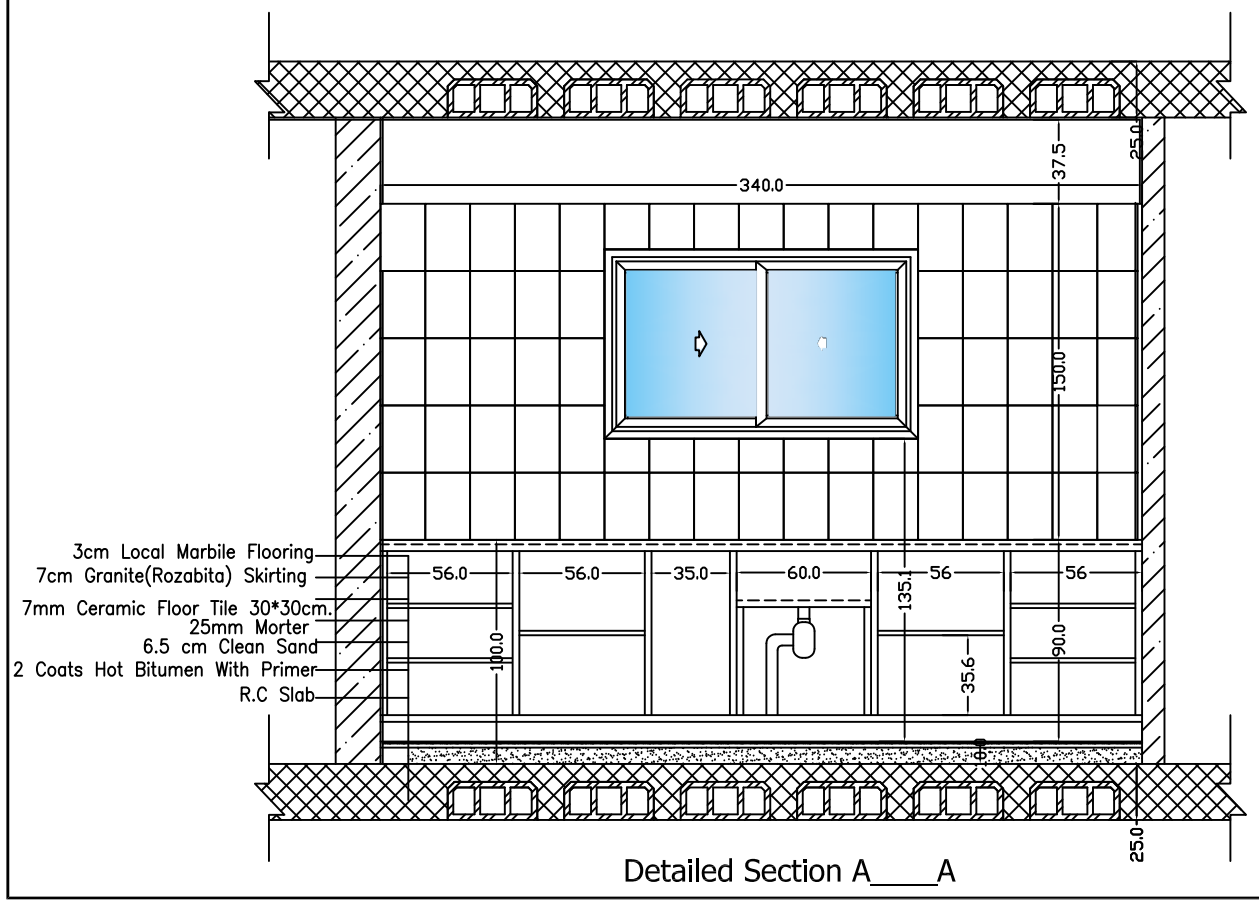
Stair Details

Symbol	Drawing No.:	Rev. No.
RES	*AD03*	R1

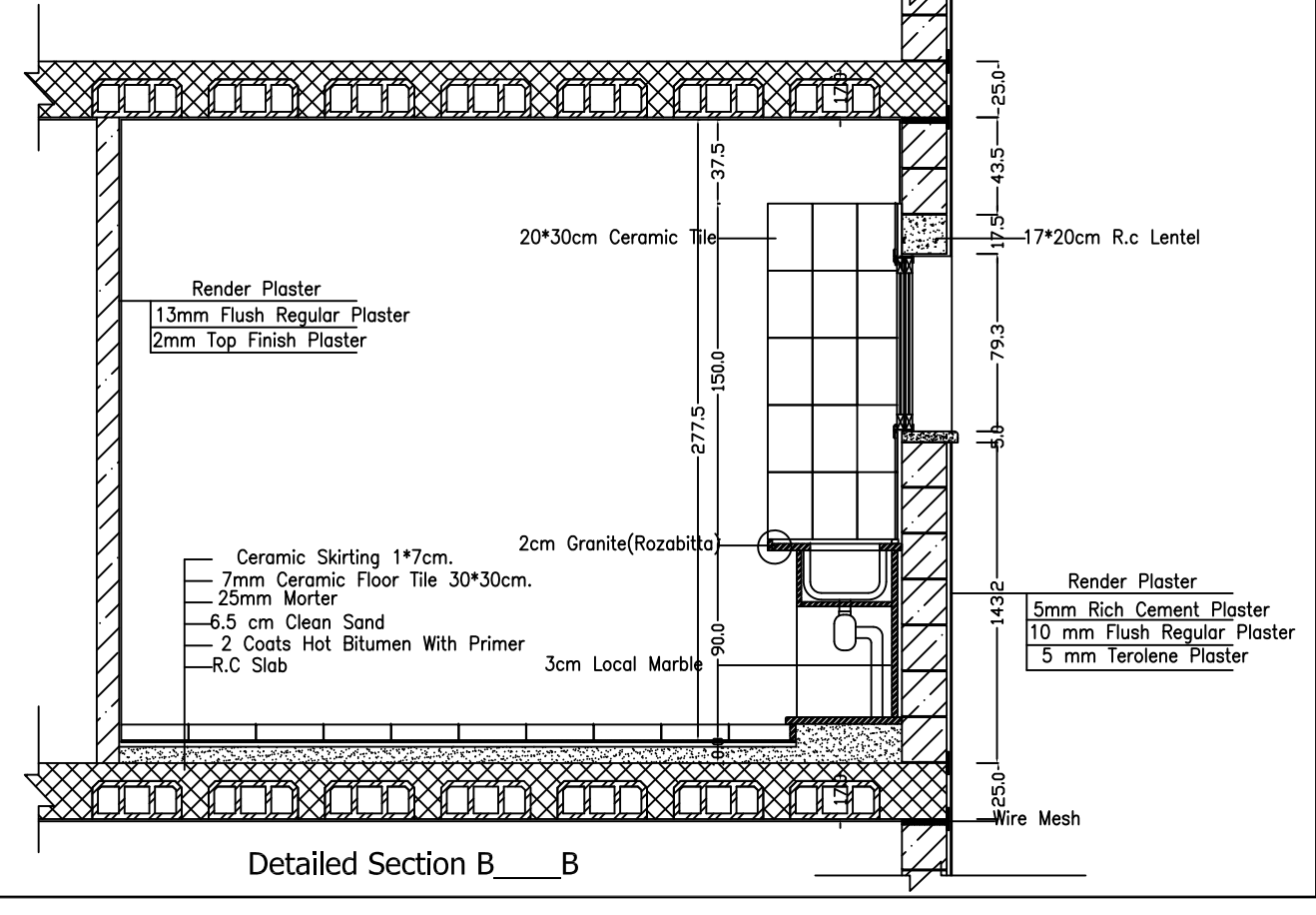




Typical Kitchen Plan



Detailed Section A____A



Detailed Section B____B

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

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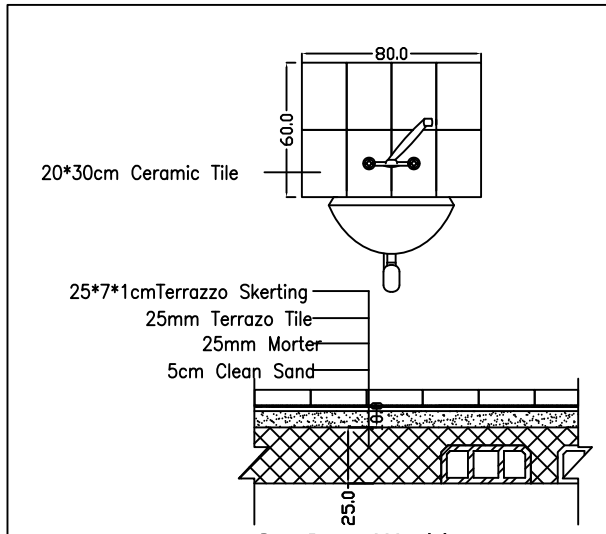
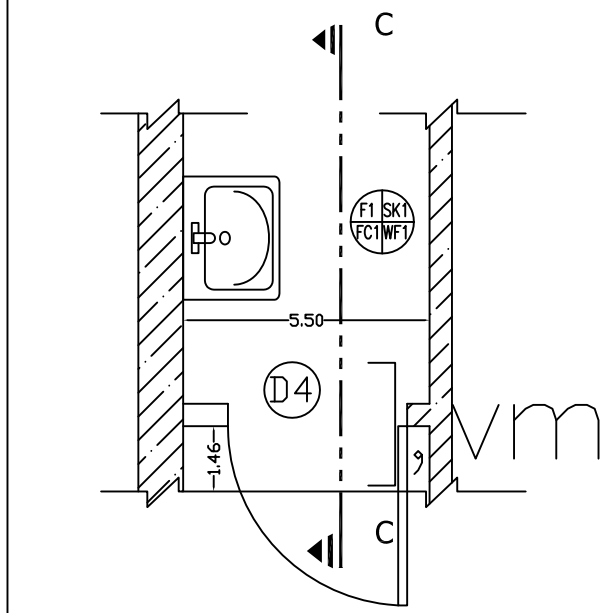
Kitchen Details

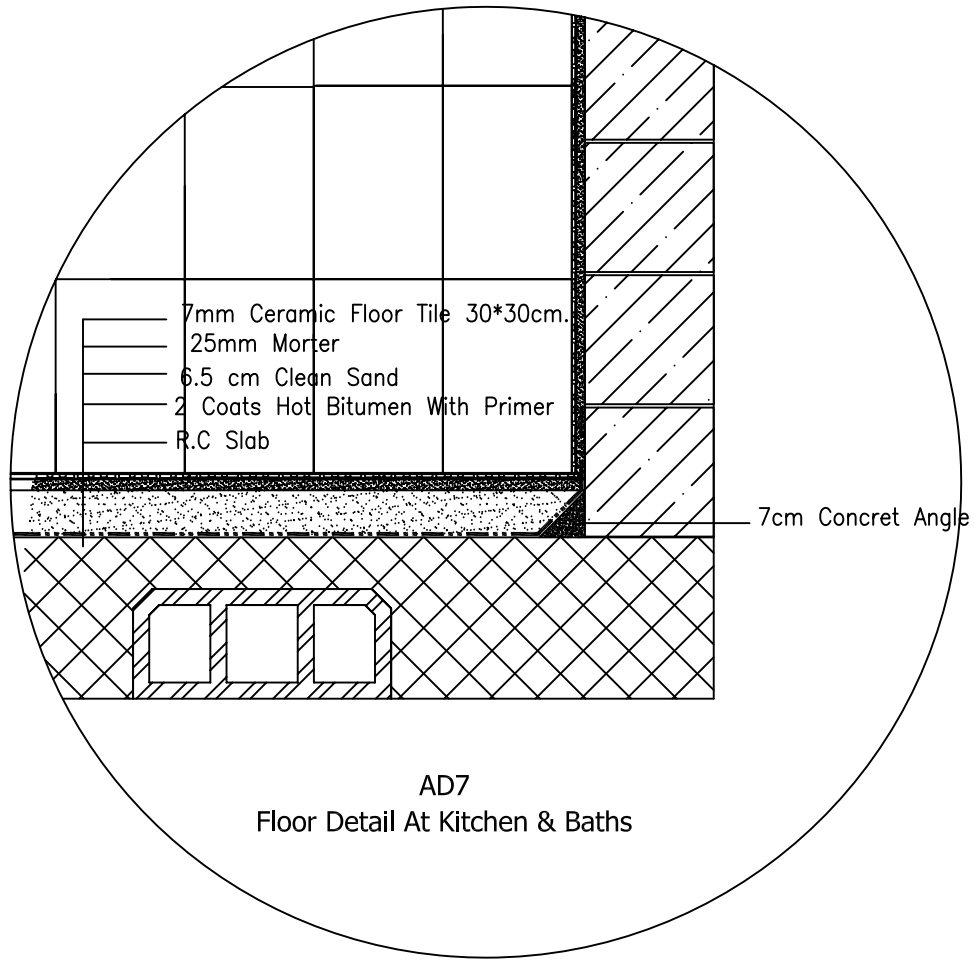
Symbol	Drawing No.:	Rev. No.
RES	*AD04*	R1



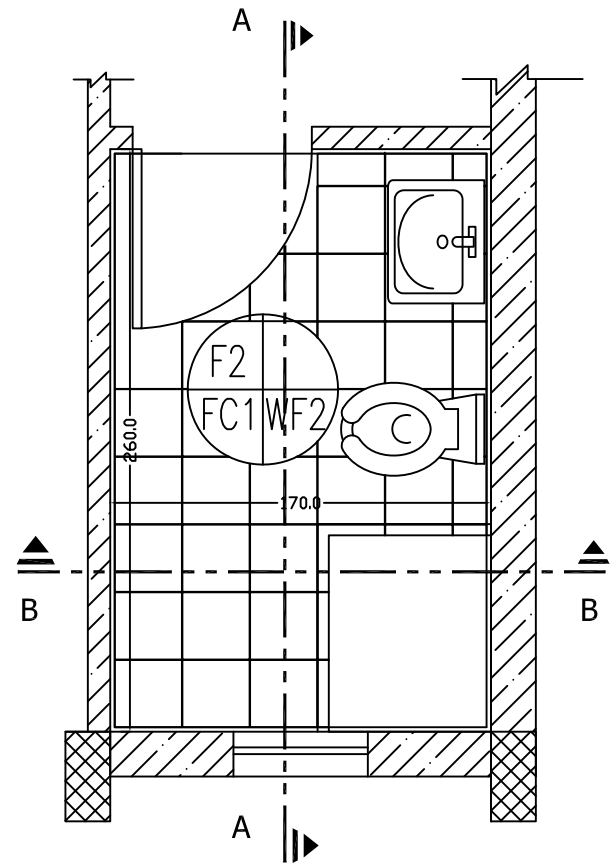
Out Door Washbasin
Sec. C___C



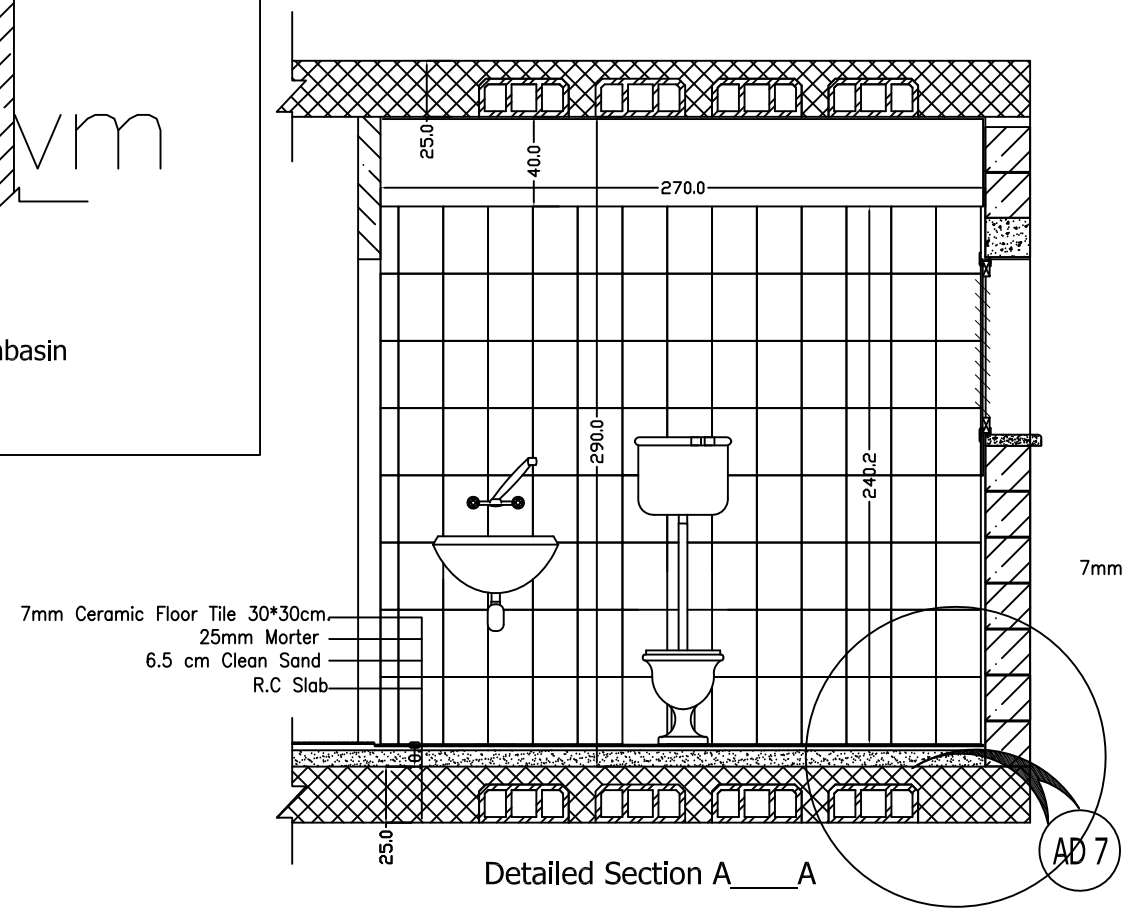
Out Door Washbasin
Plan



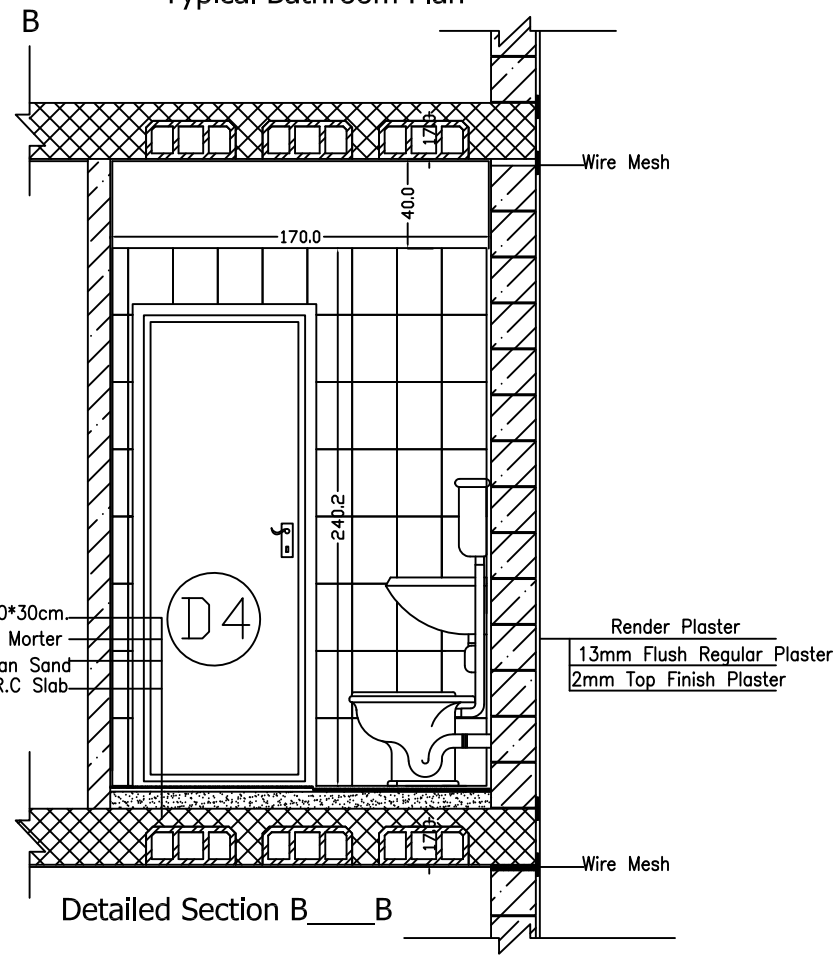
AD7
Floor Detail At Kitchen & Baths



Typical Bathroom Plan



Detailed Section A____A



Detailed Section B____B

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
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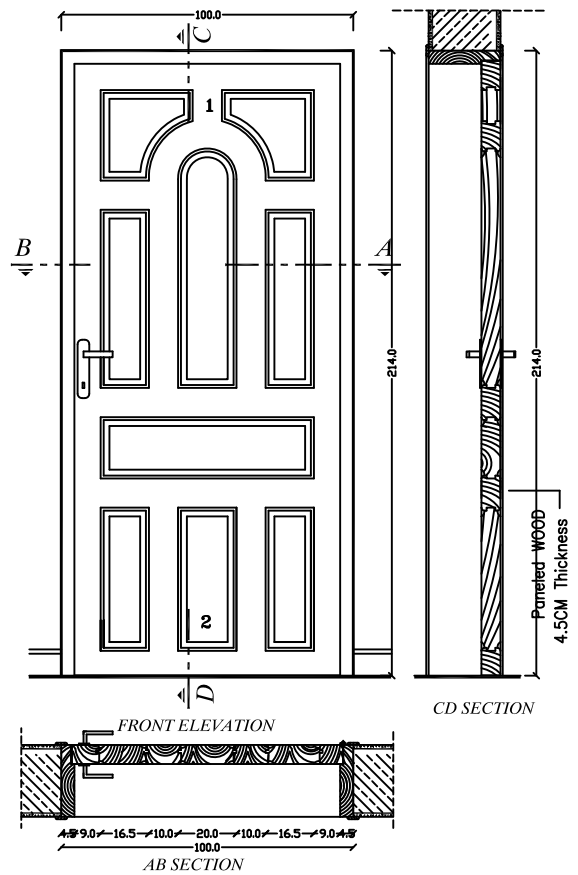
CONSTRUCTION OF 300 RESIDENTIAL UNITS
IN RAFAH

Bathroom Details

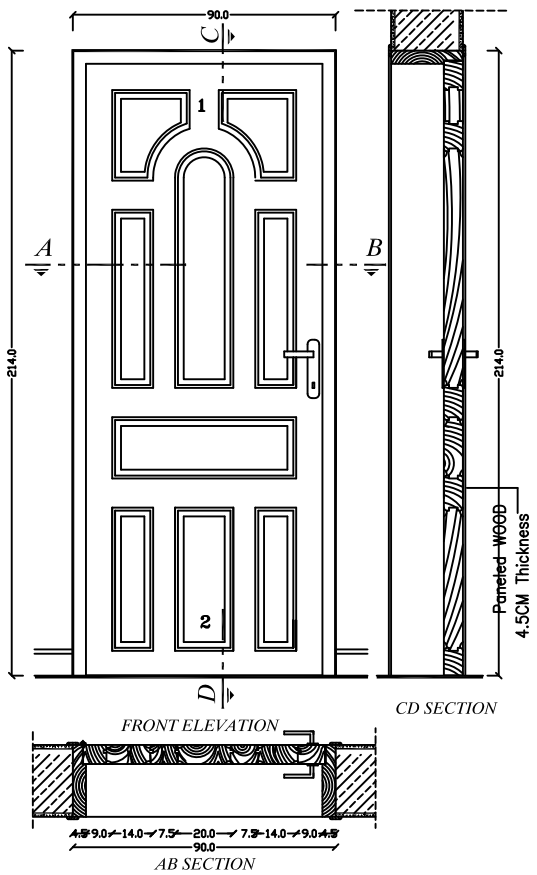
Symbol	Drawing No.:	Rev. No.
RES	AD05	R1

PANEL WOOD DOOR TYPE D1 DETAILS



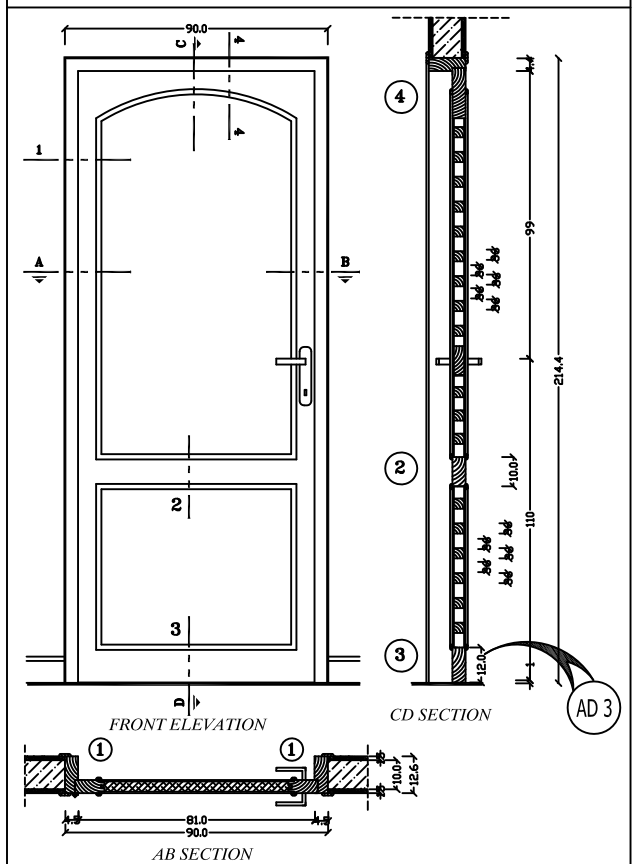
AD1 SCALE 1/10

PANEL WOOD DOOR TYPE D2 DETAILS



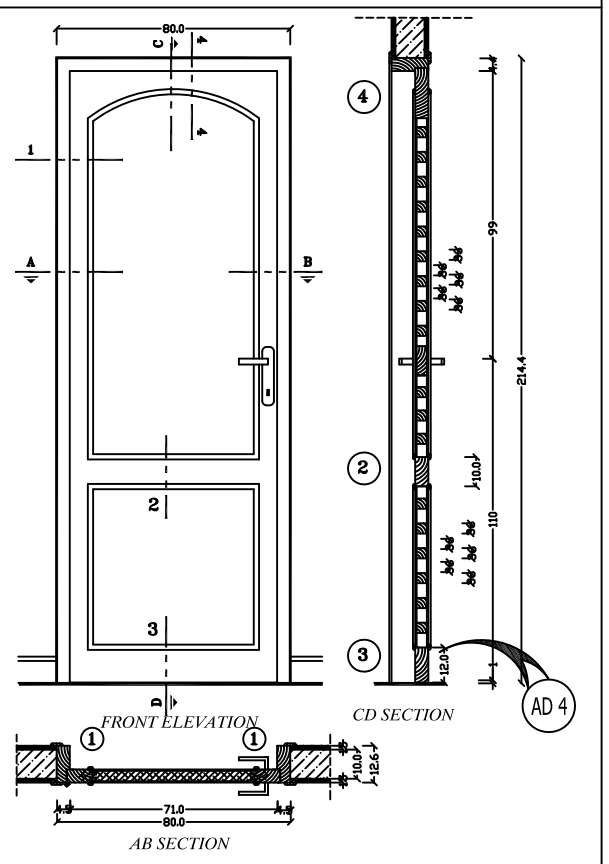
AD2 SCALE 1/10

FLUSH WOOD DOOR TYPE D3 DETAIL



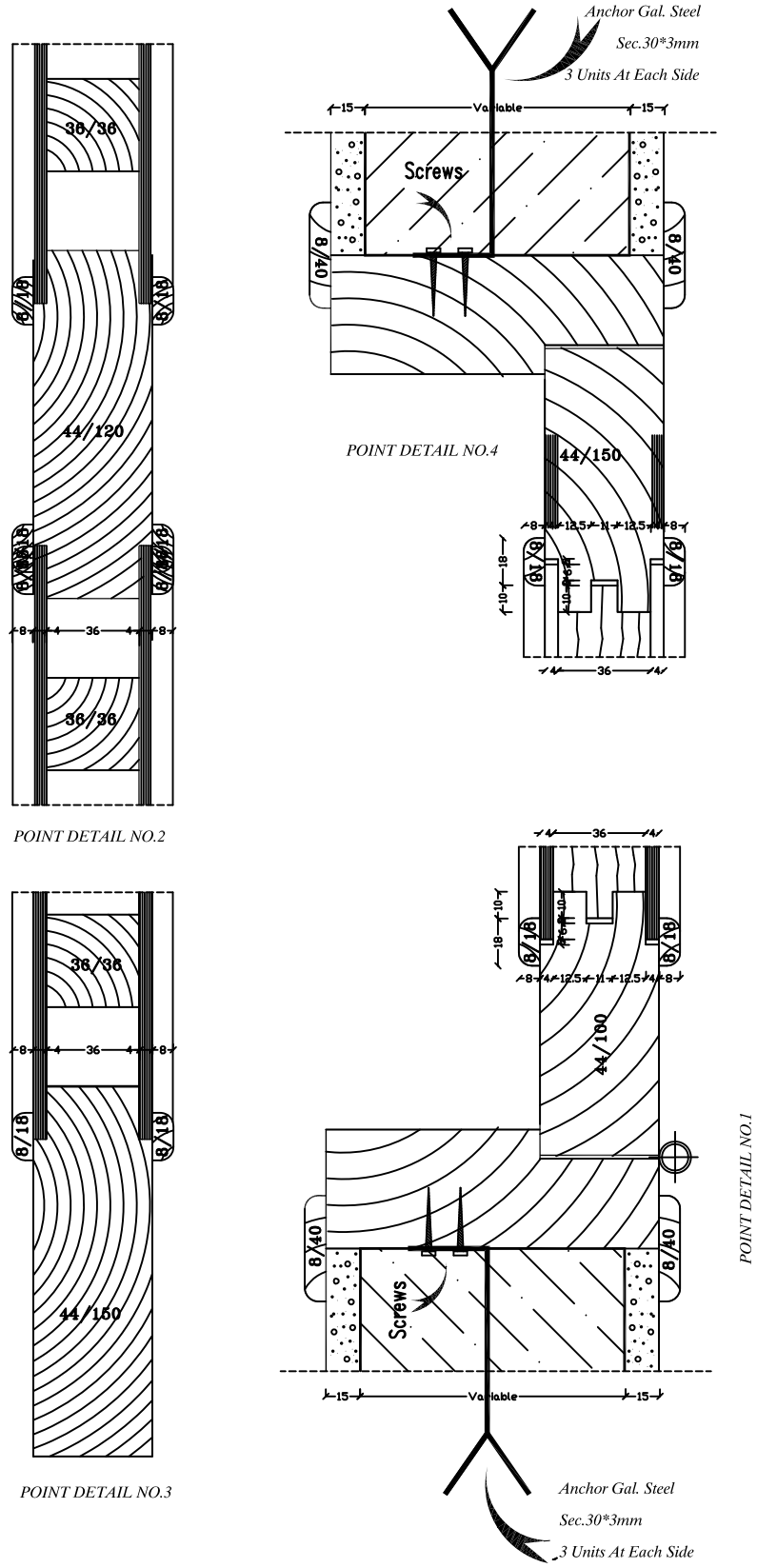
AD 3 SCALE 1/10

FLUSH WOOD DOOR TYPE D4 DETAIL



AD4 SCALE 1/10

FLUSH WOOD DOOR TYPE D3,TD4 DETAIL



AD 3,4 SCALE 1/2

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
*WF2–Ceramic Tile 20*30cm up to Door Level Plaster And (Polycede) Paint Up To Cieling Level.
*1–External Plastering With Terolene Finish.
*2–Ex.Plastering With Weather Shield Paint.

No.	Description	Date	By
4			
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Revisions

Designed	Drawn	Checked	Approved

Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

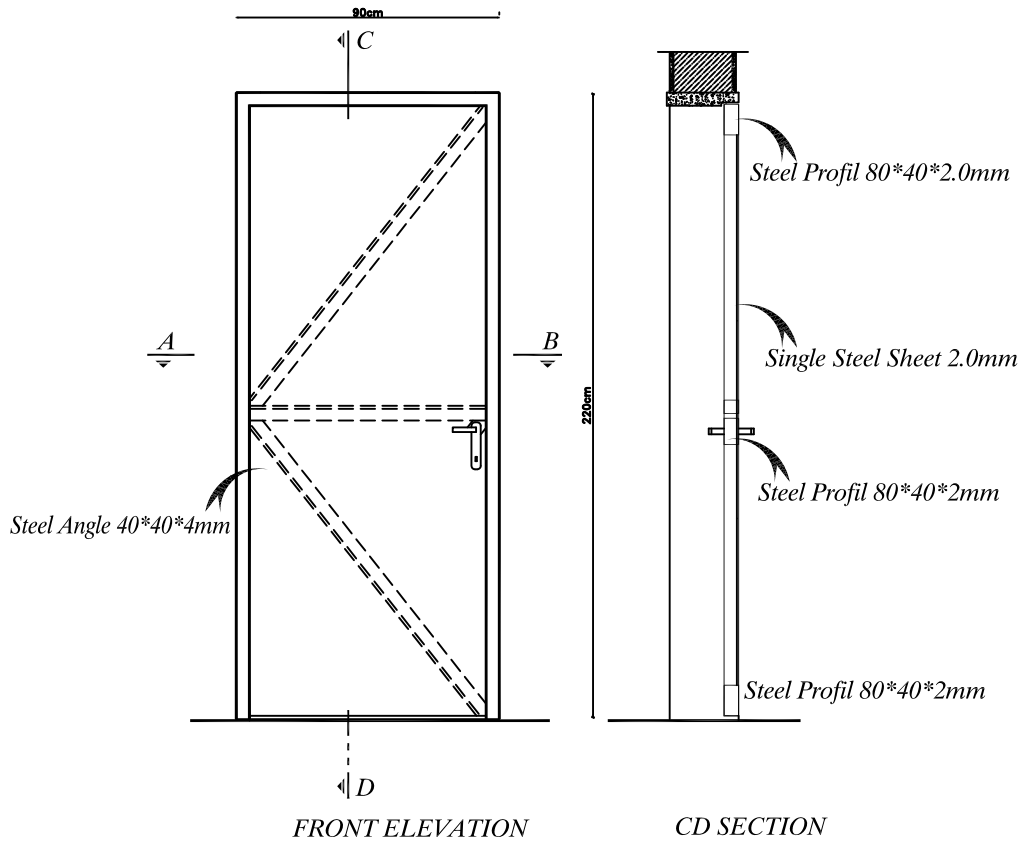
UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Wooden Doors Details

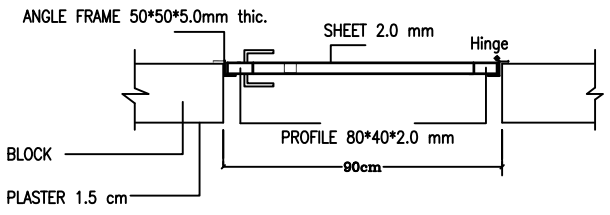
Symbol	Drawing No.:	Rev. No.
RES	AD06	R1

STEEL PLATE DOOR TYPE SD2 DETAIL



FRONT ELEVATION

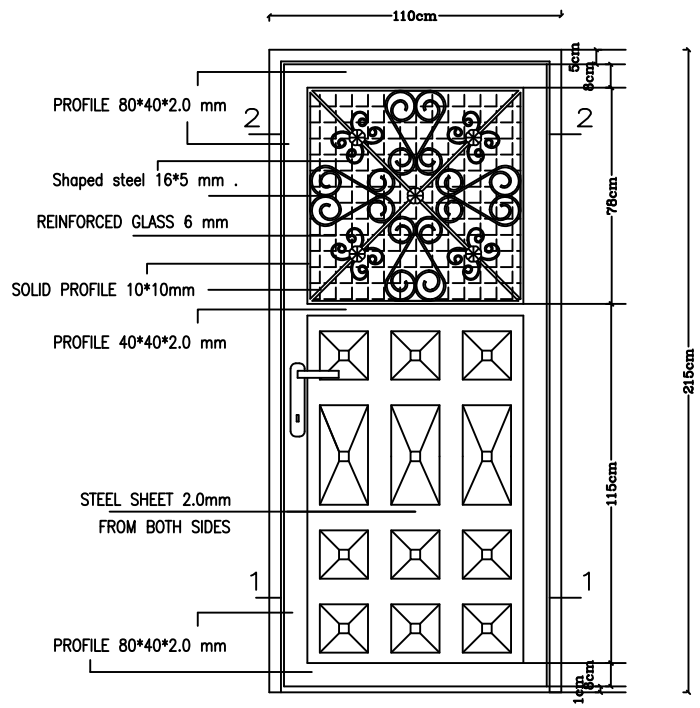
CD SECTION



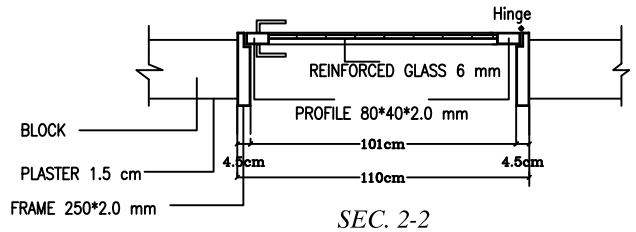
SEC. A-B

SD2

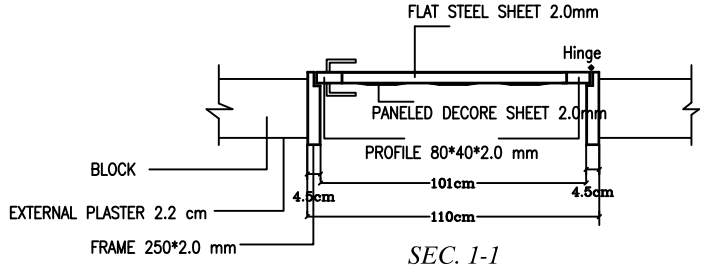
STEEL PLATE DOOR TYPE SD1 DETAIL



FRONT ELEVATION



SEC. 2-2



SEC. 1-1

SD1

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
*WF1–Plaster And (Polycede) Paint.
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*2–Ex.Plastering With Weather Shield Paint.

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4			
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

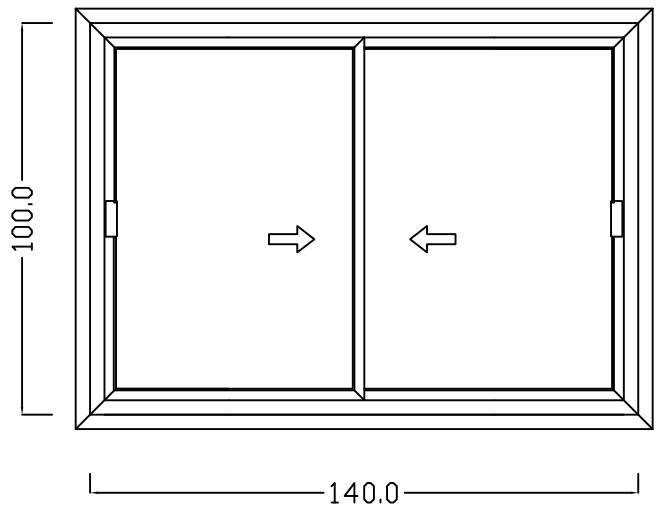
IMPLEMENTED BY:

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Steel Doors Details

Symbol	Drawing No.:	Rev. No.
RES	AD07	R1

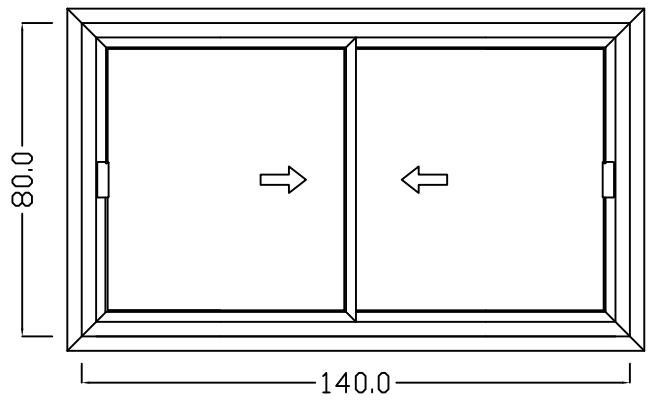
WINDOW TYPE : AW1



TYPE : ALUMINUM WINDOW

HANDLE : SLIDING

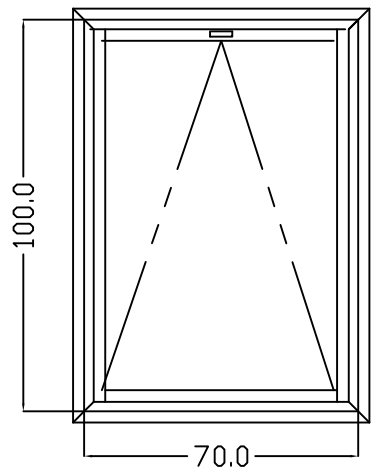
WINDOW TYPE : AW2



TYPE : ALUMINUM WINDOW

HANDLE : SLIDING

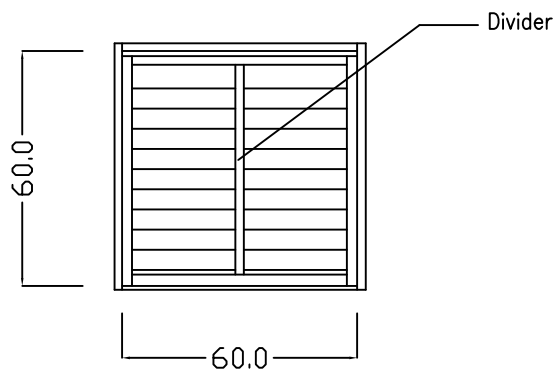
WINDOW TYPE : AW3



TYPE : ALUMINUM WINDOW

HANDLE : HINGED

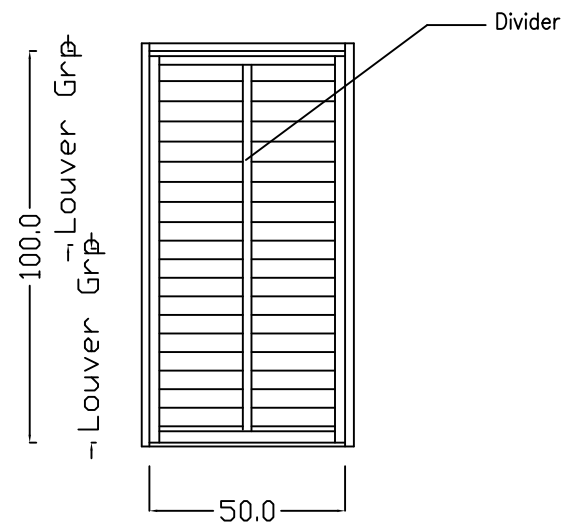
WINDOW TYPE : AW4



TYPE : ALUMINUM WINDOW

HANDLE : LOUVER

WINDOW TYPE : AW5



TYPE : ALUMINUM WINDOW

HANDLE : LOUVER

NOTES:

*F1–Terrazzo Tile 25*25*2.5cm flooring.
*F2–Non Slip Ceramic Floor Tile 30*30cm.
*SK1–Terrazzo Skirting 1*7cm.
*SK2–Non Slip Ceramic Skirting 1*7cm.
*FC1–Plaster And (Polycede) Paint.
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Date	File Name	Scale

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

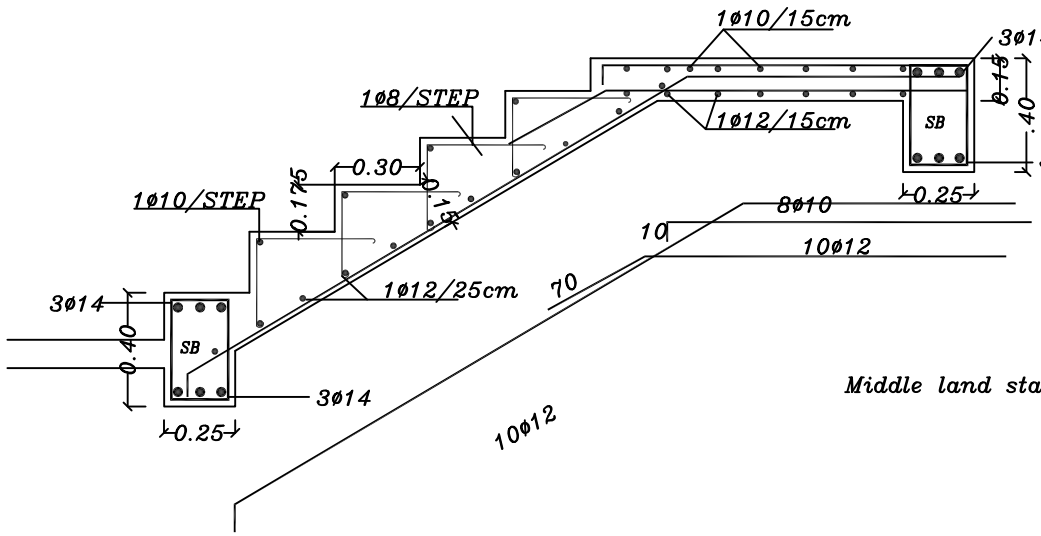
IMPLEMENTED BY:

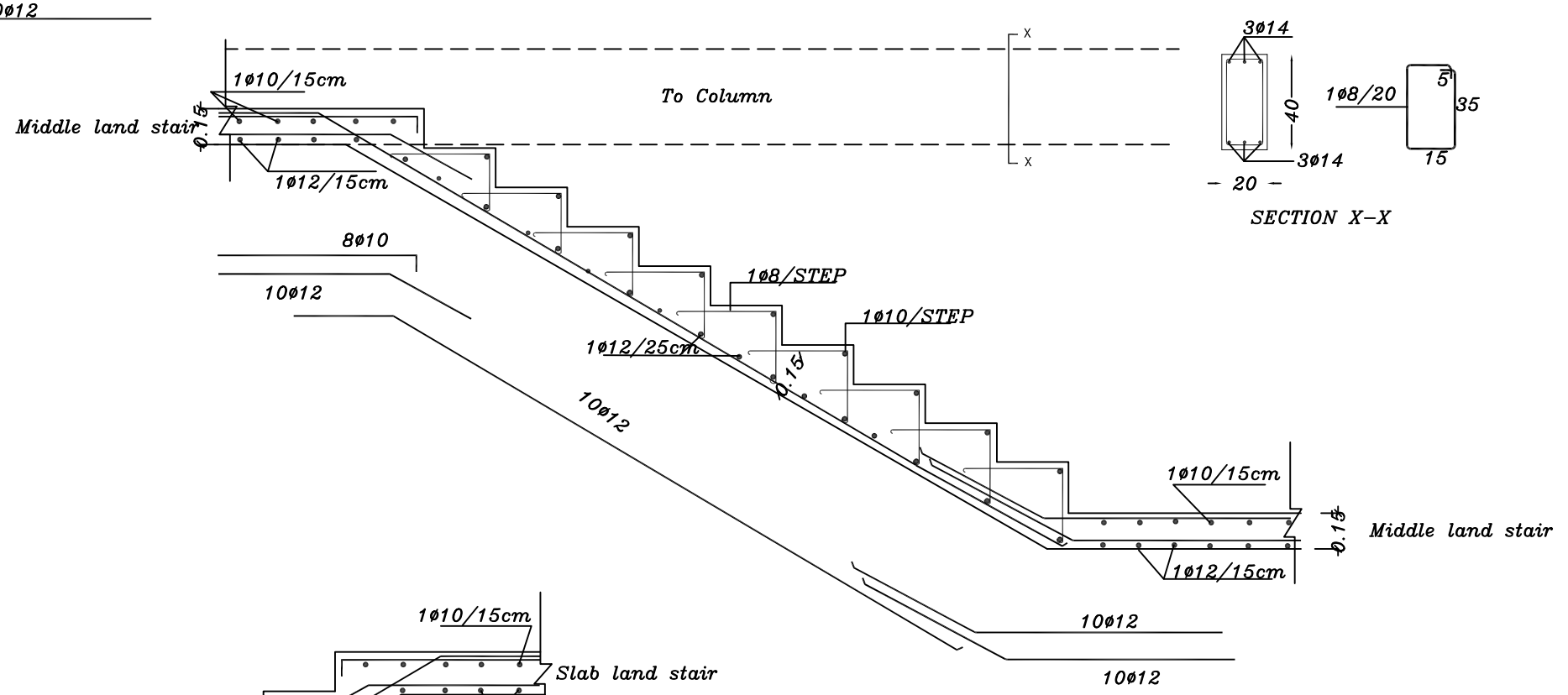
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

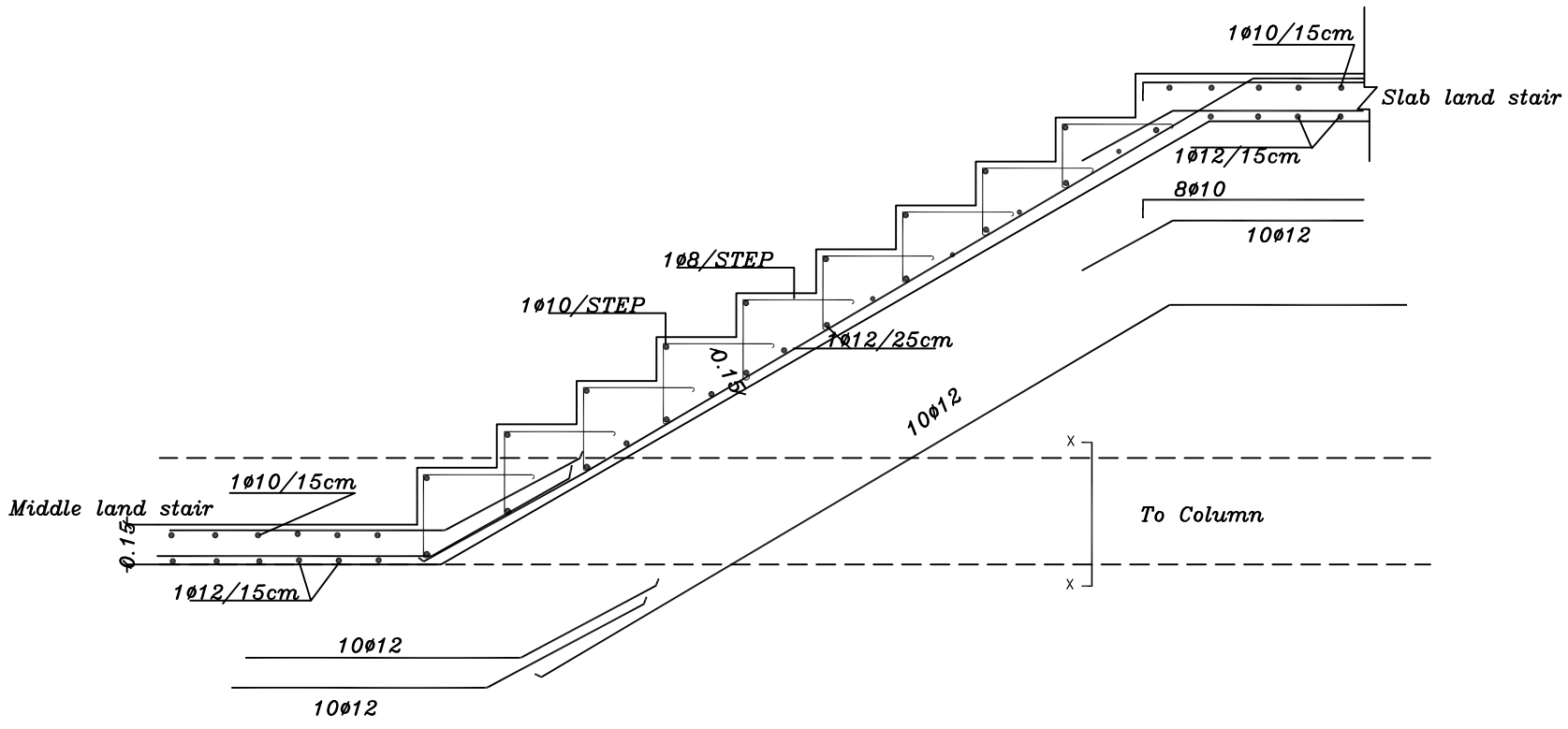
Window Details

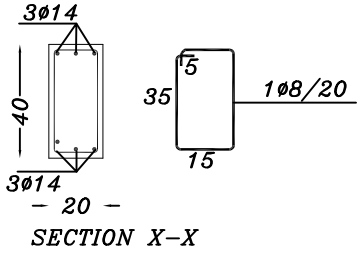
Symbol	Drawing No.:	Rev. No.
RES	AD08	R1

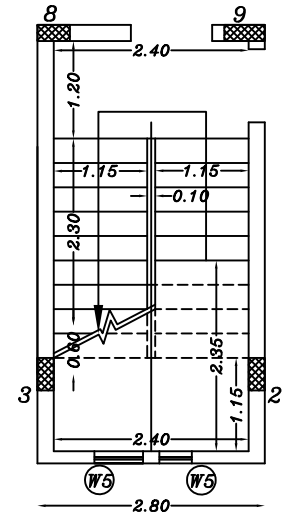
GENERAL CIVIL DETAILS











NOTES

- The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
- The foundations level is not less than 1.5 m below the natural ground level .
- The used concrete :
  B300 for columns
  B250 for other members
- The used reinforcement steel is according to to the following notation :
  (Y) deformed high strength steel (fy=4200kg/cm)
  (R) mild steel (fy=2500kg/cm²)
- The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams

* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date By
4		
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

DONATED BY:

SAUDI COMMITTEE FOR PALESTINIAN RELEIF

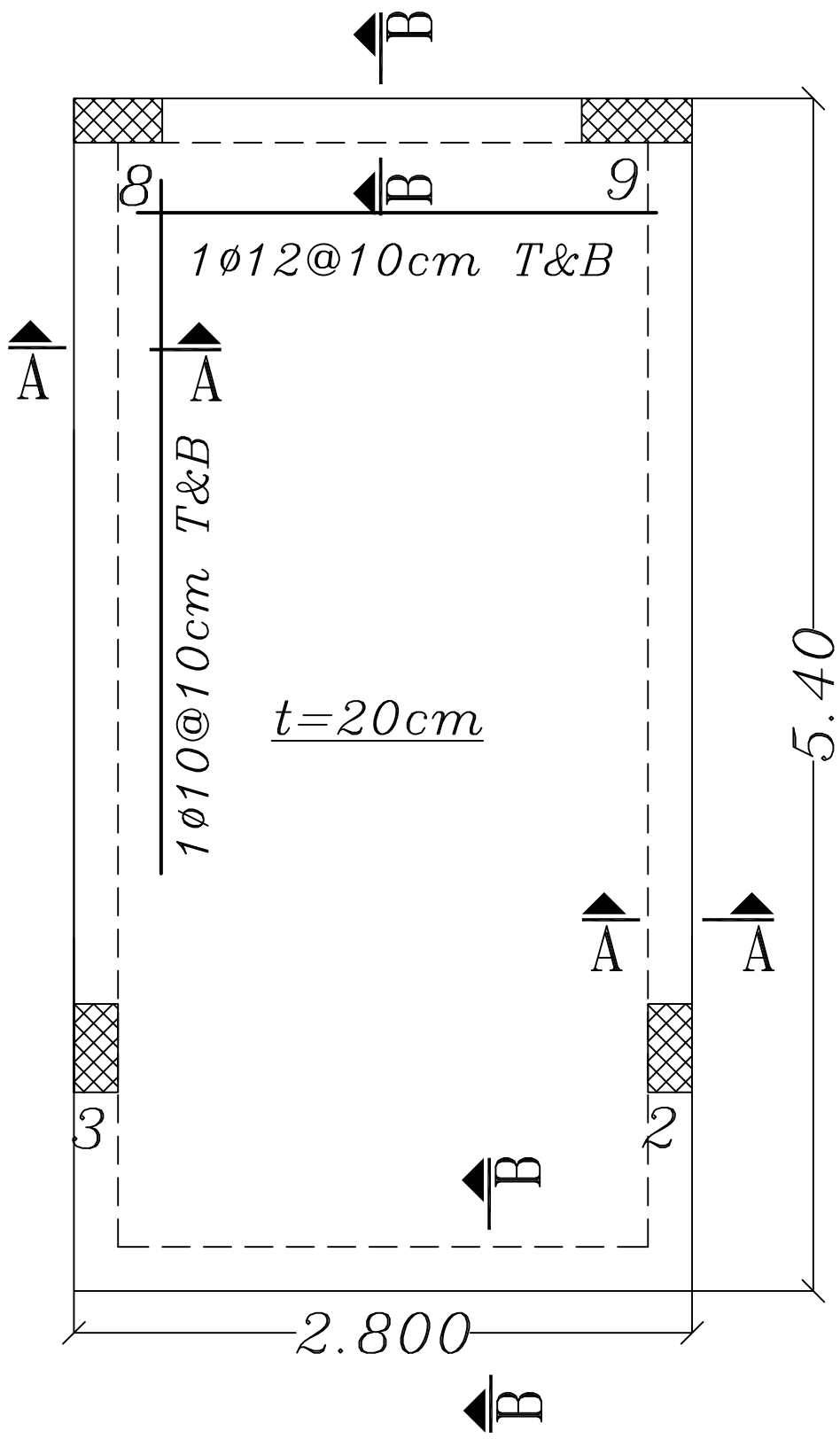
IMPLEMENTED BY:

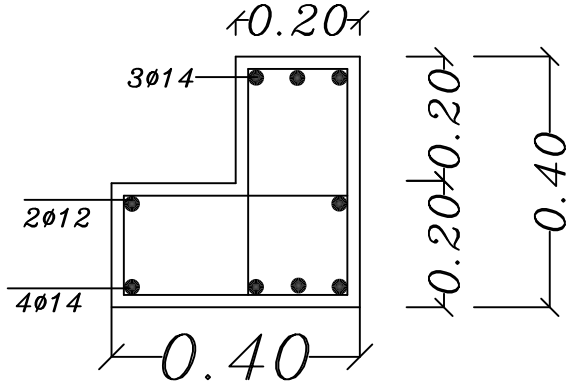
UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

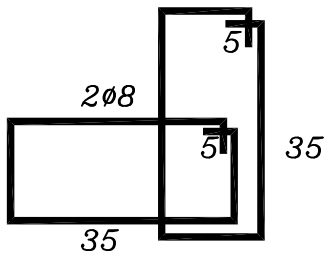
Stair Details

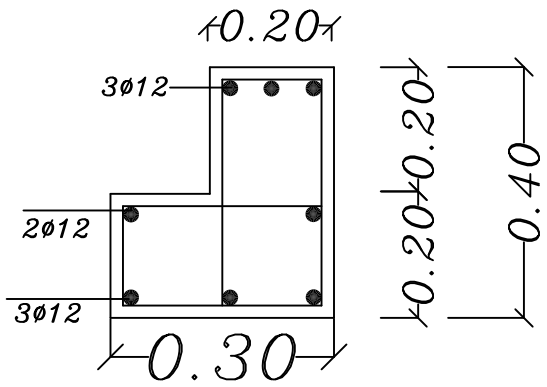
Symbol	Drawing No.	Rev. No.
RES	CD 01	R1



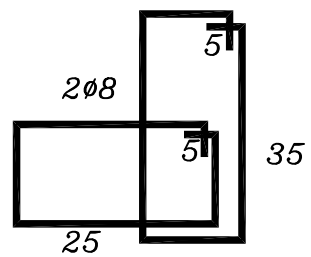


SECTION A–A





SECTION B–B



NOTES

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* The foundations level is not less than 1.5 m below the natural ground level .
* The used concrete :
  B300 for columns
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  (R)mild steel (fy=2500kg/cm²)
* The concrete cover :
  5cm in footings
  4 cm in columns' necks
  3.5 cm in ground beams
  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

No.	Description	Date	By
4			
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Revisions

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Date	File Name	Scale

PALESTINIAN NATIONAL AUTHORITY

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

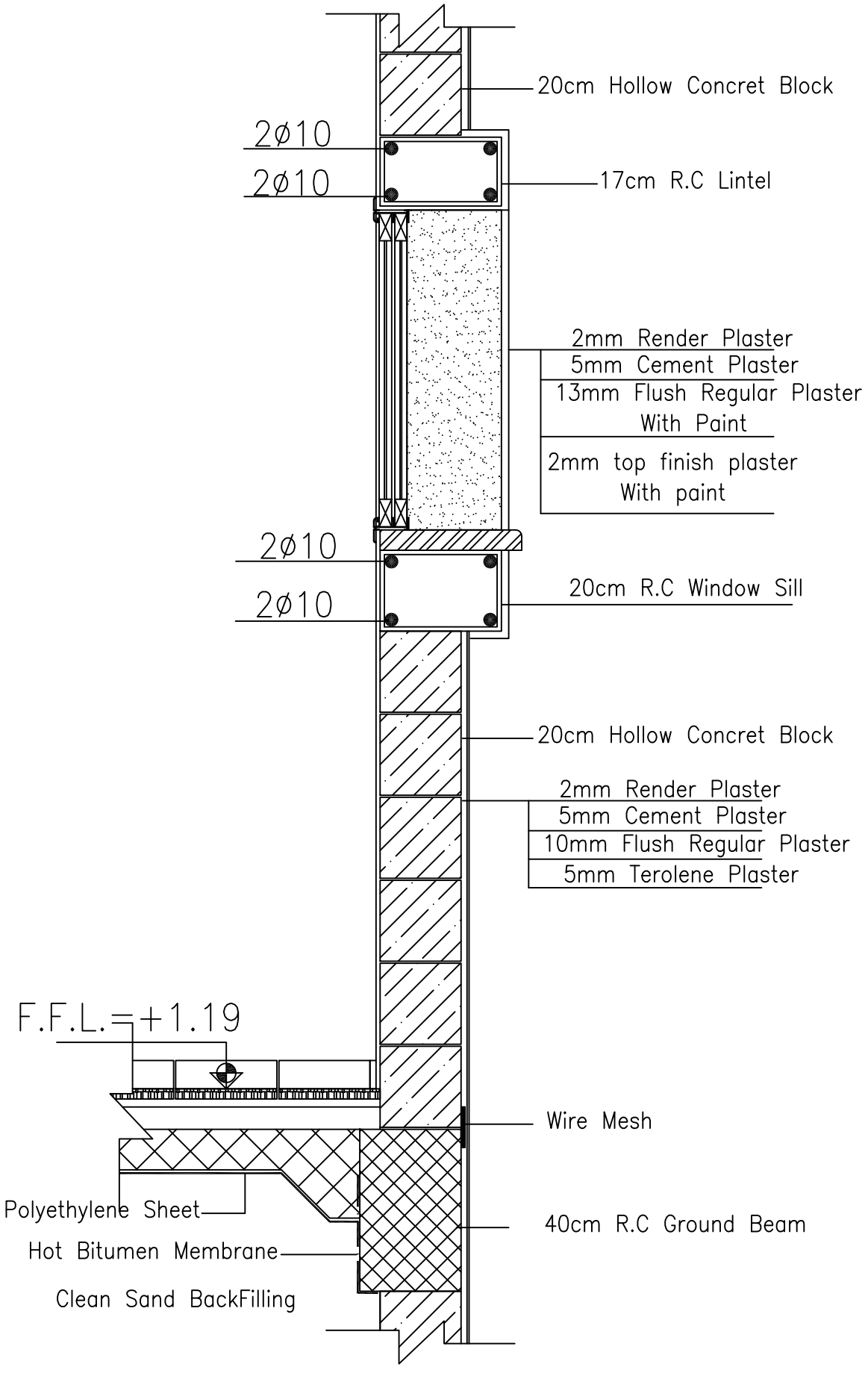
IMPLEMENTED BY:

UNDP

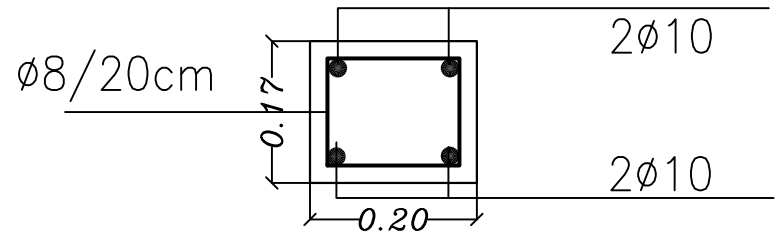
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Stair Slab Reinforcement

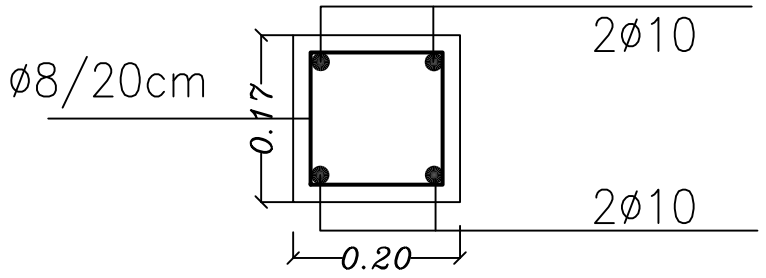
Symbol	Drawing No.	Rev. No.
RES	CD 02	R1



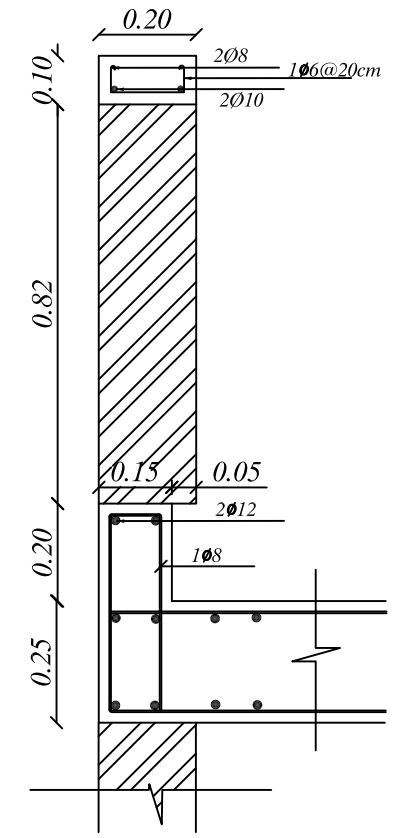
Typical Detailed Sec. AD4



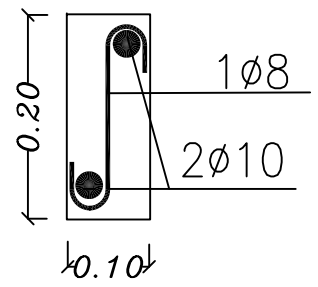
R.C Window lintel



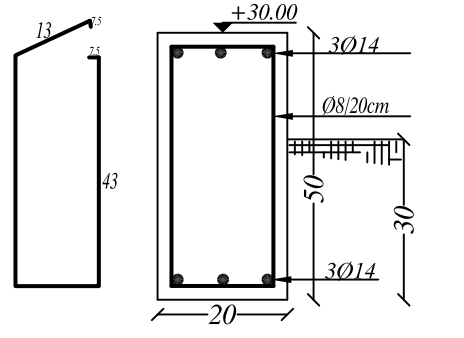
R.C Window Sill



TYPICAL SECTION FOR ROOF PARAPET



LINTEL 10X20CM FOR BLOCK 40X20X10



CROSS SECTION OF GROUND BEAMS
FOR EXTERNAL BOUNDARY WALLS

NOTES

* The foundations are designed for an allowable bearing capacity equal to(1.5 kg/cm) ,and for 3 Stories including ground floor .
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* The used reinforcement steel is according to to the following notation :
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  5cm in footings
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  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

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4			
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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

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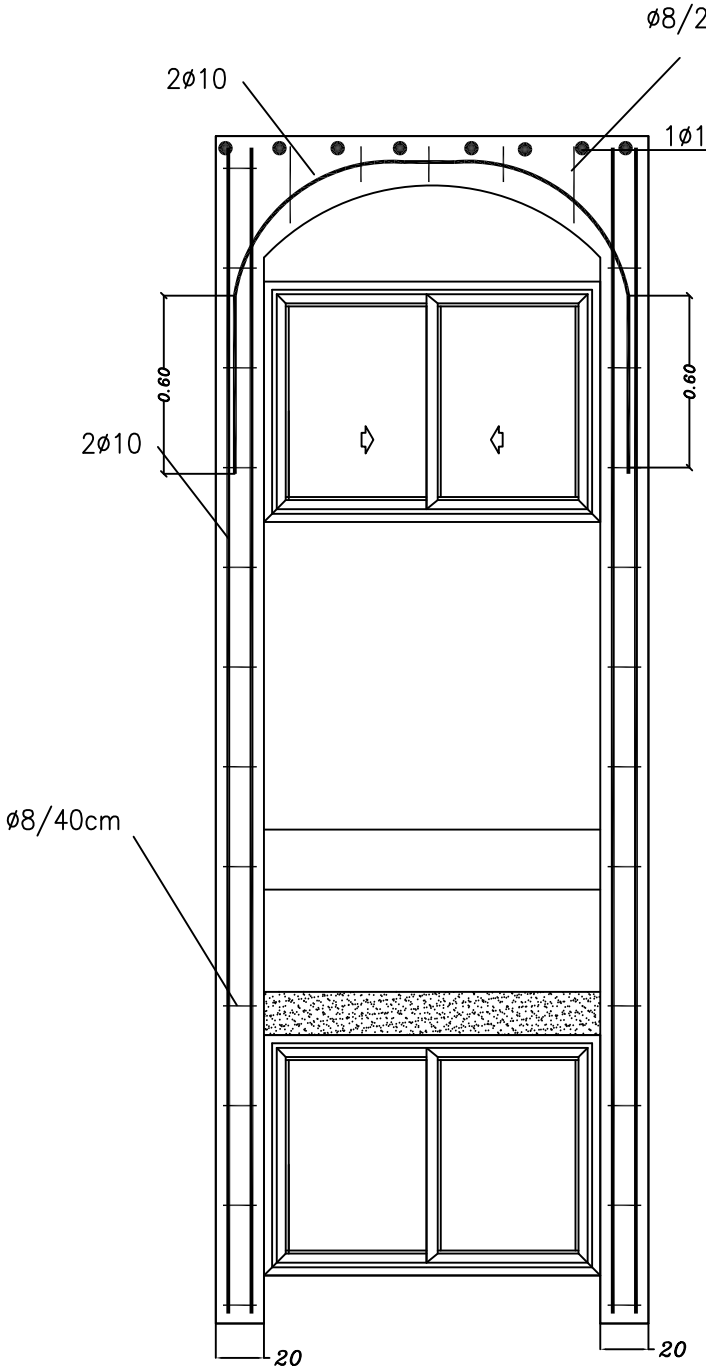
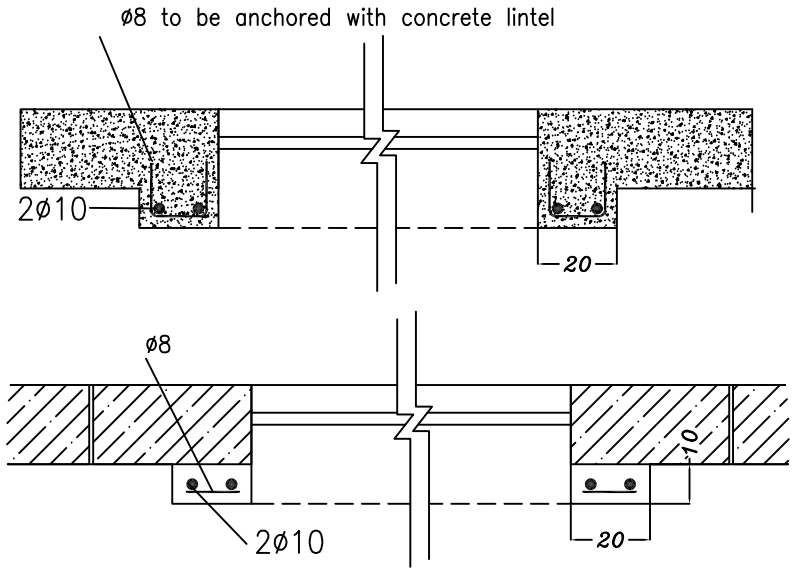
PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

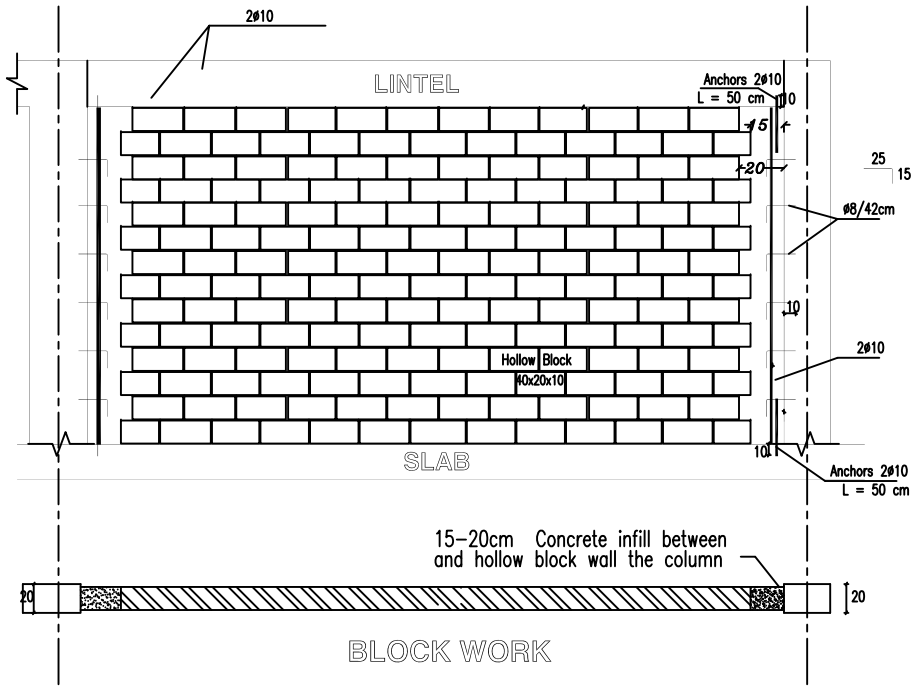
Lintels & Sills Reinforcement

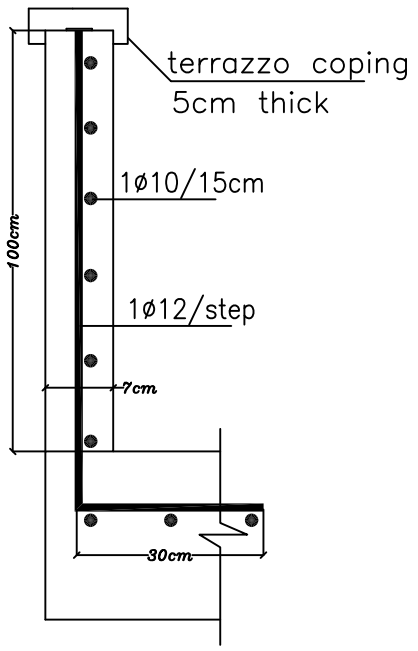
Symbol	Drawing No.	Rev. No.
RES	CD 03	R1



Typical Detailed Elevation







NOTES

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  3cm in columns
  2.5cm in slabs & beams
* Stirrups at all Beams will be arranged each 10cm for 1/4 length of span for two edge & each 20cm for mid of span

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SAUDI COMMITTEE FOR PALESTINIAN RELEIF

IMPLEMENTED BY:

UNDP

PROJECT:-
CONSTRUCTION OF 300 RESIDENTIAL UNITS IN RAFAH

Elevation & Decoration Dtails

Symbol	Drawing No.	Rev. No.
RES	CD 04	R1