

LIST OF DRAWINGS

A-000	List Of Drawings (LOD)
A-001	General Site Plan
A-002	Existing Basement Floor Plan
A-003	New Basement Floor Plan
A-004	Existing Ground Floor Plan
A-005	New Ground Floor Plan
A-006	Existing First Floor Plan
A-007	New First Floor Plan
A-008	Existing Second Floor Plan
A-009	New Second Floor Plan
A-010	Existing Third Floor Plan
A-011	New Third Floor Plan
A-012	Existing Roof Floor Plan
A-013	New Roof Floor Plan
A-014	Main Elevation
A-015	Toilets Details 1/2
A-016	Toilets Details 2/2



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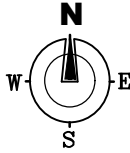
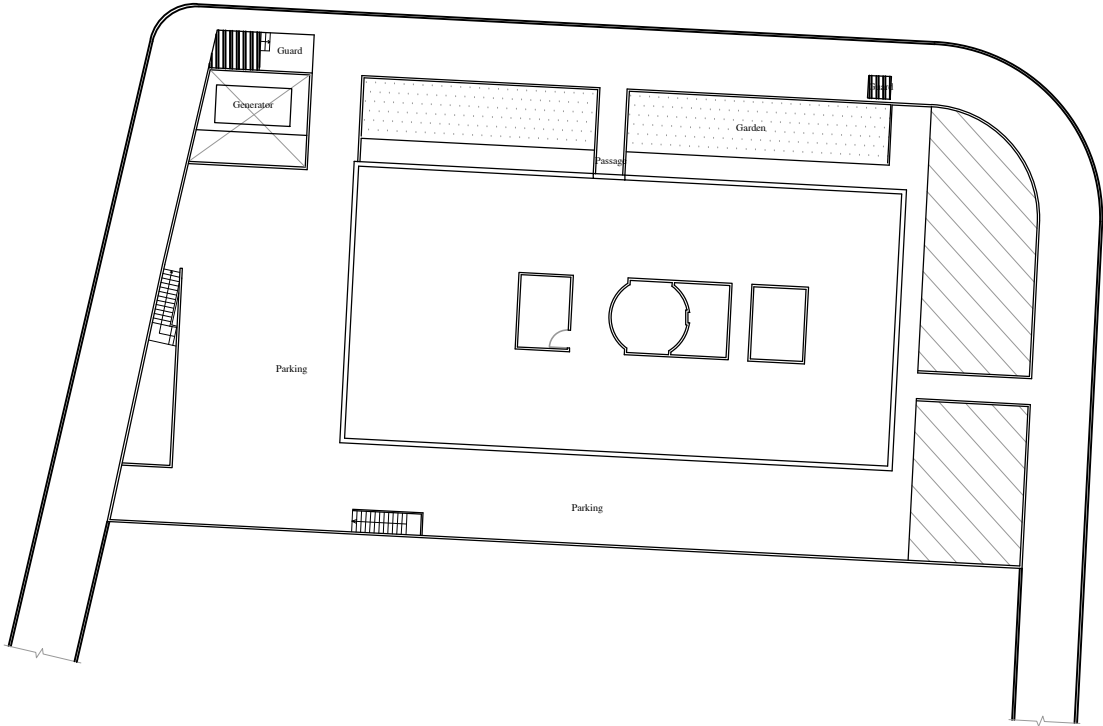


Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed RA	Drawn AZ
Approved AC	Checked AS
Scale NTS	Date August 2019

Project Number: TL1203	
Sheet Title: List Of Drawing (LOD)	
Sheet No.: A-000	Revision No.: 01
General Location : Bir Hasan	

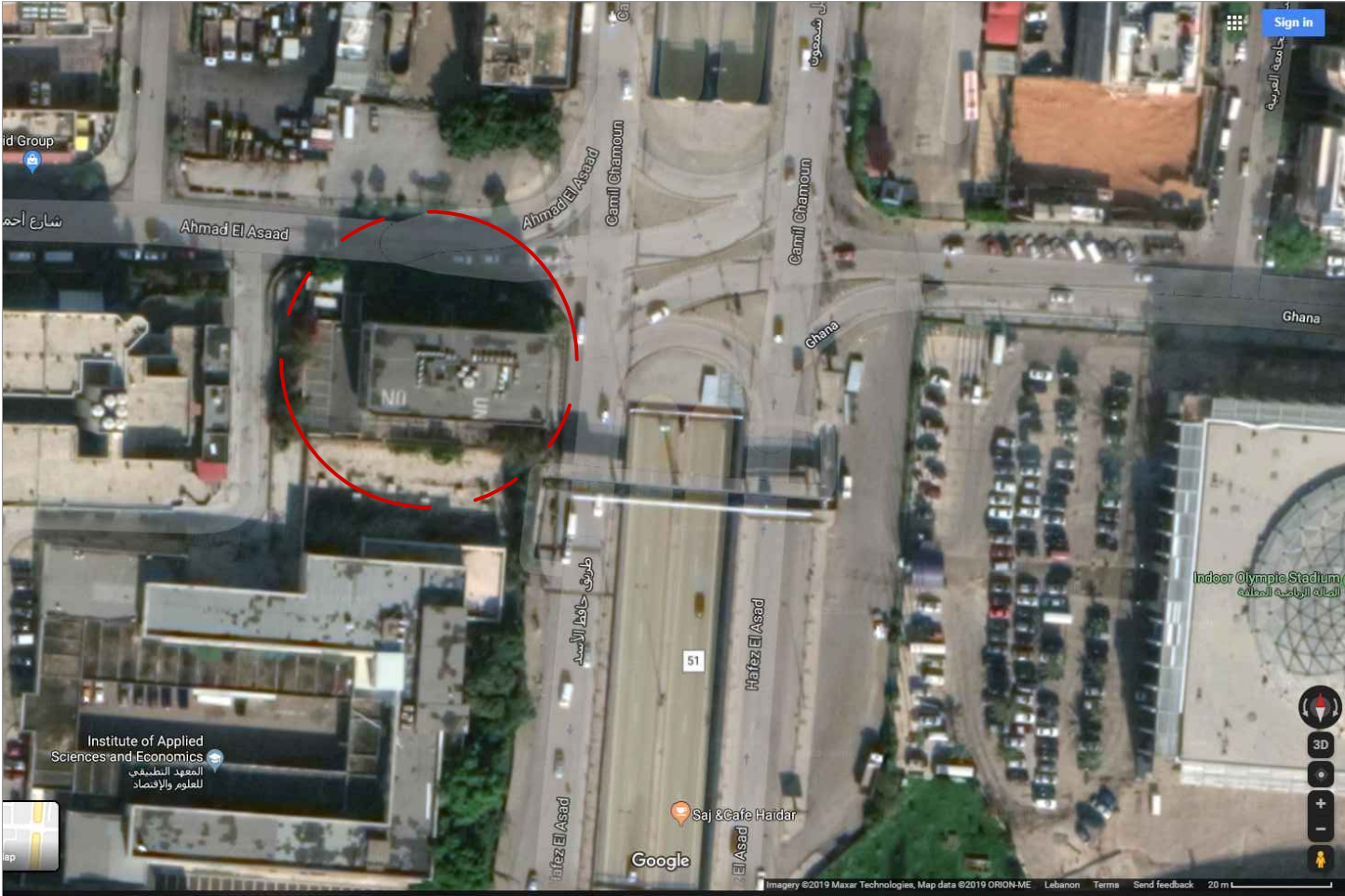


Works to be done:

The followings are the indicative requested works:

- Rehabilitate the sanitary and electrical network and installations
- Provide complete thermal & moisture roof insulation as specified.
- Rehabilitate and paint entrance gates.

	New Aluminium Door
	Rehabilitate Wooden Door
	New Wooden Door
	Rehabilitate Steel Door
	New Steel Door
	Rehabilitate Steel Window
	Rehabilitate Upper Steel Window
	Rehabilitate Aluminum Window
	Rehabilitate Upper Aluminum Window
	New Aluminum Window
	New Upper Aluminum Window
	Rehabilitate Wooden Window
	Maintenance Aluminum Window



- Note:**
- All levels are indicative exact levels to be determined to site.
 - The contractor should revise all measurement on site.
 - The contractor should provide concrete strength & steel bars tests before starting the works.
 - All proposals and execution methods shall be authorized by the engineer prior to commencement of works on site.



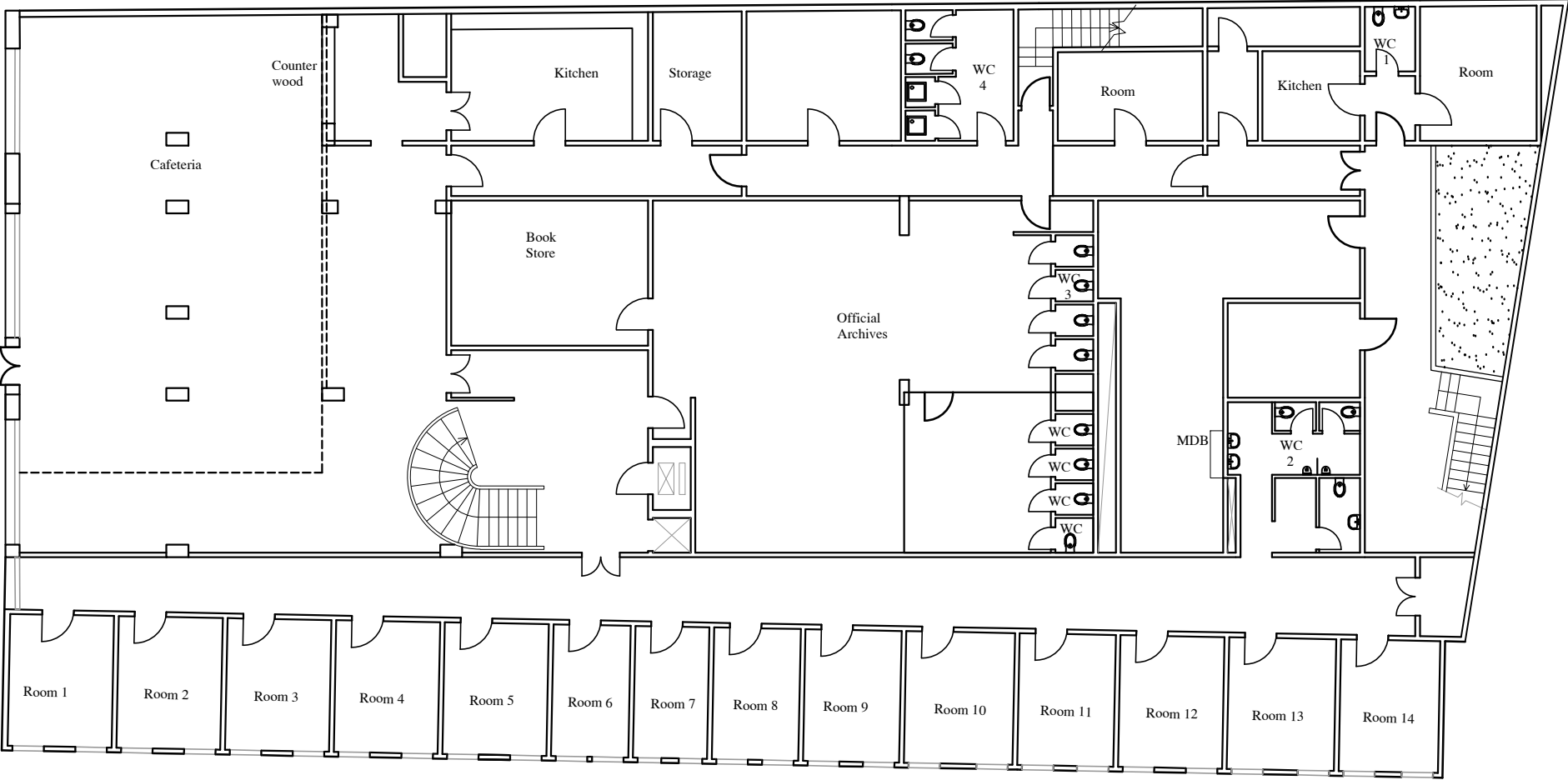
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(Contract No. 4500398541)

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ANNEX-IX

Designed RA	Drawn AZ	Project Number: TL1203	
Approved AC	Checked AS	Sheet Title: General Site Plan	
Scale NTS	Date August 2019	Sheet No.: A-001	Revision No.: 01
General Location : Bir Hasan			



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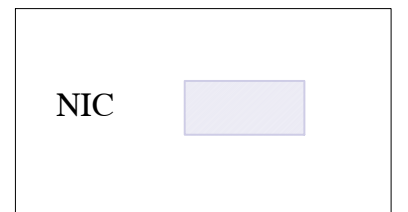
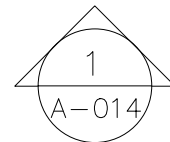
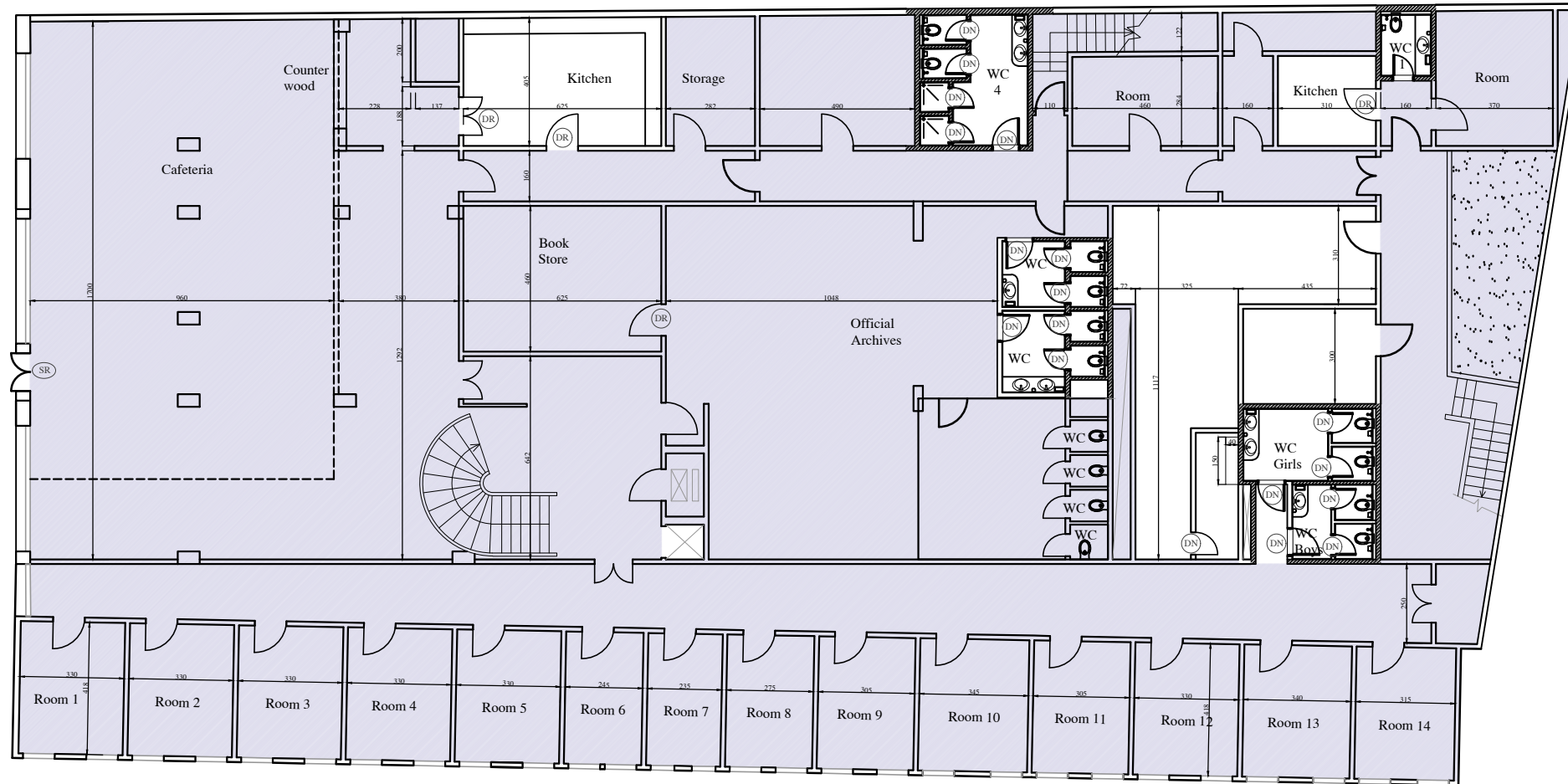
Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed RA
Approved AC
Scale 1/200

Drawn AZ
Checked AS
Date August 2019

Project Number: TL1203	
Sheet Title: Existing Basement Floor Plan	
Sheet No.: A-002	Revision No.: 01
General Location : Bir Hasan	



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(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

Designed RA
Approved AC

Drawn AZ
Checked AS

Scale
1/200

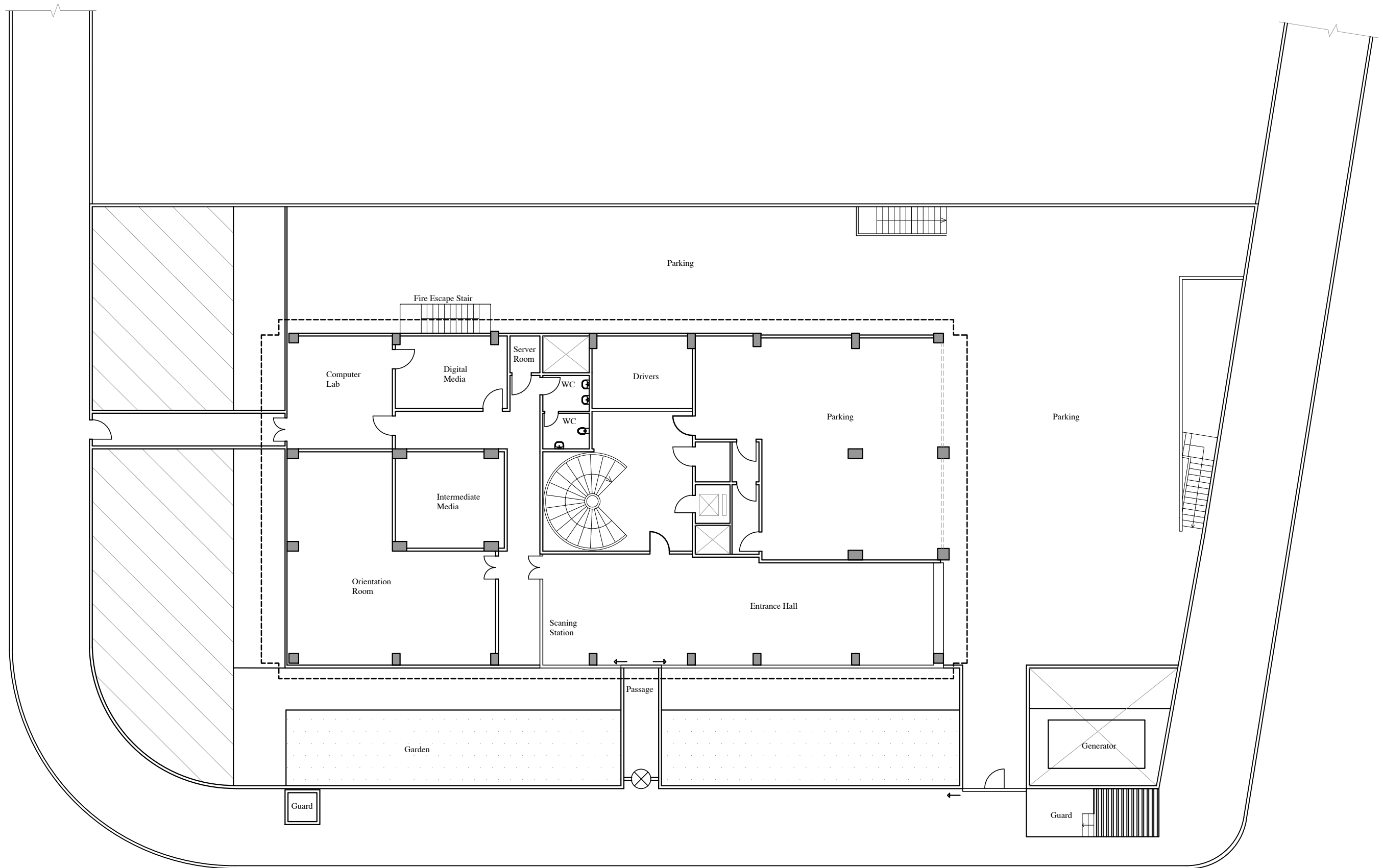
Date
August 2019

Project Number: TL1203

Sheet Title: New Basement Floor Plan

Sheet No.: A-003 Revision No.: 01

General Location : Bir Hasan



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Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

Designed RA
Approved AC

Drawn AZ
Checked AS

Scale
1/200

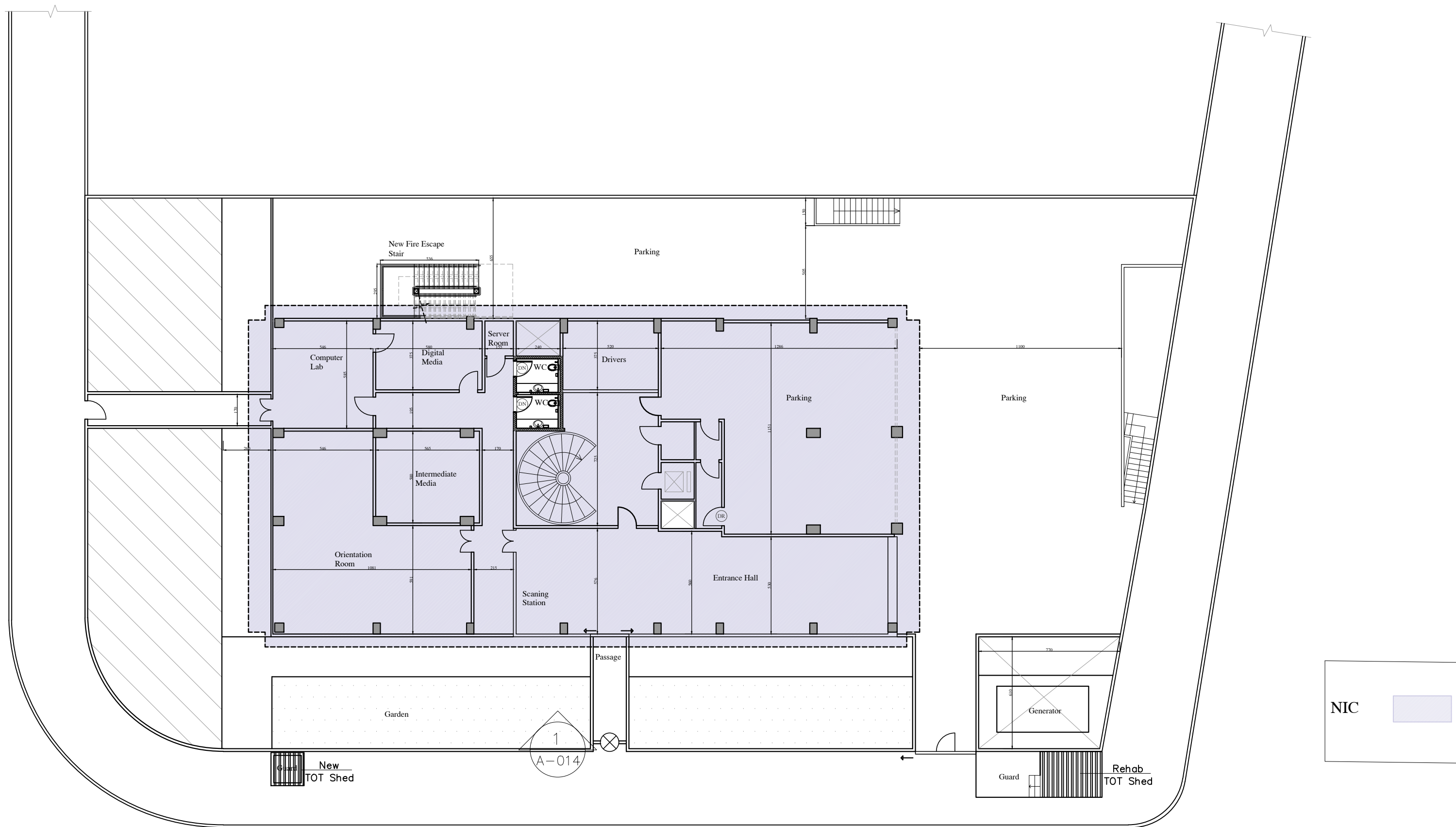
Date
August 2019

Project Number: TL1203

Sheet Title: Existing Ground Floor Plan

Sheet No.: A-004 Revision No.: 01

General Location : Bir Hasan



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BIR HASAN

ANNEX-IX

Designed RA
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Drawn AZ
Checked AS

Scale
1/200

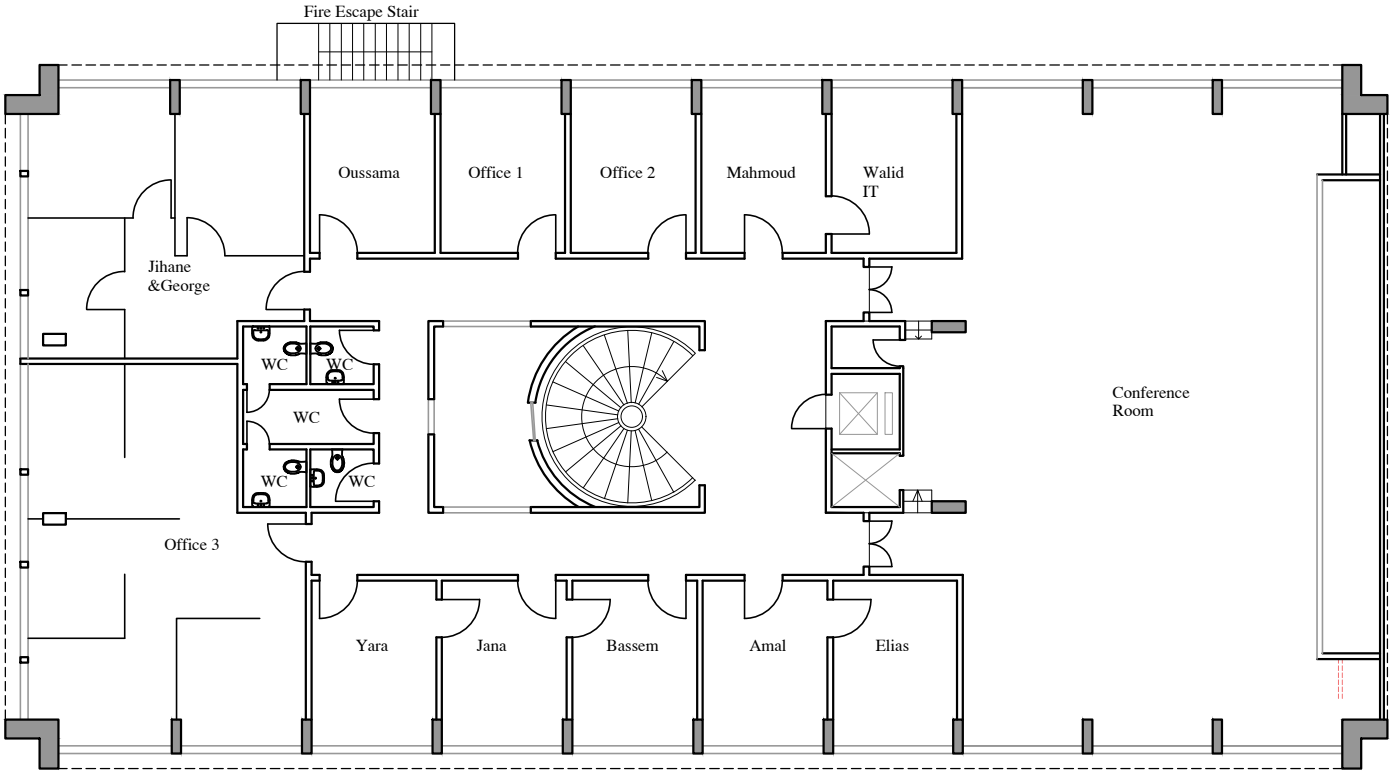
Date
August 2019

Project Number: TL1203

Sheet Title: New Ground Floor Plan

Sheet No.: A-005 Revision No.: 01

General Location : Bir Hasan



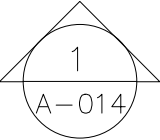
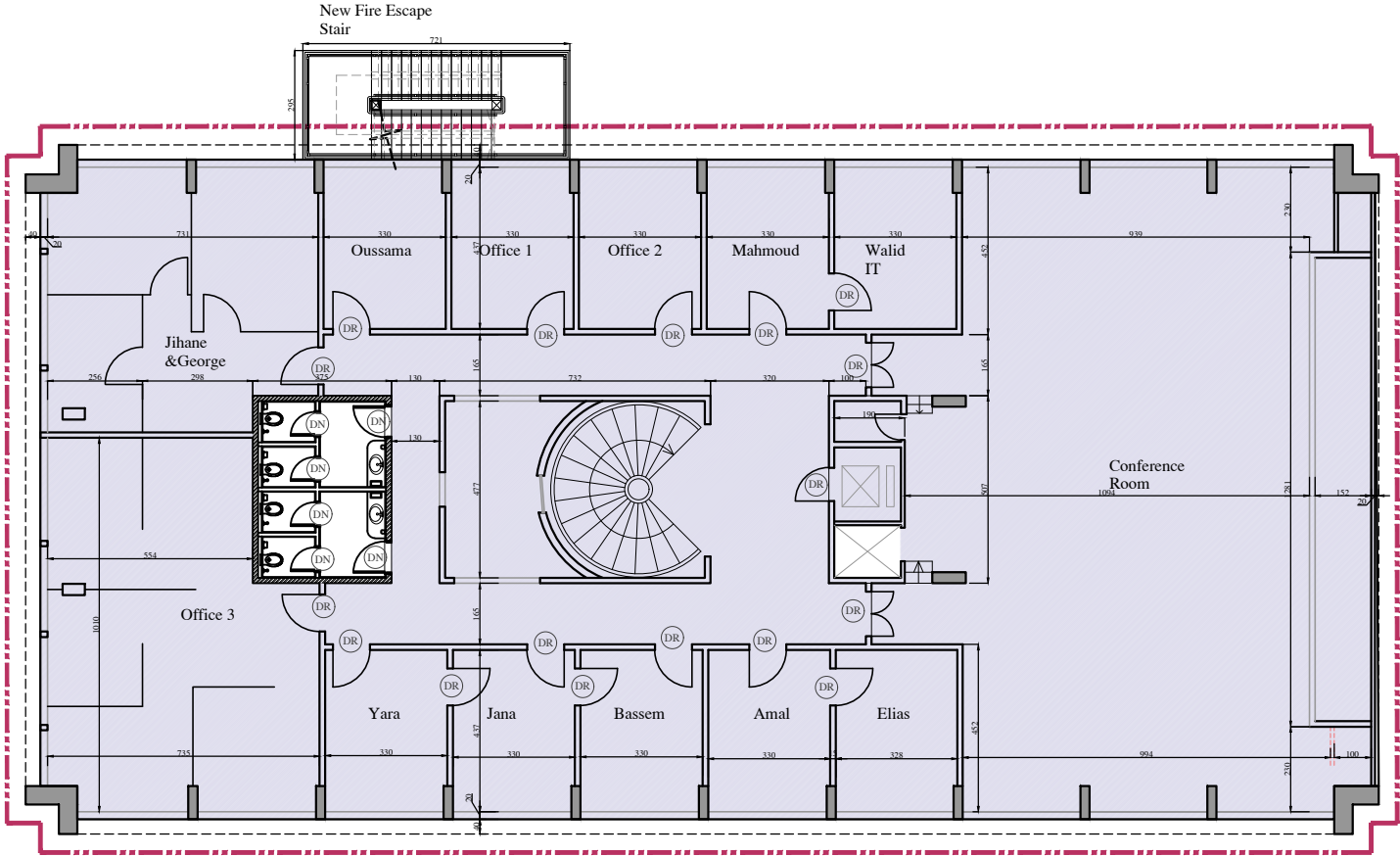
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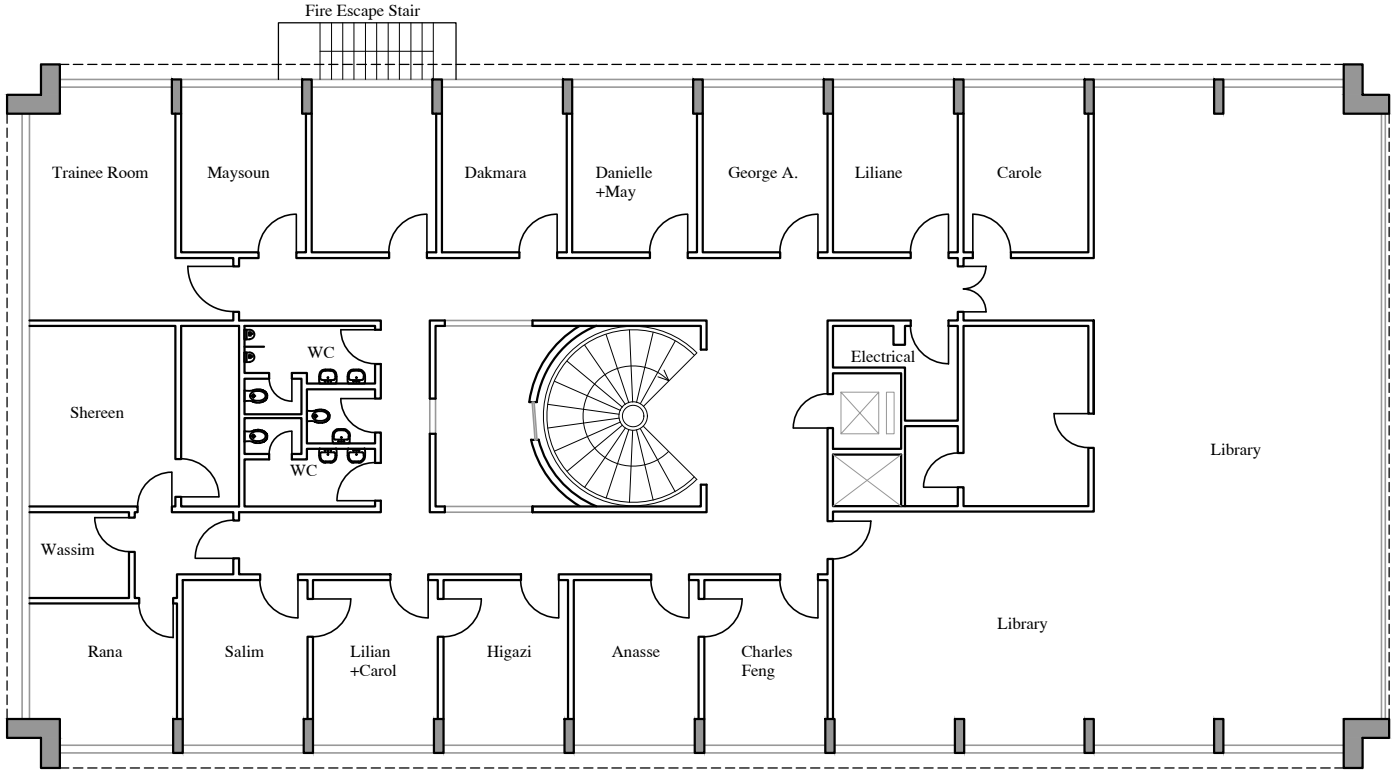
BIR HASAN
ANNEX-IX

Designed RA	Drawn AZ	Project Number: TL1203	
Approved AC	Checked AS	Sheet Title: Existing First Floor Plan	
Scale 1/200	Date August 2019	Sheet No.: A-006	Revision No.: 01
General Location : Bir Hasan			



New Cladding
(Mechanical Fixation)

NIC



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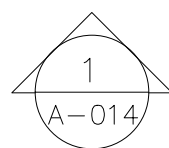
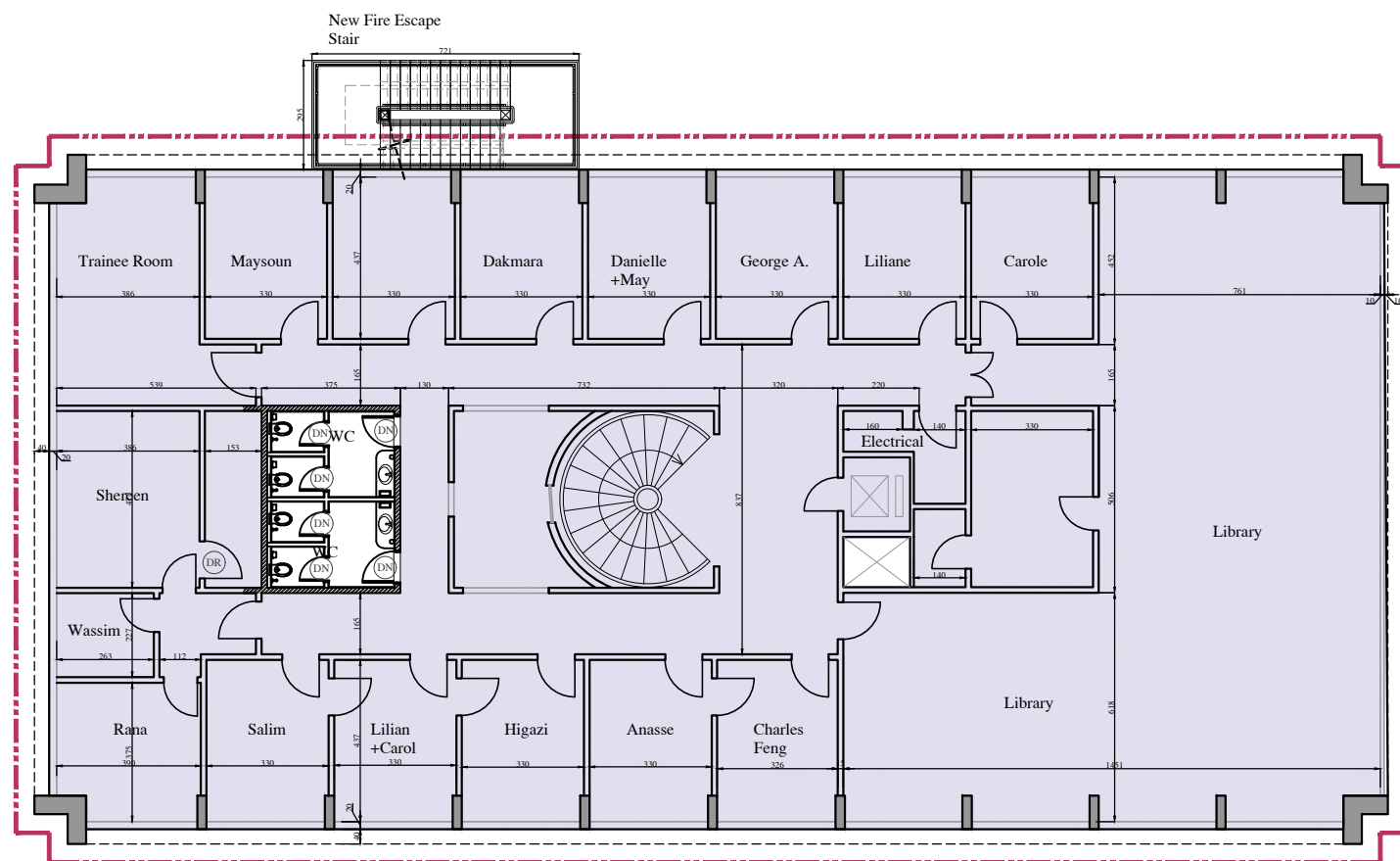


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(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed	RA	Drawn	AZ
Approved	AC	Checked	AS
Scale	1/200	Date	August 2019

Project Number: TL1203	
Sheet Title: Existing Second Floor Plan	
Sheet No.: A-008	Revision No.: 01
General Location : Bir Hasan	



New Cladding
(Mechanical Fixation)

NIC



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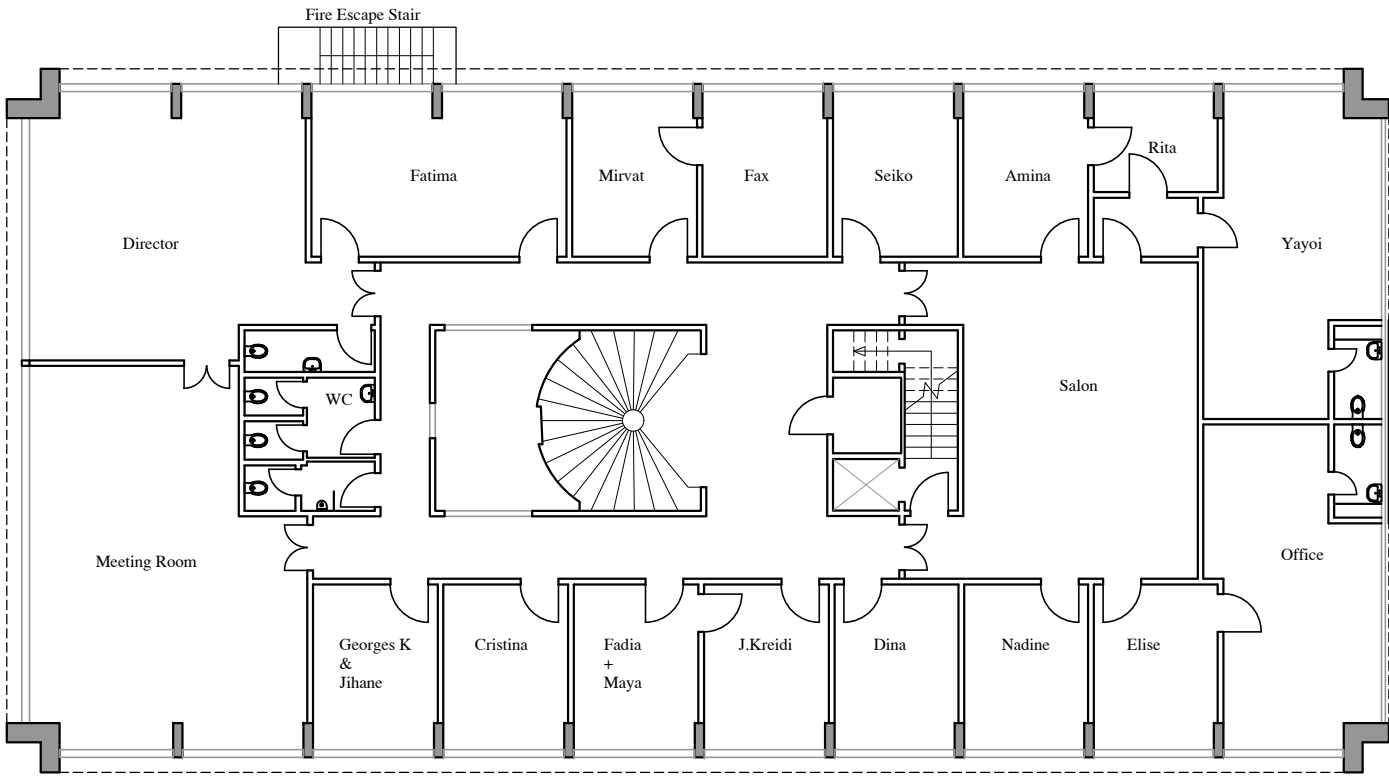
Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

Designed RA	Drawn AZ	Project Number: TL1203	
Approved AC	Checked AS	Sheet Title: New Second Floor Plan	
Scale 1/200	Date August 2019	Sheet No.: A-009	Revision No.: 01
General Location : Bir Hasan			



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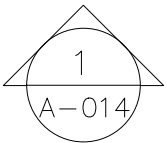
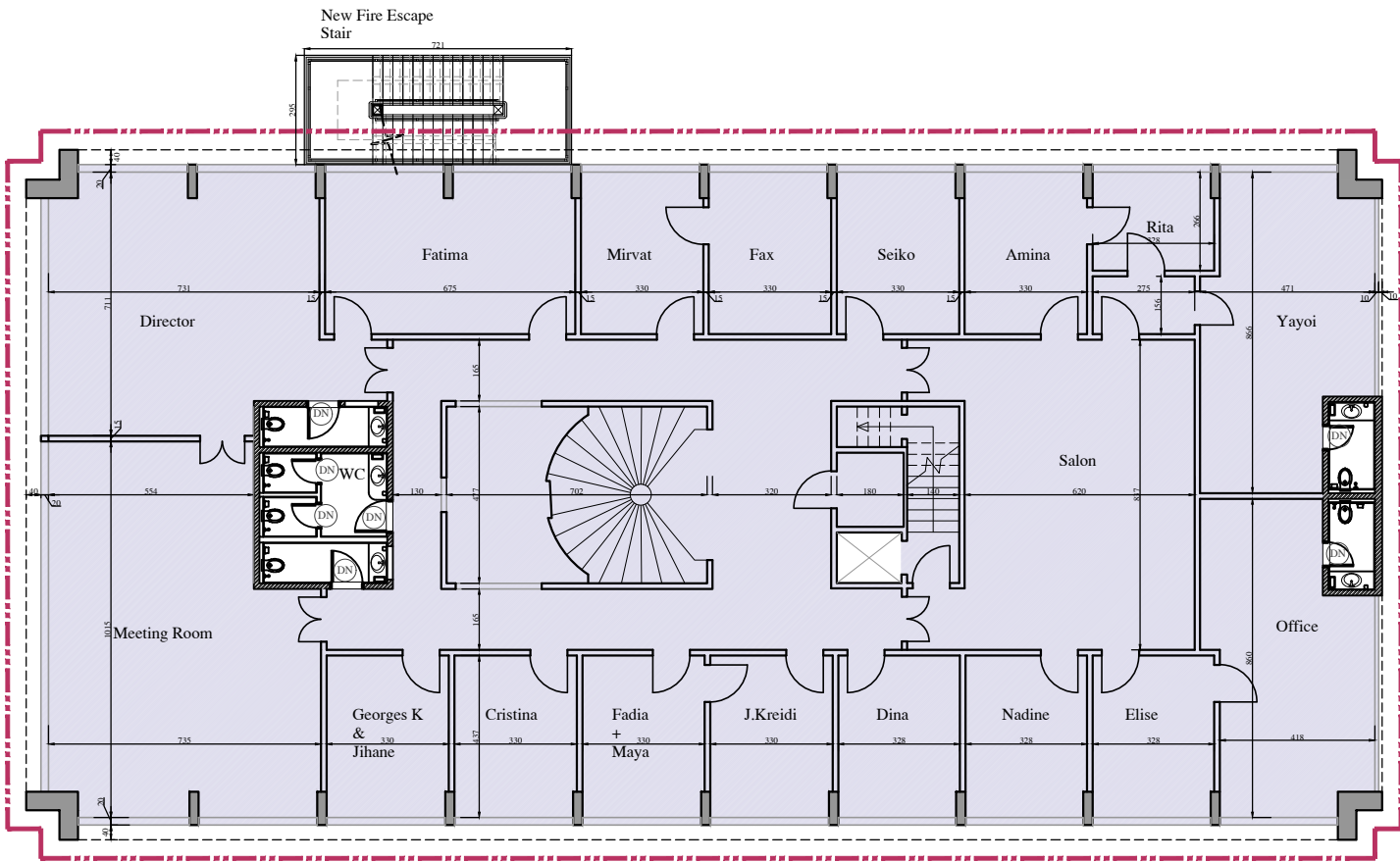
Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed RA
Approved AC
Scale 1/200

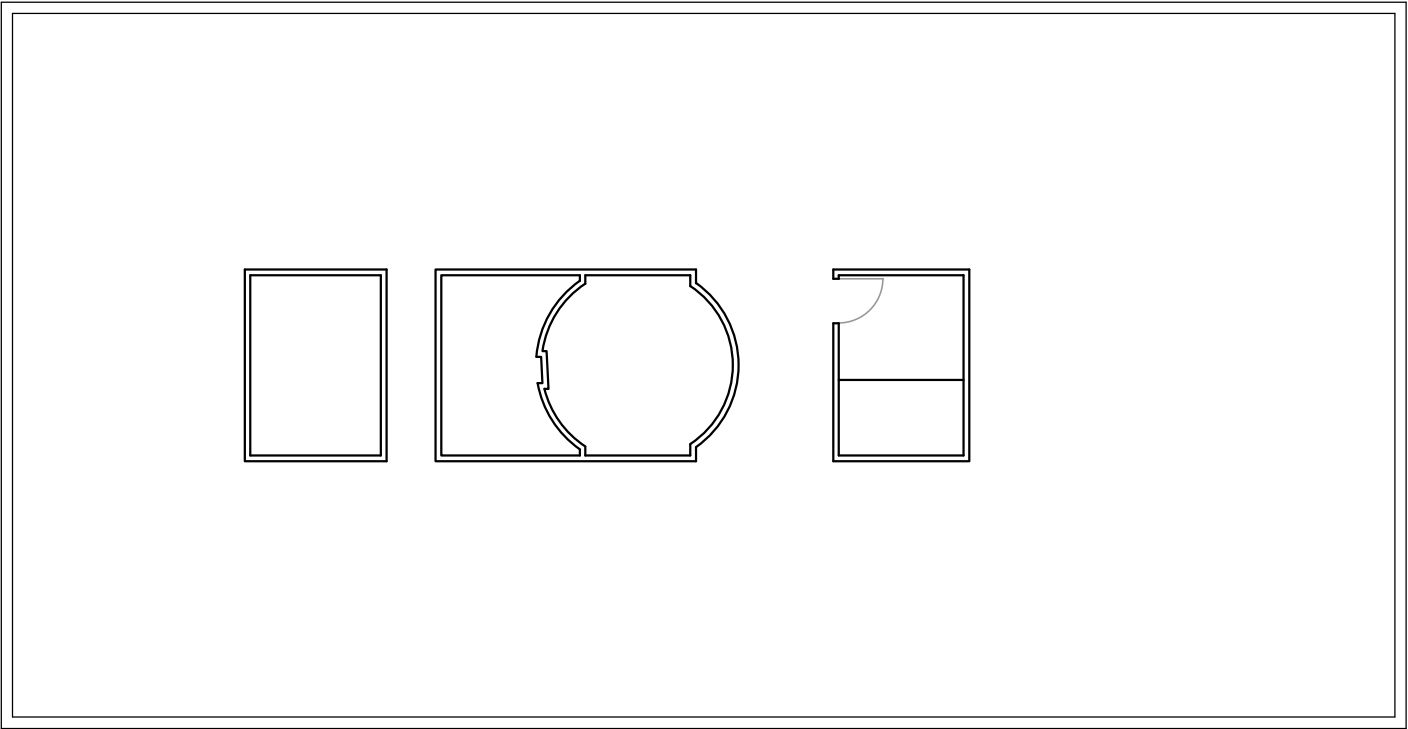
Drawn AZ
Checked AS
Date August 2019

Project Number: TL1203
Sheet Title: Existing Third Floor Plan
Sheet No.: A-010 Revision No.: 01
General Location : Bir Hasan



New Cladding
(Mechanical Fixation)

NIC



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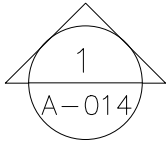
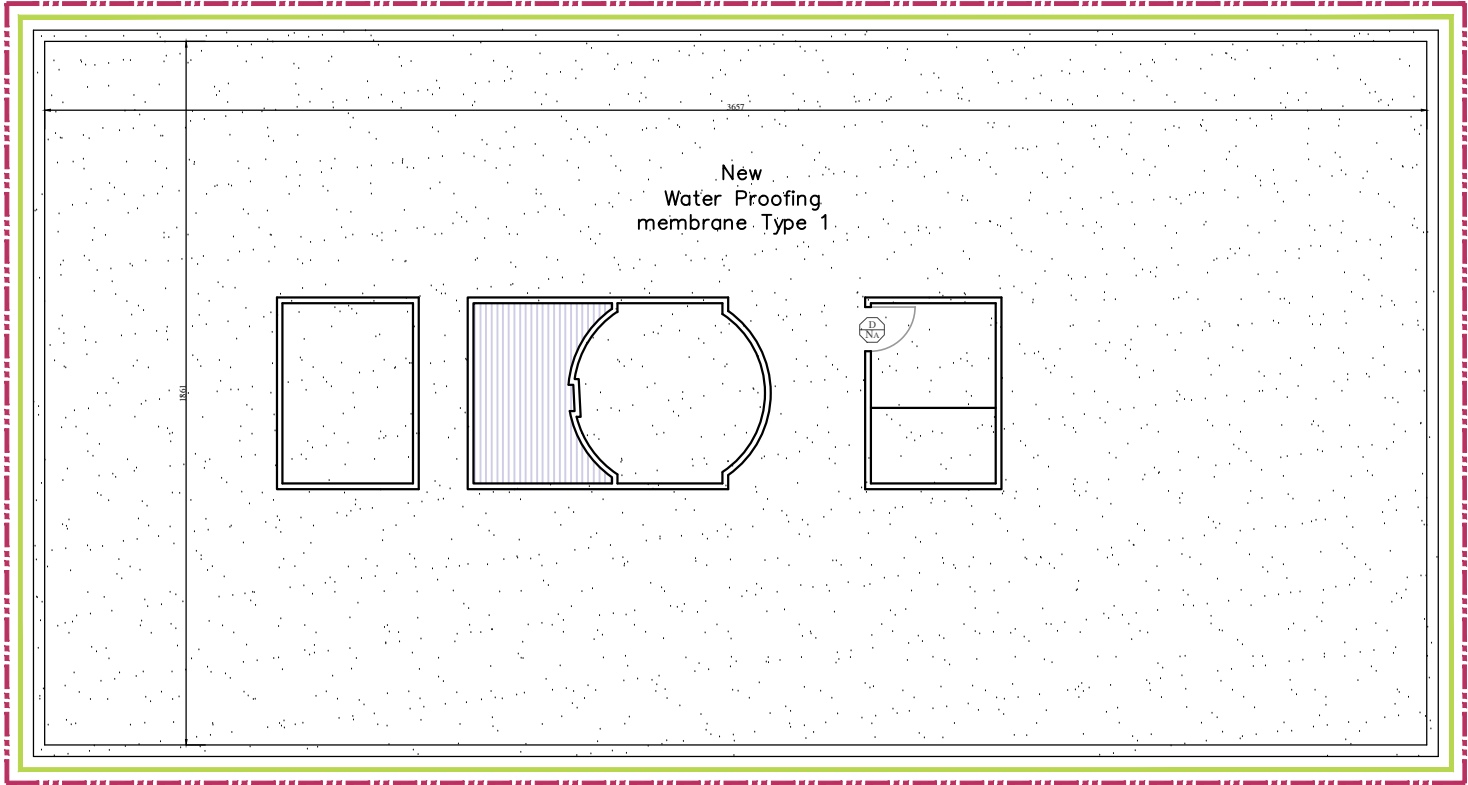
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(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed	RA	Drawn	AZ
Approved	AC	Checked	AS

Scale	1/200	Date	August 2019
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Project Number: TL1203	
Sheet Title: Existing Roof Floor Plan	
Sheet No.: A-012	Revision No.: 01
General Location : Bir Hasan	



New Plexi Shed



New Aluminum Handrail



New Cladding
(Mechanical Fixation)



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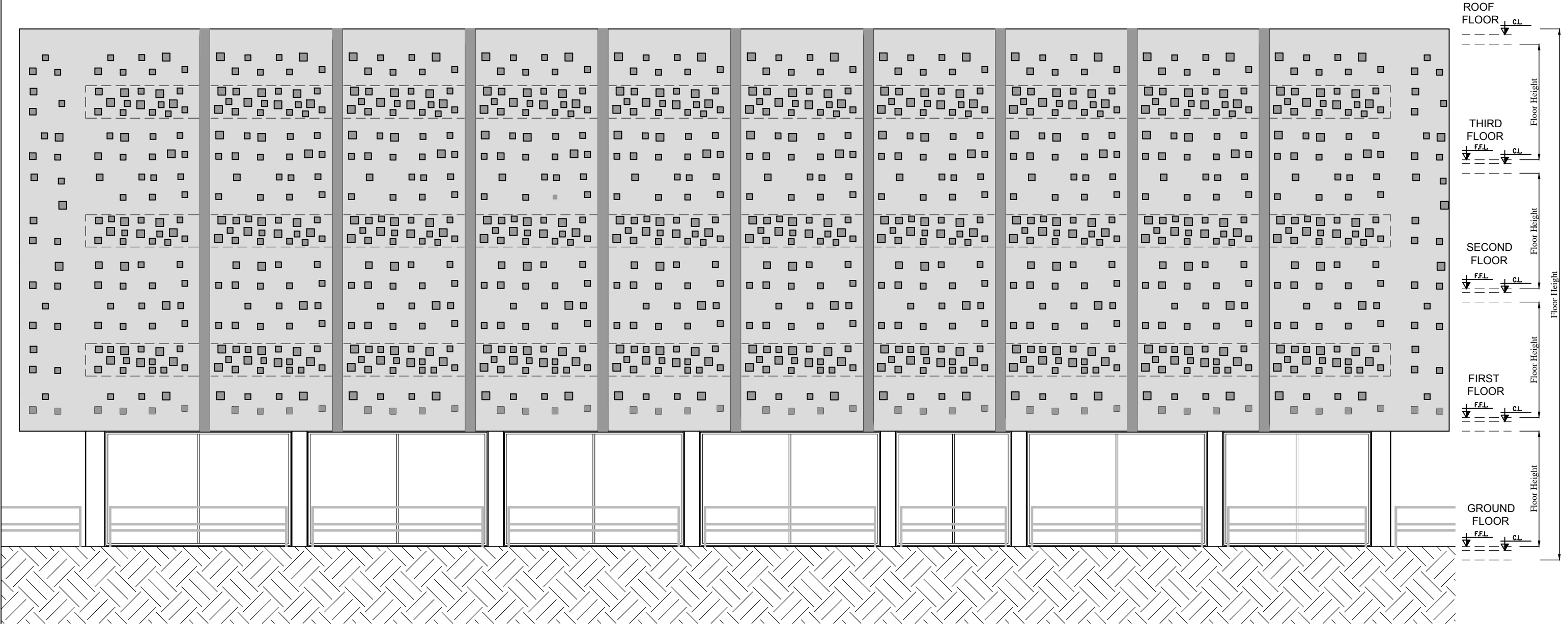


Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed	RA	Drawn	AZ
Approved	AC	Checked	AS
Scale	1/200	Date	August 2019

Project Number: TL1203	
Sheet Title: New Roof Floor Plan	
Sheet No.: A-013	Revision No.: 01
General Location : Bir Hasan	



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(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

Designed RA
Approved AC

Drawn AZ
Checked AS

Scale 1/100

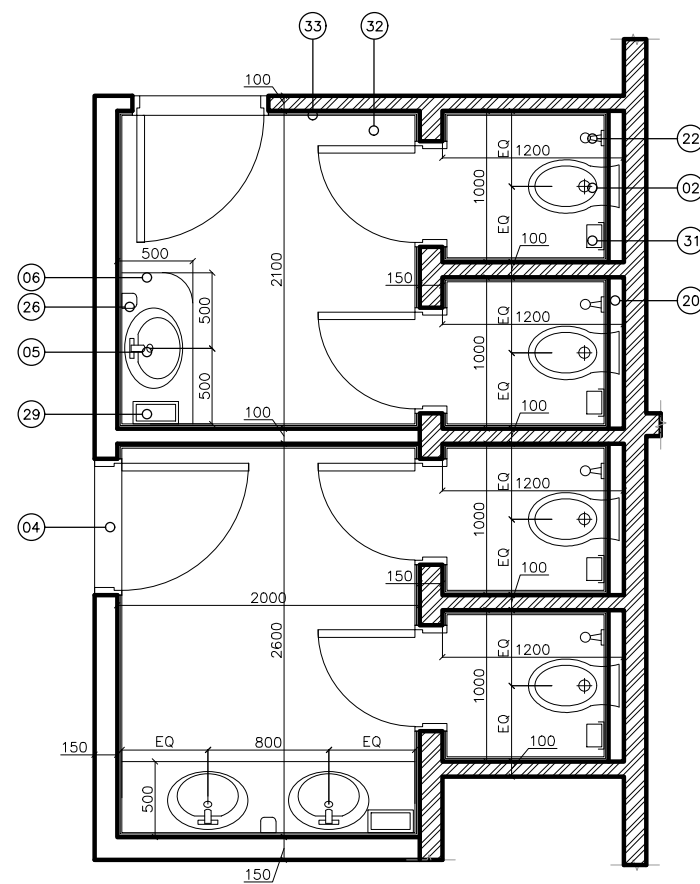
Date August 2019

Project Number: TL1203

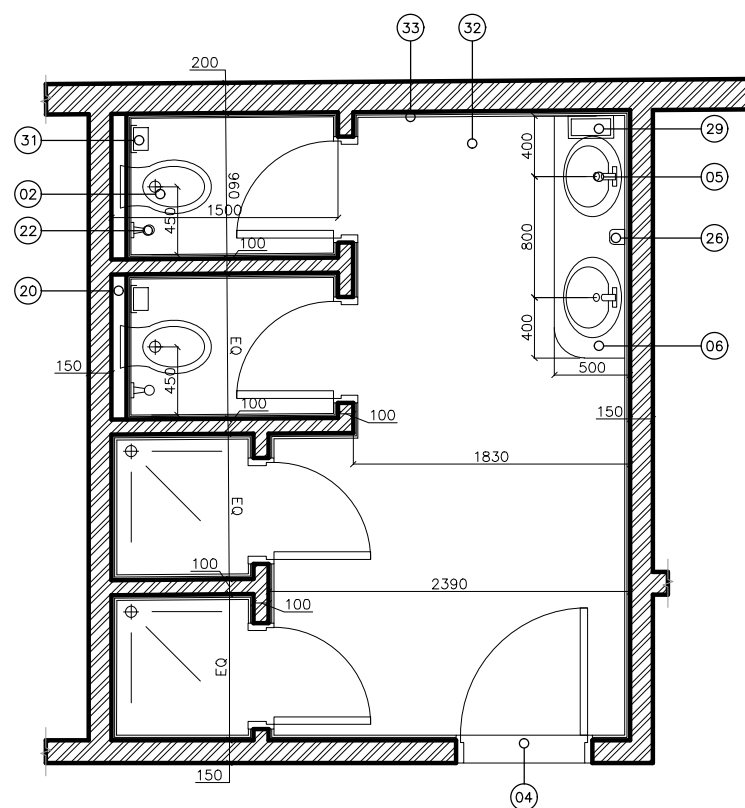
Sheet Title: Main Elevation

Sheet No.: A-014 Revision No.: 01

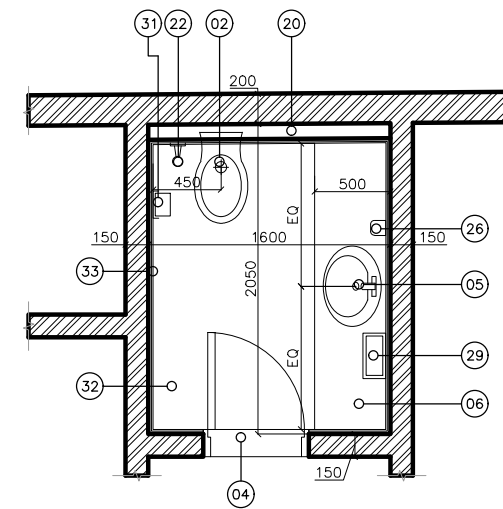
General Location : Bir Hasan



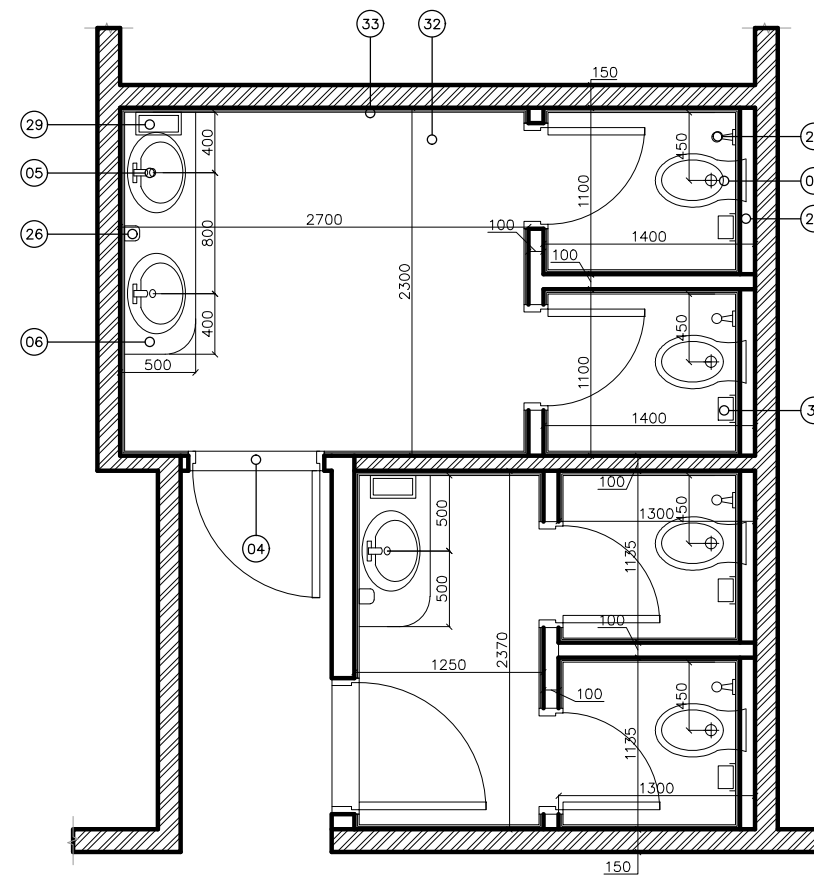
UPDATED ARCHIVES TOILETS
LAYOUT PLAN AT BASE LEVEL



UPDATED ISF TOILET
LAYOUT PLAN AT BASE LEVEL



UPDATED GUARD TOILETS
LAYOUT PLAN AT BASE LEVEL



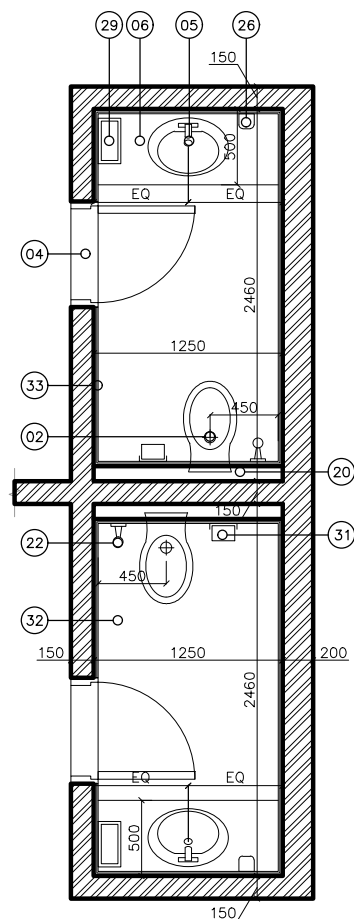
UPDATED CAFETERIA TOILETS
LAYOUT PLAN AT BASE LEVEL

Toilets Types Legend:

- 02- WALL MOUNTED EUROPEAN W. C.
- 03- WALL MOUNTED BIDET
- 04- THRESHOLD
- 05- COUNTER TOP WASHBASIN
- 06- COUNTER TOP
- 07- COUNTER SINK WITH CABINET
- 08- FLOOR STANDING EUROPEAN W. C.
- 09- FLOOR STANDING BIDET
- 10- ASIAN W. C.
- 11- HANDICAP LAVATORY
- 12- FLOOR STANDING HANDICAP EUROPEAN W. C.
- 13- WALL MOUNTED HANDICAP EUROPEAN W. C.
- 14- URINAL
- 15- CAST IN SHOWER
- 16- BATH TUB
- 17- KITCHEN SINK
- 18- JANITOR SINK
- 19- ABLUTION SINK
- 20- 10 cm H. C. B. WALL 1200mmH FROM FINISH LEVEL
- 21- H. P. L. DOOR
- 22- HOSE BIB
- 23- WALL MOUNTED SHOWER HEAD
- 24- LAVATORY MIRROR UNIT
- 25- SOAP HOLDER
- 26- SOAP DISPENSER
- 27- WIDE SOAP HOLDER
- 28- TOWEL RAIL
- 29- PAPER TOWEL DISPENSER
- 30- ELECTRIC HAND DRYER
- 31- TOILET PAPER HOLDER
- 32- NEW FLOOR TILES
- 33- NEW WALL TILES
- 34- LOCKERS
- 36- WALL MOUNTED WASHBASIN-2
- 37- COUNTER SINK WITH CABINET(CLINICS)
- 39- HANDICAP FIXED GRAB RAIL
- 40- Marble Partition
- 41- HANDICAP HINGED GRAB RAIL
- 42- SHOWER TRAY
- 43- GLASS SHOWER PARTITION
- 44- SHOWER CURTAIN
- 45- FLOOR TILES TYPE-2 WITH ANTI SKID GROOVES
- 46- KITCHEN SINK-2
- 47- KITCHEN SINK-3

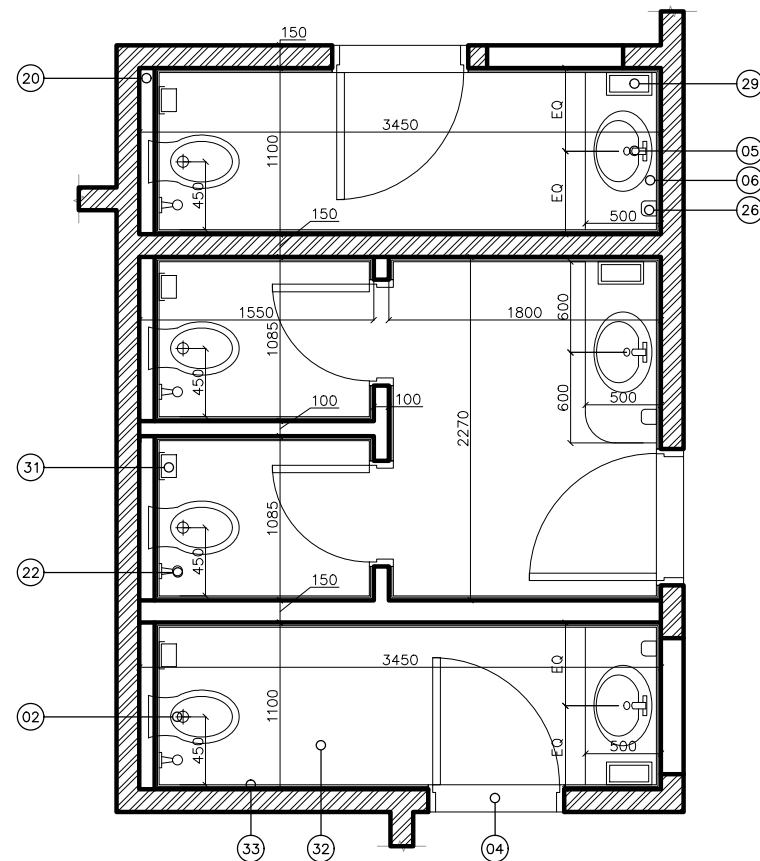
 EXISTING HOLLOW BLOCK WALL

 NEW HOLLOW BLOCK WALL



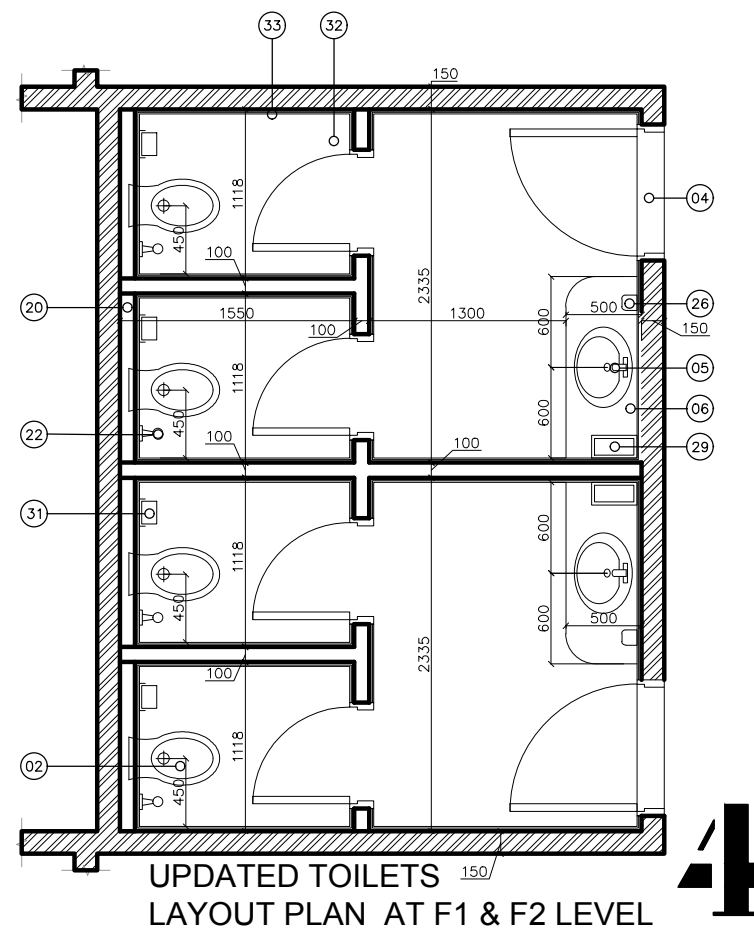
UPDATED OFFICES TOILETS
LAYOUT PLAN AT F3 LEVEL

3

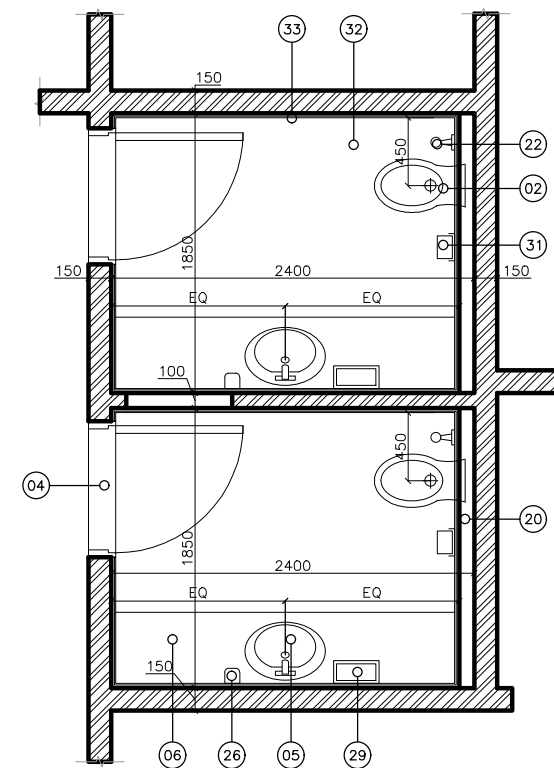


UPDATED DIRECTOR & PRINCIPAL TOILET
LAYOUT PLAN AT F3 LEVEL

2



UPDATED TOILETS
LAYOUT PLAN AT F1 & F2 LEVEL



UPDATED MAHMOUD CENTER TOILETS
LAYOUT PLAN AT GF LEVEL

1

Toilets Types Legend:

- 02- WALL MOUNTED EUROPEAN W. C.
- 03- WALL MOUNTED BIDET
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- 05- COUNTER TOP WASHBASIN
- 06- COUNTER TOP
- 07- COUNTER SINK WITH CABINET
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- 12- FLOOR STANDING HANDICAP EUROPEAN W. C.
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- 33- NEW WALL TILES
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- 37- COUNTER SINK WITH CABINET(CLINICS)
- 39- HANDICAP FIXED GRAB RAIL
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- 42- SHOWER TRAY
- 43- GLASS SHOWER PARTITION
- 44- SHOWER CURTAIN
- 45- FLOOR TILES TYPE-2 WITH ANTI SKID GROOVES
- 46- KITCHEN SINK-2
- 47- KITCHEN SINK-3

-  EXISTING HOLLOW BLOCK WALL
-  NEW HOLLOW BLOCK WALL



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Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

Designed RA	Drawn AZ	Project Number: TL1203	
Approved AC	Checked AS	Sheet Title: Toilets Details 2/2	
Scale 1/50	Date August 2019	Sheet No.: A-016	Revision No.: 01
General Location : Bir Hasan			

LIST OF DRAWINGS

E-000	List Of Drawings (LOD)
E-001	Legend
E-100	Basement Floor Plan Lighting Layout
E-101	Ground Floor Plan Lighting Layout
E-102	First Floor Lighting Layout
E-103	Second Floor Lighting Laypout
E-104	Third Floor Lighting Layout
E-200	Basement Floor Plan Power Layout
E-201	Ground Floor Plan Power Layout
E-202	First Floor Power Layout
E-203	Second Floor Power Layout
E-204	Third Floor Power Layout
E-205	Roof Floor Power Layout



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(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AK	Drawn AK
Approved AC	Checked AG

Scale NTS	Date August 2019
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Project Number: TL1203	
Sheet Title: LIST OF DRAWINGS (LOD)	
Sheet No.: E-000	Revision No.: 01
General Location : Bir Hasan	

LEGEND

SYMBOL	DESCRIPTION	LIGHTING
	RECESSED MOUNTED SPOT , 1X18W LED TYPE,1200 LM, IP44 USED IN BATHROOMS	
	WALL MOUNTED MIRROR LIGHT, 8 W LED IP 44.	
	SURFACE MOUNTED LIGHTING FIXTURE 1.2 M , 36 W.	
	ONE WAY ONE GANG SWITCH	
	ONE WAY TWO GANG SWITCH	
	EXHAUST FAN, MOUNTING AS INDICATED, EXF-1 : 50 W, EXF-2: 100 W, EXF-3: 50 W, EXF-4: 100 W.	

SYMBOL	DESCRIPTION	POWER
	WALL MOUNTED SIMPLEX SOCKET HEIGHT AT 300 MM F.F.L.	
 WP	WALL MOUNTED WEATHERPROOF SIMPLEX SOCKET HEIGHT AT 1200 MM F.F.L.	
	WALL MOUNTED DUPLEX SOCKET HEIGHT AT 1200 MM F.F.L.	
	DISCONNECT SWITCH, SINGLE PPHASE.	
	WALL MOUNTED PANEL BOARD.	
	DATA OUTLET FOR GUARD ROOM.	



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Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

Designed

AK

Approved

AC

Scale

NTS

Drawn

AK

Checked

AG

Date

August 2019

Project Number:

TL1203

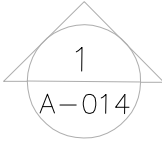
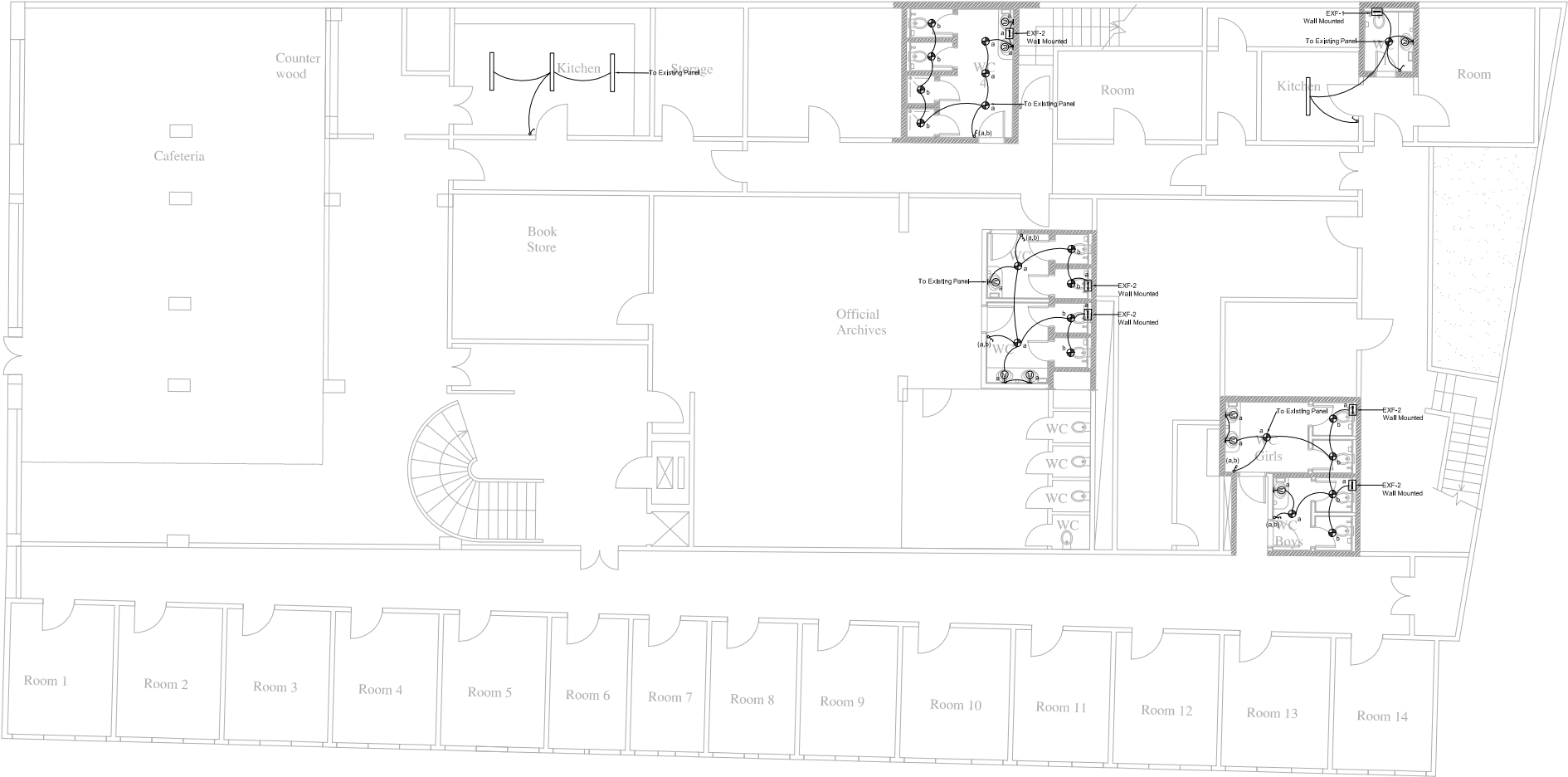
Sheet Title:

LEGEND

Sheet No.: E-001

Revision No.: 01

General Location : Bir Hasan



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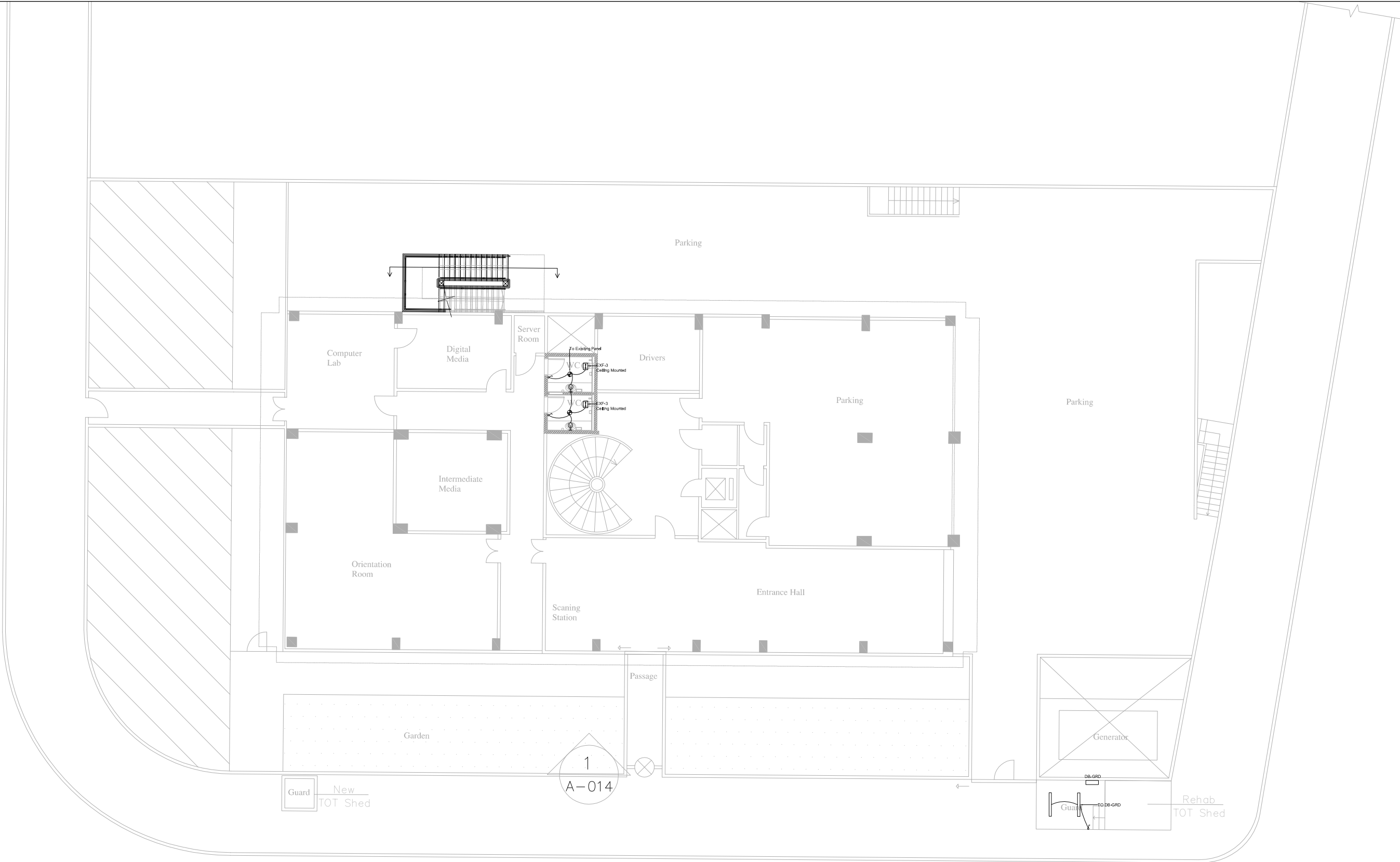


Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AK	Drawn AK
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: BASEMENT FLOOR LIGHTING LAYOUT	
Sheet No.: E-100	Revision No.: 01
General Location : Bir Hasan	



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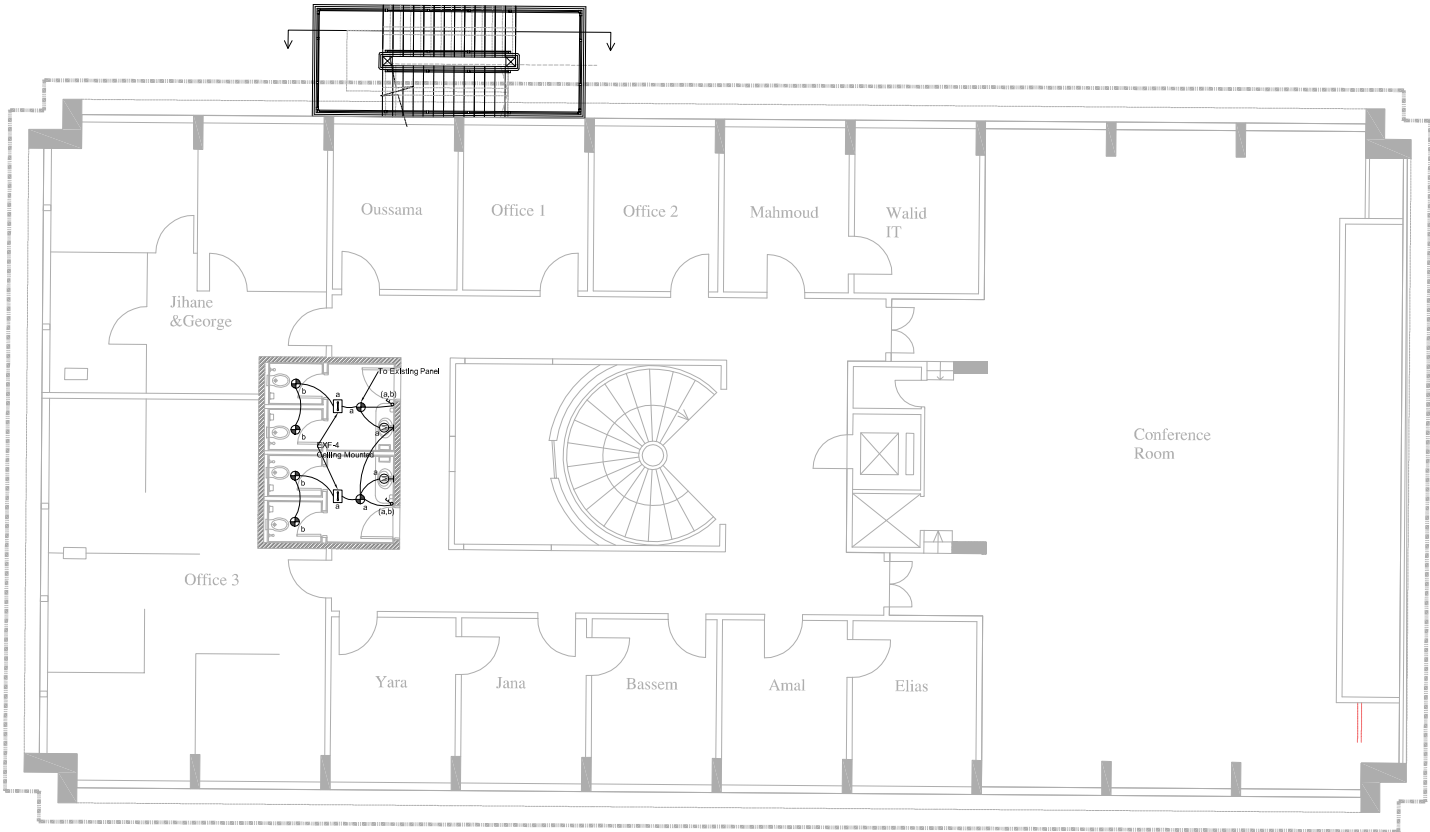


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(Contract No. 4500398541)

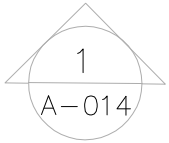
BIR HASAN
ANNEX-IX

Designed AK	Drawn AK
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: GROUND FLOOR LIGHTING LAYOUT	
Sheet No.: E-101	Revision No.: 01
General Location : Bir Hasan	



New Cladding
(Mechanical Fixation)

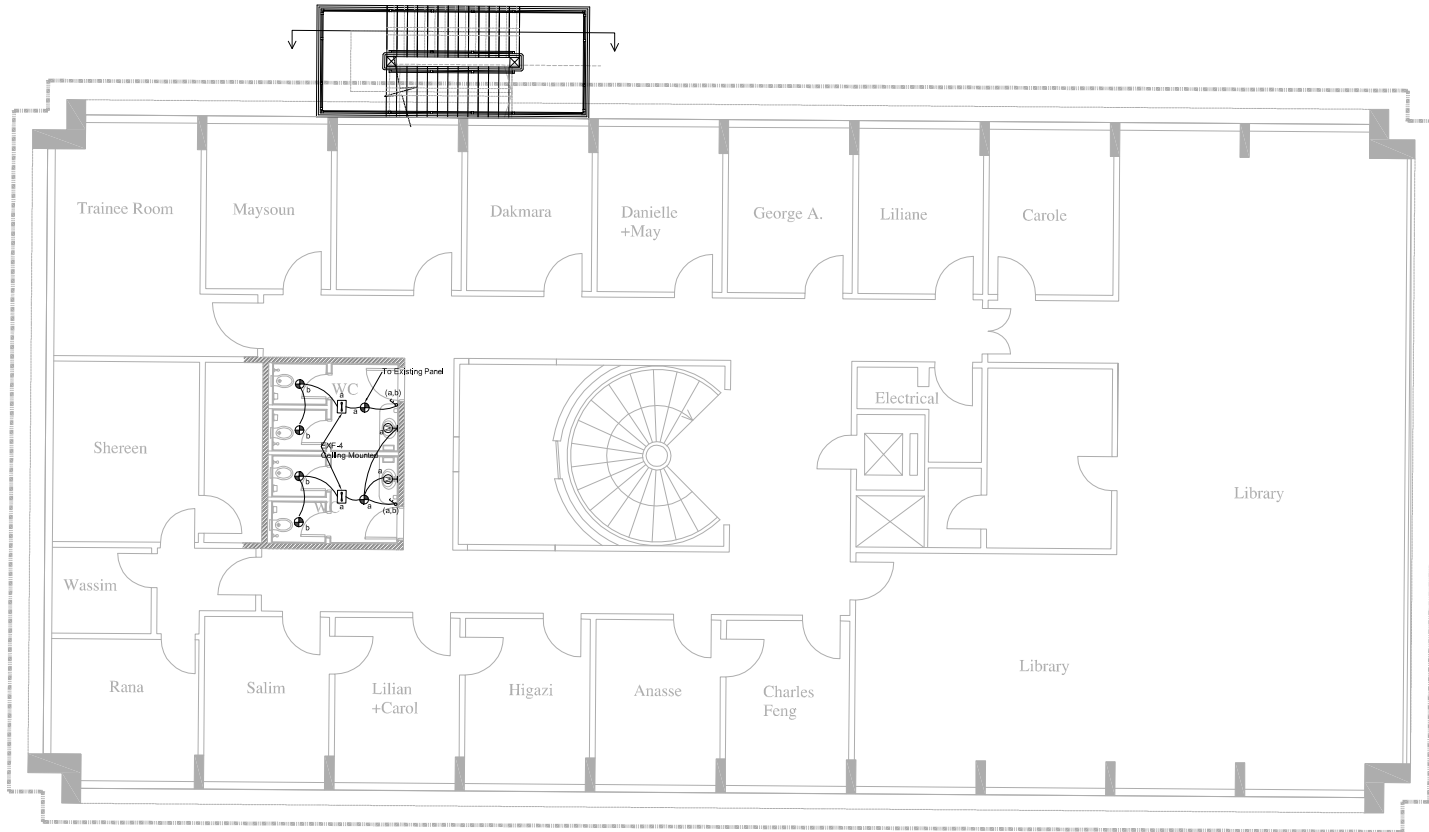


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Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)
BIR HASAN
ANNEX-IX

Designed AK	Drawn AK	Project Number: TL1203	
Approved AC	Checked AG	Sheet Title: FIRST FLOOR LIGHTING LAYOUT	
Scale 1/200	Date August 2019	Sheet No.: E-102	Revision No.: 01
General Location : Bir Hasan			



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A-014



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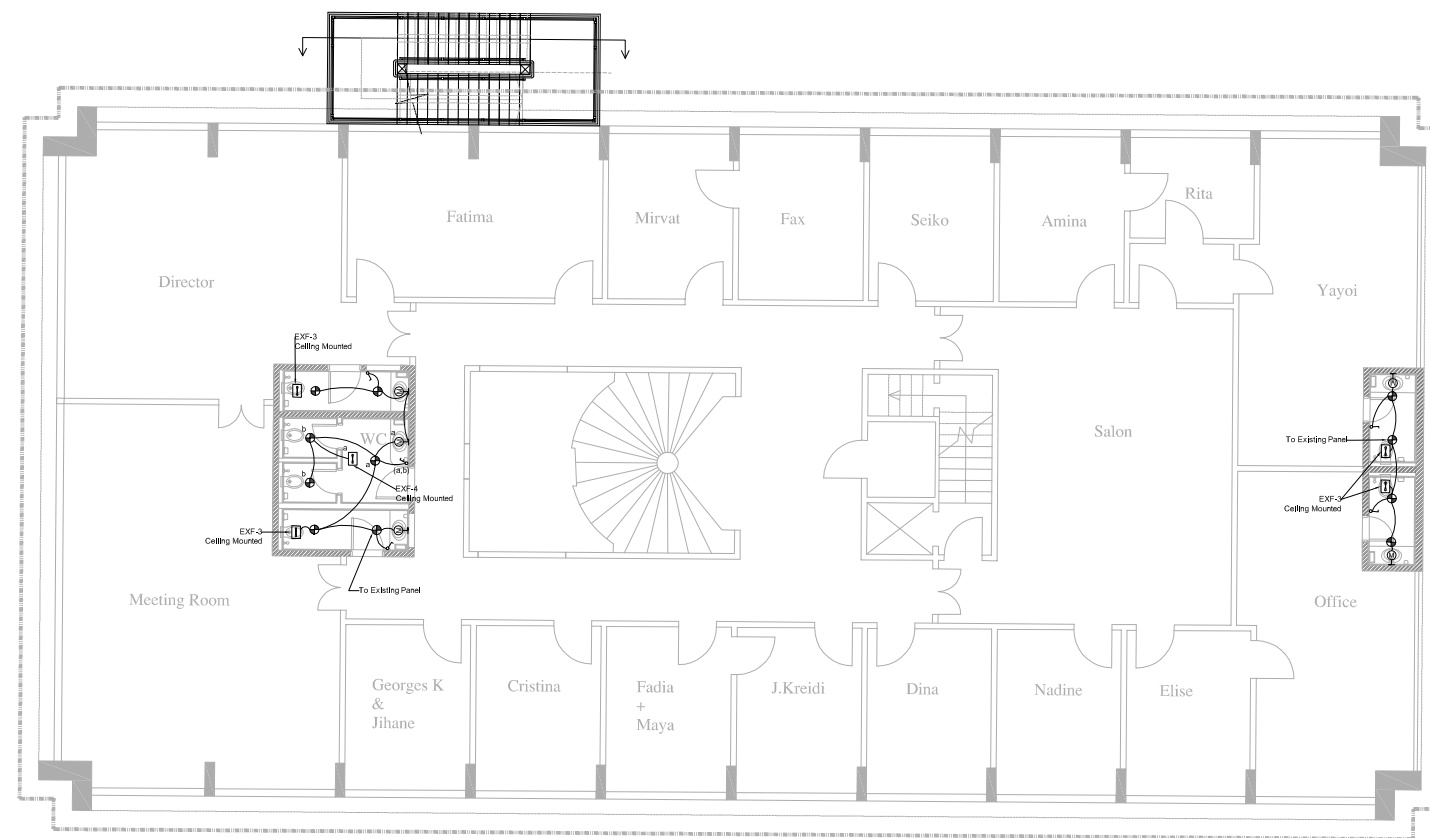
Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

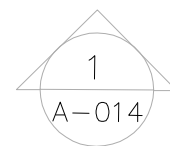
BIR HASAN
ANNEX-IX

Designed AK	Drawn AK
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: SECOND FLOOR LIGHTING LAYOUT	
Sheet No.: E-103	Revision No.: 01
General Location : Bir Hasan	



New Cl₁
(Mechanical)



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(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

Designed AK	Drawn AK
Approved AC	Checked AG

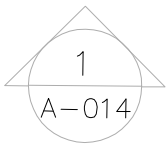
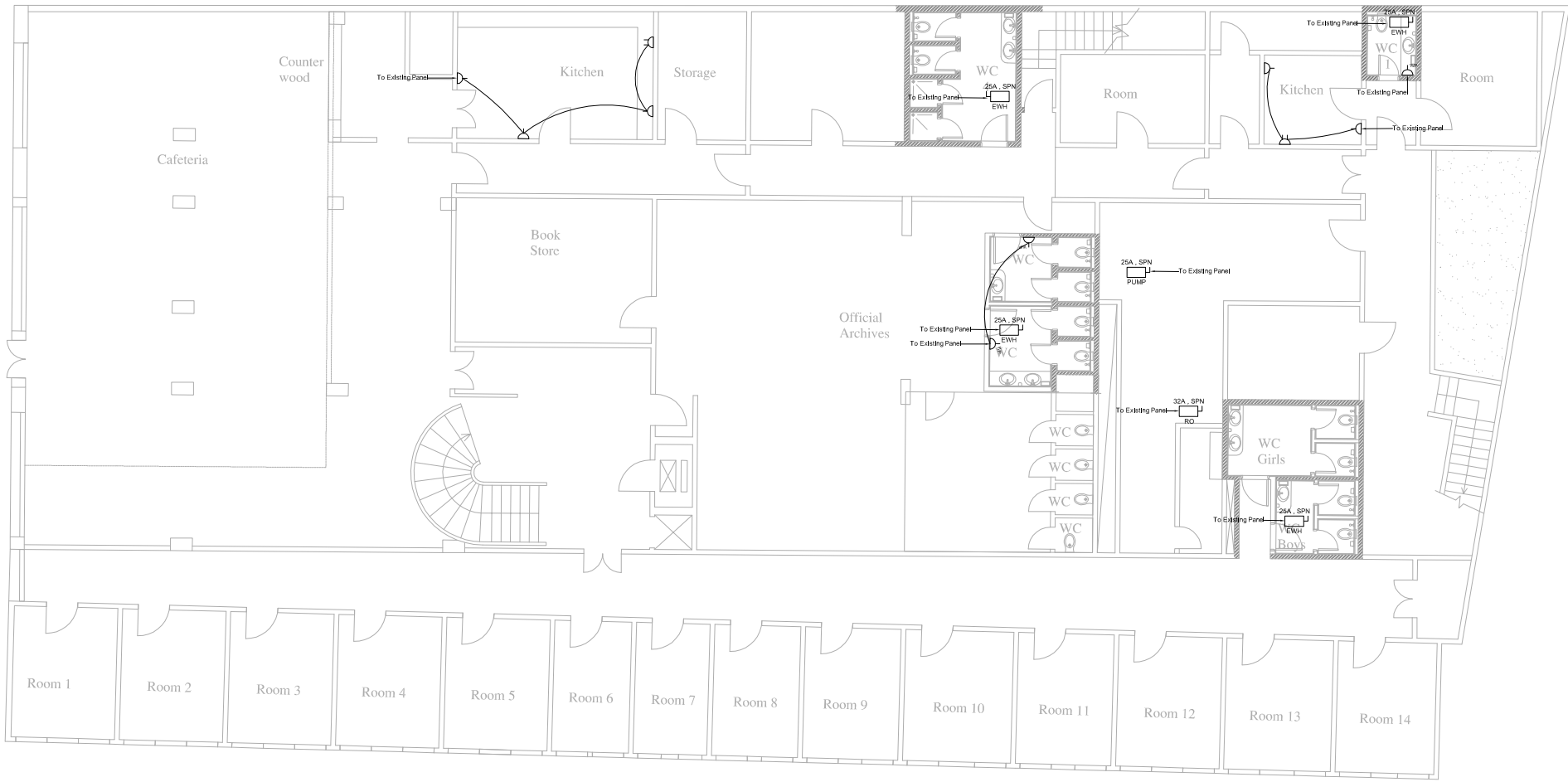
Scale 1/200	Date August 2019
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Project Number: TL1203

Sheet Title: THIRD FLOOR LIGHTING LAYOUT

Sheet No.: E-104	Revision No.: 01
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General Location : Bir Hasan



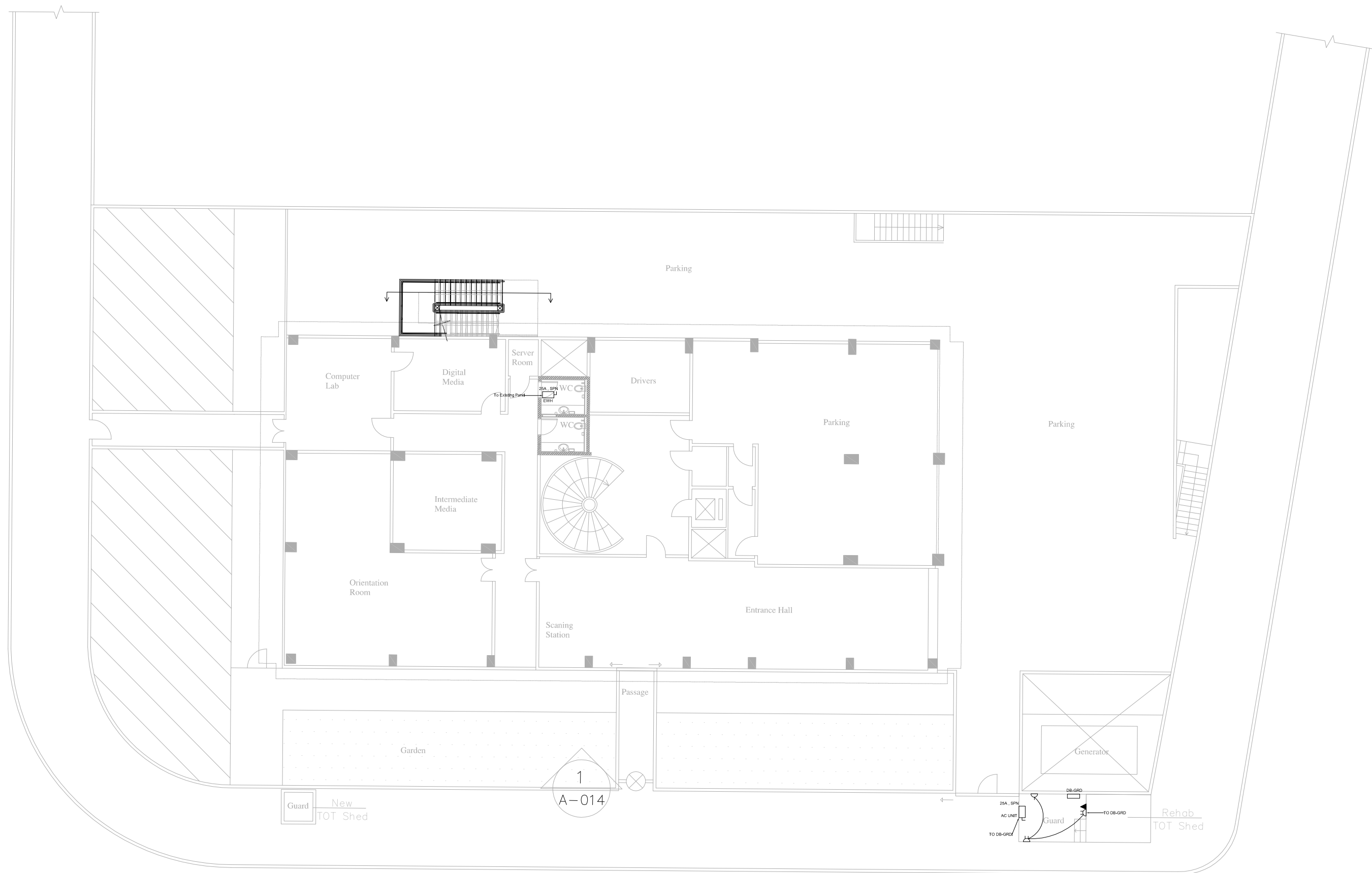
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BIR HASAN
ANNEX-IX

Designed AK	Drawn AK	Project Number: TL1203	
Approved AC	Checked AG	Sheet Title: BASEMENT FLOOR POWER LAYOUT	
Scale 1/200	Date August 2019	Sheet No.: E-200	Revision No.: 01
General Location : Bir Hasan			



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BIR HASAN

ANNEX-IX

Designed

AK

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AC

Scale

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Drawn

AK

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Date

August 2019

Project Number:

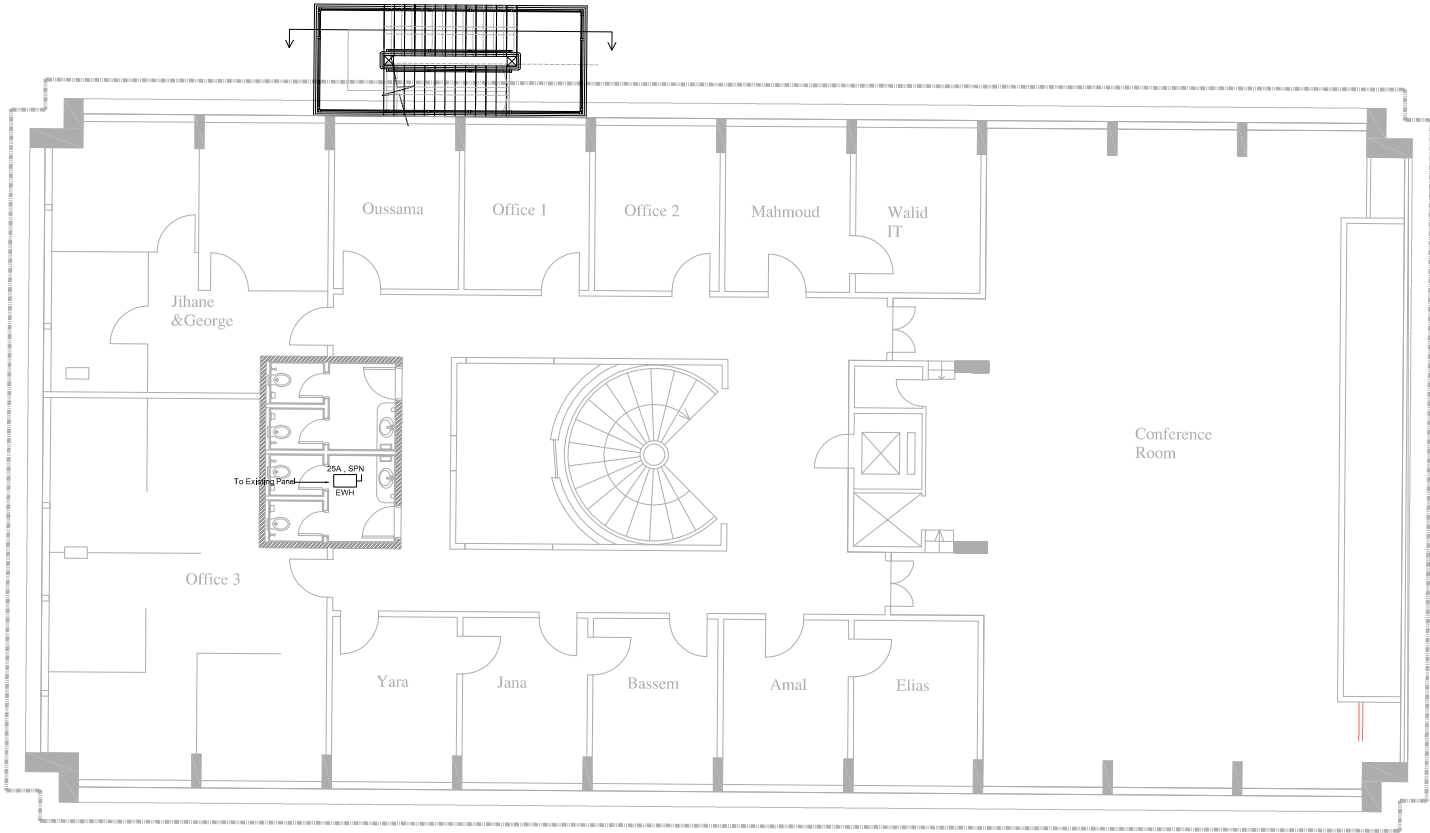
TL1203

Sheet Title: GROUND FLOOR LIGHTING LAYOUT

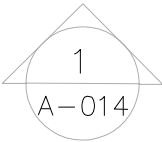
Sheet No.: E-201

Revision No.: 01

General Location : Bir Hasan



New Cladding
(Mechanical Fixation) -----



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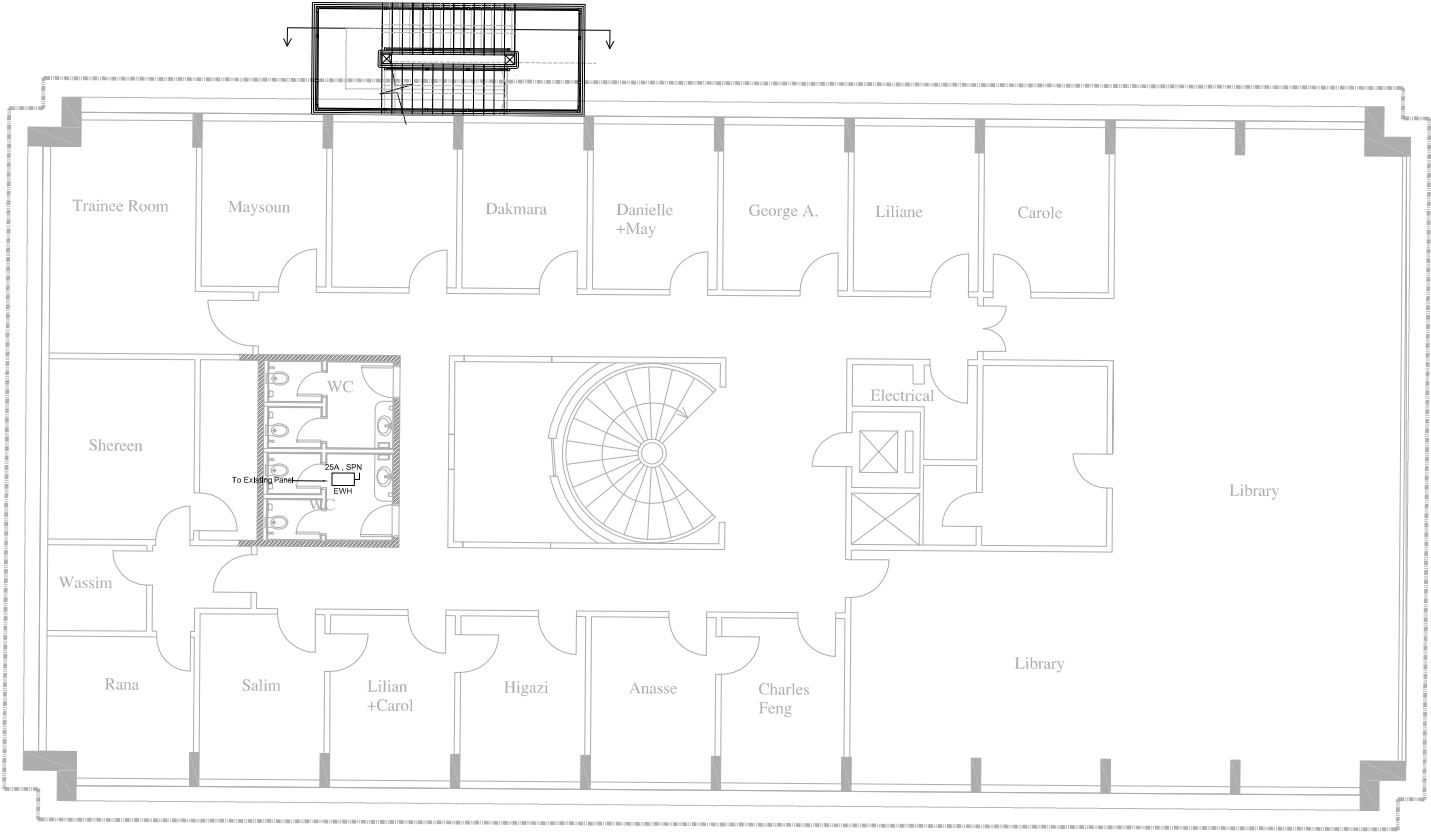


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(Contract No. 4500398541)

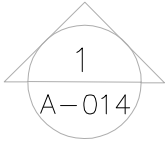
BIR HASAN
ANNEX-IX

Designed AK	Drawn AK
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: FIRST FLOOR LIGHTING LAYOUT	
Sheet No.: E-202	Revision No.: 01
General Location : Bir Hasan	



New Cladding
(Mechanical Fixation) -----



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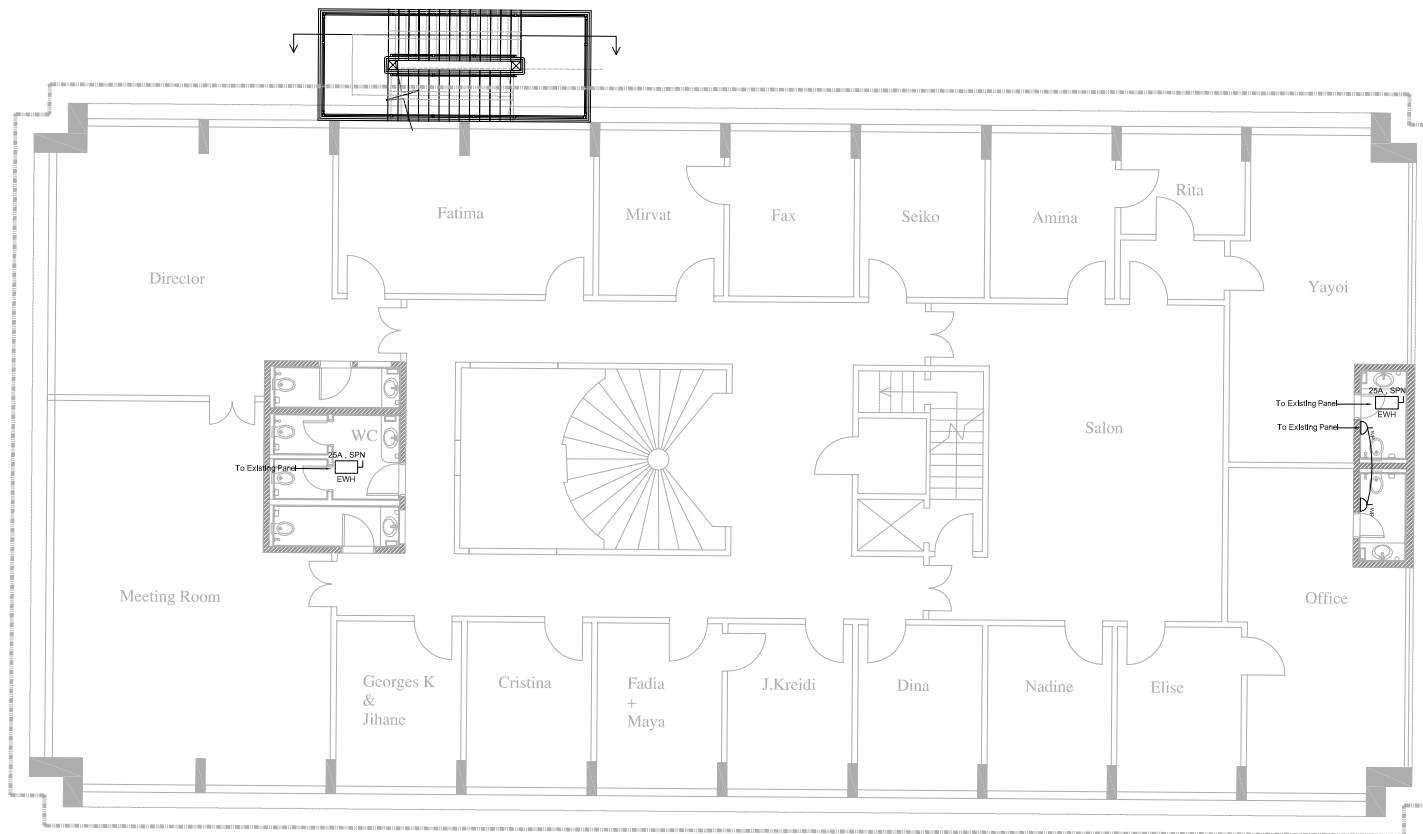
(Contract No. 4500398541)

BIR HASAN

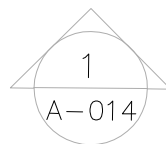
ANNEX-IX

Designed AK	Drawn AK
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: SECOND FLOOR LIGHTING LAYOUT	
Sheet No.: E-203	Revision No.: 01
General Location : Bir Hasan	



New Cl
(Mechanical)



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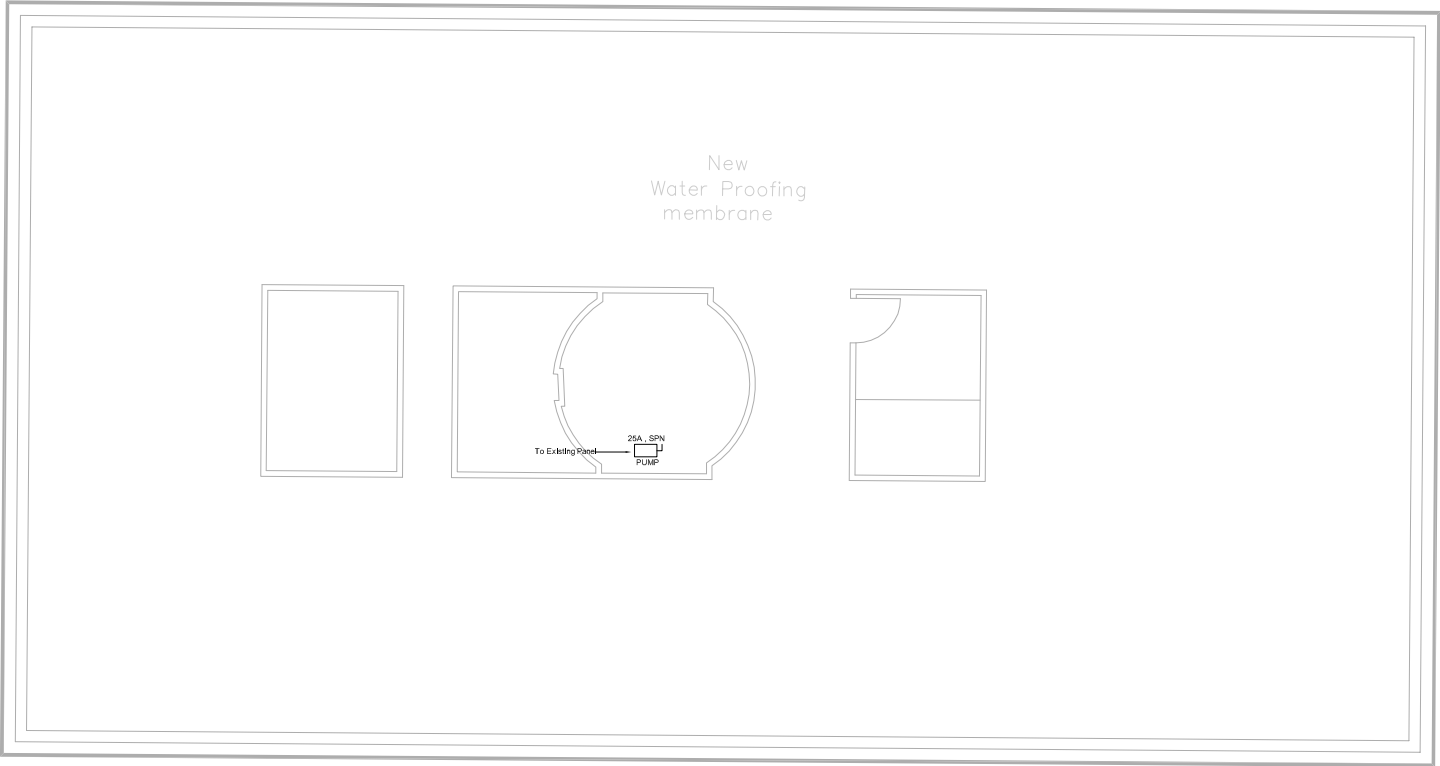
Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

BIR HASAN

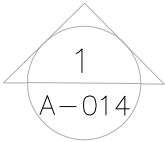
ANNEX-IX

Designed AK	Drawn AK	Project Number: TL1203	
Approved AC	Checked AG	Sheet Title: THIRD FLOOR LIGHTING LAYOUT	
Scale 1/200	Date August 2019	Sheet No.: E-204	Revision No.: 01
General Location : Bir Hasan			



New Plexi Shed

New Aluminum Handrail



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(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AK	Drawn AK
Approved AC	Checked AG

Scale 1/200	Date August 2019
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Project Number: TL1203	
Sheet Title: ROOF FLOOR LIGHTING LAYOUT	
Sheet No.: E-205	Revision No.: 01
General Location : Bir Hasan	

LIST OF DRAWINGS

M-000	List Of Drawings (LOD)
M-001	Legends
M-101	New Basement Floor Plan-Drainage Layout
M-102	New Ground Floor Plan-Drainage Layout
M-103	New First Floor Plan-Drainage Layout
M-104	New Second Plan-Drainage Layout
M-105	New Third Floor Plan-Drainage Layout
M-201	New Basement Floor Plan-Water Supply Layout
M-202	New Ground Floor Plan-Water Supply Layout
M-203	New First Floor Plan-Water Supply Layout
M-204	New Second Plan-Water Supply Layout
M-205	New Third Floor Plan-Water Supply Layout
M-206	New Roof Floor Plan-Water Supply Layout
M-301	New Basement Floor Plan-HVAC Layout
M-302	New Ground Floor Plan-HVAC Layout
M-303	New First Floor Plan-HVAC Layout
M-304	New Second Plan-HVAC Layout
M-305	New Third Floor Plan-HVAC Layout



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Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AH-TJ	Drawn AH-TJ
Approved AC	Checked AG

Scale NTS	Date August 2019
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Project Number: TL1203	
Sheet Title: List Of Drawing (LOD)	
Sheet No.: M-000	Revision No.: 01
General Location : Bir Hasan	

LEGENDS AND SYMBOLS

SYMBOL	DESCRIPTION
DP	Drain Pipe
CWS	Cold Water Supply
HWS	Hot Water Supply
	Floor Drain
	Floor Clean Out
ED	Exhaust Duct
EXF	Exhaust Fan
TYP	Typical
CDP	Condensate Drain Pipe

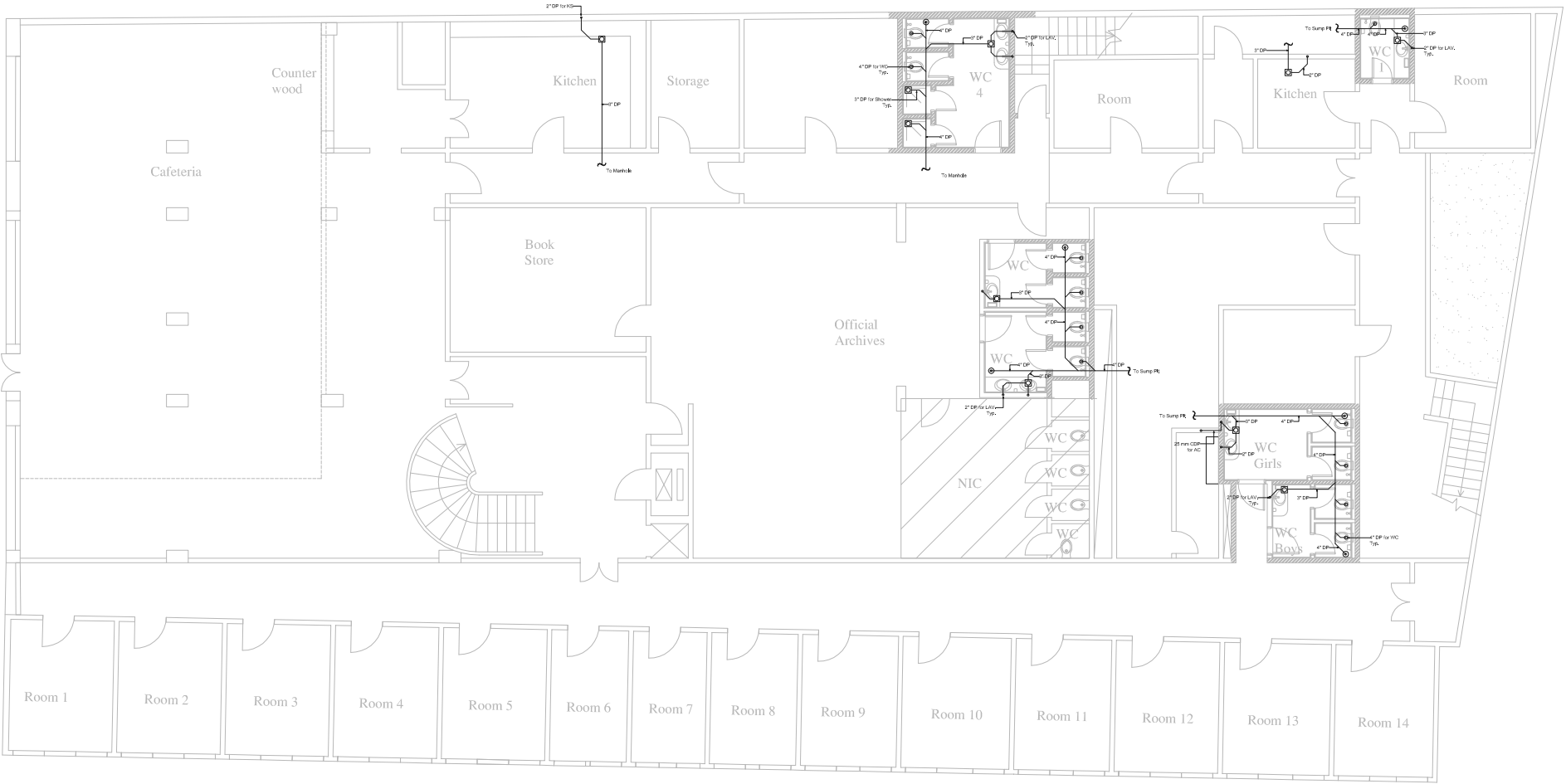
GENERAL NOTES

DRAINAGE GENERAL NOTES

- 1- THESE DRAWINGS SHALL BE USED FOR DRAINAGE PURPOSES ONLY , DO NOT SCALE FROM THESE DRAWINGS.
- 2- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS OF DIFFERENT TRADES FOR COORDINATION.
- 3- ALL EQUIPMENT & FIXTURES SHALL BE APPROVED BEFORE ORDERING.
- 4- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THREE SETS OF SHOP DRAWINGS SHOWING OPENINGS & SLEEVES IN CONCRETE WALLS & SLABS BEFORE WORK CAN BEGIN. HE SHALL ALSO PREPARE ANOTHER THREE SETS OF SHOP DRAWINGS FOR APPROVAL SHOWING THE SYSTEM EXACTLY IN PLACE.
- 5- ALL SLEEVES FOR SANITARY FIXTURES SHOULD BE CHECKED VERSUS THE SELECTED FIXTURES BEFORE POURING CONCRETE.
- 6- ALL LAVATORIES , URINALS , KITCHEN SINKS , FOUNTAINS DISCHARGE PIPE SIZE ARE 50mm. SIZE UNLESS INDICATED OTHERWISE.
- 7- ALL VERTICALLY INSTALLED ELBOWS AT HIGH LEVEL ON WASTE & SOIL PIPES SHALL BE COMPLETE WITH ACCESS BENDS.
- 8- ALL DRAINAGE RISER SHALL HAVE SIDE CLEANOUTS EVERY OTHER FLOOR.
- 9- ALL PVC PIPES CROSSING FIRE RATED WALLS SHALL HAVE FIRE STOPS.
- 10- THE CONTRACTOR SHALL PROVIDE MAINTENANCE ACCESS PANELS TO ALL CLEAN OUTS, AND WHEREVER NEEDED. LOCATION OF PANELS SHALL BE COORDINATED WITH THE INTERIOR DESIGNER.
- 11- ALL PIPES CROSSING CONCRETE EXPANSION JOINTS SHALL HAVE PIPE EXPANSION JOINTS.
- 12- ALL FLOOR DRAINS IN BATHROOM SHALL BE 75mm IN SIZE, UNLESS INDICATED OTHERWISE.

WATER SUPPLY GENERAL NOTES

- 1- THESE DRAWINGS SHALL BE USED FOR WATER SUPPLY PURPOSES ONLY, DO NOT SCALE FROM THESE DRAWINGS.
- 2- THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS OF DIFFERENT TRADES FOR COORDINATION PURPOSES.
- 3- ALL EQUIPMENT & FIXTURES SHALL BE APPROVED BEFORE ORDERING.
- 4- THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THREE SETS OF SHOP DRAWINGS SHOWING OPENINGS & SLEEVES IN CONCRETE WALLS & SLABS BEFORE WORK CAN BEGIN. HE SHALL ALSO PREPARE ANOTHER THREE SETS OF SHOP DRAWINGS FOR APPROVAL SHOWING THE SYSTEM EXACTLY IN PLACE.
- 5- ALL PIPES CROSSING CONCRETE EXPANSION JOINTS SHALL HAVE PIPE EXPANSION JOINTS.
- 6- ALL VALVES HAVE THE SAME SIZE AS THE PIPE SERVED UNLESS INDICATED OTHERWISE.
- 7- ALL PVC PIPES CROSSING FIRE RATED WALLS SHALL HAVE FIRE STOPS.
- 8- THE CONTRACTOR SHALL PROVIDE MAINTENANCE ACCESS PANELS TO ALL VALVES, CLEANOUTS, AND WHEREVER NEEDED. LOCATION OF PANELS SHALL BE COORDINATED WITH THE INTERIOR DESIGNER.
- 9- ALL SLEEVES SHOULD BE CHECKED BEFORE POURING CONCRETE.



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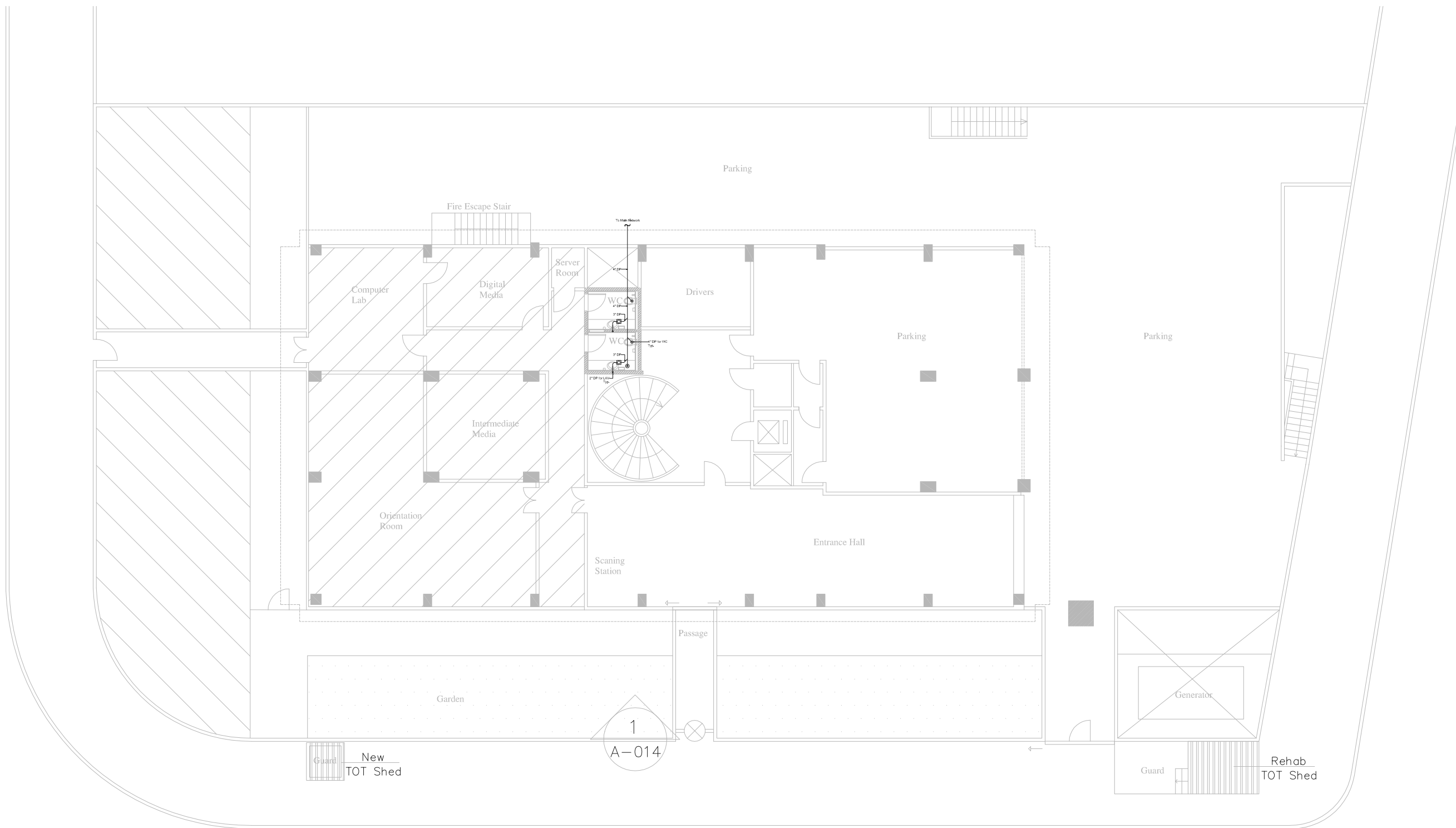


Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AH-TJ	Drawn AH-TJ
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: New Basement Floor Plan-Drainage Layout	
Sheet No.: M-101	Revision No.: 01
General Location : Bir Hasan	



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Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

Designed
AH-TJ

Approved
AC

Scale
1/200

Drawn
AH-TJ

Checked
AG

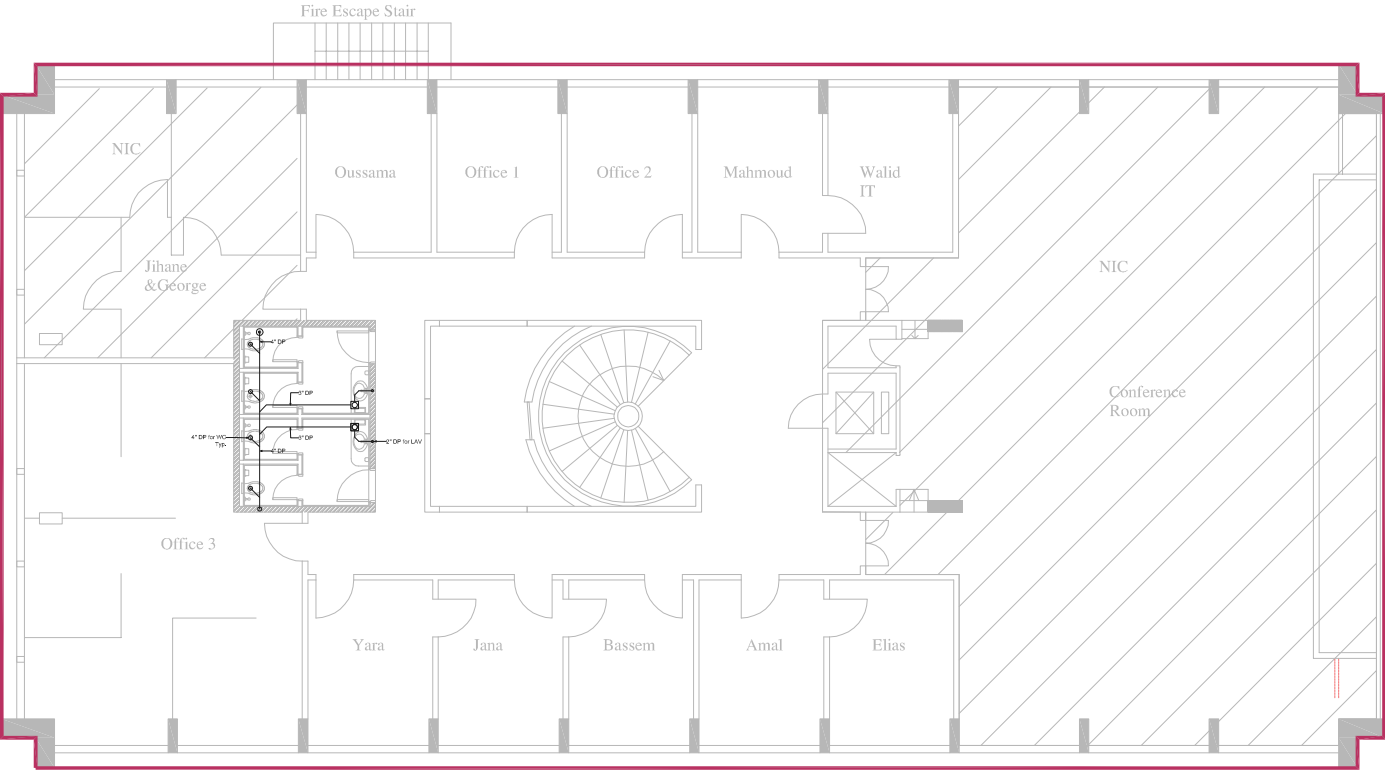
Date
August 2019

Project Number: TL1203

Sheet Title: New Ground Floor Plan-Drainage
Layout

Sheet No.: M-102 Revision No.: 01

General Location : Bir Hasan



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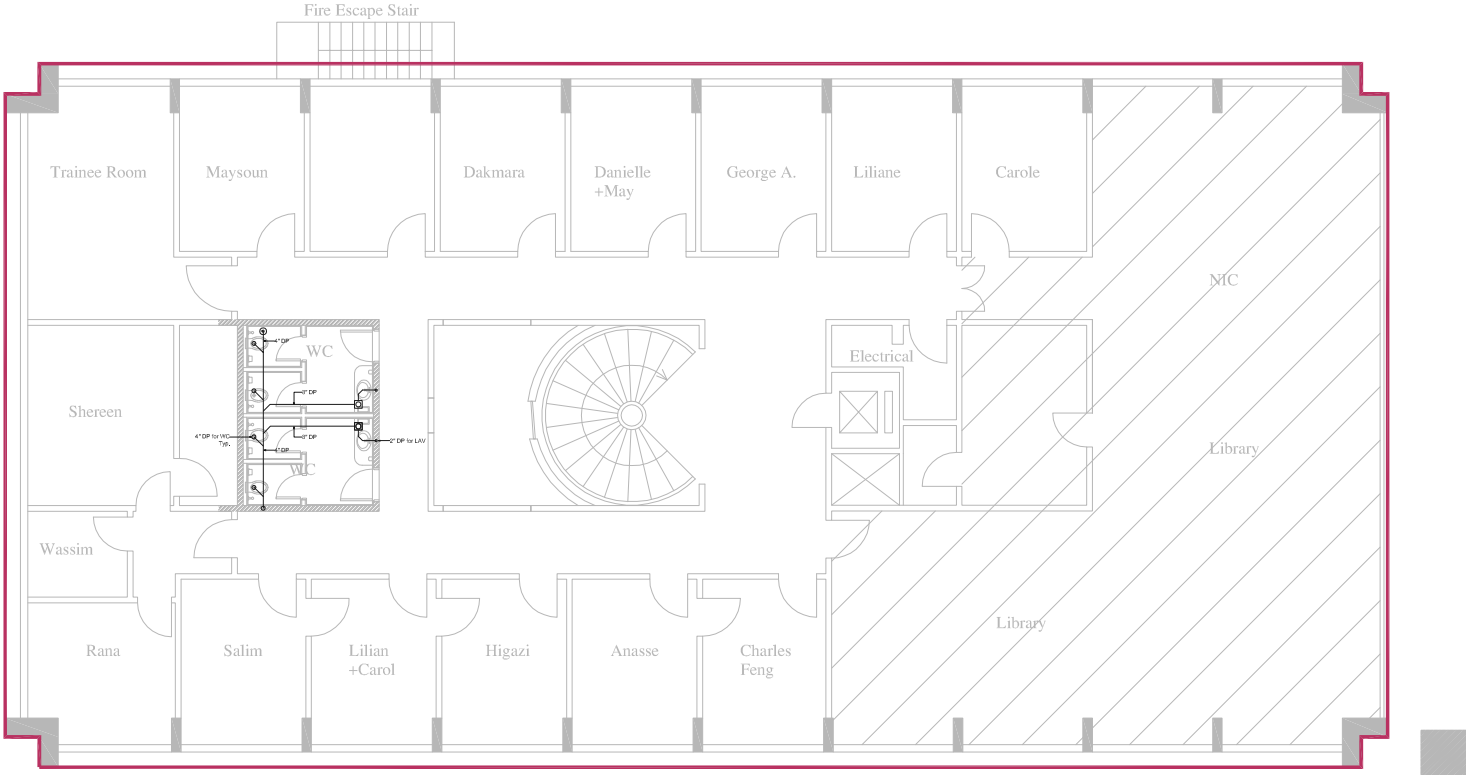


Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AH-TJ	Drawn AH-TJ
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: New First Floor Plan-Drainage Layout	
Sheet No.: M-103	Revision No.: 01
General Location : Bir Hasan	



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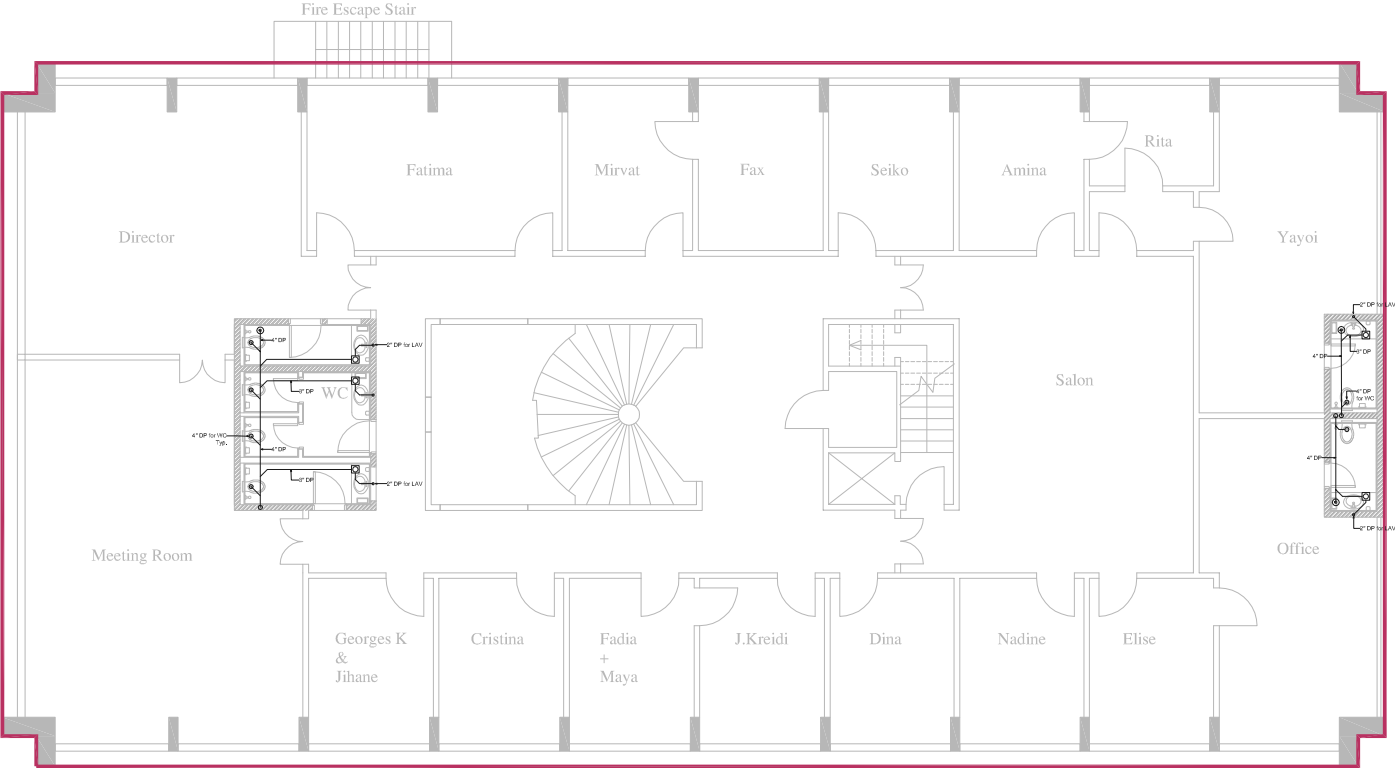


Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AH-TJ	Drawn AH-TJ
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: New Second Floor Plan-Drainage Layout	
Sheet No.: M-104	Revision No.: 01
General Location : Bir Hasan	



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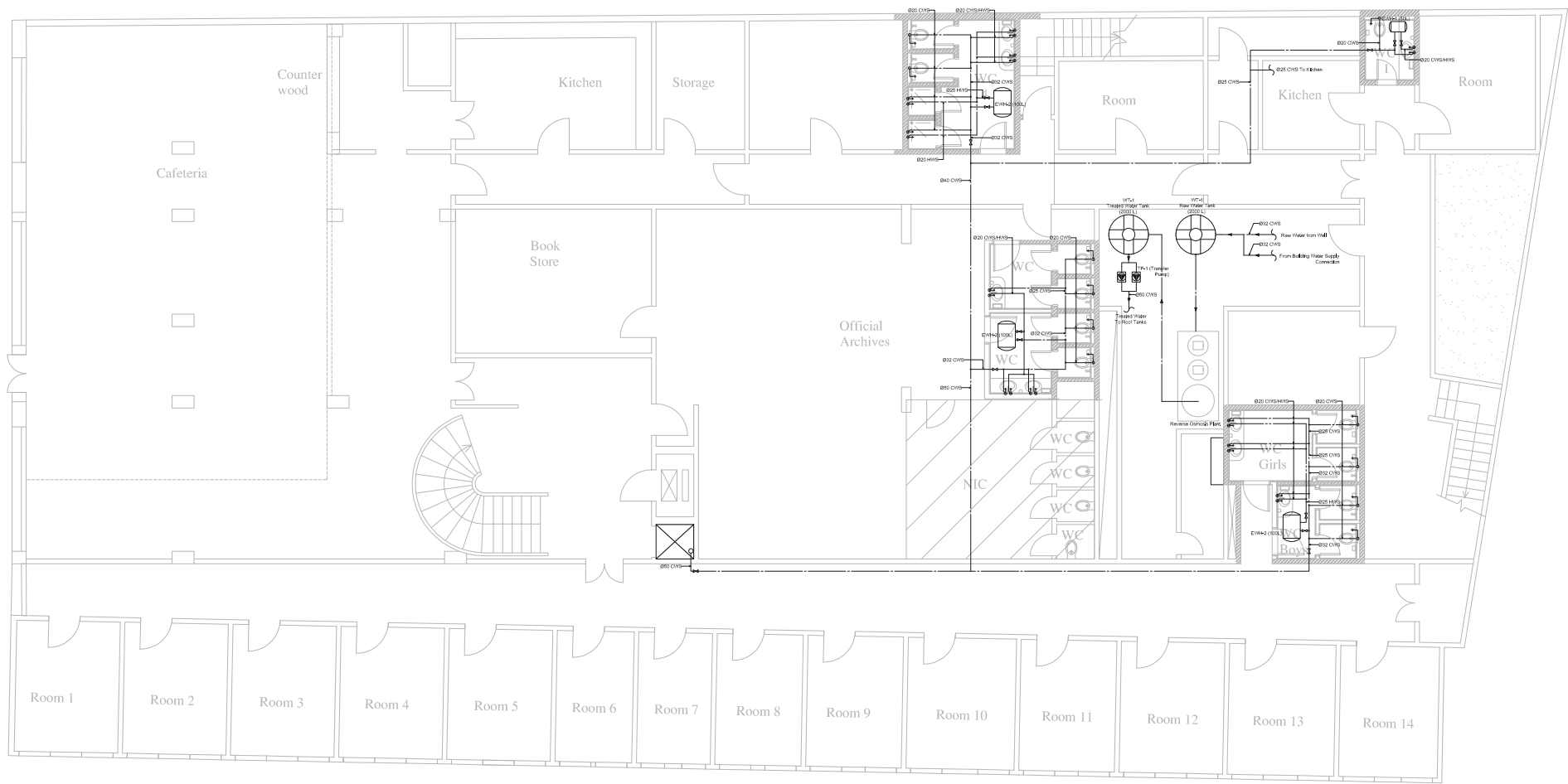


Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AH-TJ	Drawn AH-TJ
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: New Third Floor Plan-Drainage Layout	
Sheet No.: M-105	Revision No.: 01
General Location : Bir Hasan	



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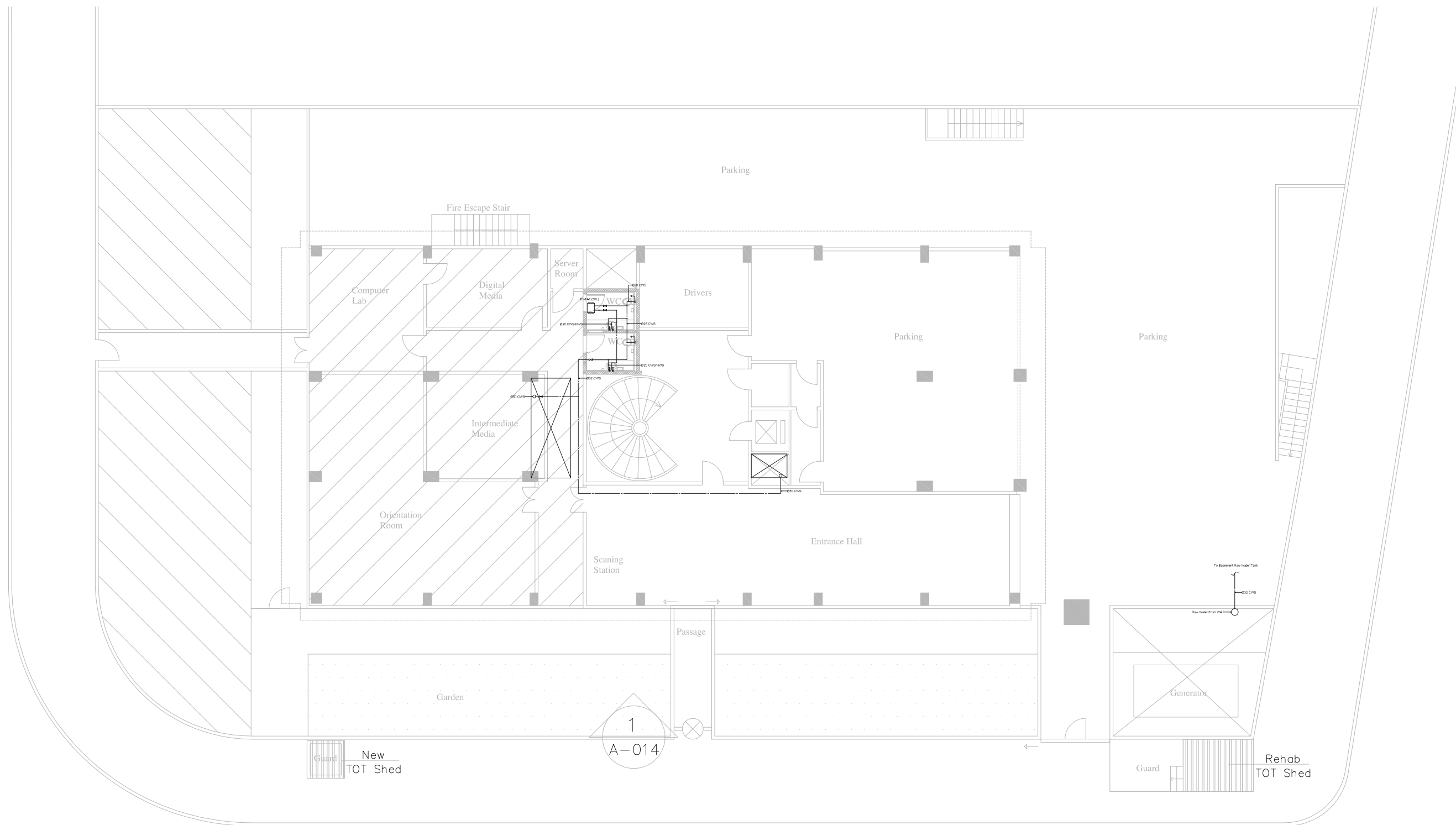


Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AH-TJ	Drawn AH-TJ
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: New Basement Floor Plan-Water Supply Layout	
Sheet No.: M-201	Revision No.: 01
General Location : Bir Hasan	



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Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

Designed
AH-TJ

Approved
AC

Scale
1/200

Drawn
AH-TJ

Checked
AG

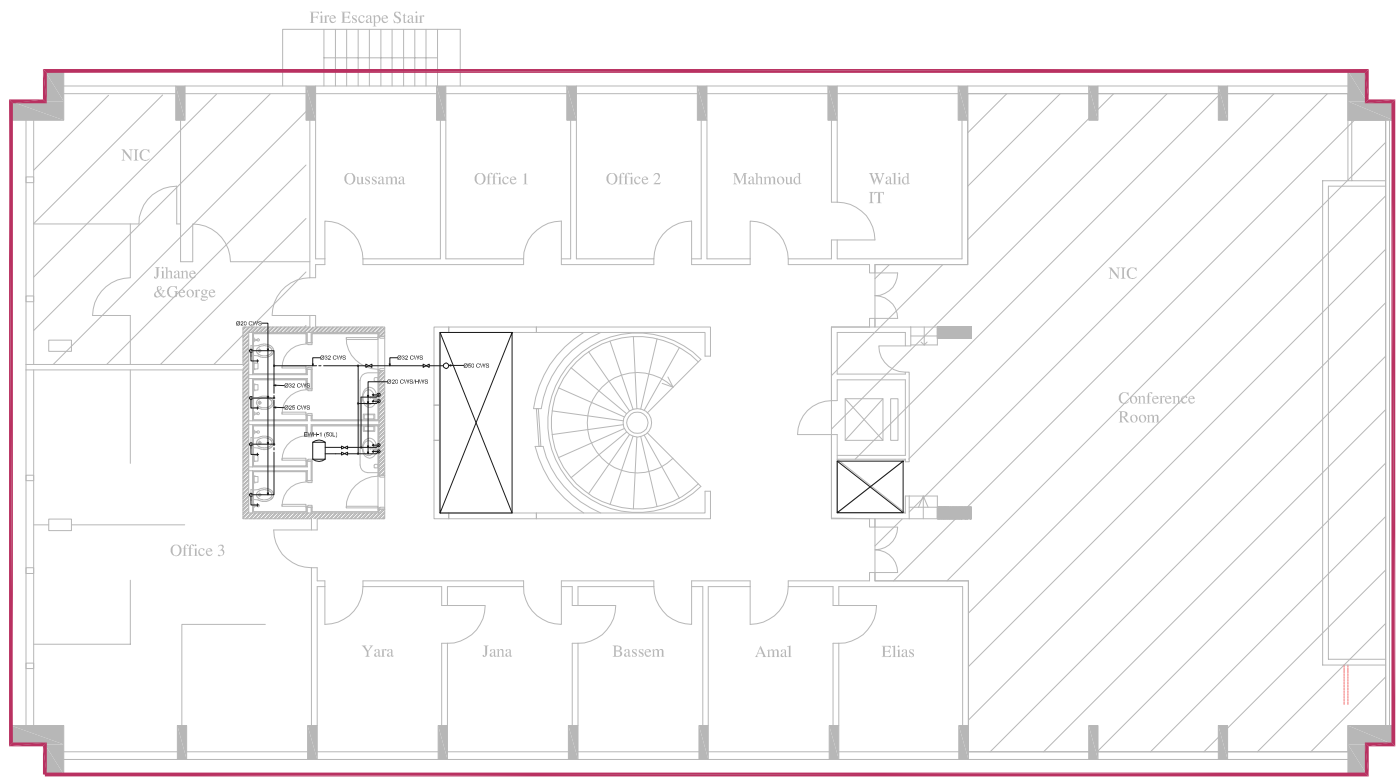
Date
August 2019

Project Number: TL1203

Sheet Title: New Ground Floor Plan-Water Supply Layout

Sheet No.: M-202 Revision No.: 01

General Location : Bir Hasan



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Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

Designed AH-TJ	Drawn AH-TJ
Approved AC	Checked AG

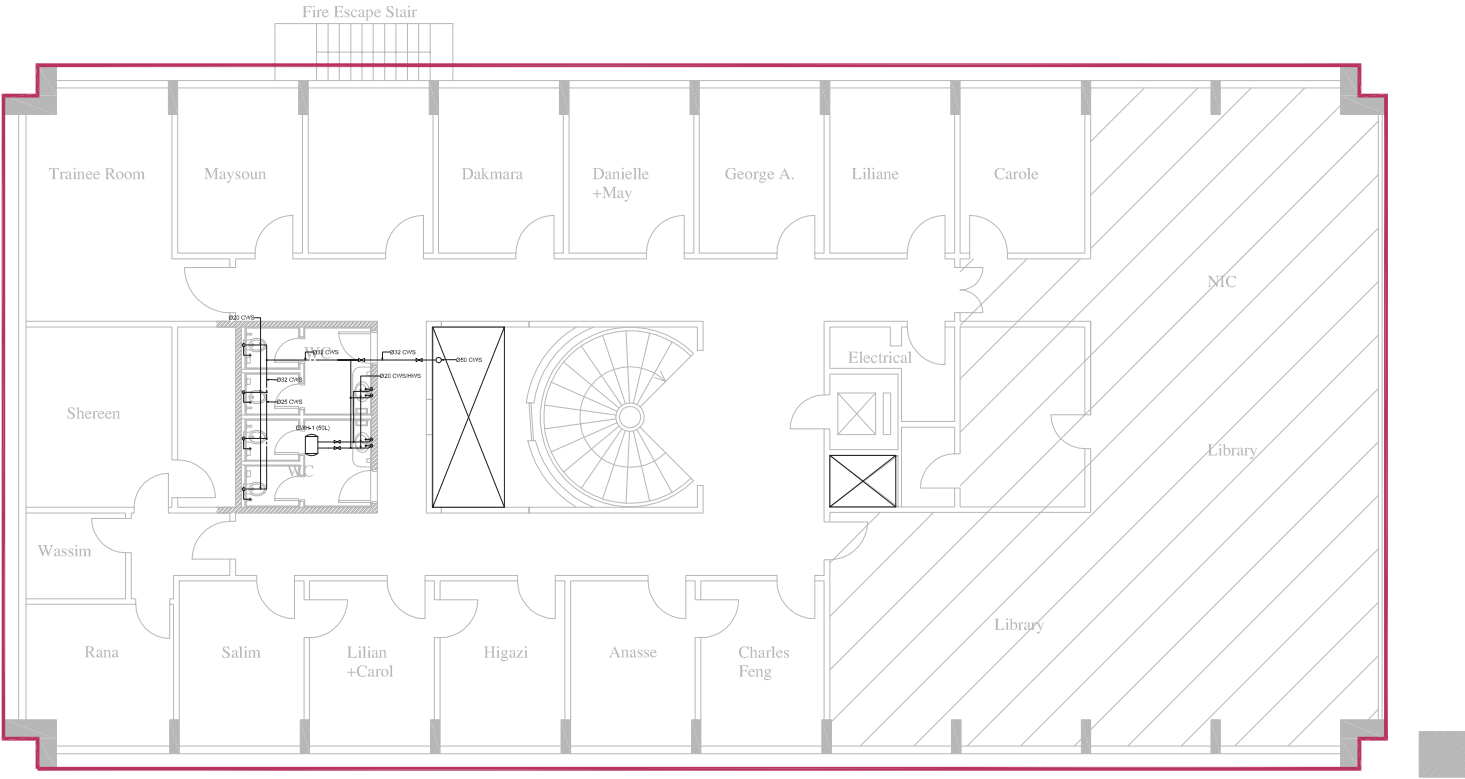
Scale 1/200	Date August 2019
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Project Number: TL1203

Sheet Title: New First Floor Plan-Water Supply Layout

Sheet No.: M-203	Revision No.: 01
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General Location : Bir Hasan



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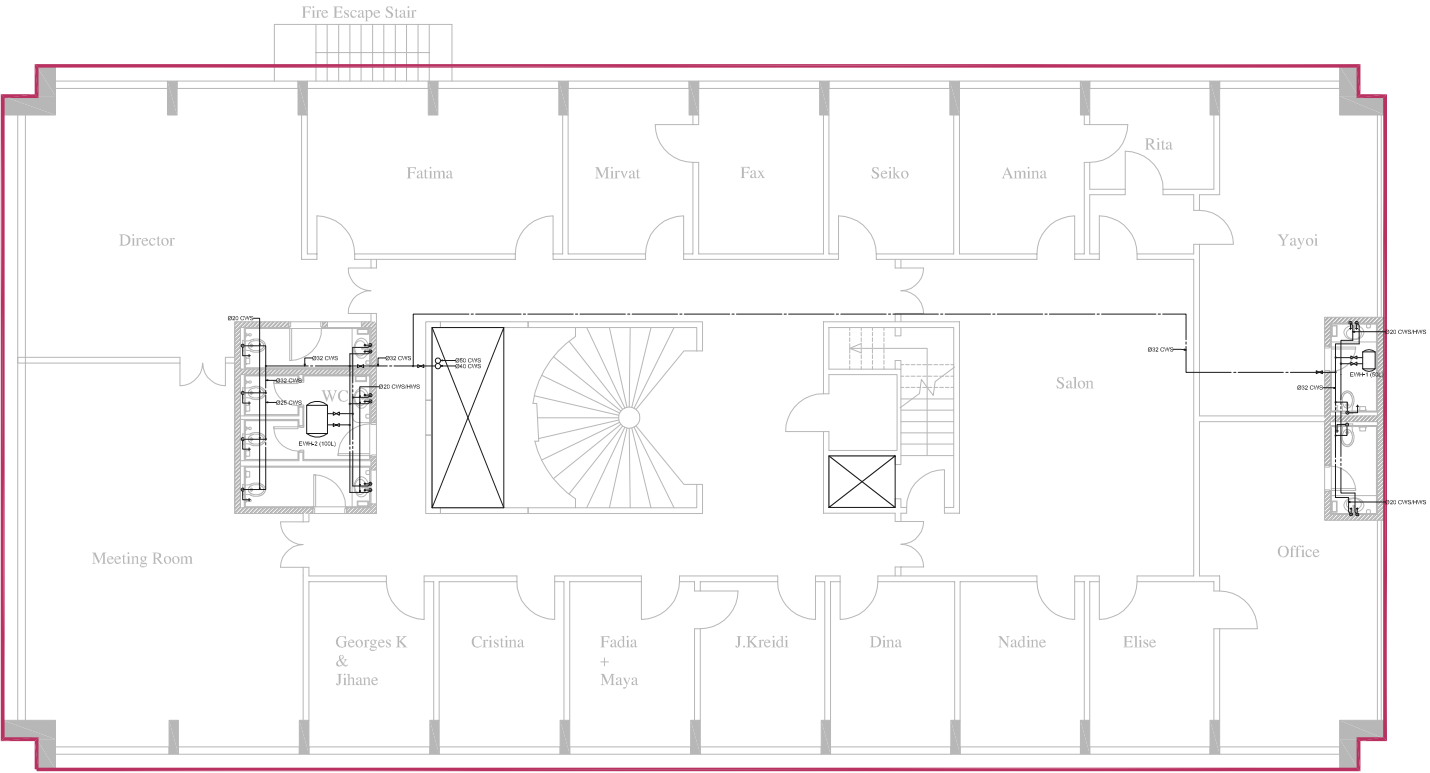


Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AH-TJ	Drawn AH-TJ
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: New Second Floor Plan-Water Supply Layout	
Sheet No.: M-204	Revision No.: 01
General Location : Bir Hasan	



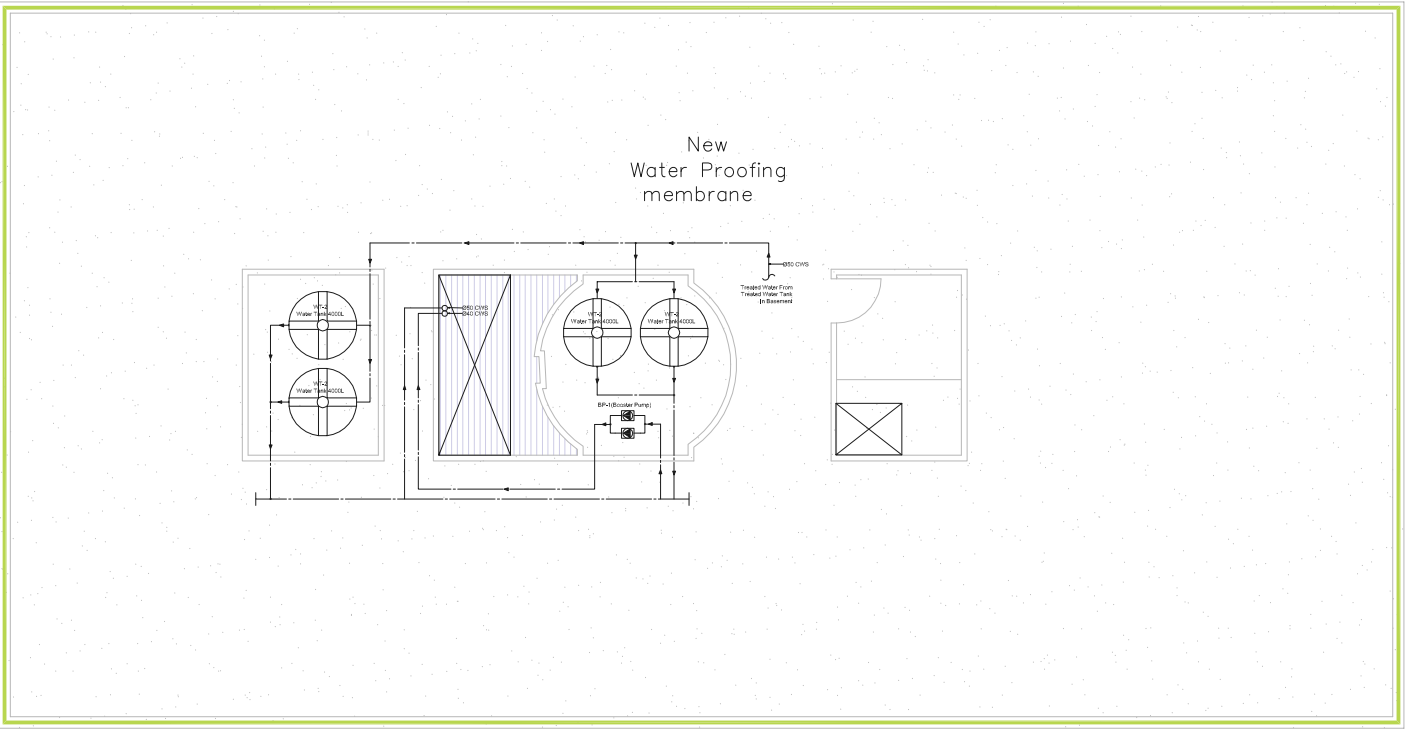
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Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AH-TJ	Drawn AH-TJ	Project Number: TL1203	
Approved AC	Checked AG	Sheet Title: New Third Floor Plan-Water Supply Layout	
Scale 1/200	Date August 2019	Sheet No.: M-205	Revision No.: 01
General Location : Bir Hasan			



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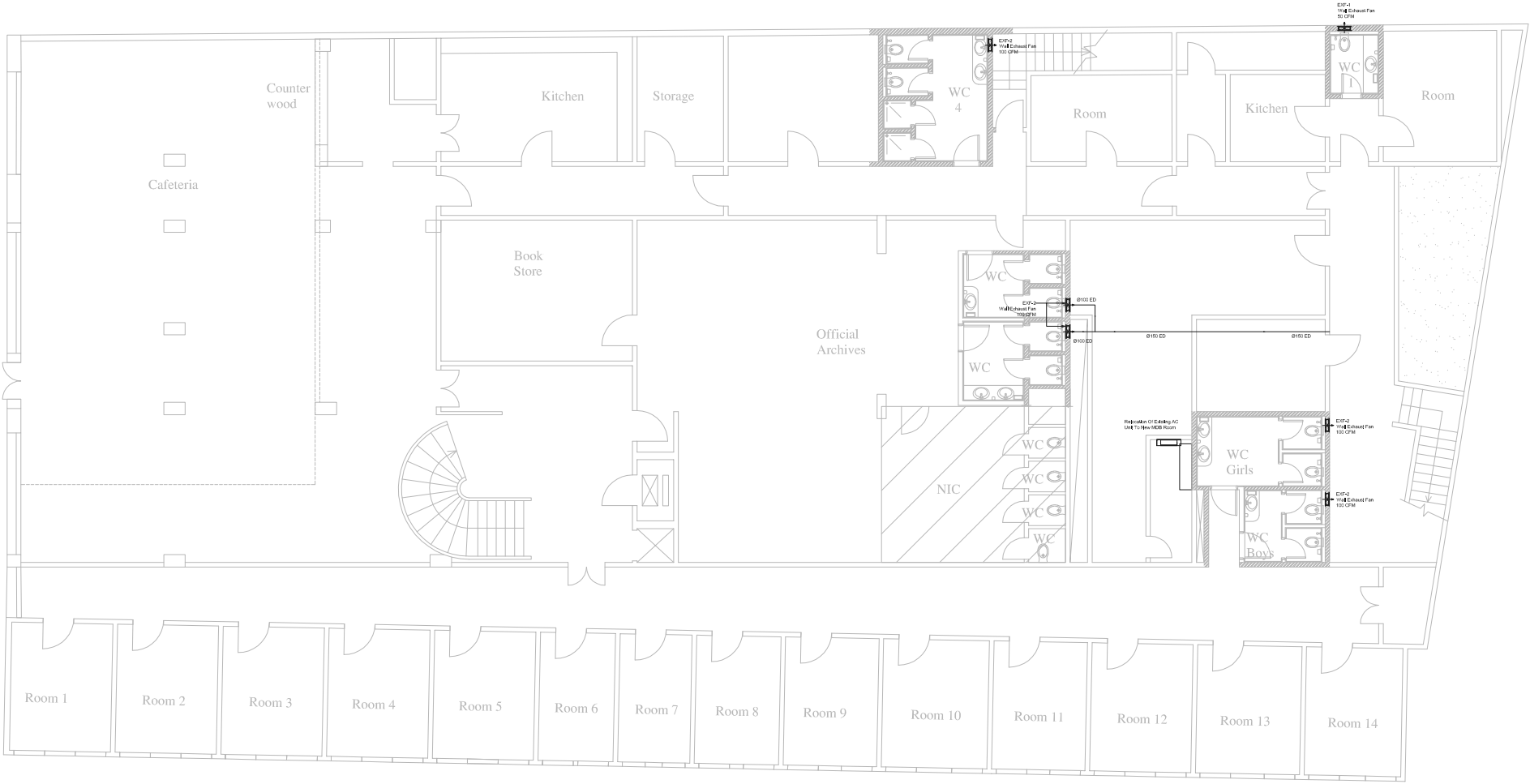


Rehabilitation of UNESCO Office Premises in Beirut
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BIR HASAN
ANNEX-IX

Designed AH-TJ	Drawn AH-TJ
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: New Roof Floor Plan-Water Supply Layout	
Sheet No.: M-206	Revision No.: 01
General Location : Bir Hasan	



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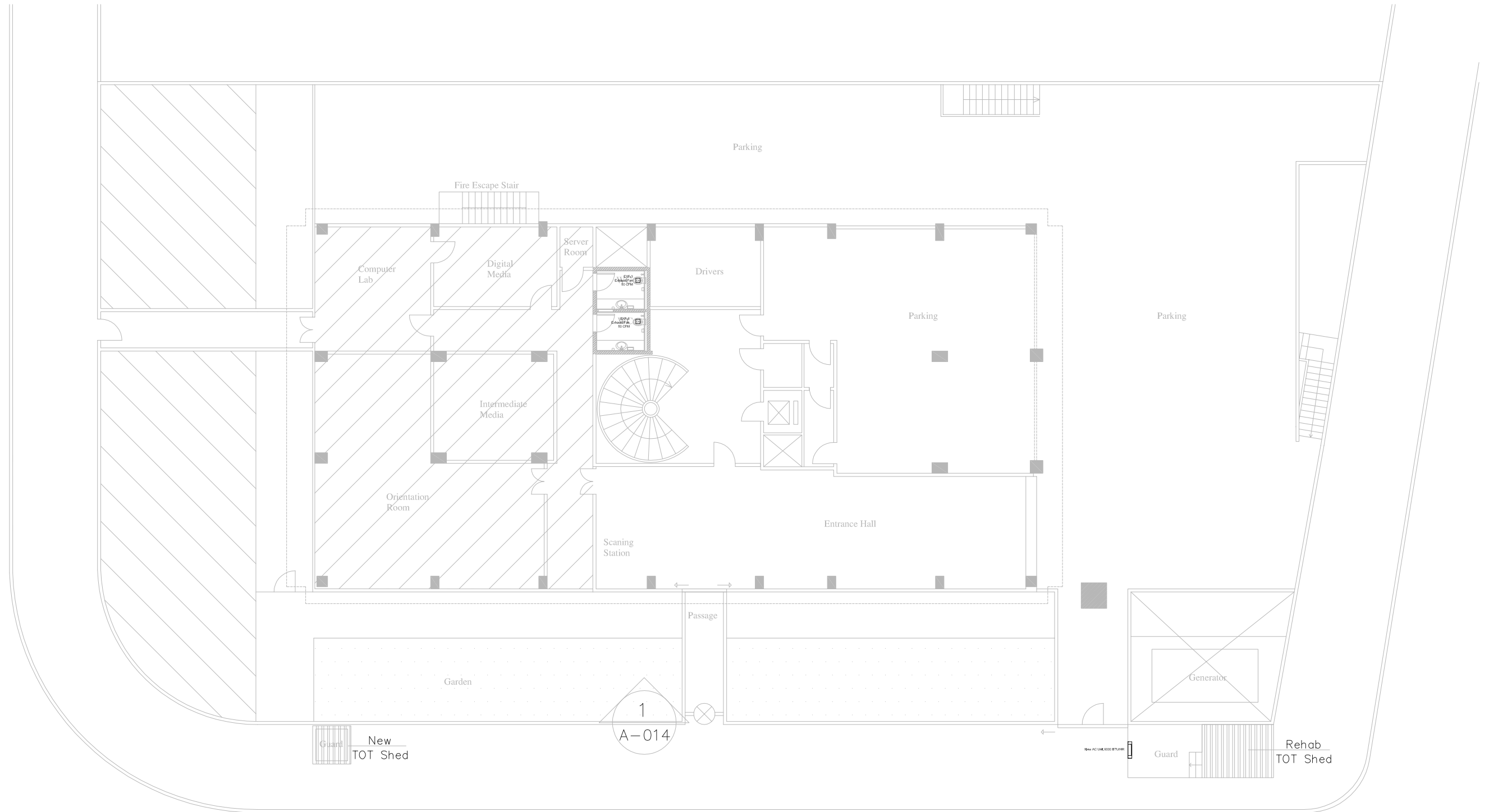


Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AH-TJ	Drawn AH-TJ
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: New Basement Floor Plan-HVAC Layout	
Sheet No.: M-301	Revision No.: 01
General Location : Bir Hasan	



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Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

Designed AH-TJ

Approved AC

Scale 1/200

Drawn AH-TJ

Checked AG

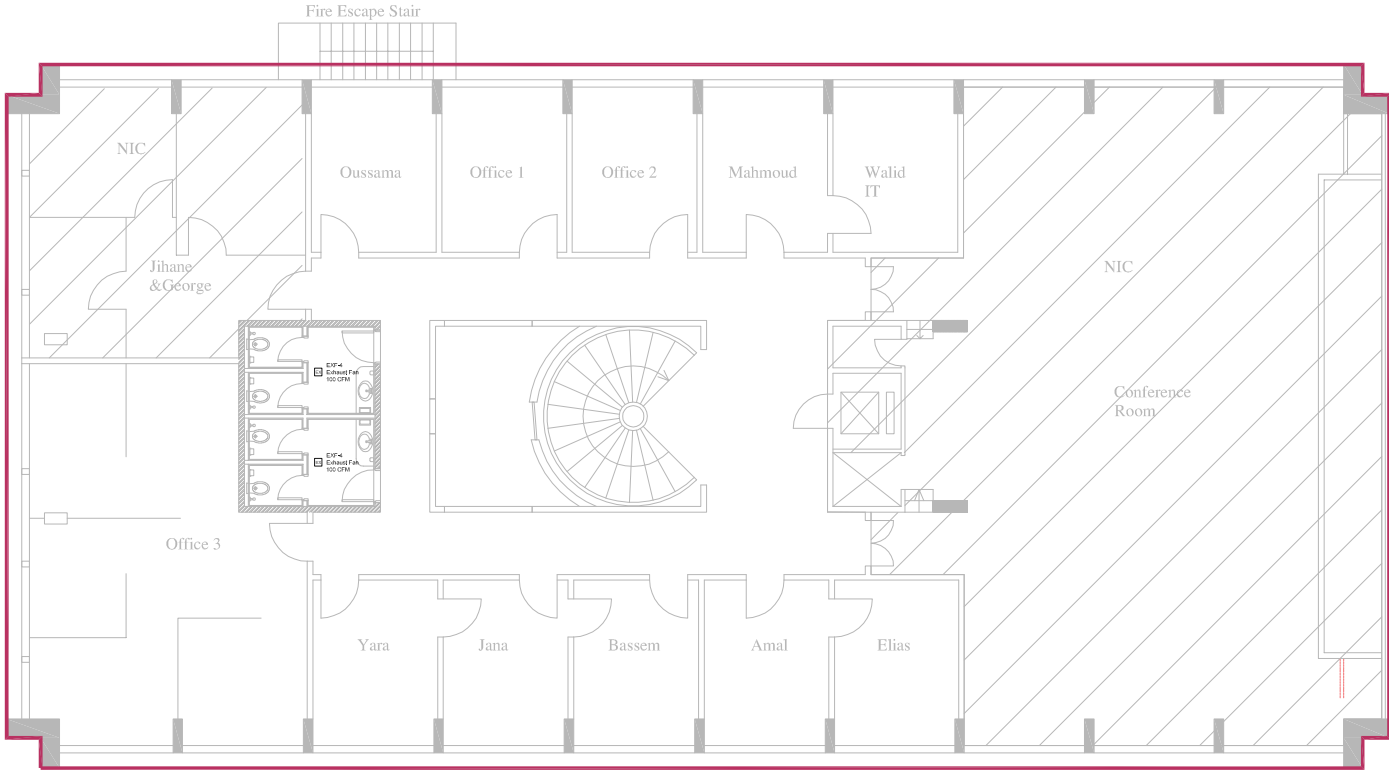
Date August 2019

Project Number: TL1203

Sheet Title: New Ground Floor Plan-HVAC Layout

Sheet No.: M-302 Revision No.: 01

General Location : Bir Hasan



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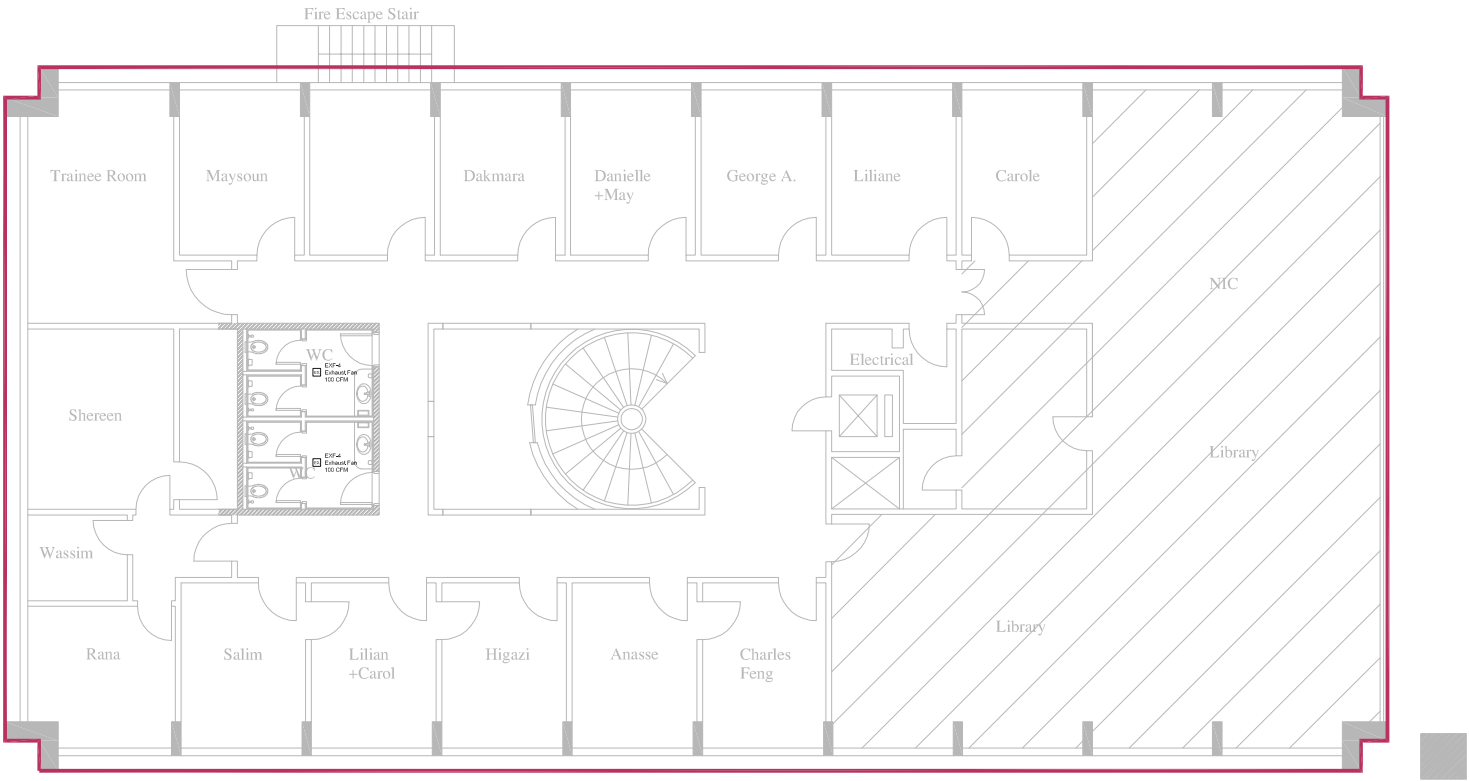


Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AH-TJ	Drawn AH-TJ
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: New First Floor Plan-HVAC Layout	
Sheet No.: M-303	Revision No.: 01
General Location : Bir Hasan	



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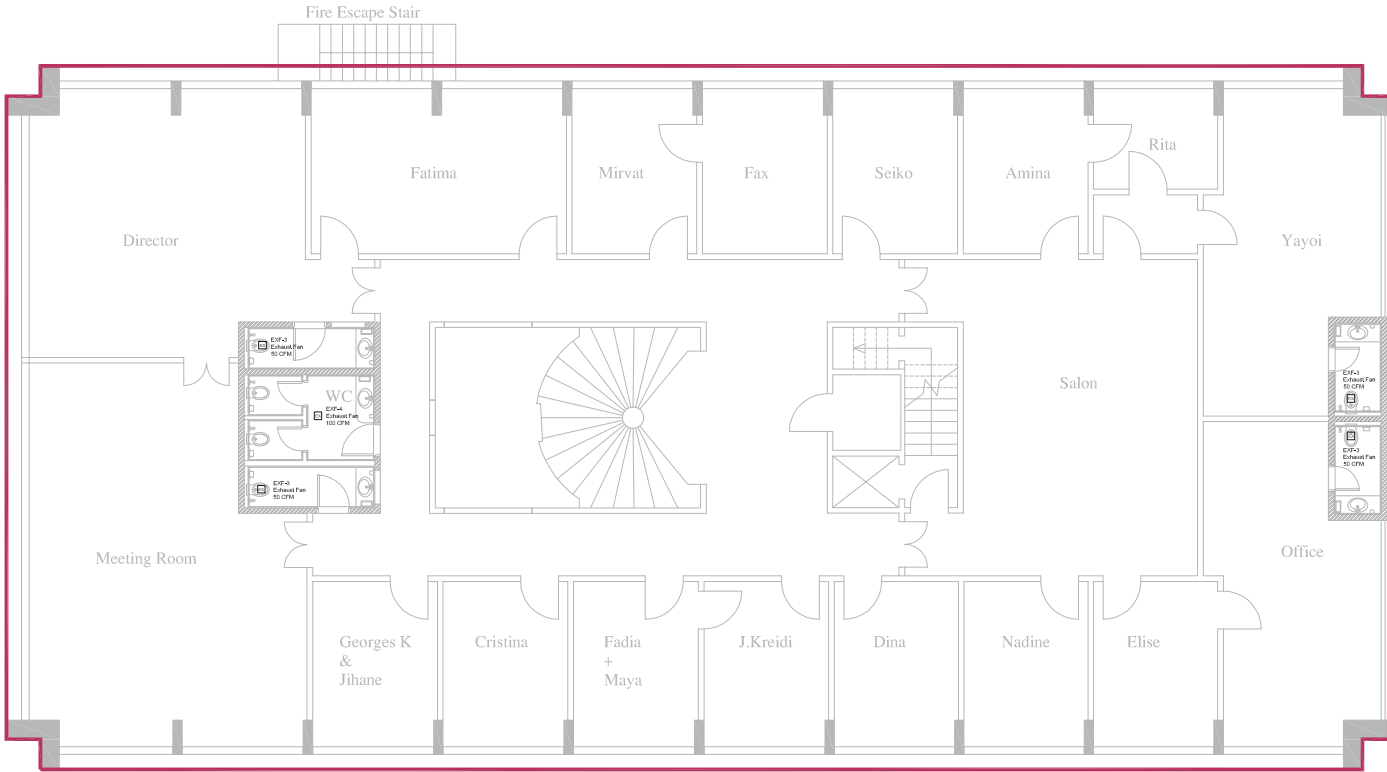


Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AH-TJ	Drawn AH-TJ
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: New Second Floor Plan-HVAC Layout	
Sheet No.: M-304	Revision No.: 01
General Location : Bir Hasan	



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Rehabilitation of UNESCO Office Premises in Beirut
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed AH-TJ	Drawn AH-TJ
Approved AC	Checked AG
Scale 1/200	Date August 2019

Project Number: TL1203	
Sheet Title: New Third Floor Plan-HVAC Layout	
Sheet No.: M-305	Revision No.: 01
General Location : Bir Hasan	

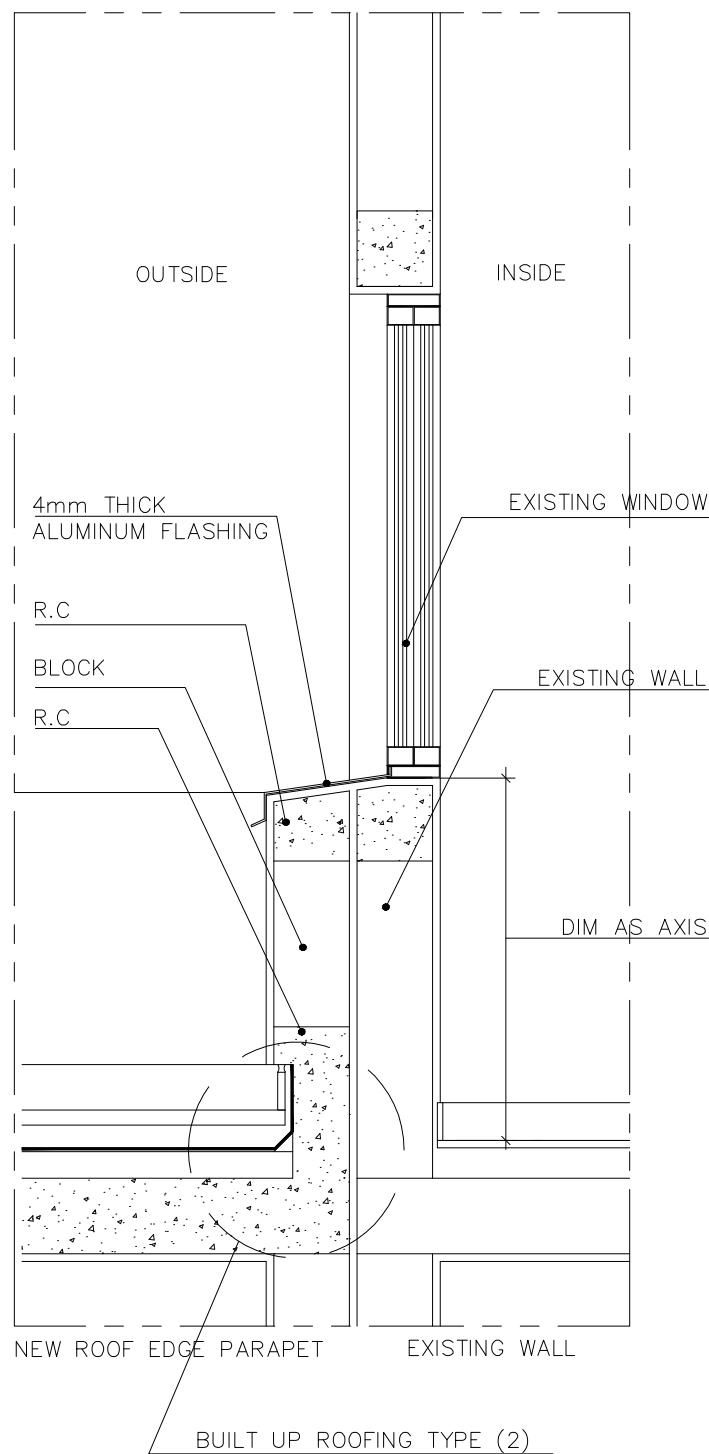
LIST OF DRAWINGS

A1000	LIST OF DRAWINGS (LOD)
A1101	PARAPETS AND BUILT UP ROOFING DETAILS
A1102	DAMP PROOF LAYERS AND BUILT UP ROOFING DETAILS 1/2
A1103	DAMP PROOF LAYERS AND BUILT UP ROOFING DETAILS 2/2
A1201	BRICK & CORRUGATED SHEETS ROOF DETAILS 1/4
A1202	BRICK & CORRUGATED SHEETS ROOF DETAILS 2/4
A1203	BRICK & CORRUGATED SHEETS ROOF DETAILS 3/4
A1204	BRICK & CORRUGATED SHEETS ROOF DETAILS 4/4
A1301	FOUNDATIONS DETAILS FOR STEEL COLUMNS
A1401	CHAIN LINK FENCE & GATES DETAILS 1/5
A1402	CHAIN LINK FENCE & GATES DETAILS 2/5
A1403	CHAIN LINK FENCE & GATES DETAILS 3/5
A1404	CONCRETE/STEEL FENCE & GATES DETAILS 4/5
A1405	CONCRETE/STEEL FENCE & GATES DETAILS 5/5
A1501	STEEL LADDER DETAILS
A1601	EXPANSION JOINTS/CONCRETE BENCH/BOILER ROOM–SHEET 1/2
A1602	EXPANSION JOINTS/CONCRETE BENCH/BOILER ROOM–SHEET 2/2
A1801	SANITARY FIXTURES DETAILS 1/2
A1802	SANITARY FIXTURES DETAILS 2/2
A1901	HANDRAIL AND PVC FLOORING DETAILS
A2001	KITCHEN DETAILS
A2101	RESIN DRINKING BASIN DETAIL
A2201	TOILET PARTITION & DOOR DETAILS
A2202	TOILET PARTITION & DOOR DETAILS
A2301	KG LAVATORY COUNTER AND MIRROR DETAILS 1/2
A2302	KG LAVATORY COUNTER AND MIRROR DETAILS 2/2
A2401	BURGLAR PROOF DOOR & PANEL DETAILS 1/2
A2402	BURGLAR PROOF DOOR & PANEL DETAILS 2/2
A2501	GLAZED ALUMINUM PANEL DETAILS
A2601	ROLLER SHADES DETAIL
A2701	COLORED EDUCATIONAL PANELS IN CLASSROOM
A2801	REFLECTED CEILING & GYPSUM BOARD PARTITIONS DETAILS
A2901	DOOR/WINDOW SCHEDULE 1/3
A2902	DOOR/WINDOW SCHEDULE 2/3
A2903	DOOR/WINDOW SCHEDULE 3/3
A3001	WATER TANK BASE/WATER CHANNEL DETAILS
A3101	STONE & CONCRETE REHABILITATION DETAILS 1/3
A3102	STONE & CONCRETE REHABILITATION DETAILS 2/3
A3103	STONE & CONCRETE REHABILITATION DETAILS 3/3

GM01	MECHANICAL LEGEND
GM02	MECHANICAL GENERAL NOTES
GM03	MISCELLANEOUS MECHANICAL DETAILS (1/5)
GM04	MISCELLANEOUS MECHANICAL DETAILS (2/5)
GM05	MISCELLANEOUS MECHANICAL DETAILS (3/5)
GM06	MISCELLANEOUS MECHANICAL DETAILS (4/5)
GM07	MISCELLANEOUS MECHANICAL DETAILS (5/5)

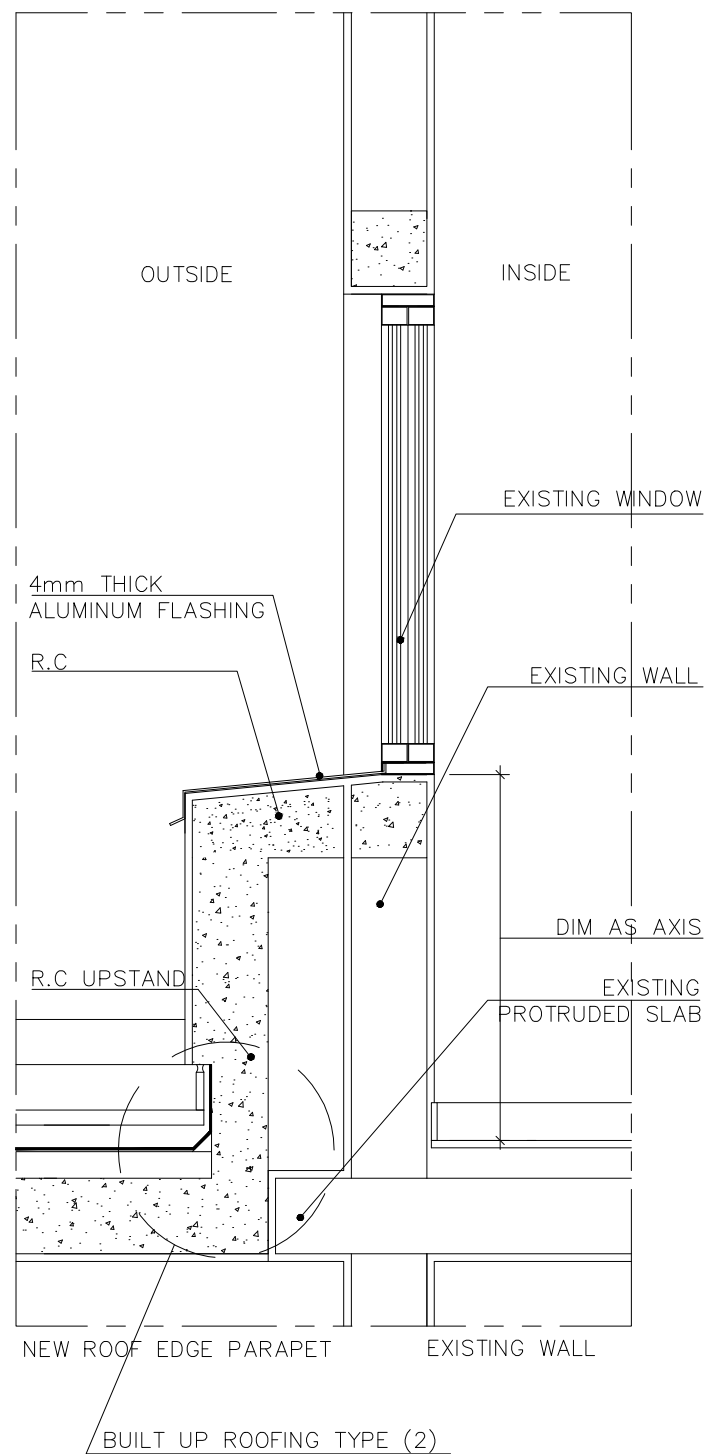
GE01	ELECTRICAL LEGEND (1/2)
GE02	ELECTRICAL LEGEND (2/2)
GE03	ELECTRICAL GENERAL NOTES
GE04	MISCELLANEOUS ELECTRICAL DETAILS (1/3)
GE05	MISCELLANEOUS ELECTRICAL DETAILS (2/3)
GE06	MISCELLANEOUS ELECTRICAL DETAILS (3/3)





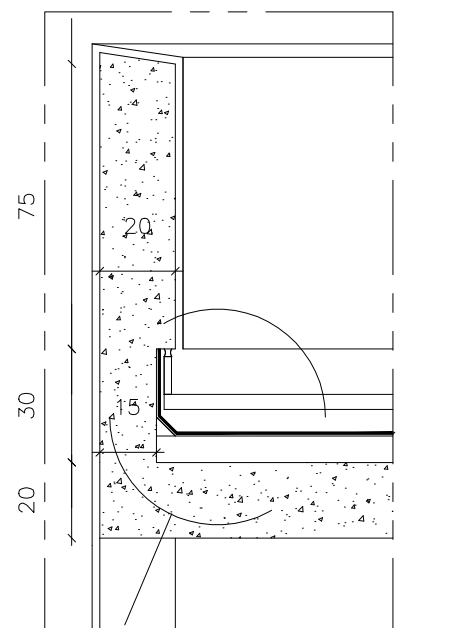
ROOF EDGE PARAPET DETAIL NEXT TO AN EXISTING WINDOW TYPE (2) SCALE 1/20

5



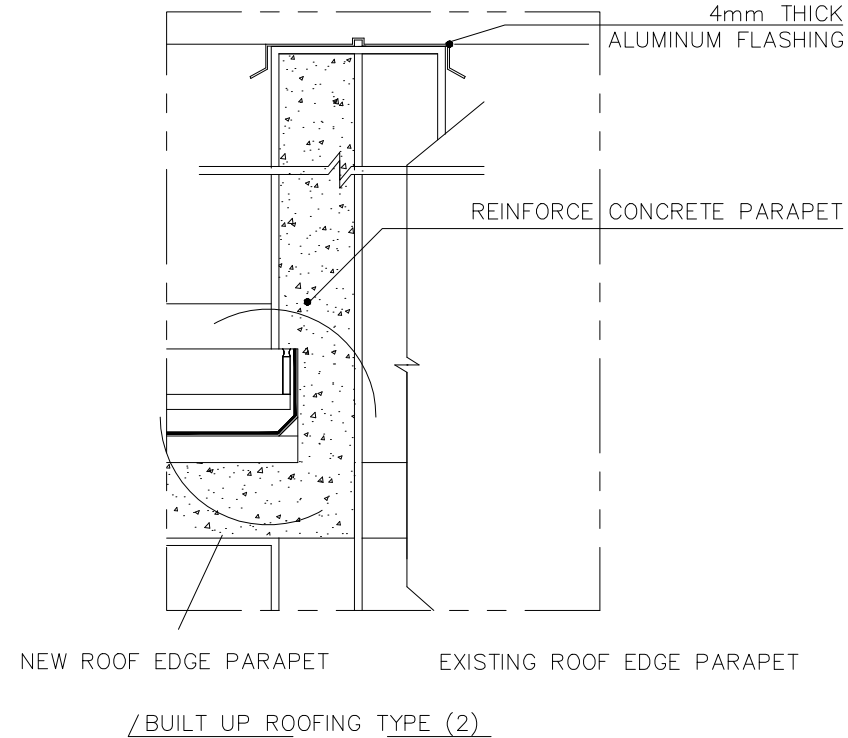
ROOF EDGE PARAPET DETAIL NEXT TO THE WINDOW WITH PROTRUDED SLAB TYPE (2) SCALE 1/20

4



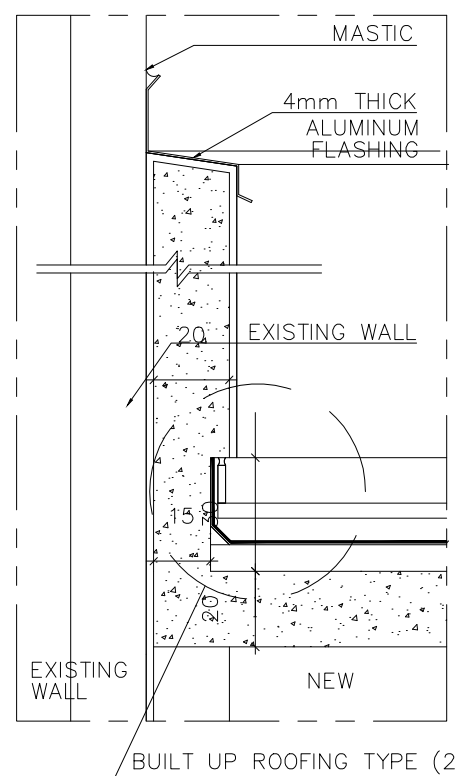
ACCESSIBLE ROOF EDGE PARAPET DETAIL TYPE (2) SCALE 1/20

7



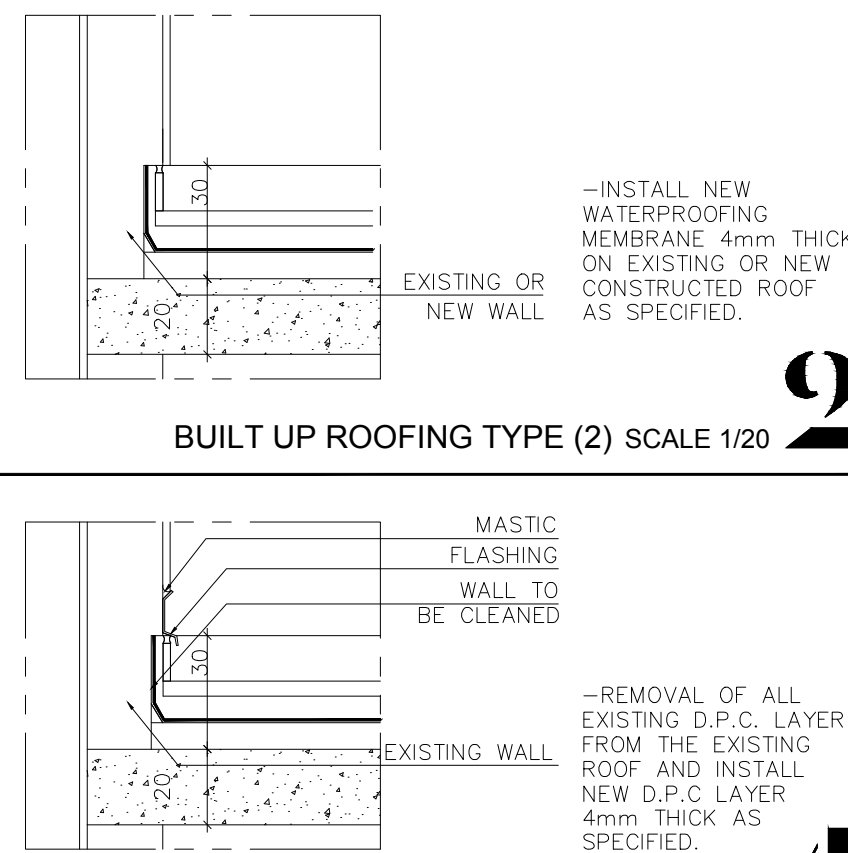
ROOF EDGE PARAPET DETAIL FOR NEW PARAPET NEXT TO AN EXISTING PARAPET TYPE (2) SCALE 1/20

6



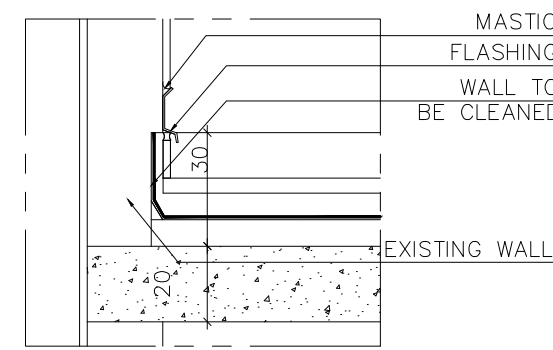
ROOF EDGE PARAPET DETAIL FOR NEW PARAPET NEXT TO EXISTING WALL TYPE (2) SCALE 1/20

3



BUILT UP ROOFING TYPE (2) SCALE 1/20

2



BUILT UP ROOFING TYPE (1) SCALE 1/20

1



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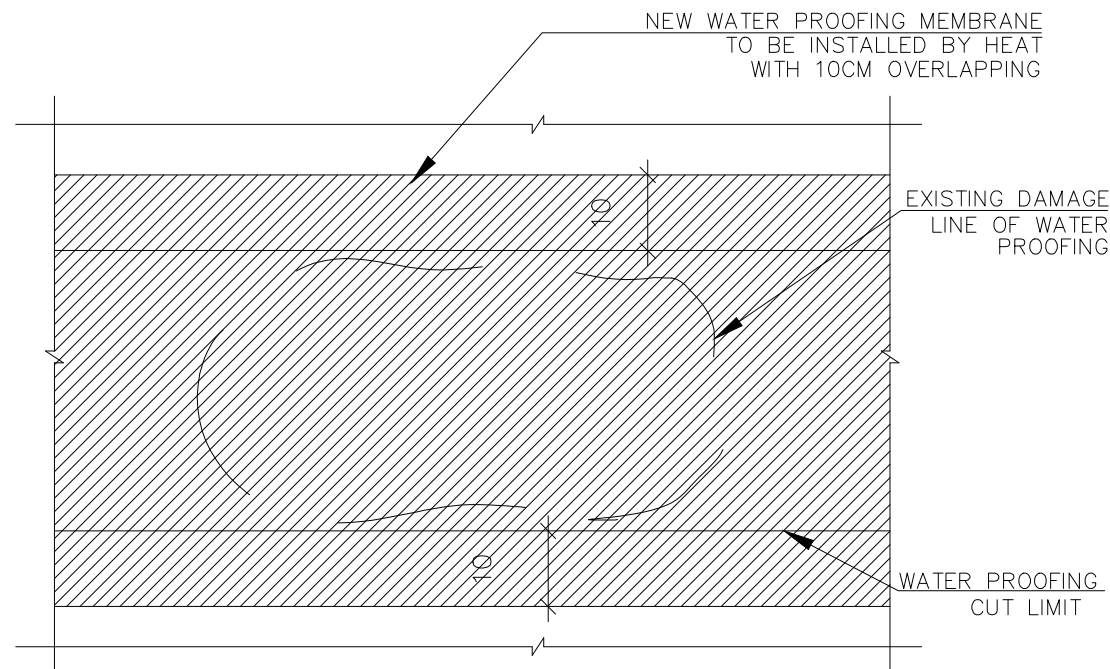


Rehabilitation of UNESCO Office Premises in Beirut

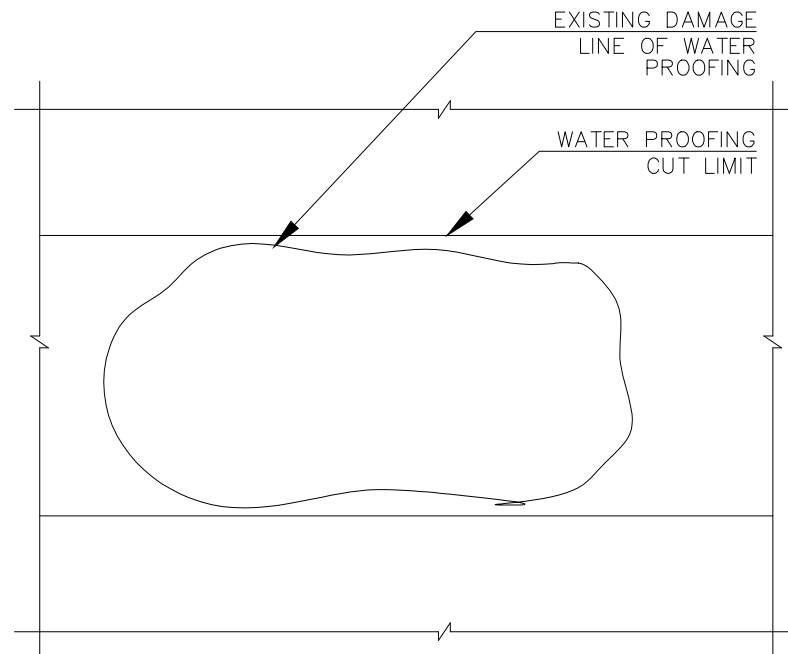
(Contract No. 4500398541)

BIR HASAN
ANNEX-IX

Designed RA	Drawn AZ	Project Number: TL1203	
Approved AC	Checked AS	Sheet Title: GENERAL DETAILS:Parapets & Built up Roofing Details	
Scale	Date August 2019	Sheet No.: A1101	Revision No.: 01
General Location : Bir Hasan			



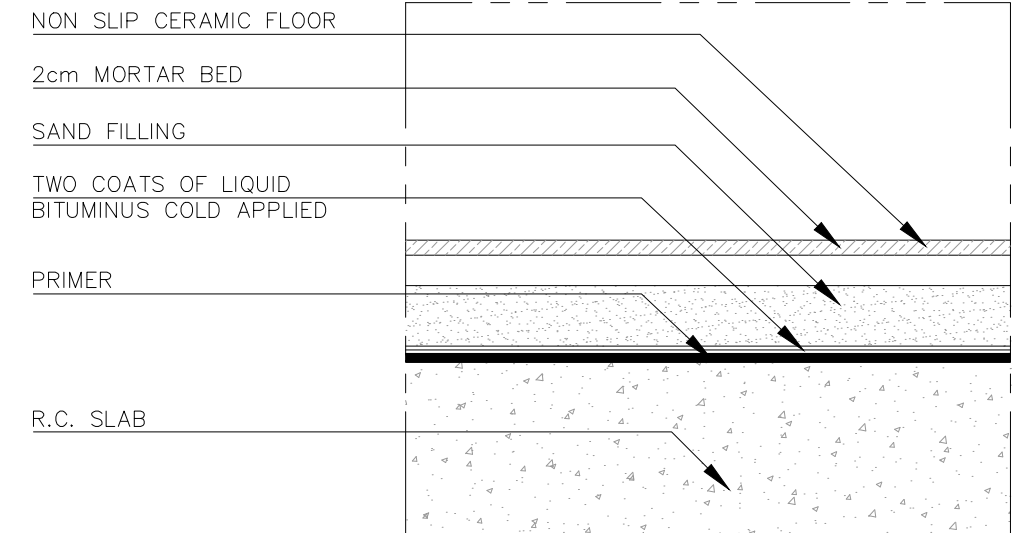
1b PLAN OF REHABILITATED DAMP ROOFING
SCALE 1/10



1a PLAN OF EXISTING SITUATION
SCALE 1/10

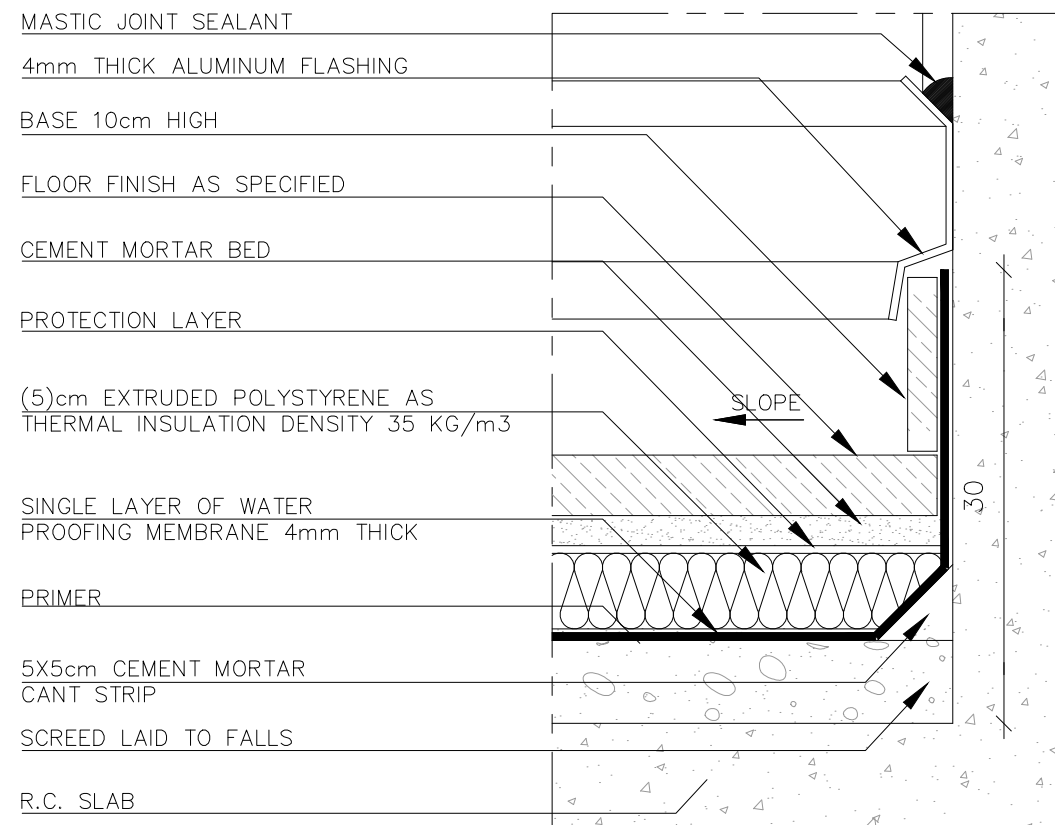
WATER PROOFING REHABILITATION DETAIL TYPE (3)

4



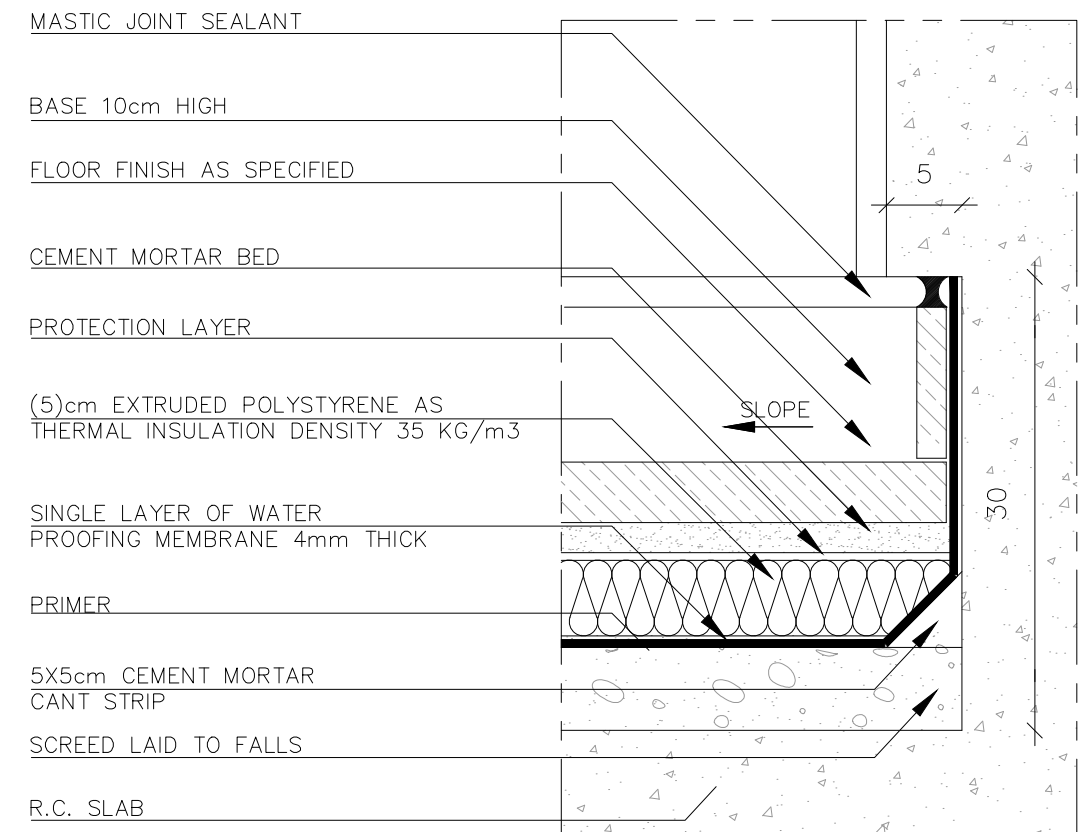
TOILETS WATER PROOFING DETAIL SCALE 1/5

5



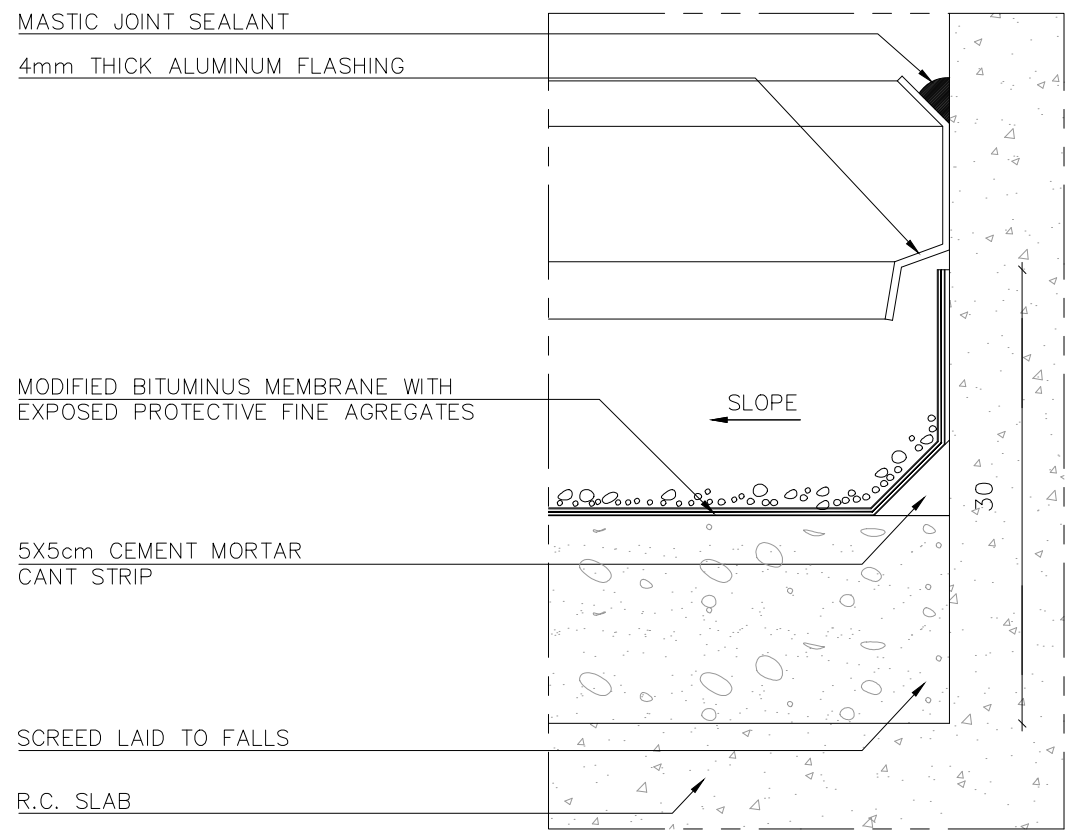
BUILT UP ROOFING TYPE (2) FOR EXISTING PARAPET SCALE 1/5

2



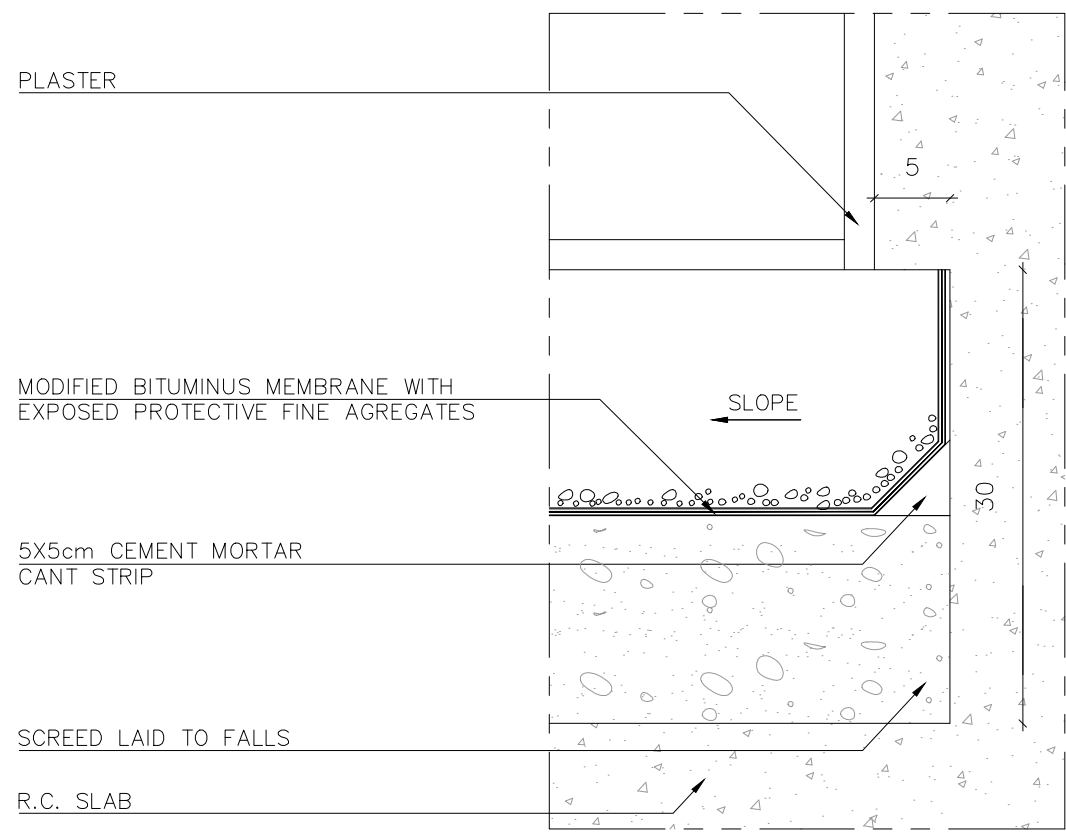
BUILT UP ROOFING TYPE (2) FOR NEW CONSTRUCTION SCALE 1/5

1



BUILT UP ROOFING TYPE (1) FOR EXISTING PARAPET SCALE 1/5

2



BUILT UP ROOFING TYPE (2) FOR NEW CONSTRUCTION SCALE 1/5

1



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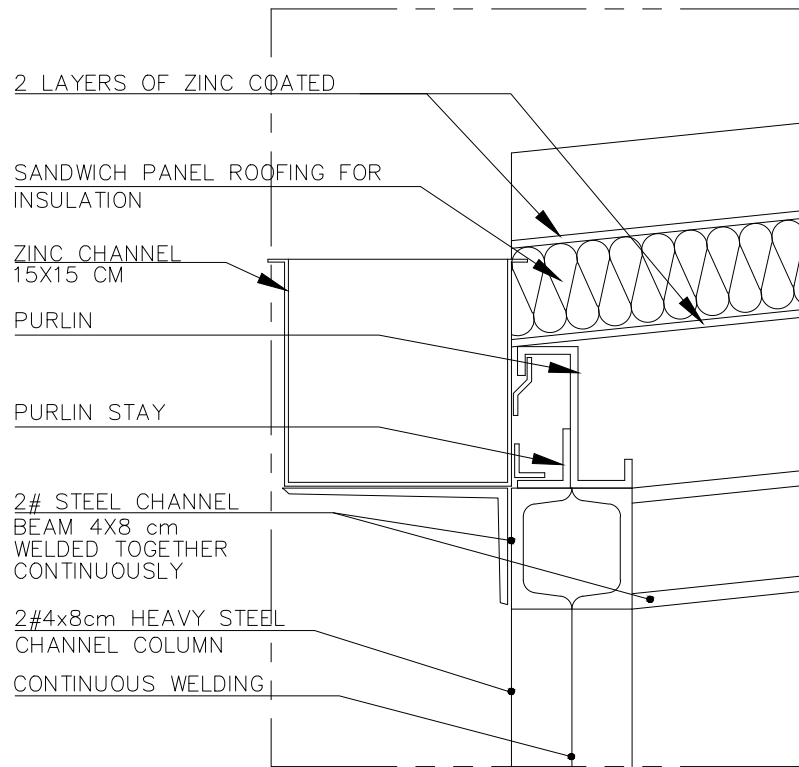
Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

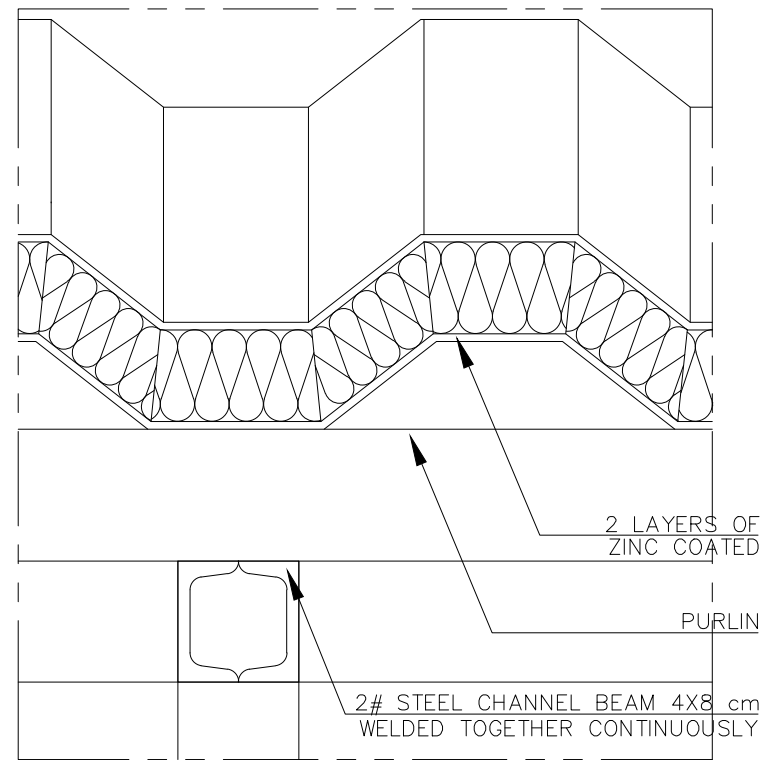
Designed RA	Drawn AZ	Project Number: TL1203	
Approved AC	Checked AS	Sheet Title: GENERAL DETAILS: Damp Proof Layers & Built up Roofing Details 2/2	
Scale	Date August 2019	Sheet No.: A1103	Revision No.: 01
General Location : Bir Hasan			



CORRUGATED SHEETS (ZINC) DETAIL
AT THE CHANNEL SIDE

SCALE 1/5

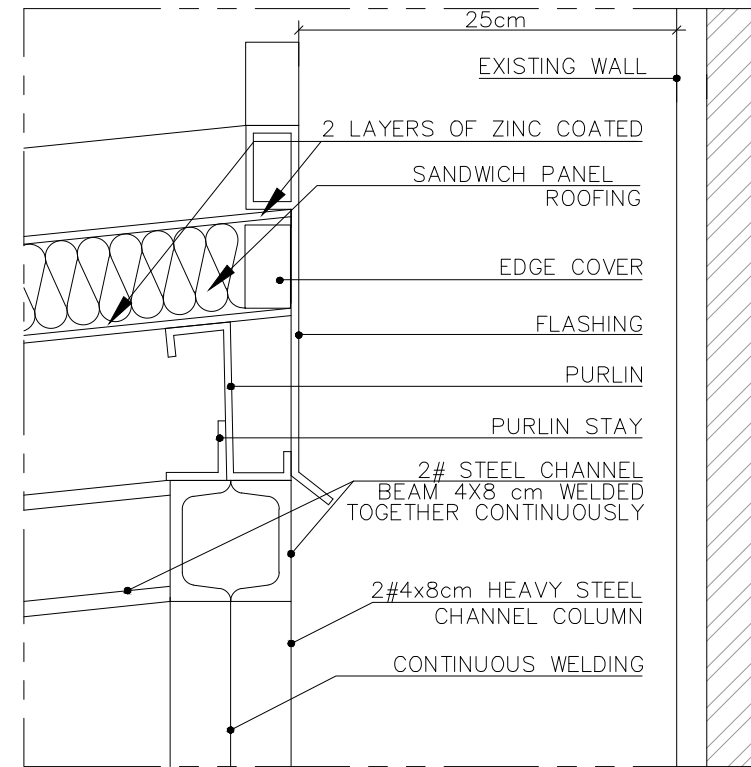
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CORRUGATED SHEETS (ZINC)
DETAILED SECTION

SCALE 1/5

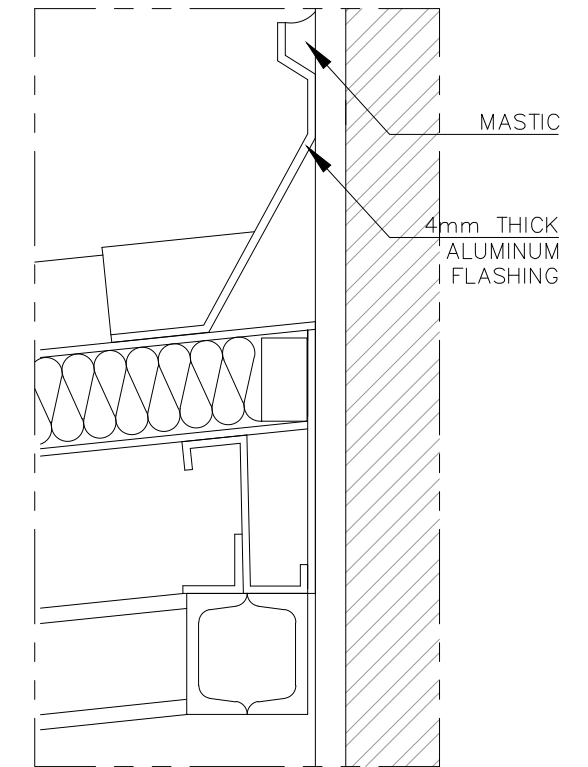
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CORRUGATED SHEETS (ZINC) DETAIL
AT THE WALL SIDE

SCALE 1/5

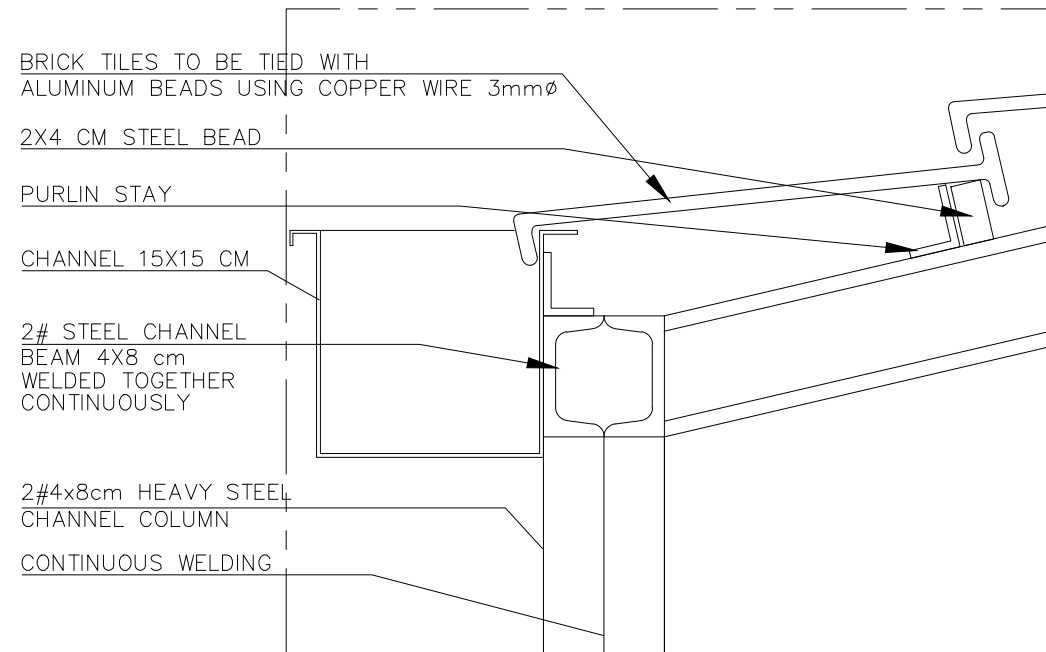
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CORRUGATED SHEETS DETAIL
FOR EXISTING BEAMS AT THE
WALL SIDE

SCALE 1/5

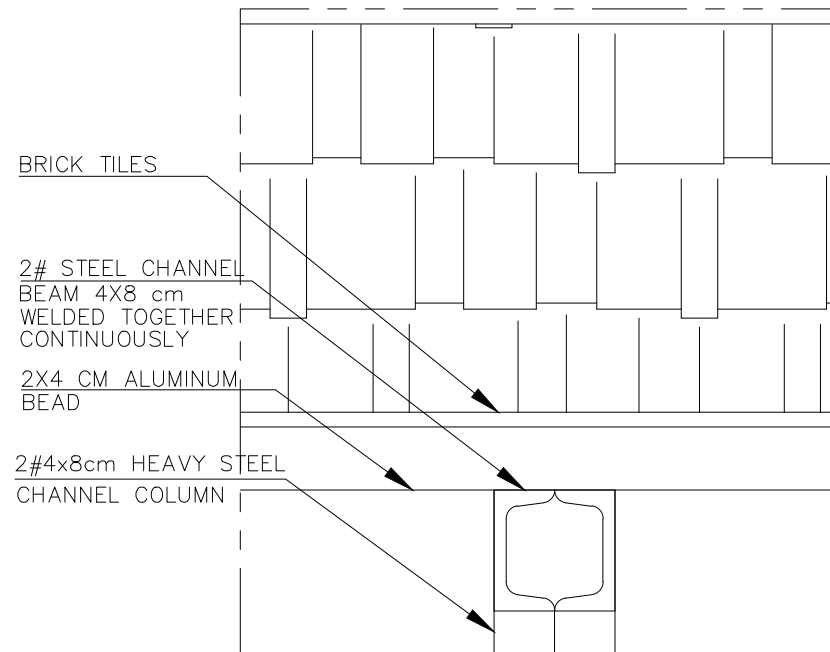
4



BRICK TILES ROOF DETAILED SECTION
AT THE CHANNEL SIDE

SCALE 1/5

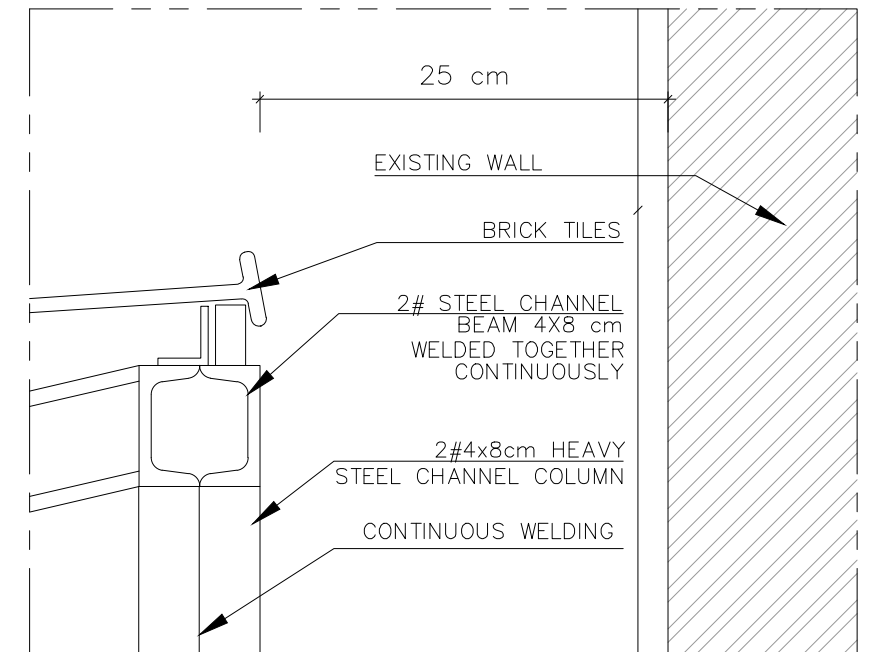
3



BRICK TILES ROOF DETAILED SECTION

SCALE 1/5

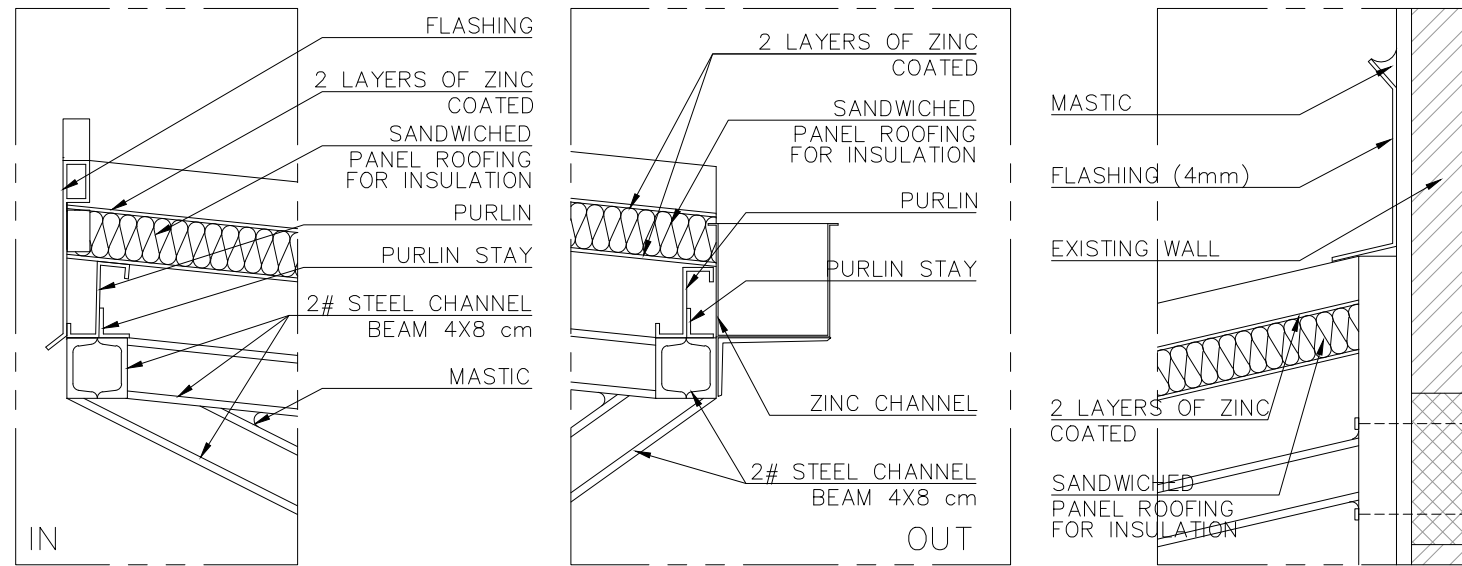
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BRICK TILE ROOF DETAIL AT THE WALL SIDE

SCALE 1/5

1

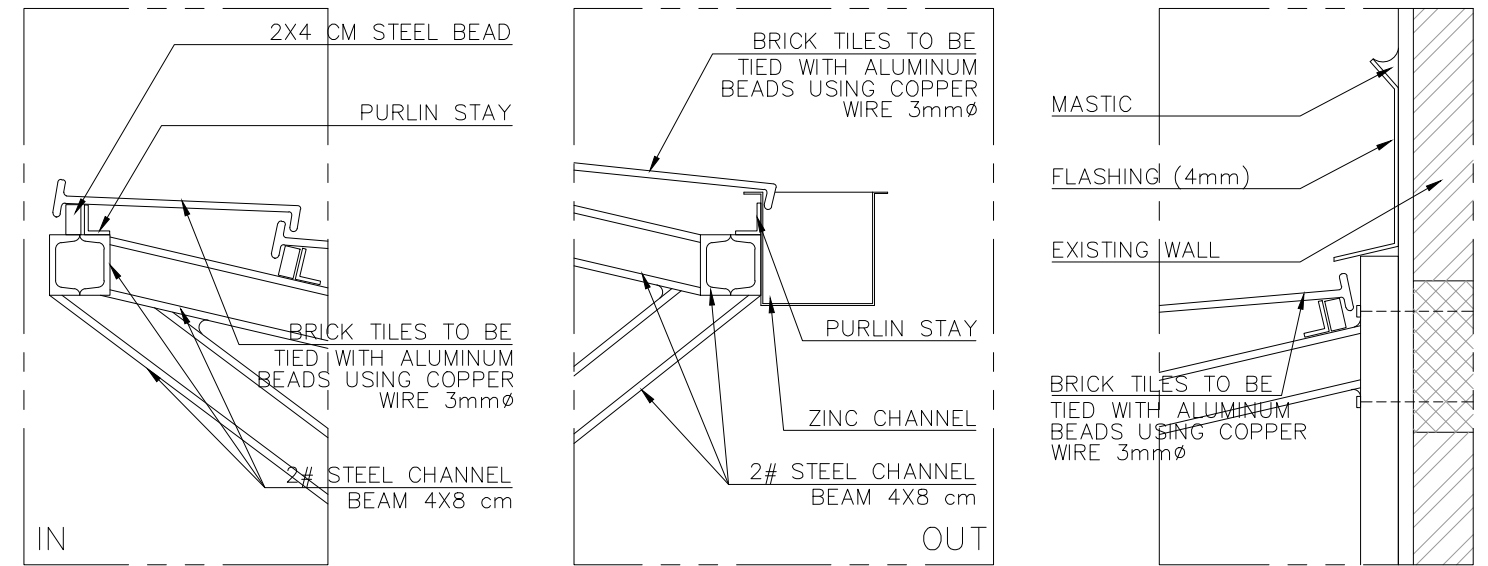


3c CORRUGATED SHEETS (ZINC) CANOPY AT THE INTERNAL SIDE DETAIL SCALE 1/10

3b CORRUGATED SHEETS (ZINC) CANOPY AT THE ROAD SIDE DETAIL SCALE 1/10

3a CORRUGATED SHEETS (ZINC) CANOPY AT THE WALL SIDE DETAIL SCALE 1/10

CORRUGATED SHEETS (ZINC) ENTRANCE CANOPY DETAILS 3

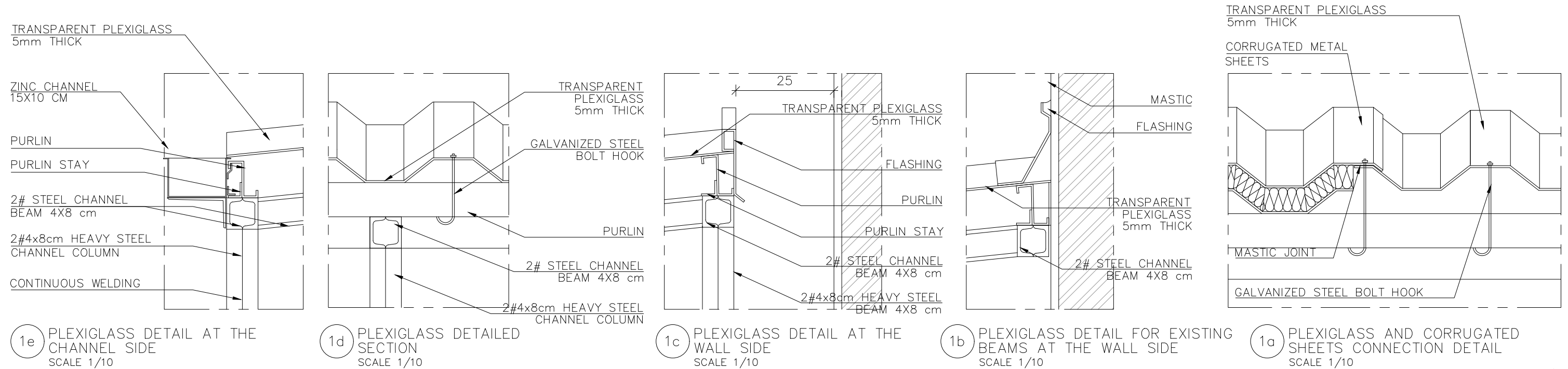


2c BRICK TILE ENTRANCE CANOPY DETAIL AT THE INTERNAL SIDE SCALE 1/10

2b BRICK TILE ENTRANCE CANOPY DETAIL AT THE ROAD SIDE SCALE 1/10

2a BRICK TILE ENTRANCE CANOPY DETAIL AT WALL SIDE SCALE 1/10

BRICK TILE ROOF DETAILS 2



1e PLEXIGLASS DETAIL AT THE CHANNEL SIDE SCALE 1/10

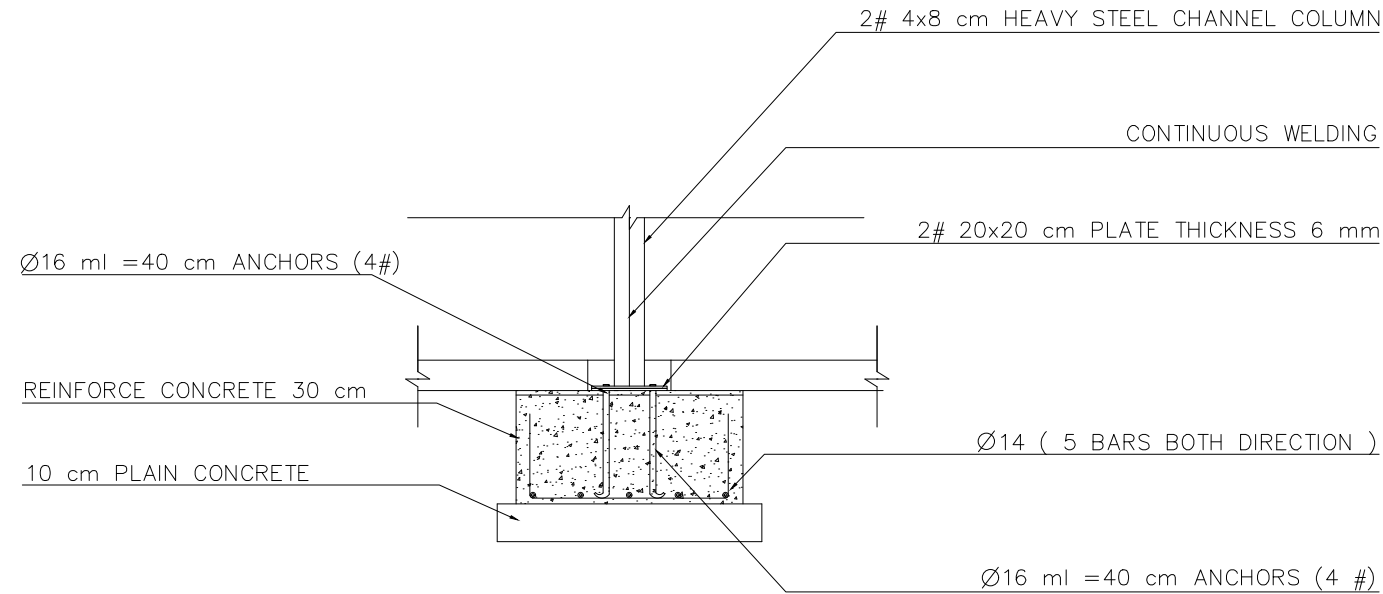
1d PLEXIGLASS DETAILED SECTION SCALE 1/10

1c PLEXIGLASS DETAIL AT THE WALL SIDE SCALE 1/10

1b PLEXIGLASS DETAIL FOR EXISTING BEAMS AT THE WALL SIDE SCALE 1/10

1a PLEXIGLASS AND CORRUGATED SHEETS CONNECTION DETAIL SCALE 1/10

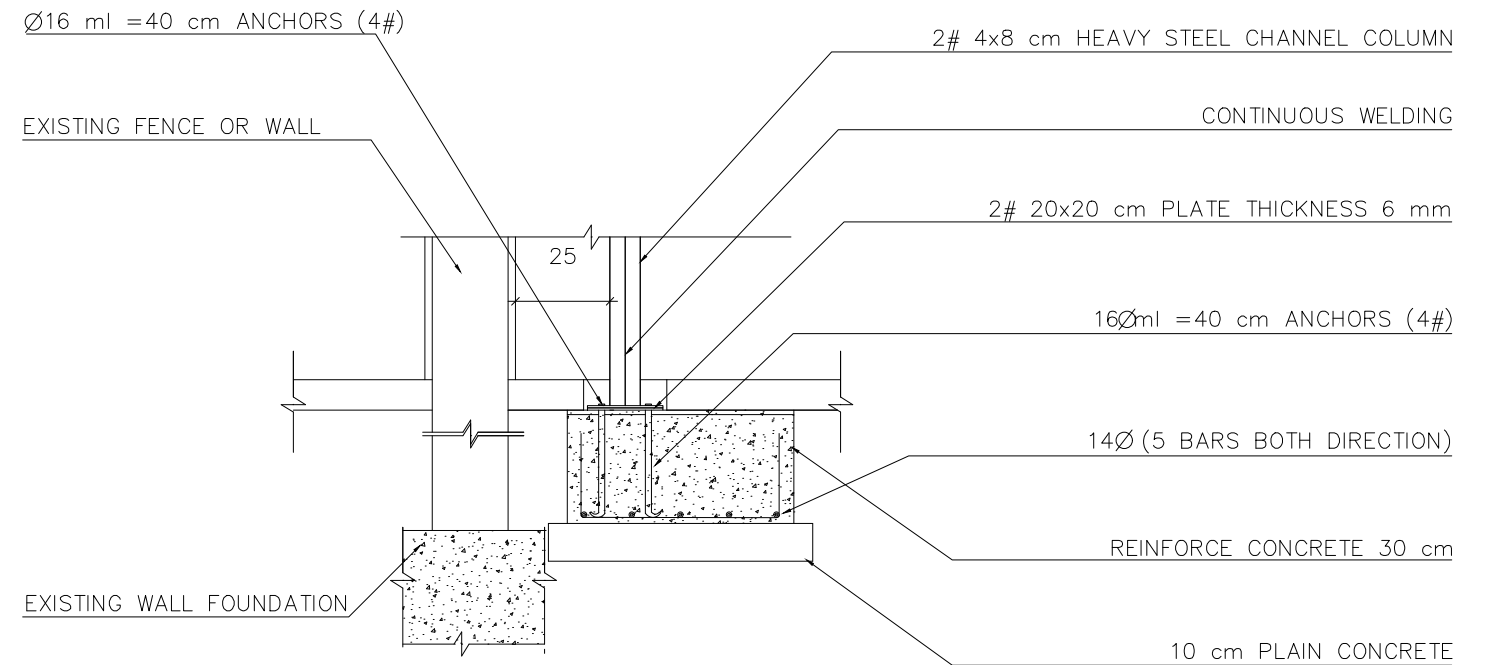
PLEXIGLASS ROOF DETAILS 1



SHED STEEL COLUMN FOUNDATION FREE FROM ALL SIDES - DETAILED SECTION

SCALE 1/20

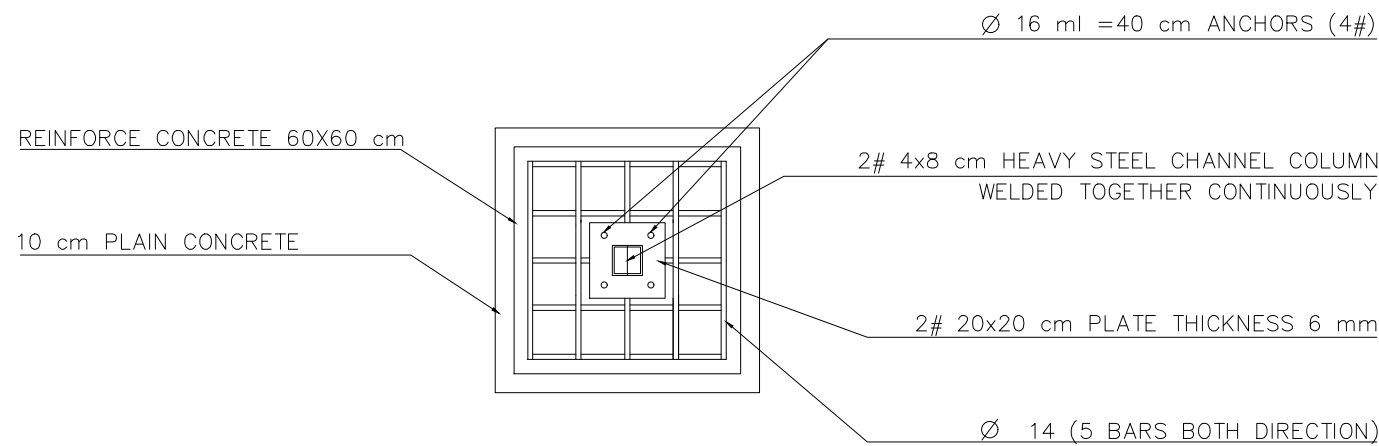
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SHED STEEL COLUMN FOUNDATION NEXT TO AN EXISTING FOUNDATION (WALL BUILDING OR FENCE) - DETAILED SECTION

SCALE 1/20

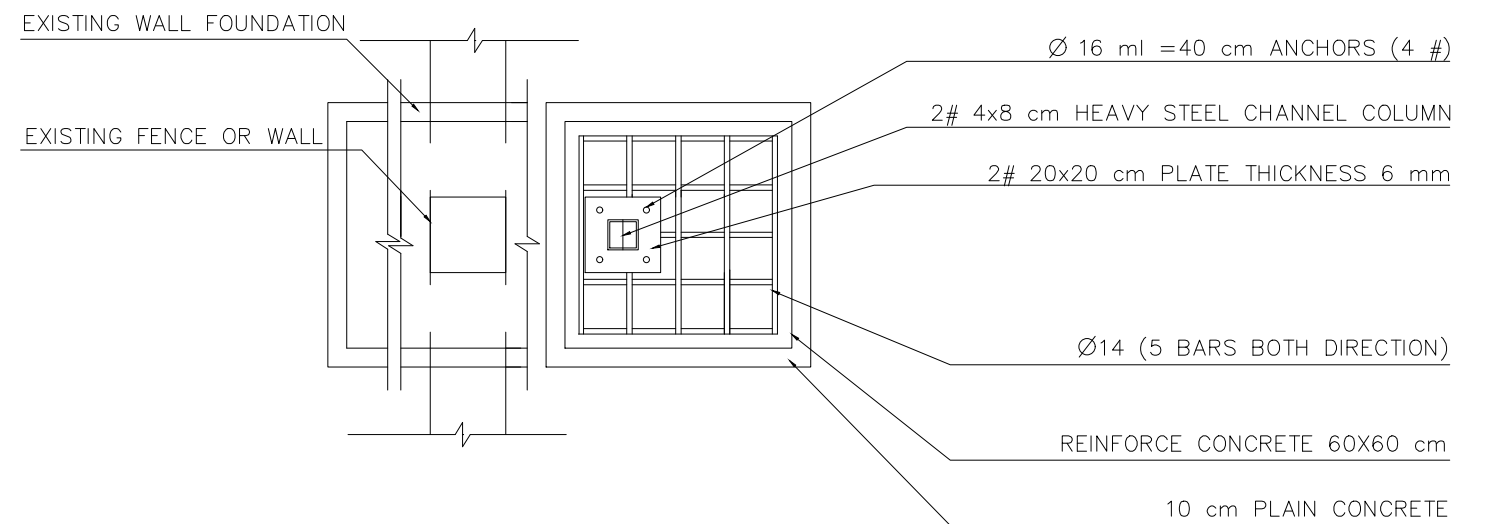
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SHED STEEL COLUMN FOUNDATION FREE FROM ALL SIDES - DETAILED PLAN

SCALE 1/20

2

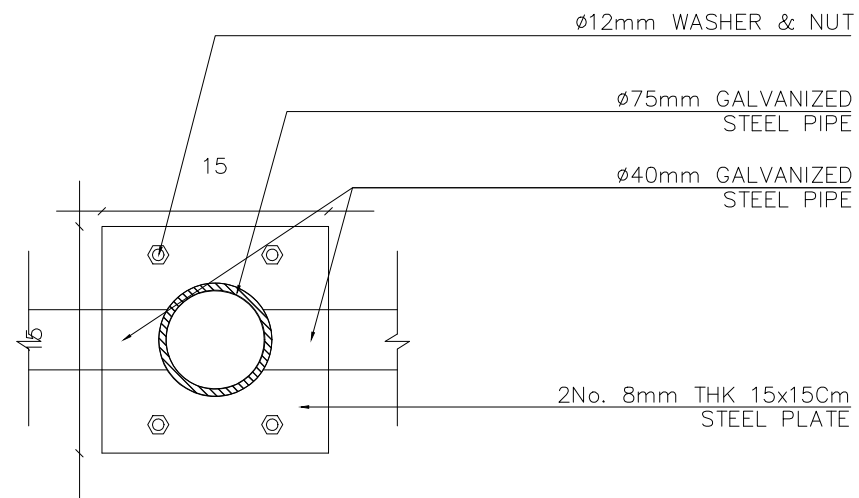


SHED STEEL COLUMN FOUNDATION NEXT TO AN EXISTING FOUNDATION (WALL BUILDING OR FENCE) - DETAILED PLAN

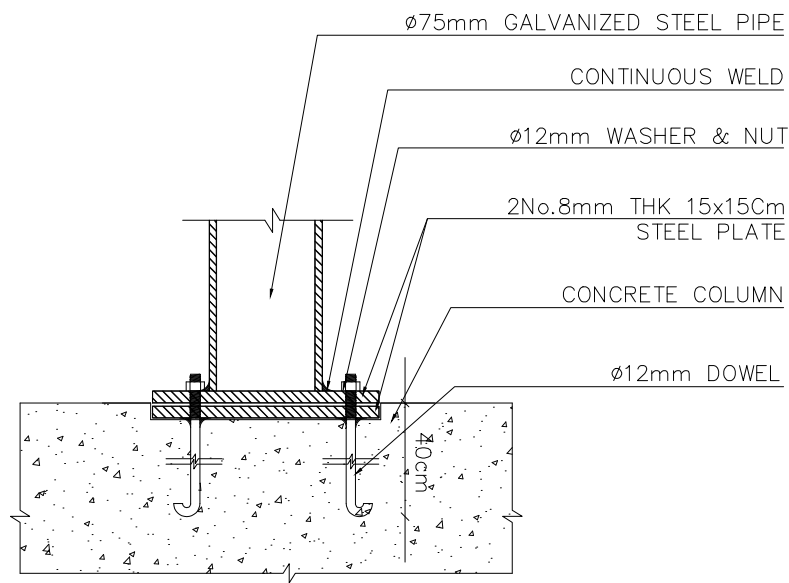
SCALE 1/20

1

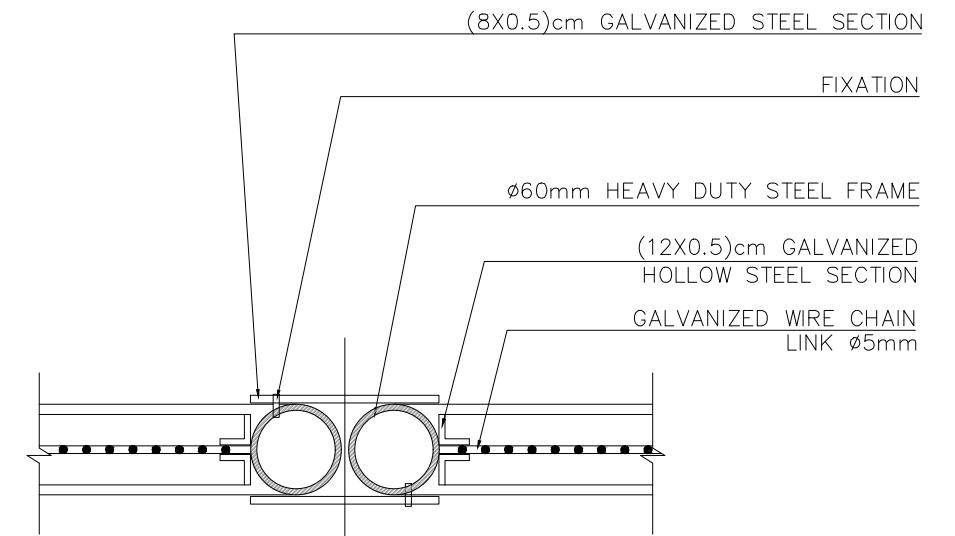
N.B:
THE CONTRACTOR SHOULD SUBMIT
COMPLETE SHOP DRAWINGS FOR
APPROVAL BY THE ENGINEER



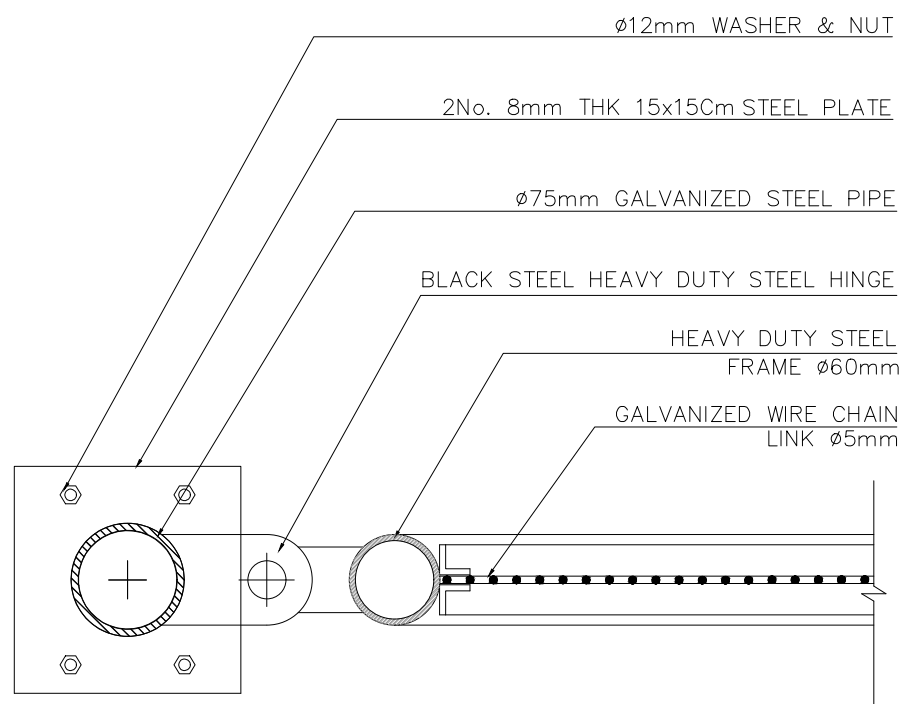
1f POST-FENCE DETAIL
SCALE 1/5



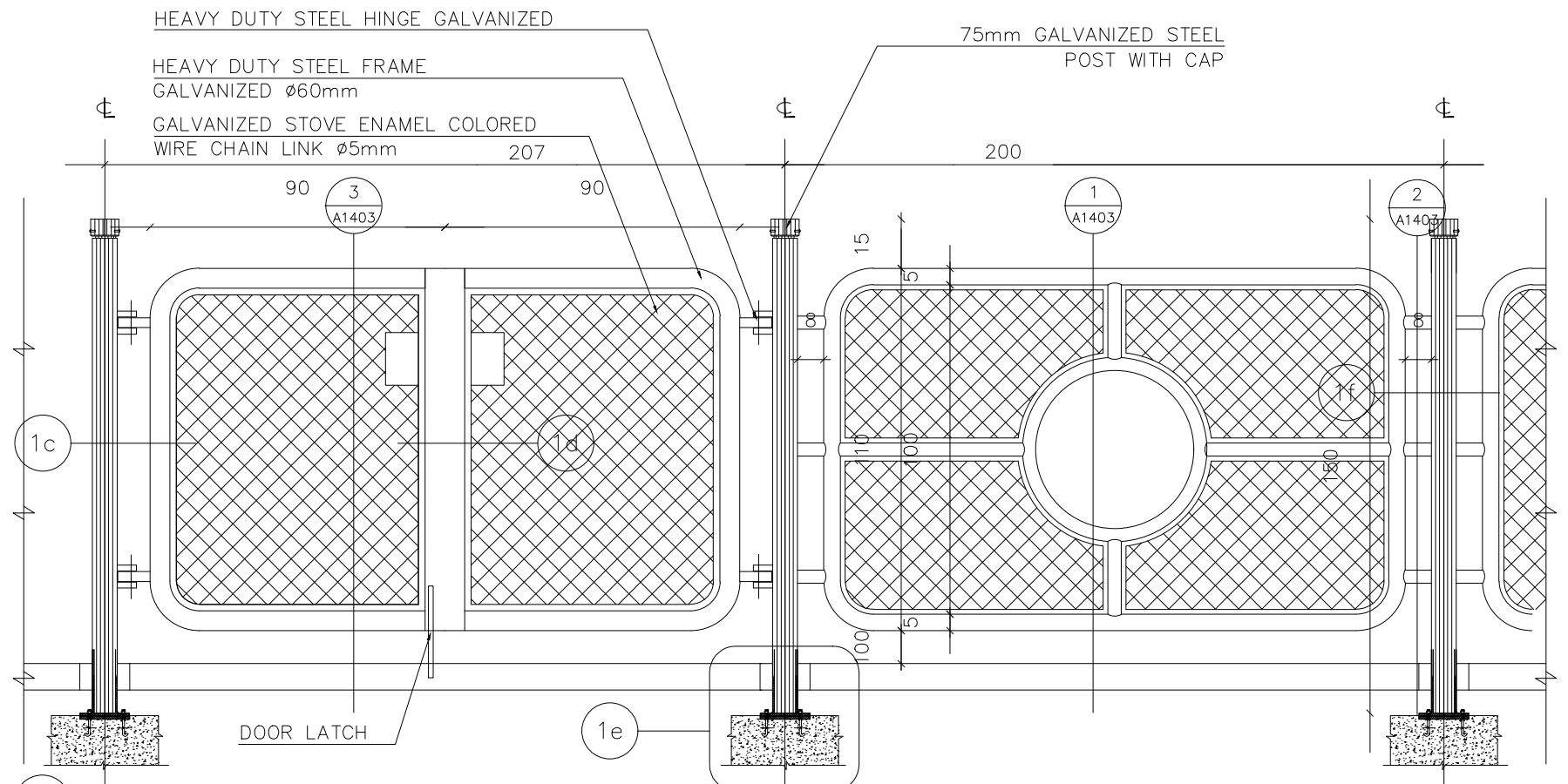
1e POST CONNECTION AT FLOOR
SCALE 1/5



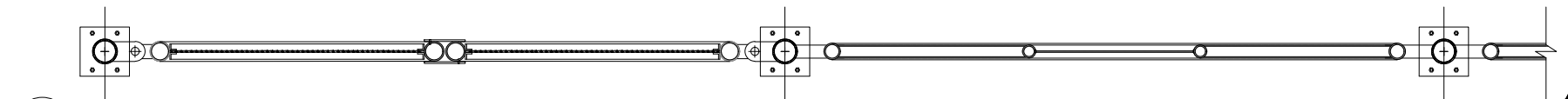
1d DETAILED SECTION FOR CHAIN LINK
FENCE GATE INTERSECTION
SCALE 1/5



1c DETAILED SECTION FOR CHAIN LINK
FENCE GATE FIXING
SCALE 1/5

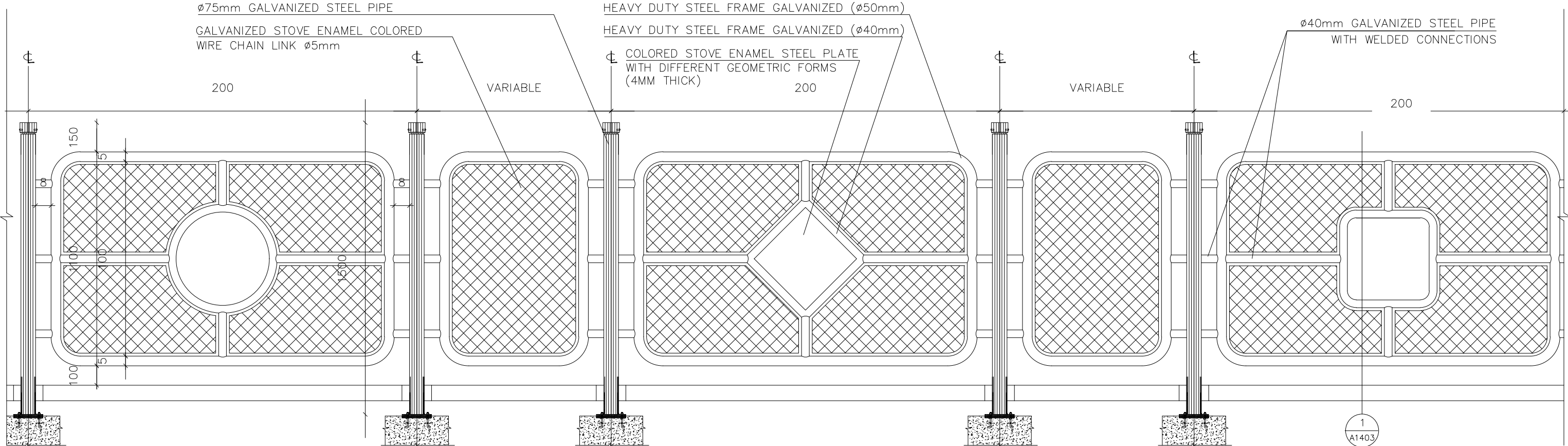


1b ELEVATION SCALE 1/20

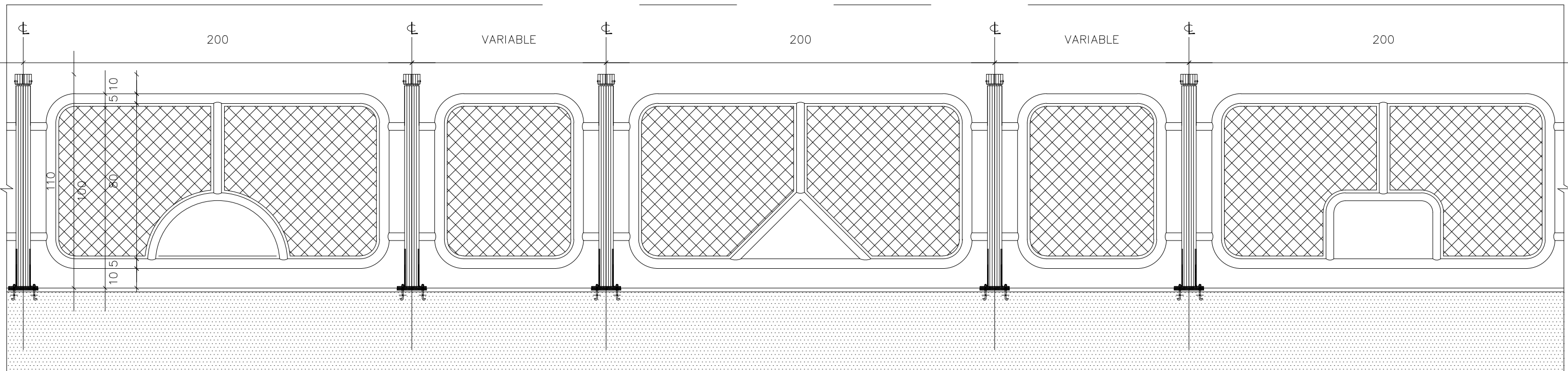


1a PLAN SCALE 1/20

CHAIN LINK FENCE AND GATE DETAIL



1b CHAIN LINK FENCE AT FLOOR ELEVATION
SCALE 1/20



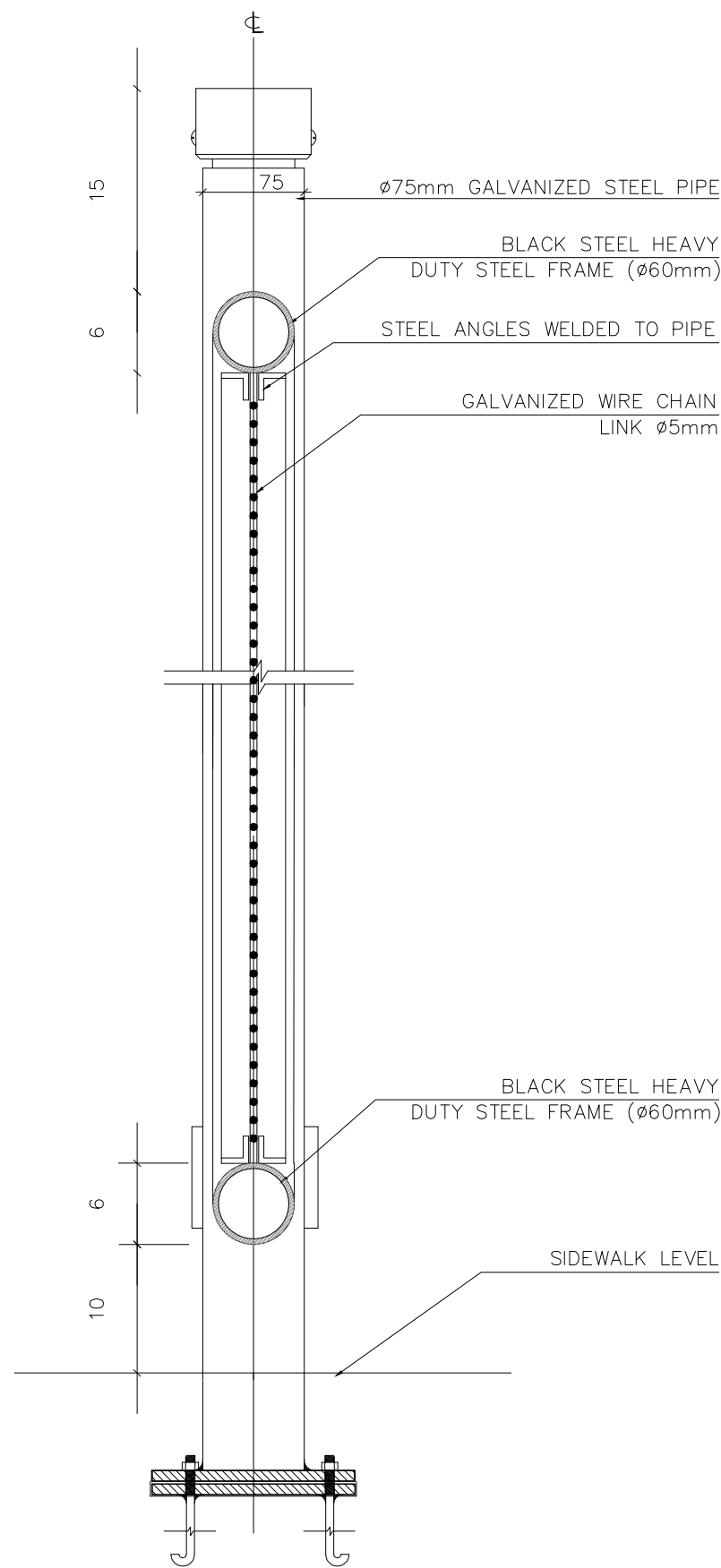
1a CHAIN LINK FENCE ON PARAPET ELEVATION
SCALE 1/20

N.B. PAINT COLOR TO BE AS PER THE ENGINEER INSTRUCTION.

CHAIN LINK FENCE

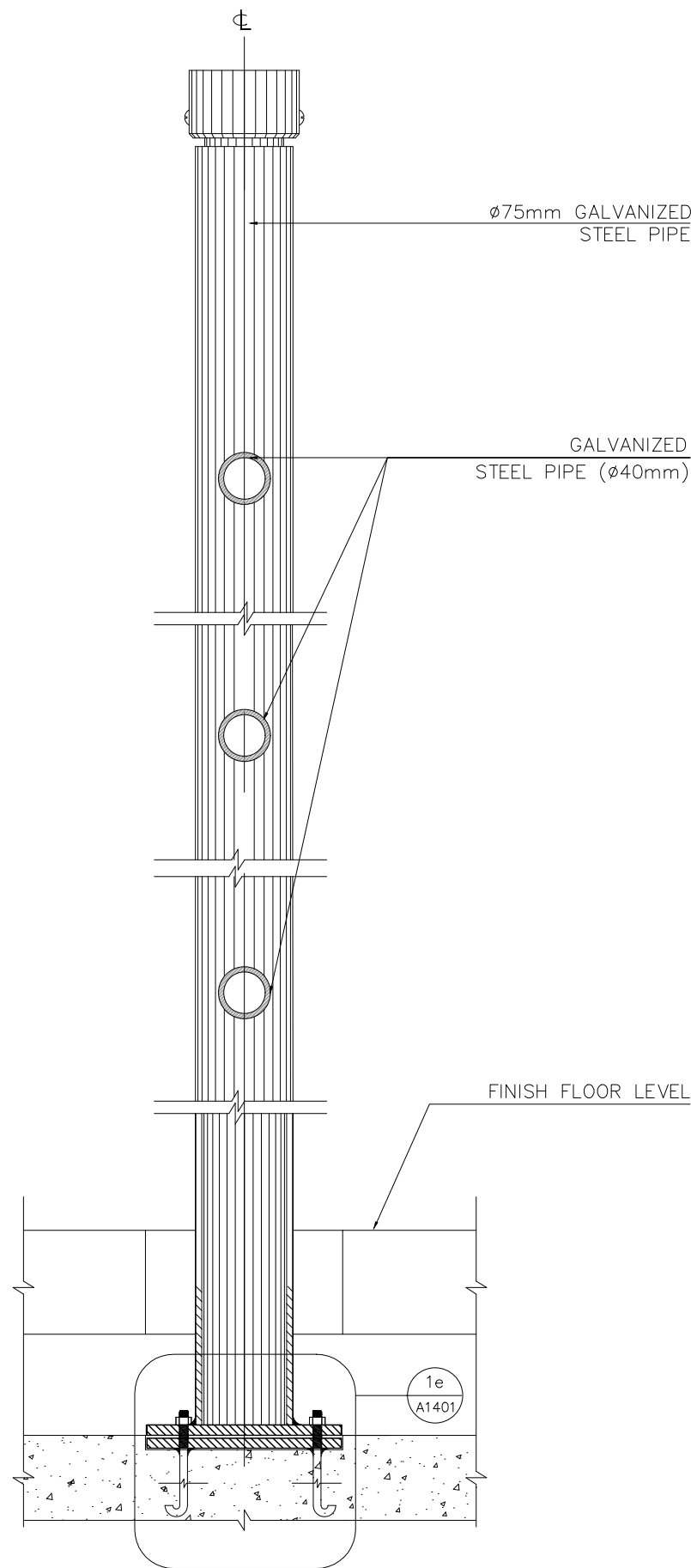
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LDRS CHEHAB & PARTNERS Beirut office: Tel.: 01-809316 - 809317 Fax : 01-809315 Saida office: Tel.: 07-726004 Tel.Fax : 07-725118 Email: info@LDRS-CO.com	UNESCO		Rehabilitation of UNESCO Office Premises in Beirut (Contract No. 4500398541) BIR HASAN ANNEX-IX	Designed RA Approved AC Scale Drawn AZ Checked AS Date August 2019	Project Number: TL1203 Sheet Title: GENERAL DETAILS: Chain Link Fence & Gates Details 2/5 Sheet No.: A1402 Revision No.: 01 General Location : Bir Hasan
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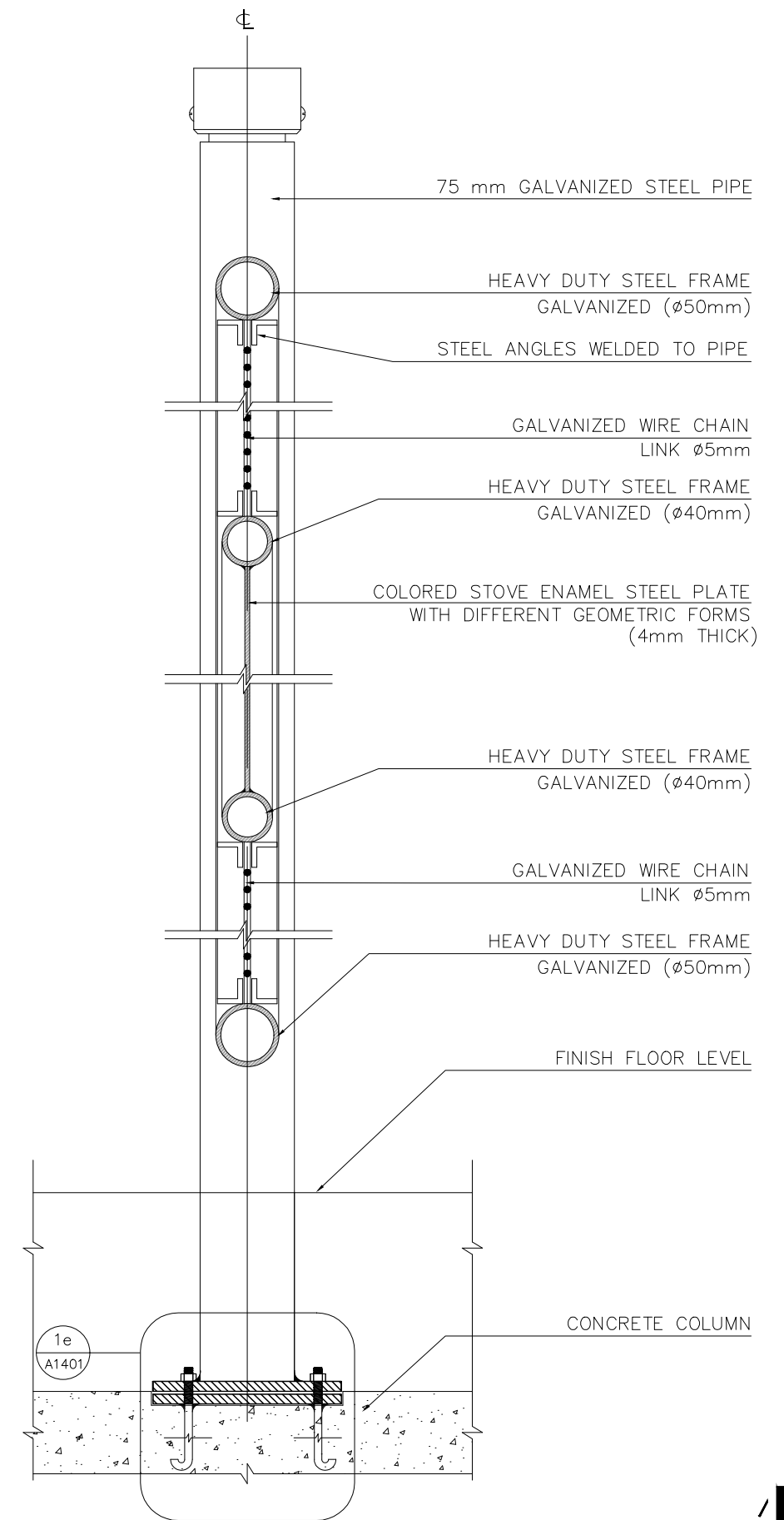
DETAILED SECTION FOR FENCE GATE SCALE 1/5

3



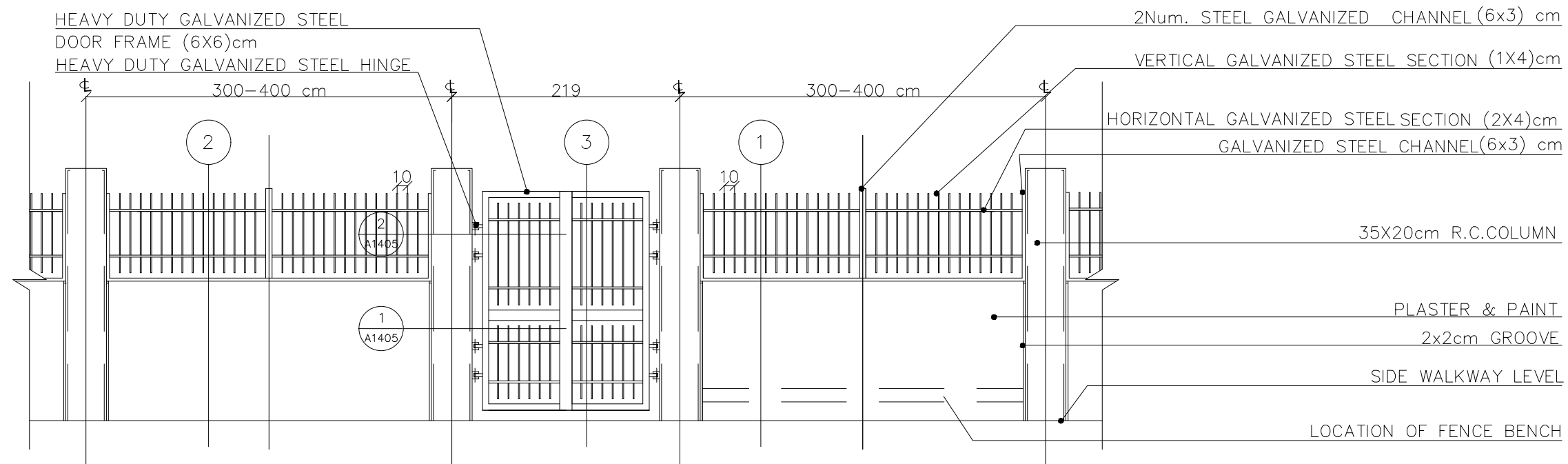
DETAILED SECTION FOR FENCE SCALE 1/5

2



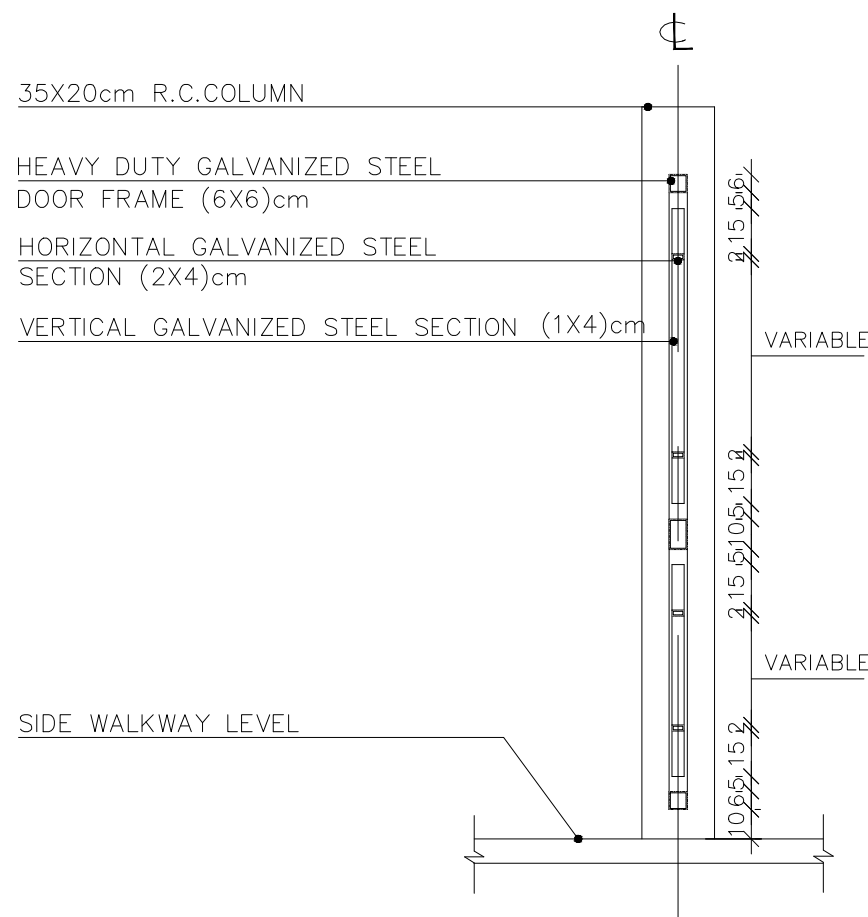
DETAILED SECTION FOR FENCE SCALE 1/5

1



**SOLID/STEEL FENCE & GATE
ELEVATION**

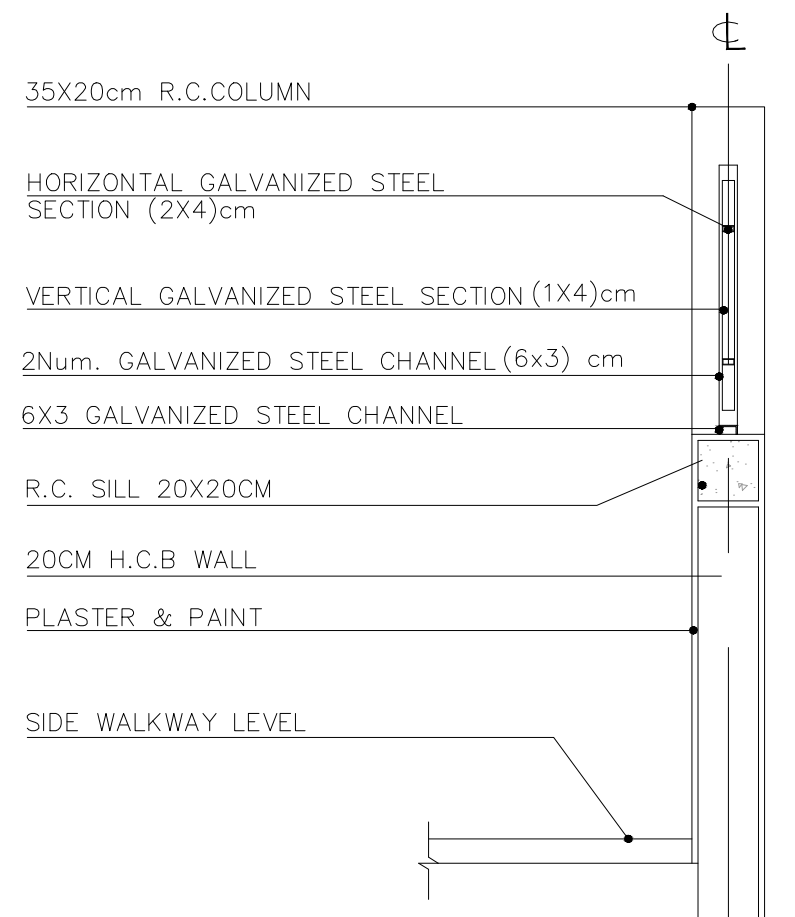
SCALE 1/50



**DETAILED SECTION FOR CONCRETE
FENCE GATE**

SCALE 1/25

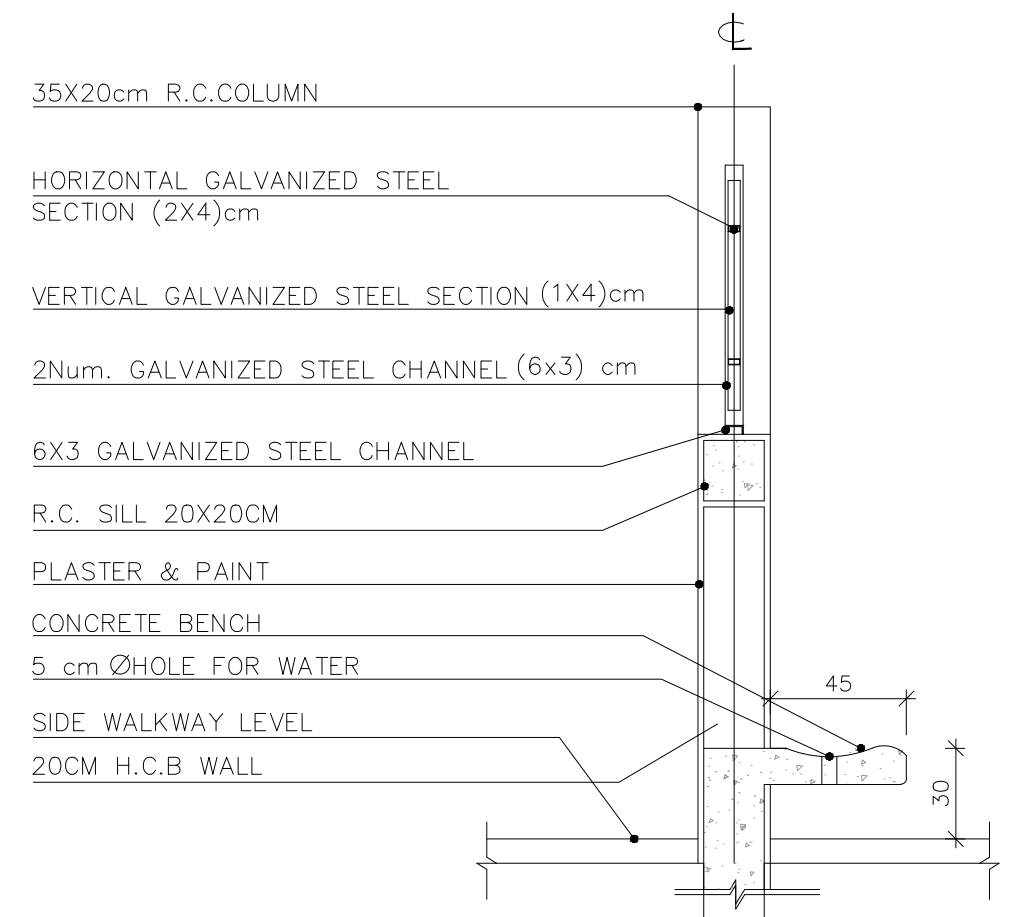
3



**DETAILED SECTION FOR CONCRETE
FENCE**

SCALE 1/25

2



**DETAILED SECTION FOR CONCRETE
FENCE WITH SEAT**

SCALE 1/25

1



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Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

Designed
RA
Approved
AC

Drawn
AZ
Checked
AS

Scale
Date
August 2019

Project Number: TL1203

Sheet Title: GENERAL DETAILS: Chain Link
Fence & Gates Details 4/5

Sheet No.: A1404 Revision No.: 01

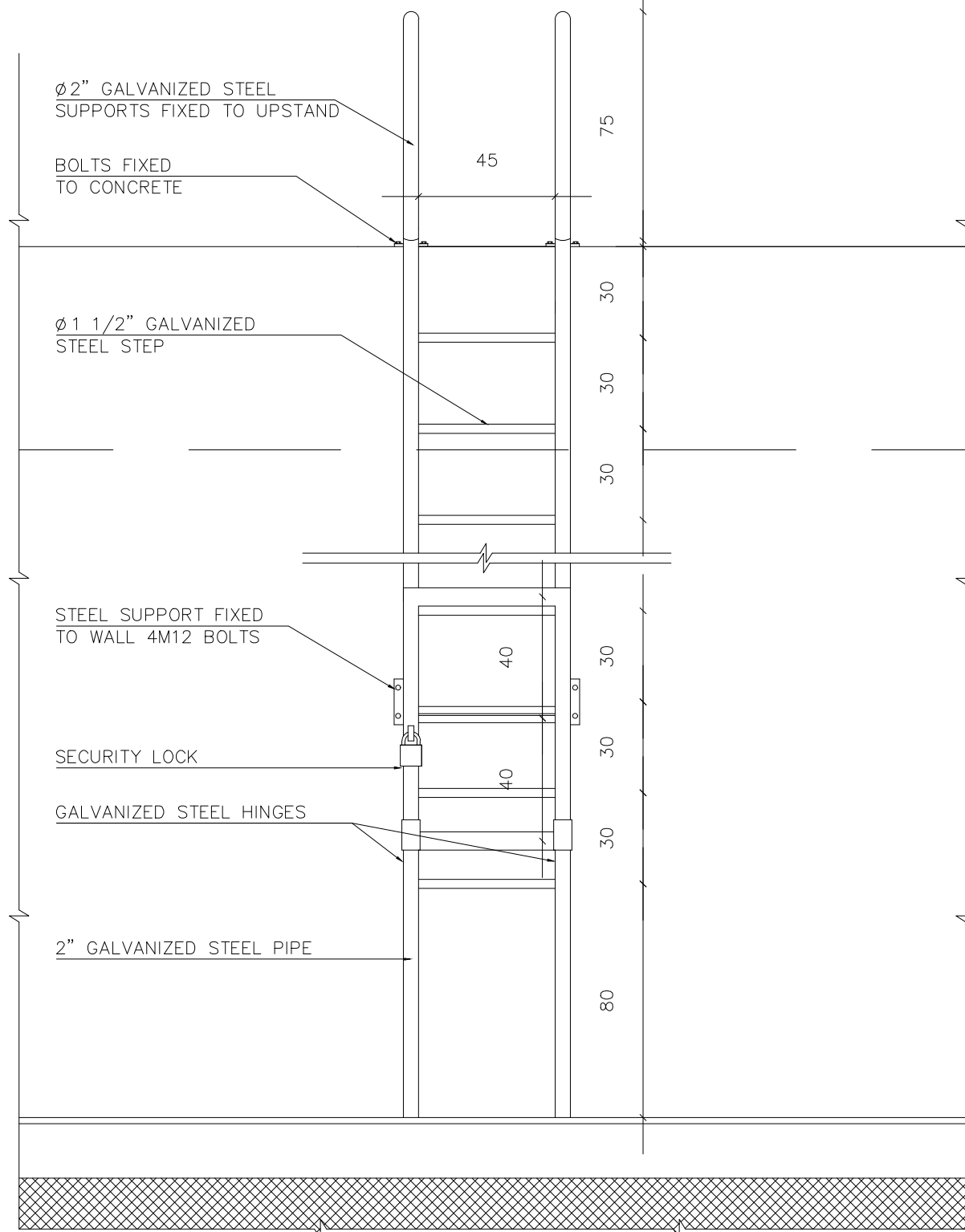
General Location : Bir Hasan



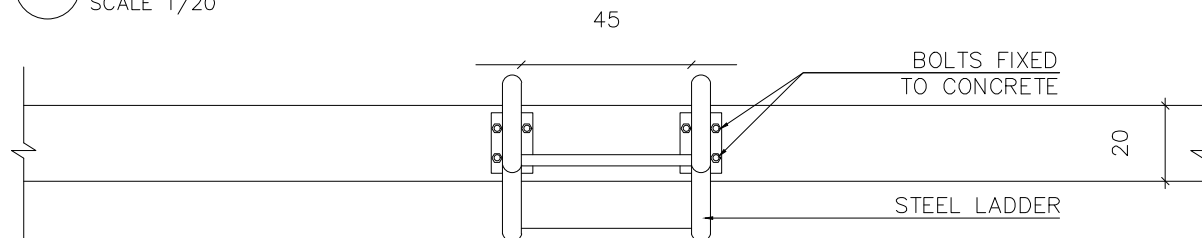
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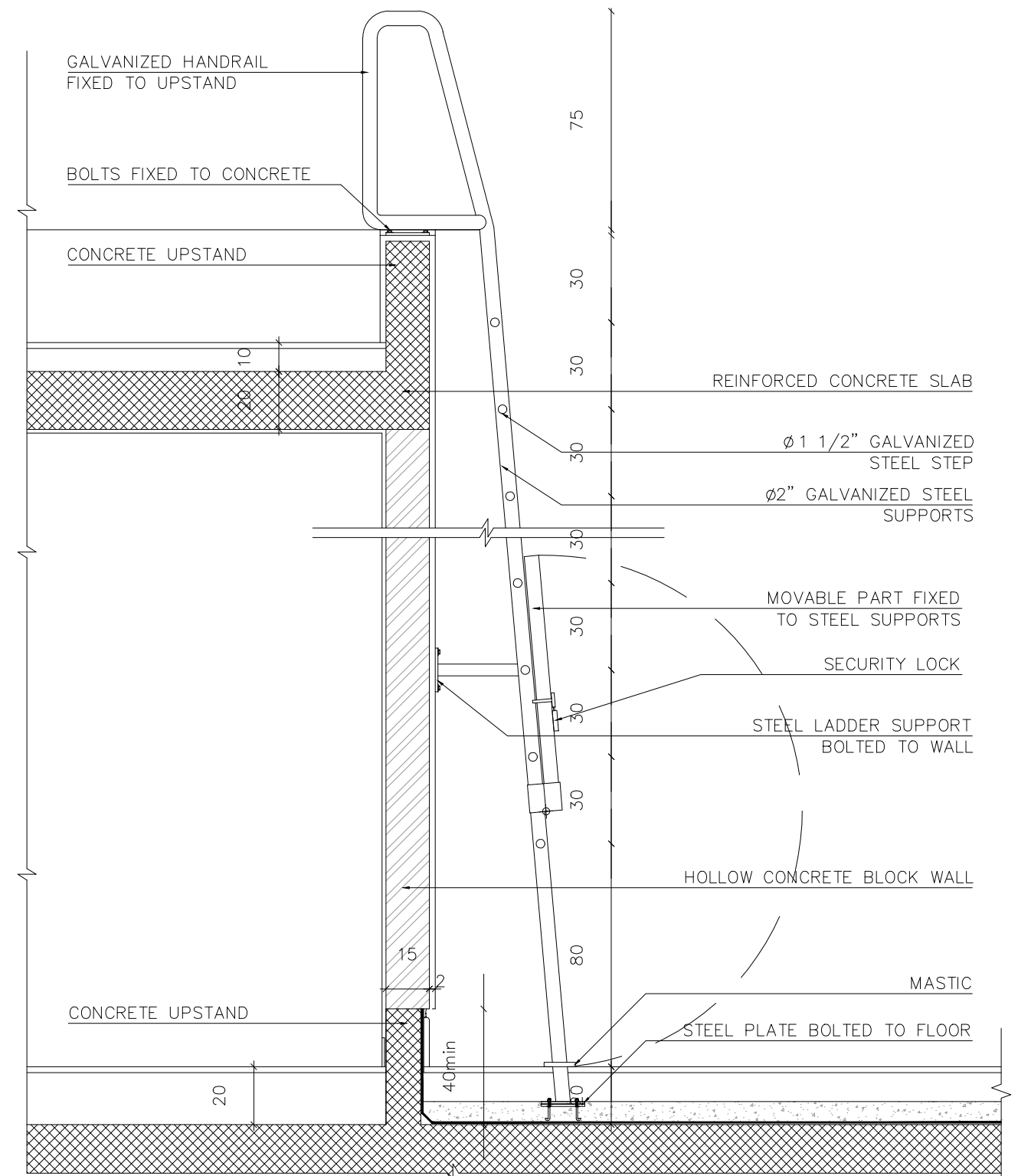
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1c DETAILED LADDER FRONT ELEVATION
SCALE 1/20



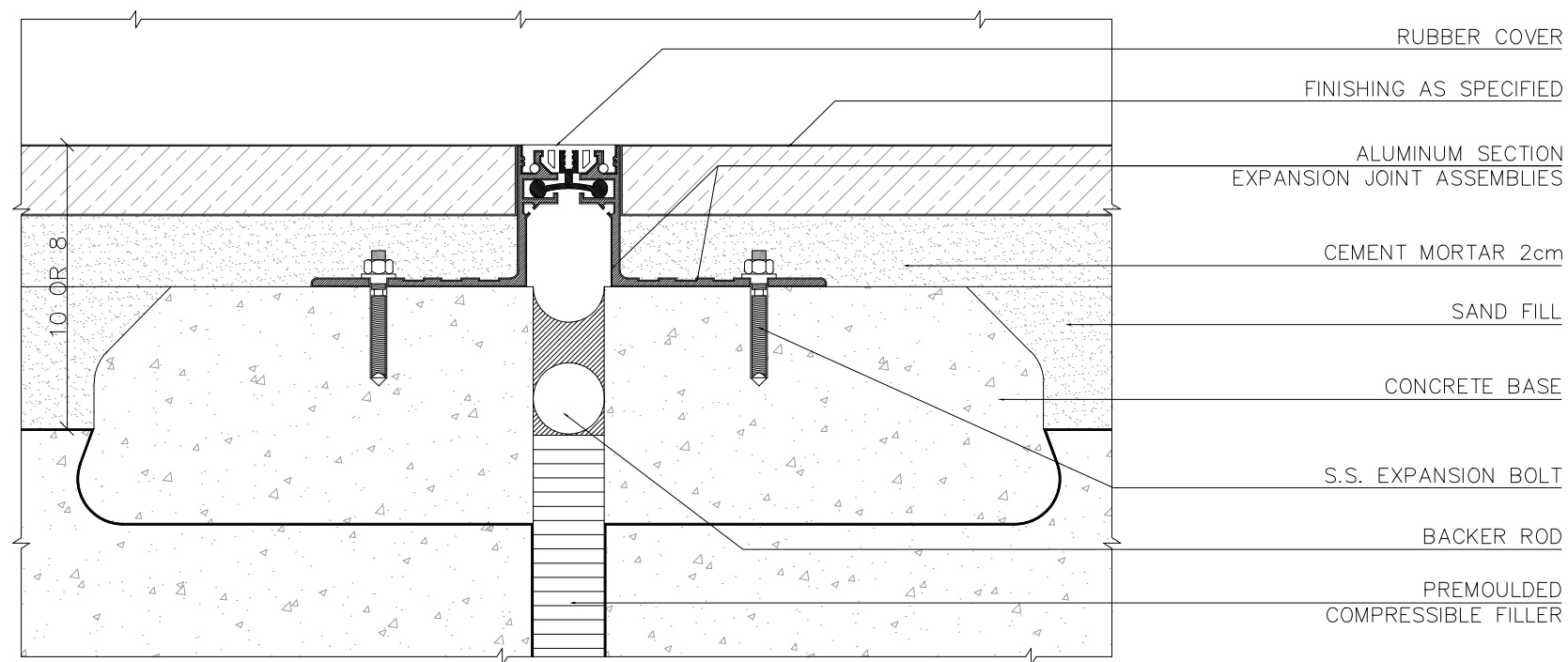
1a LADDER PLAN
SCALE 1/20



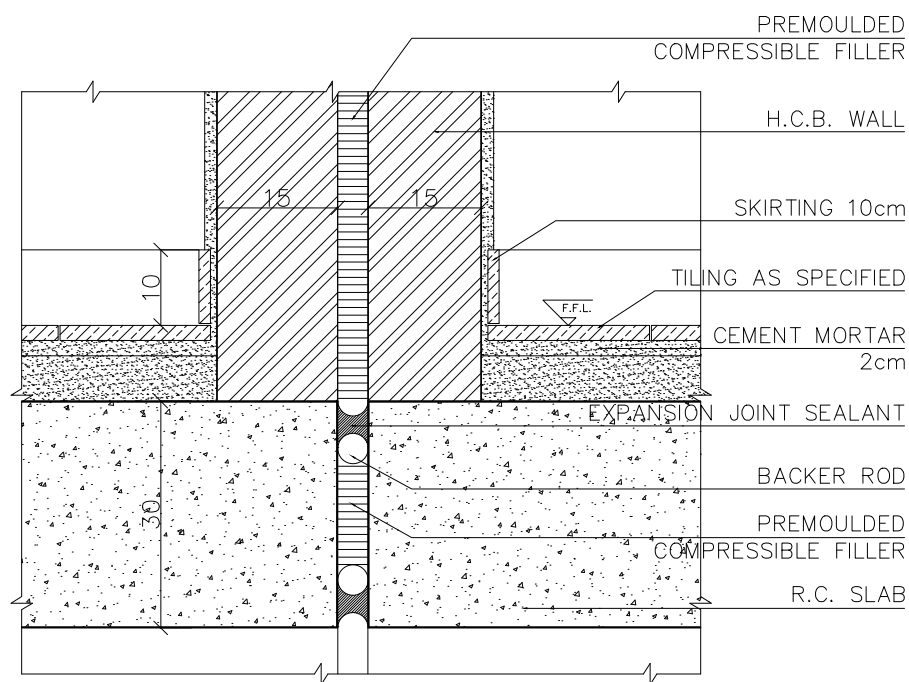
1b DETAILED LADDER SIDE ELEVATION
SCALE 1/20

STEEL LADDER DETAIL SCALE 1/20

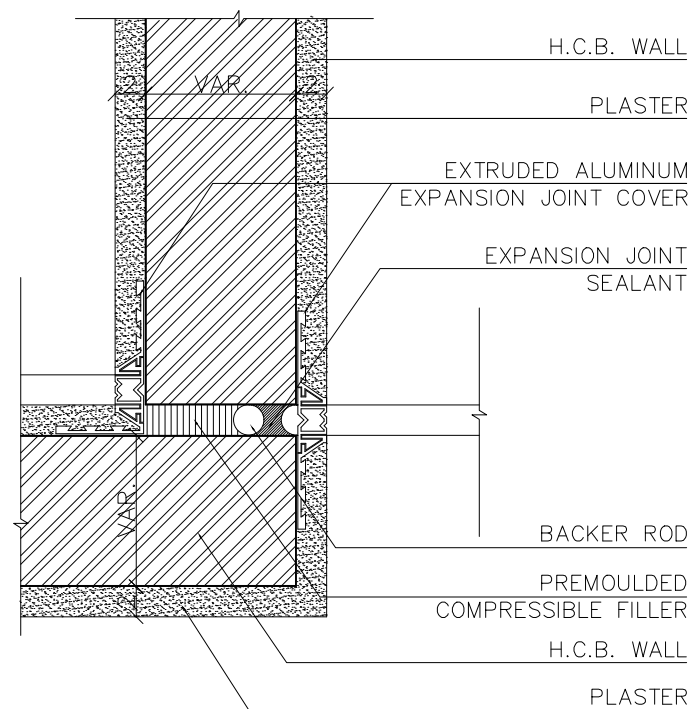
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1c DETAIL OF EXPANSION JOINT AT FLOORS
SCALE 1/2



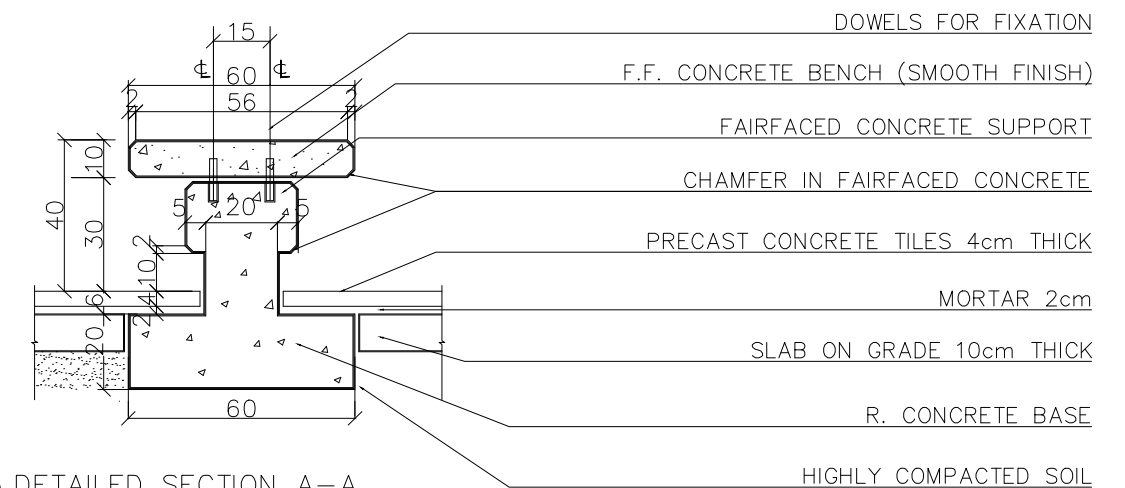
1b DETAIL OF EXPANSION JOINT AT SLAB
WITH DOUBLE WALLS
SCALE 1/10



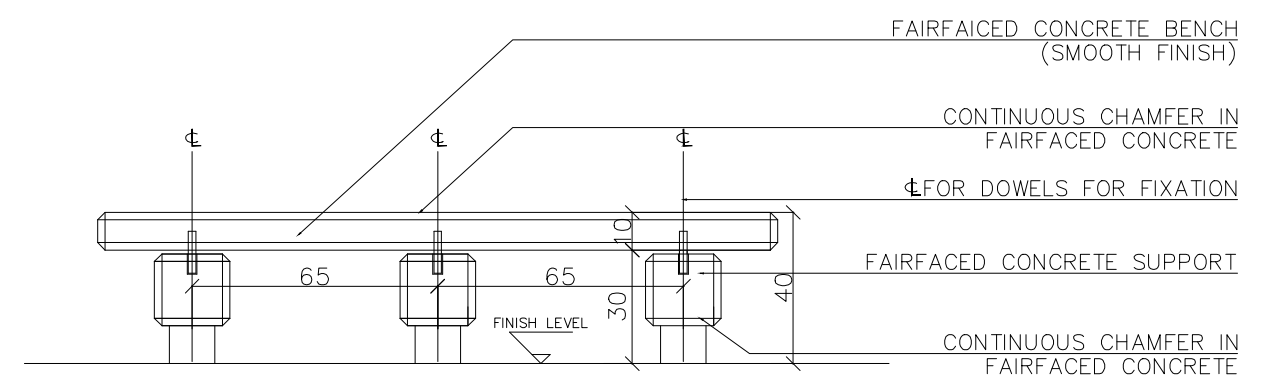
1a DETAIL OF EXPANSION JOINT
BETWEEN PLASTERED WALLS
SCALE 1/5

EXPANSION JOINTS

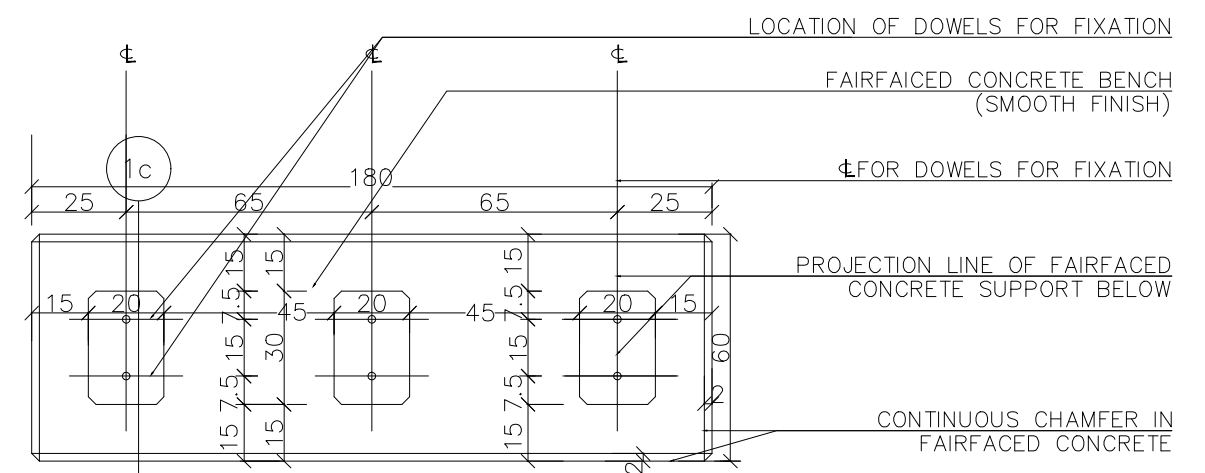
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1c DETAILED SECTION A-A
SCALE 1/20



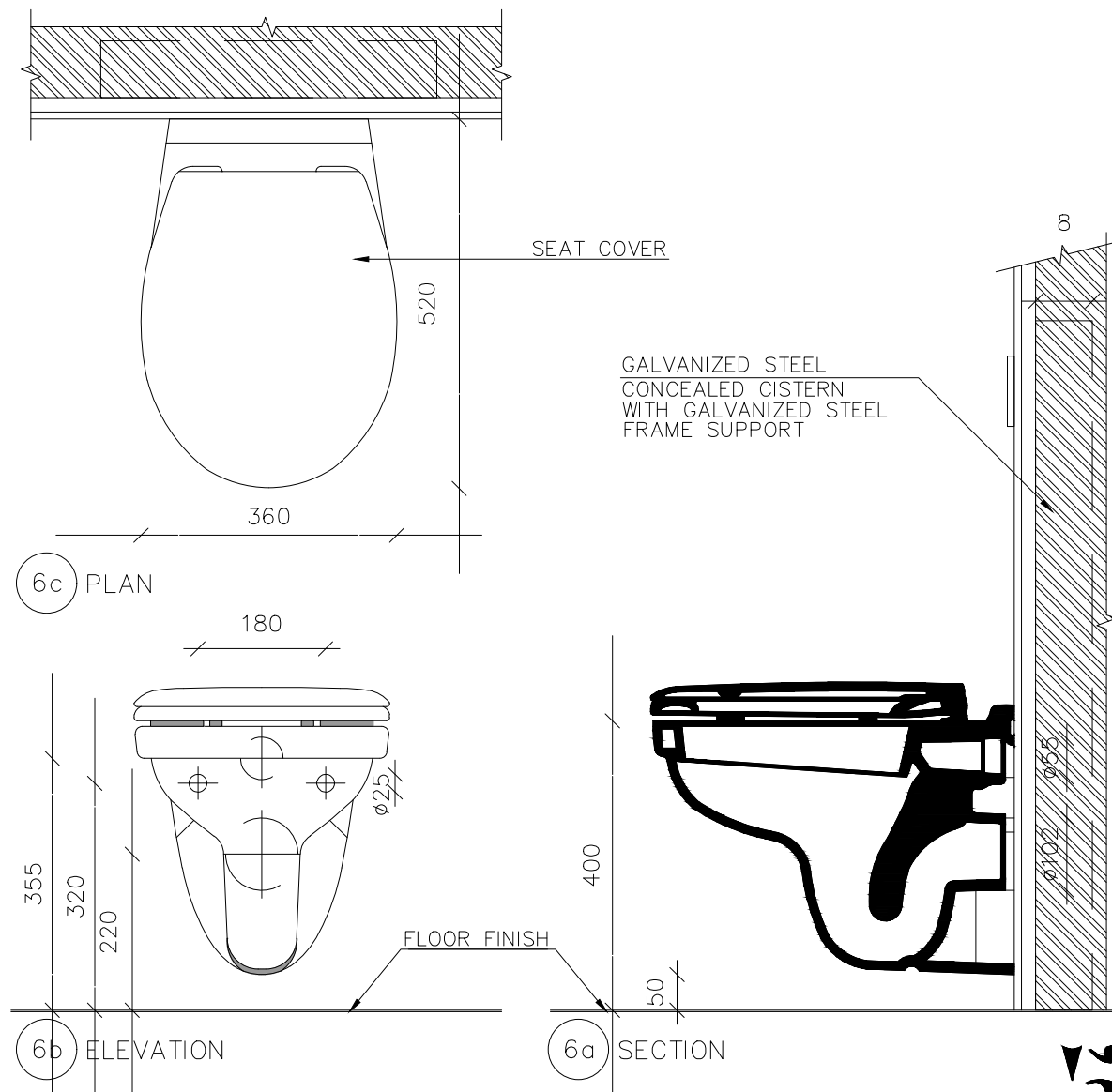
1b DETAILED ELEVATION
SCALE 1/20



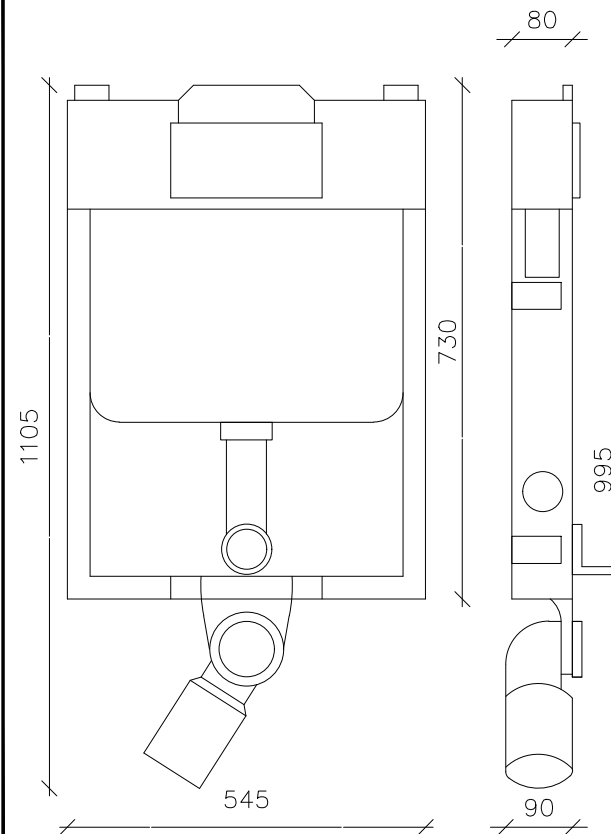
1a DETAILED BENCH PLAN
SCALE 1/20

PRECAST CONCRETE BENCH SCALE 1/20

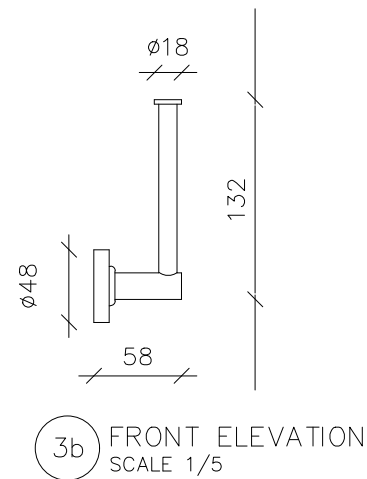
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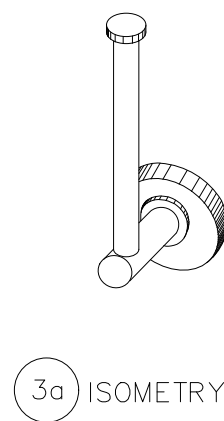
ADULTS WATER CLOSET SCALE 1/10



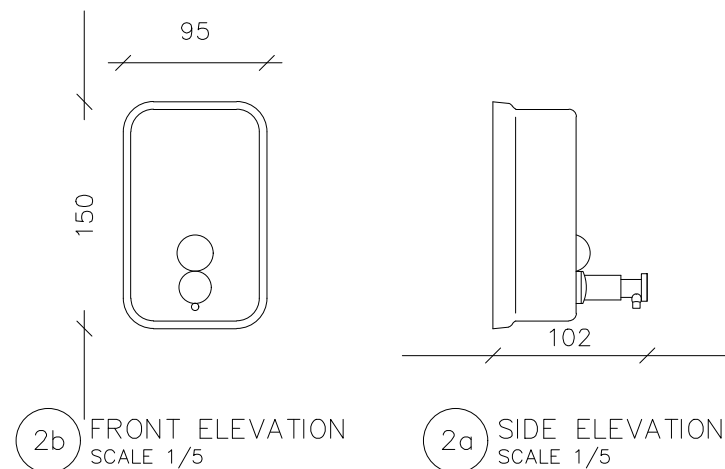
GALVANIZED STEEL CONCEALED CISTERN SCALE 1/10



TOILET TISSUE HOLDER WITHOUT COVER

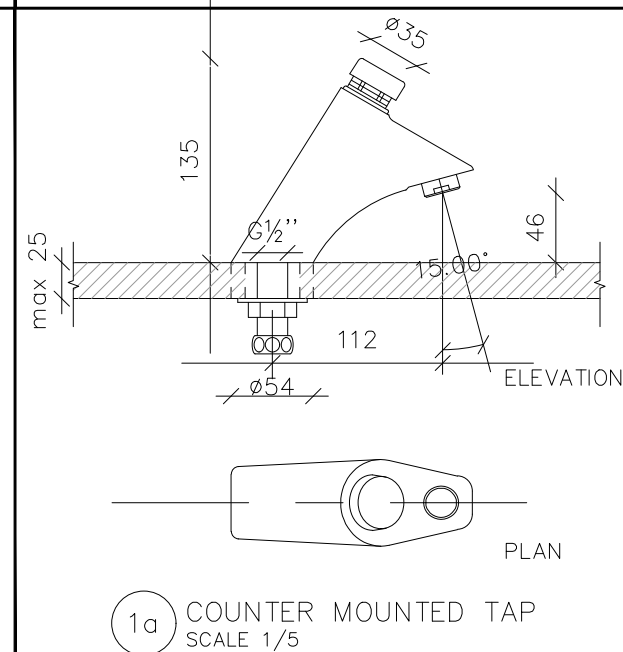


PAPER ROLL HOLDER

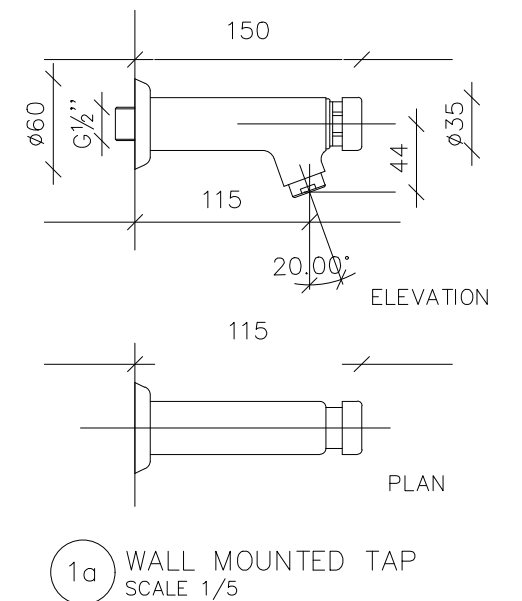


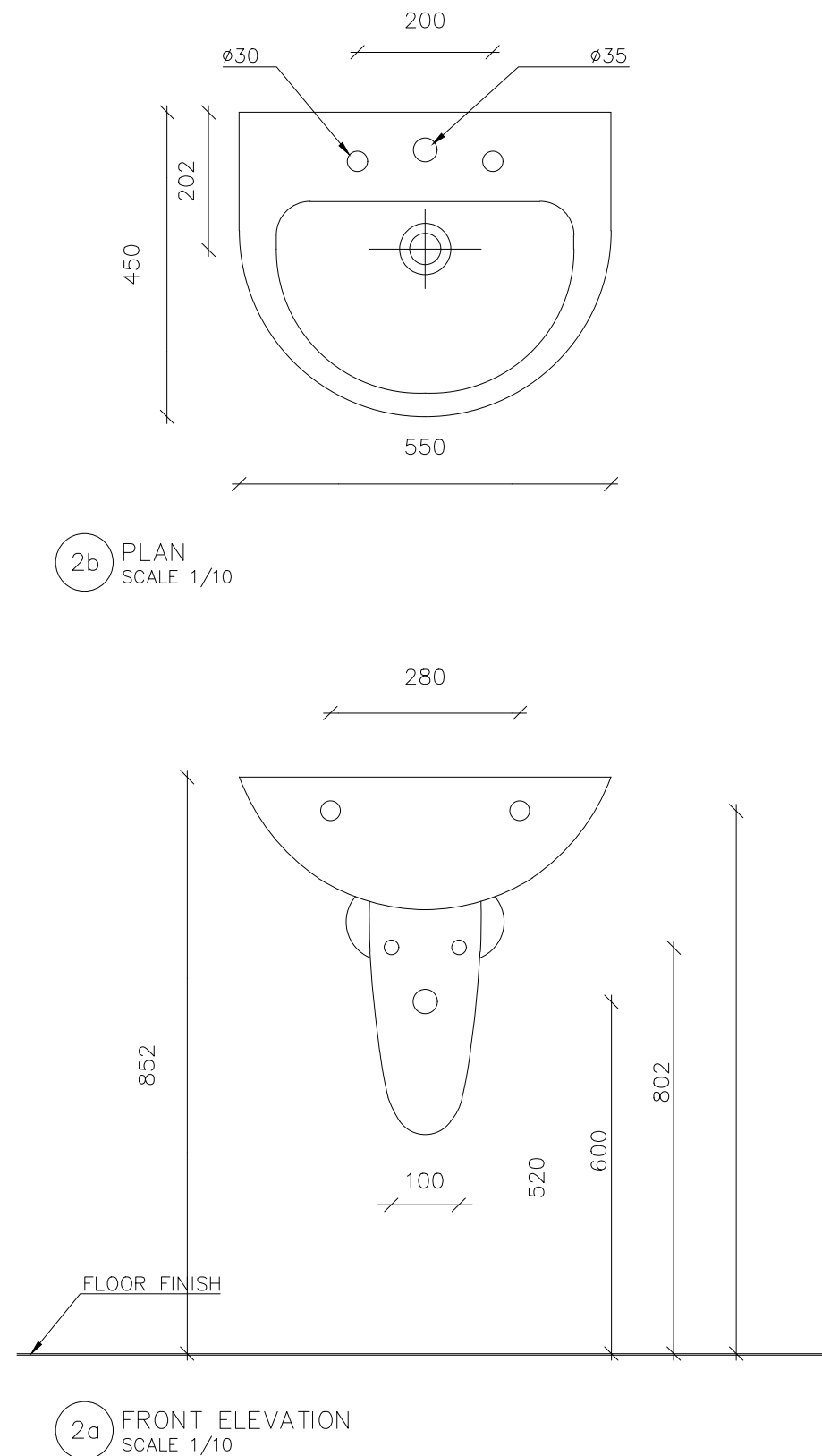
WALL MOUNTED SOAP DISPENSER 500ML, POLISHED STAINLESS STEEL

SOAP DISPENSER



SELF-CLOSING PILLAR TAP 1/2" COLD PUSH BUTTON

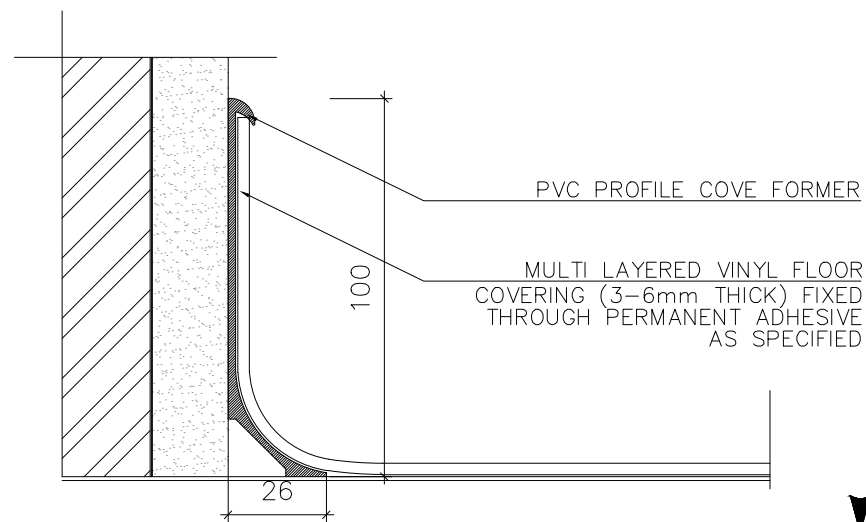




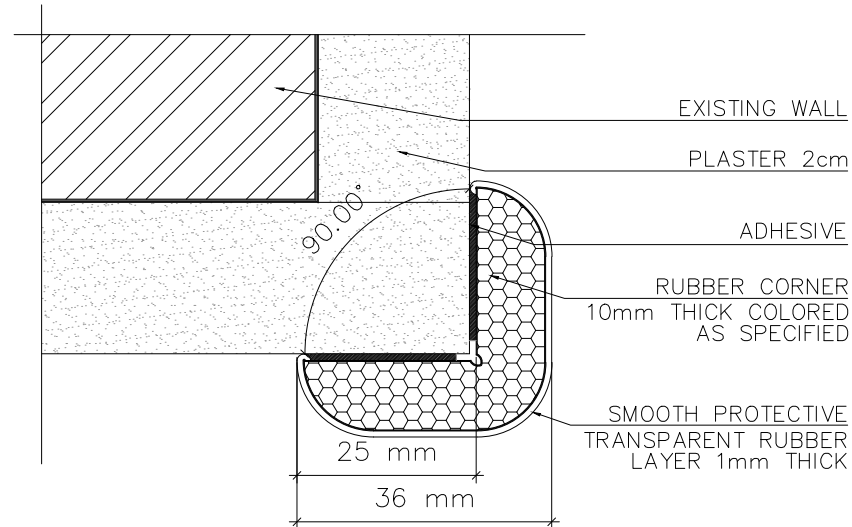
2b PLAN
SCALE 1/10

2a FRONT ELEVATION
SCALE 1/10

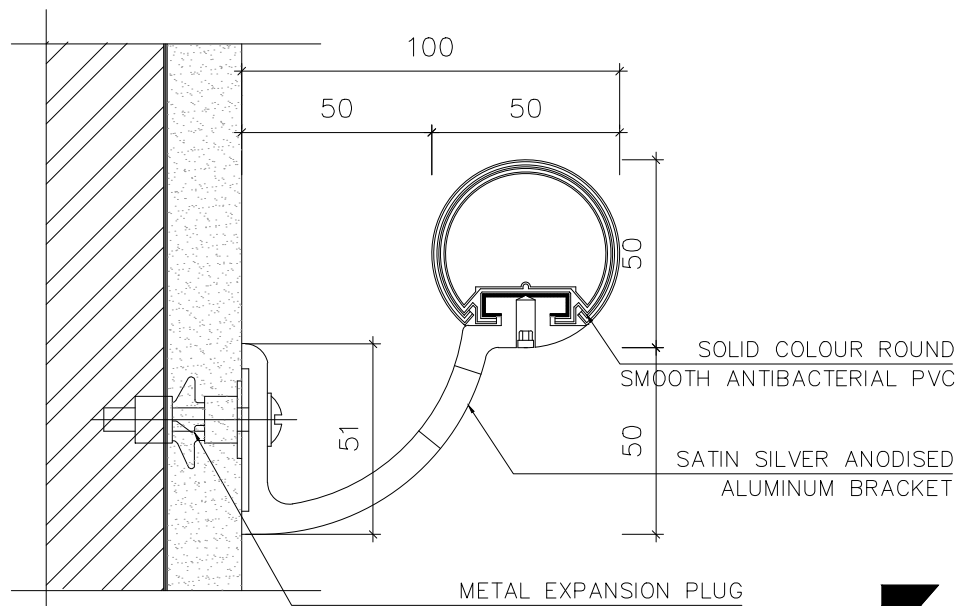
ADULTS LAVATORY - SEMI PEDESTAL



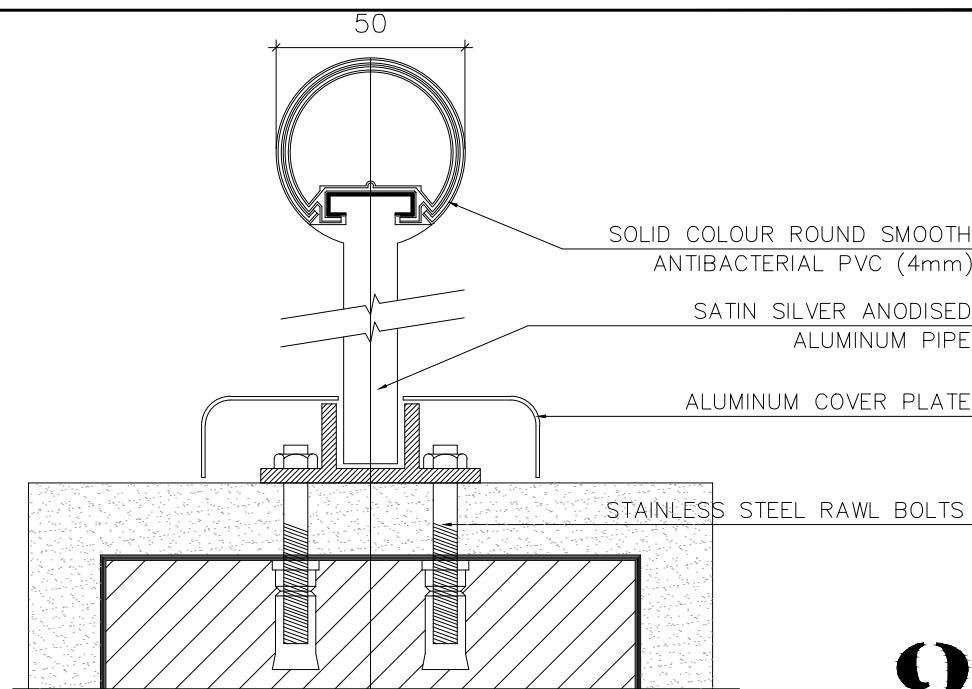
VINYL TILE FLOORING AT SKIRTING SCALE 1/2



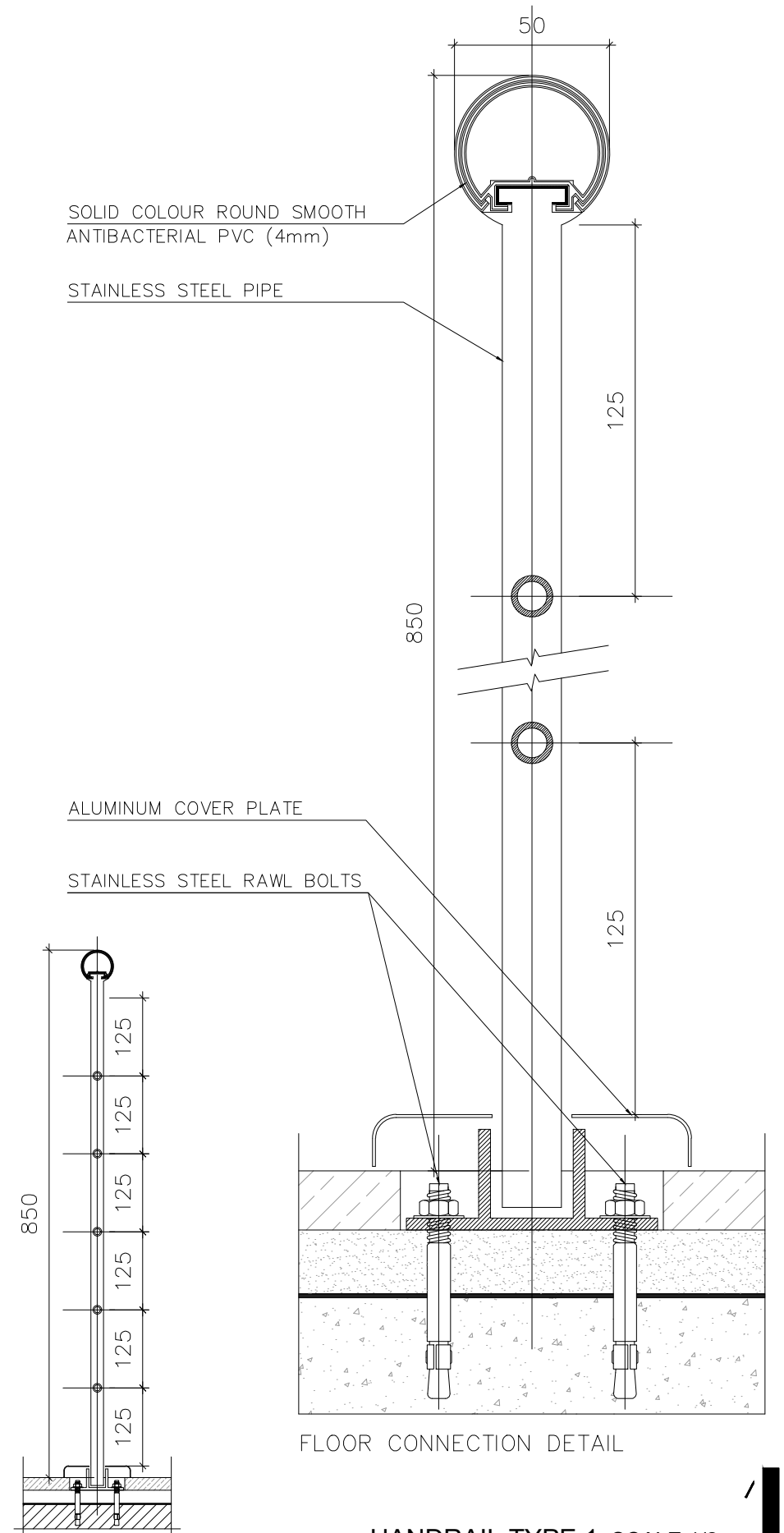
CORNER PROTECTION SCALE 1/1



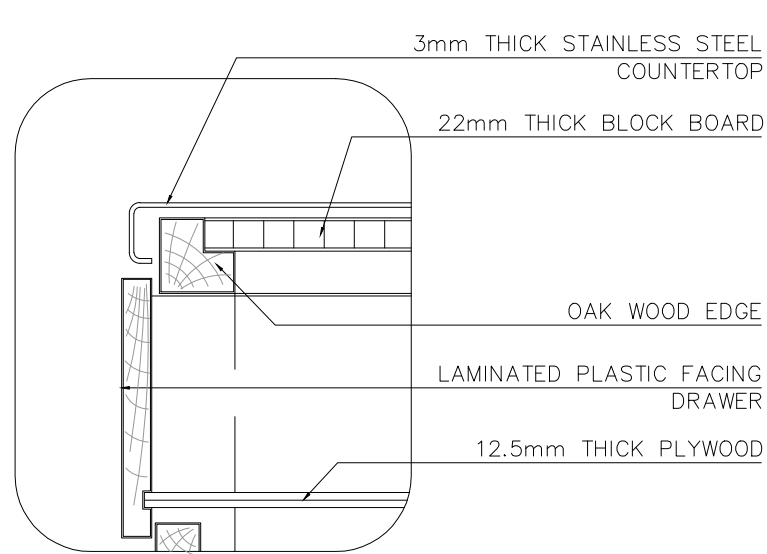
HANDRAIL TYPE 3 SCALE 1/2



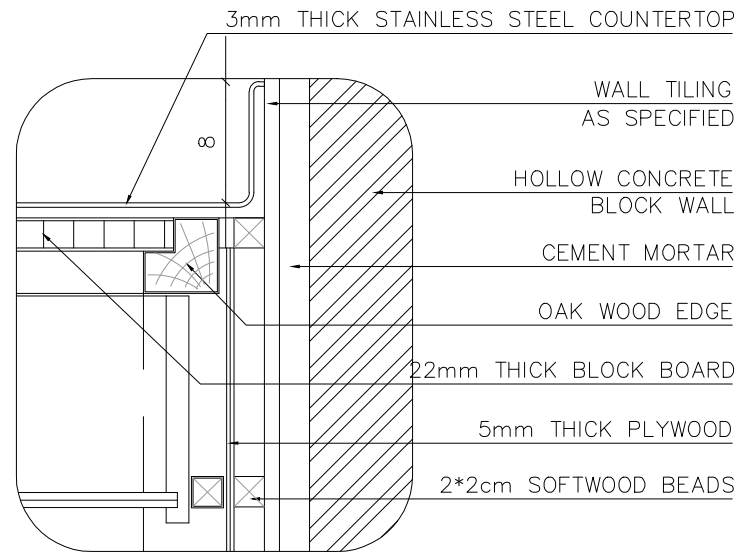
HANDRAIL TYPE 2 SCALE 1/2



HANDRAIL TYPE 1 SCALE 1/2

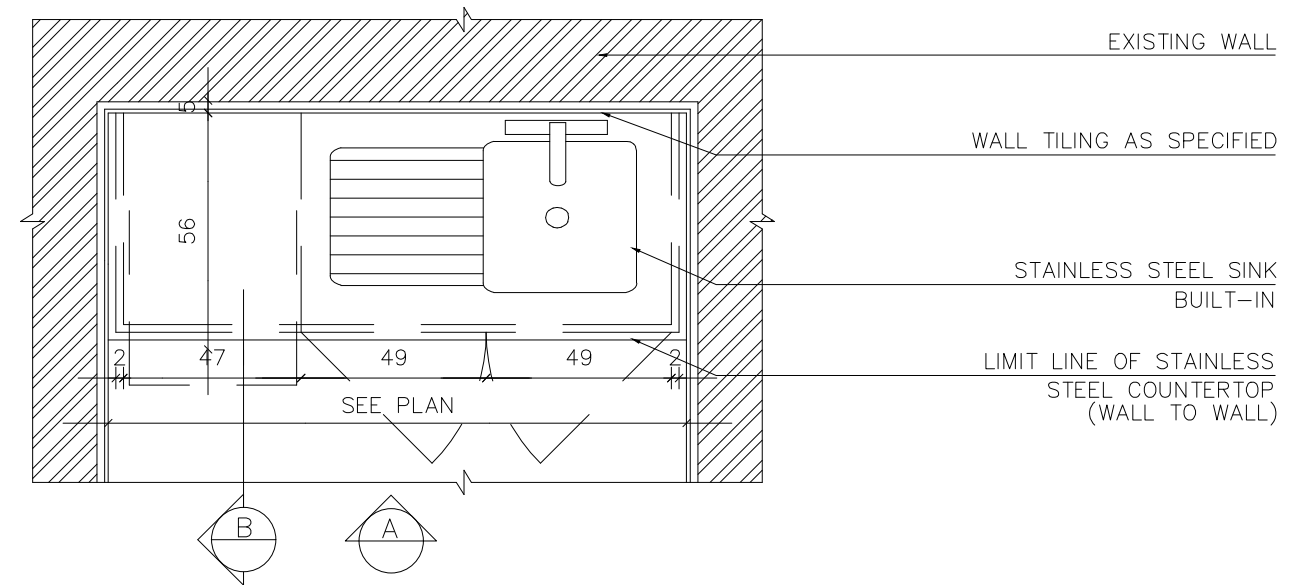


4b DETAIL AT COUNTERTOP END
SCALE 1/5

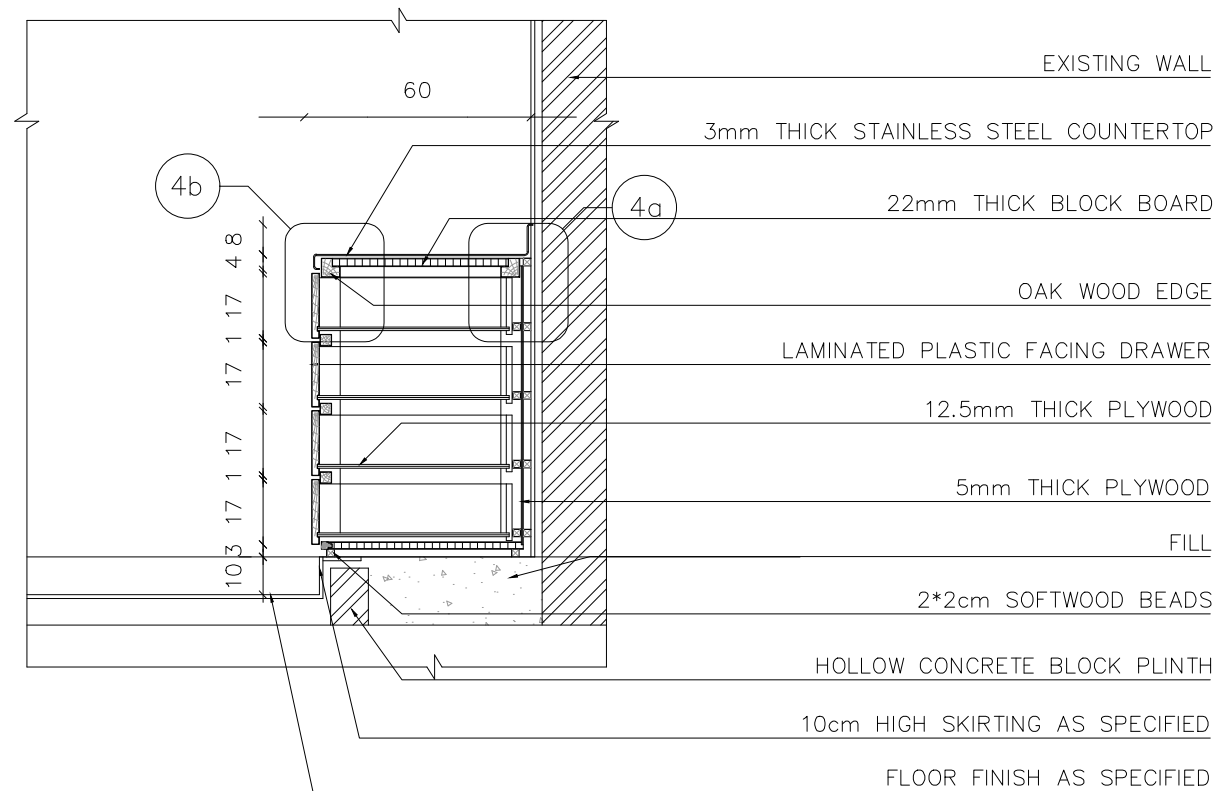


4a DETAIL AT WALL
SCALE 1/5

COUNTERTOP DETAILS SCALE 1/5

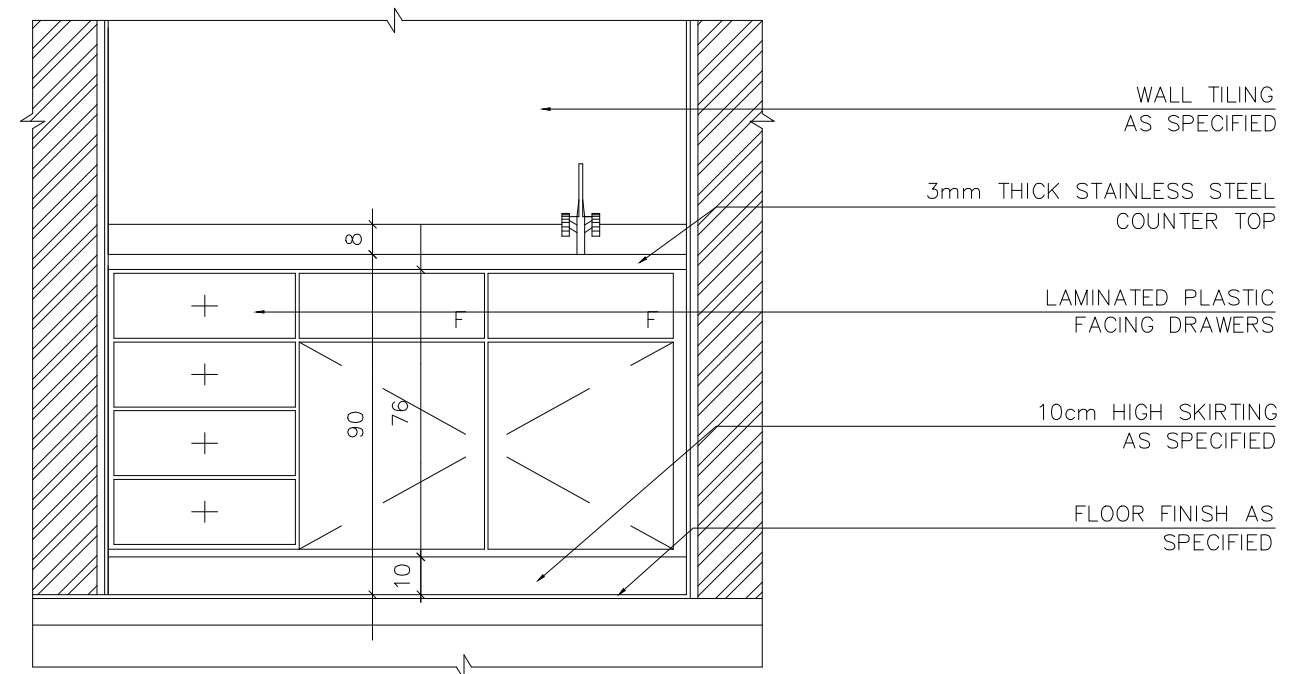


DETAILED PLAN SCALE: 1/20

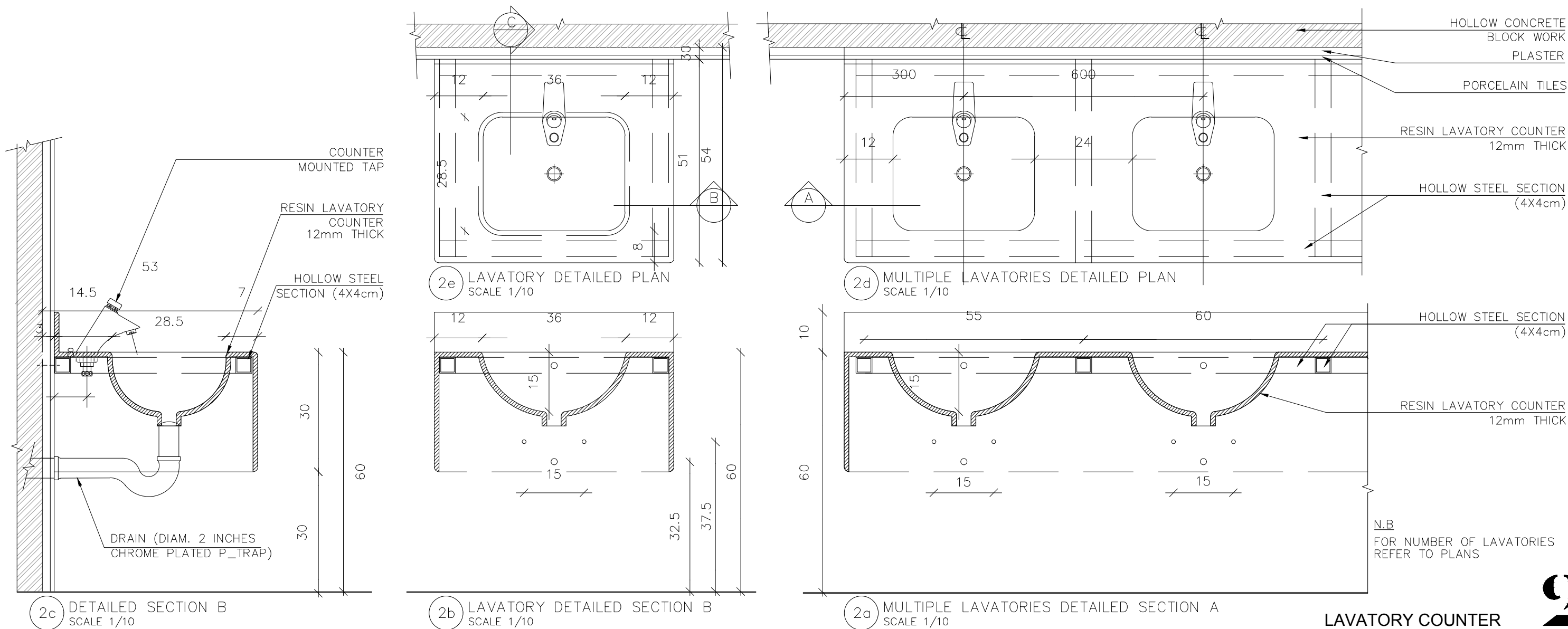


NOTE
THE CONTRACTOR SHOULD SUBMIT DETAILED SHOP DRAWINGS OF KITCHEN UNITS WITH ALL THE NECESSARY ACCESSORIES AND WAYS OF FIXATION PRIOR TO INSTALLATION TO THE APPROVAL OF THE ARCHITECT.

SECTION B SCALE: 1/20

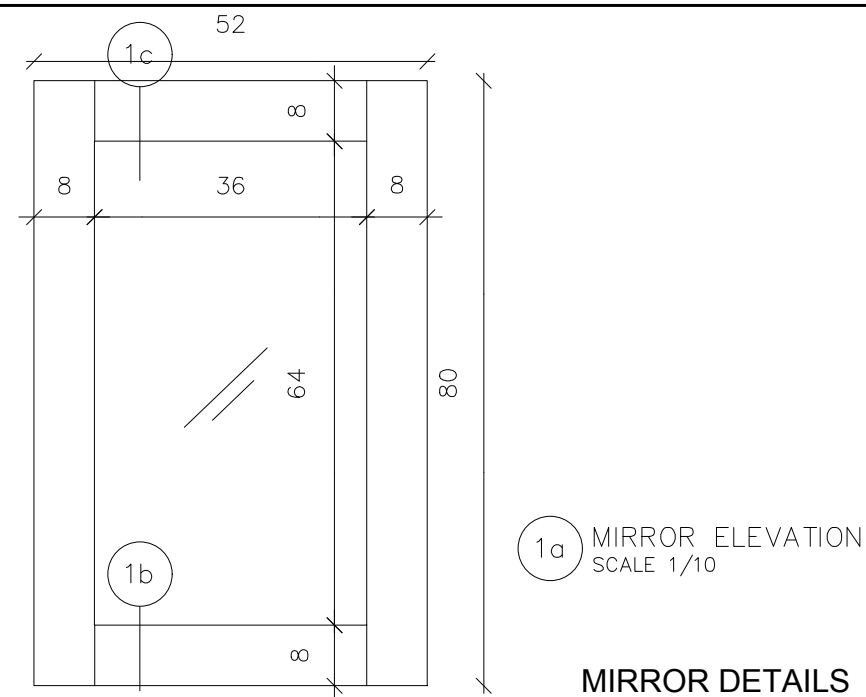
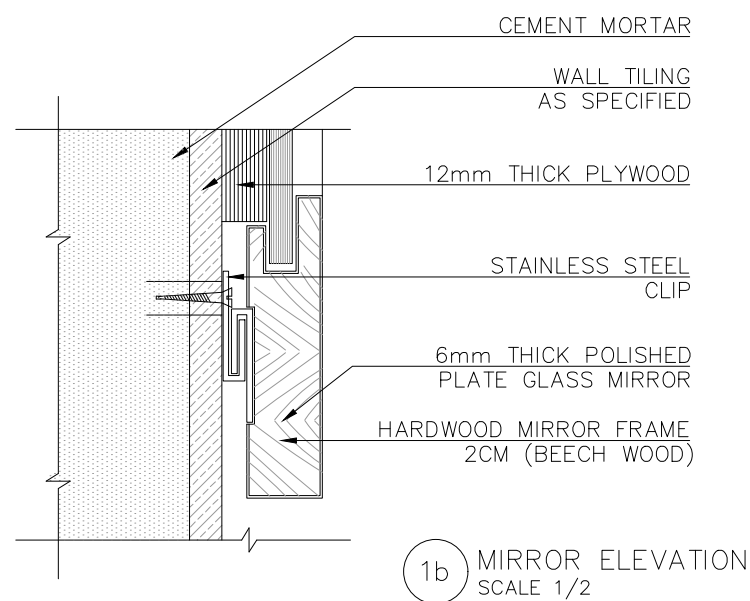
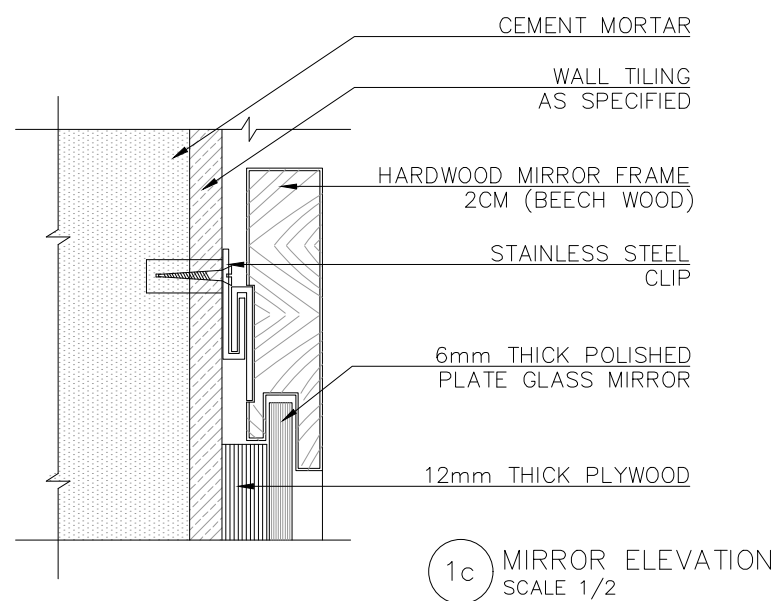


ELEVATION A SCALE: 1/20



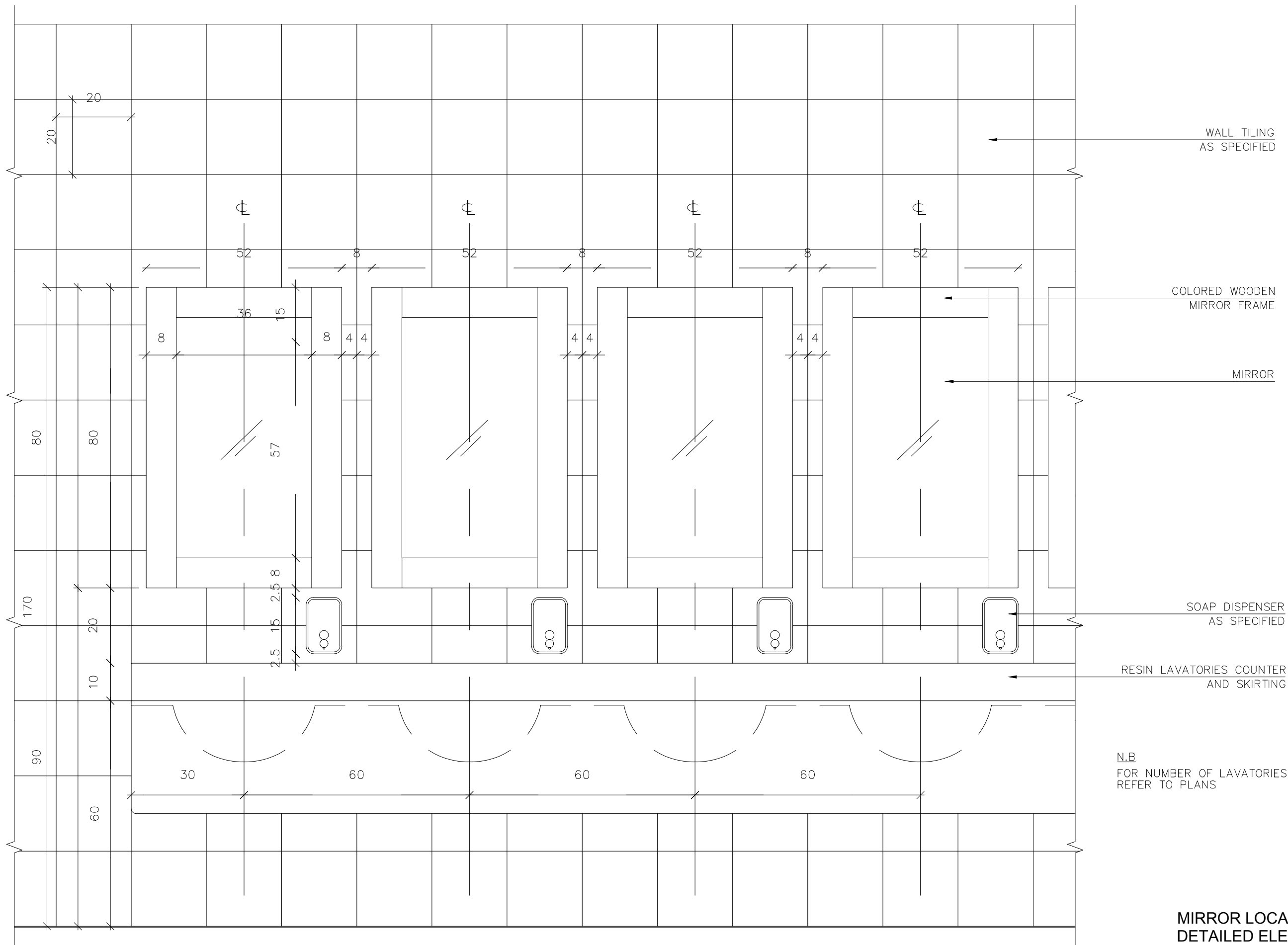
LAVATORY COUNTER

2

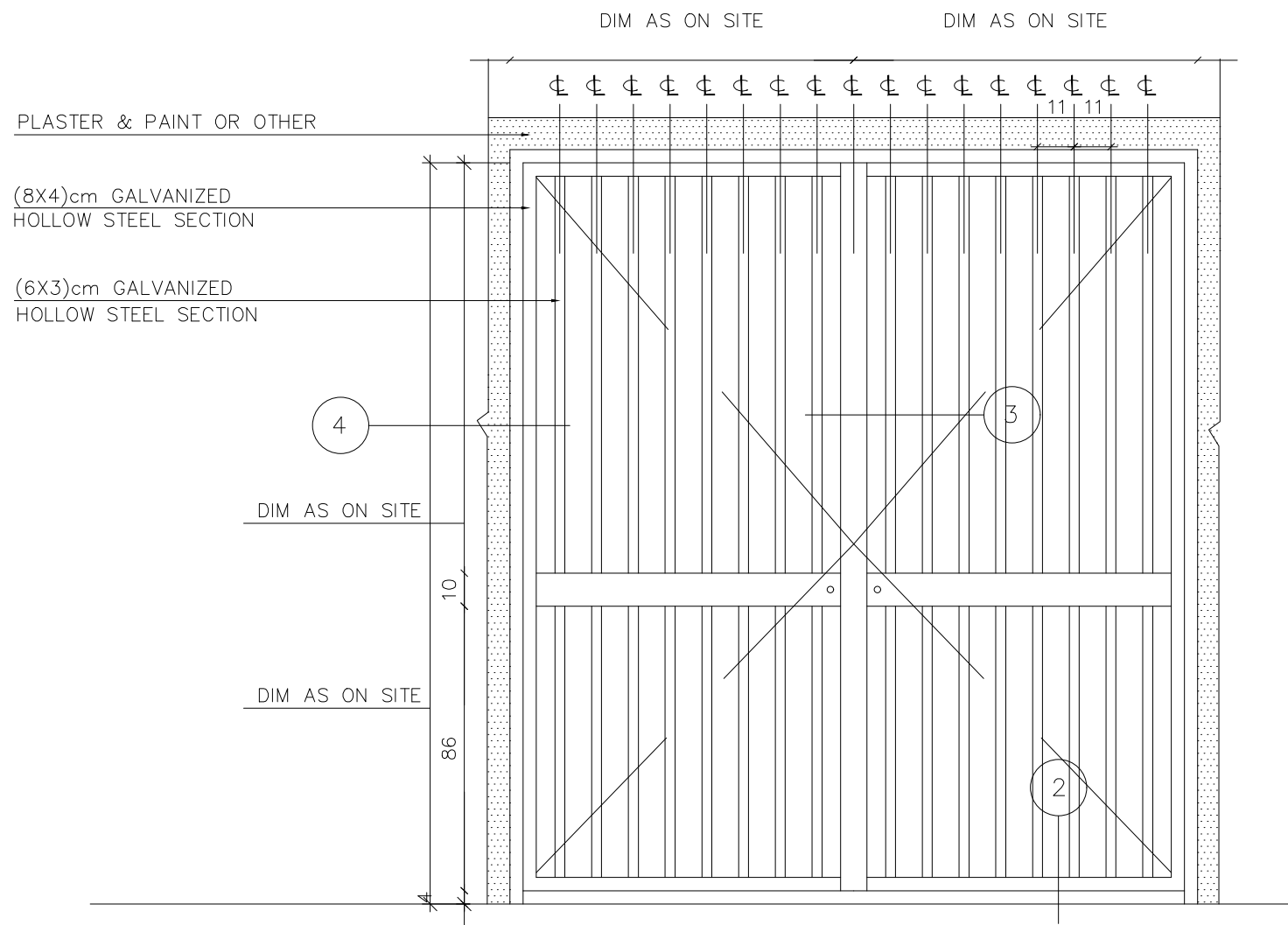


MIRROR DETAILS

1

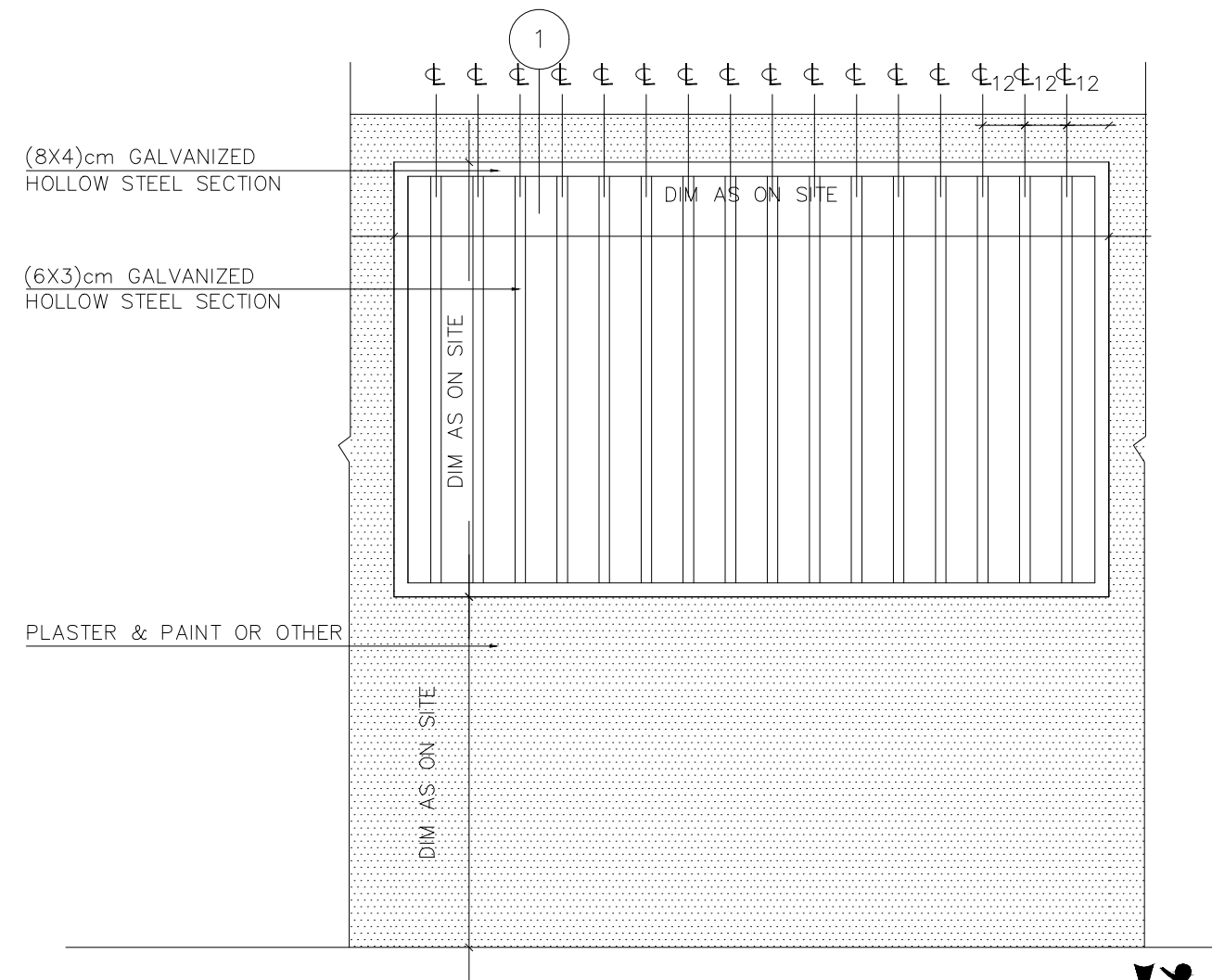


MIRROR LOCATION
DETAILED ELEVATION **1**



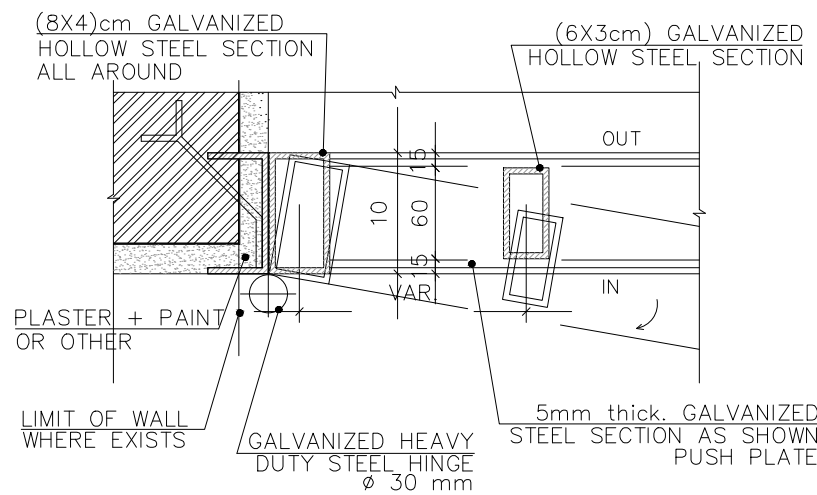
TWO LEAFS SIDE HINGED GALVANIZED STEEL BURGLAR PROOF PANELS DOOR ELEVATION
SCALE 1/20

6



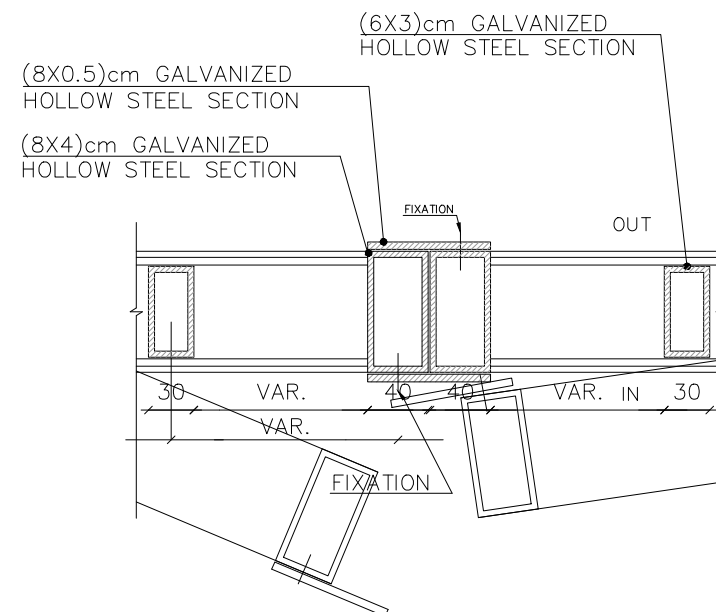
GALVANIZED STEEL BURGLAR PROOF PANELSWINDOW ELEVATION
SCALE 1/20

5



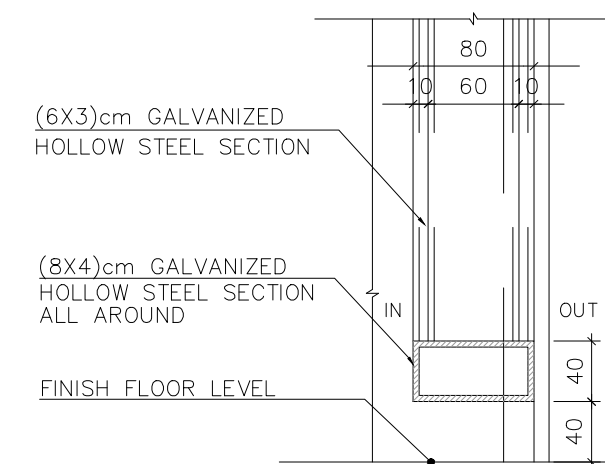
DETAILED SECTION FOR DOOR SIDE HINGED STEEL BURGLAR PROOF PANELS
SCALE 1/5

4



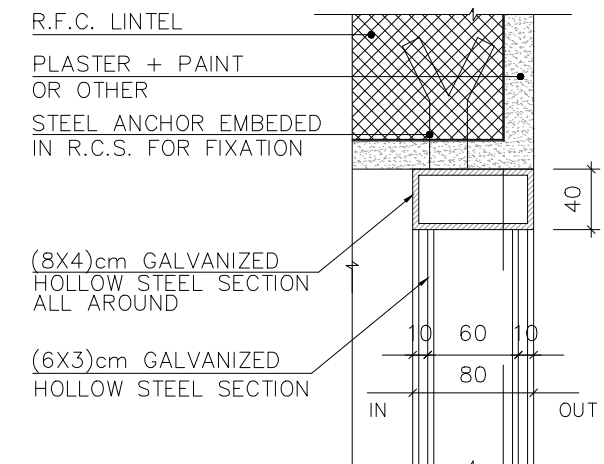
DETAILED SECTION FOR HINGED STEEL BURGLAR PROOF PANELS DOOR INTERSECTION
SCALE 1/5

3



DETAILED SECTION FOR GALV. STEEL BURGLAR PROOF PANELS OF DOOR AT FLOOR
SCALE 1/5

2



DETAILED SECTION FOR GALV. STEEL BURGLAR PROOF PANELS AT WINDOW LINTEL
SCALE 1/5

1



Beirut office: Tel.: 01-809316 - 809317 Fax : 01-809315
Saida office: Tel.: 07-726004 Tel.Fax : 07-725118
Email: info@LDRS-CO.com



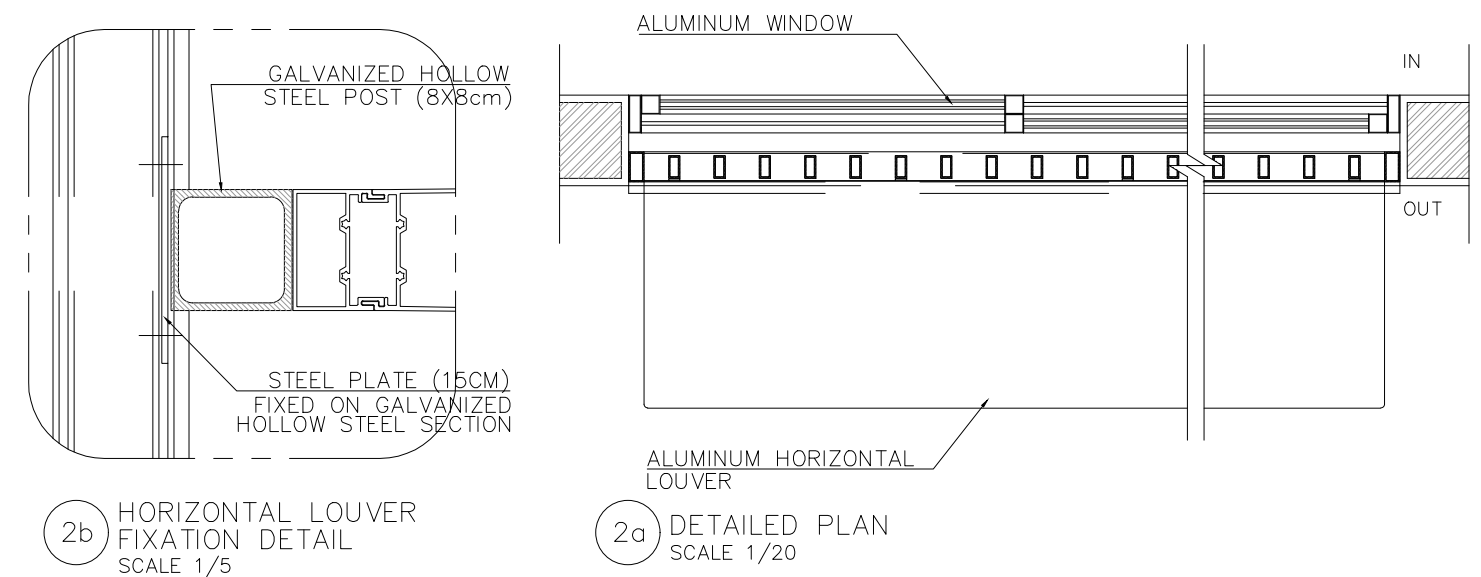
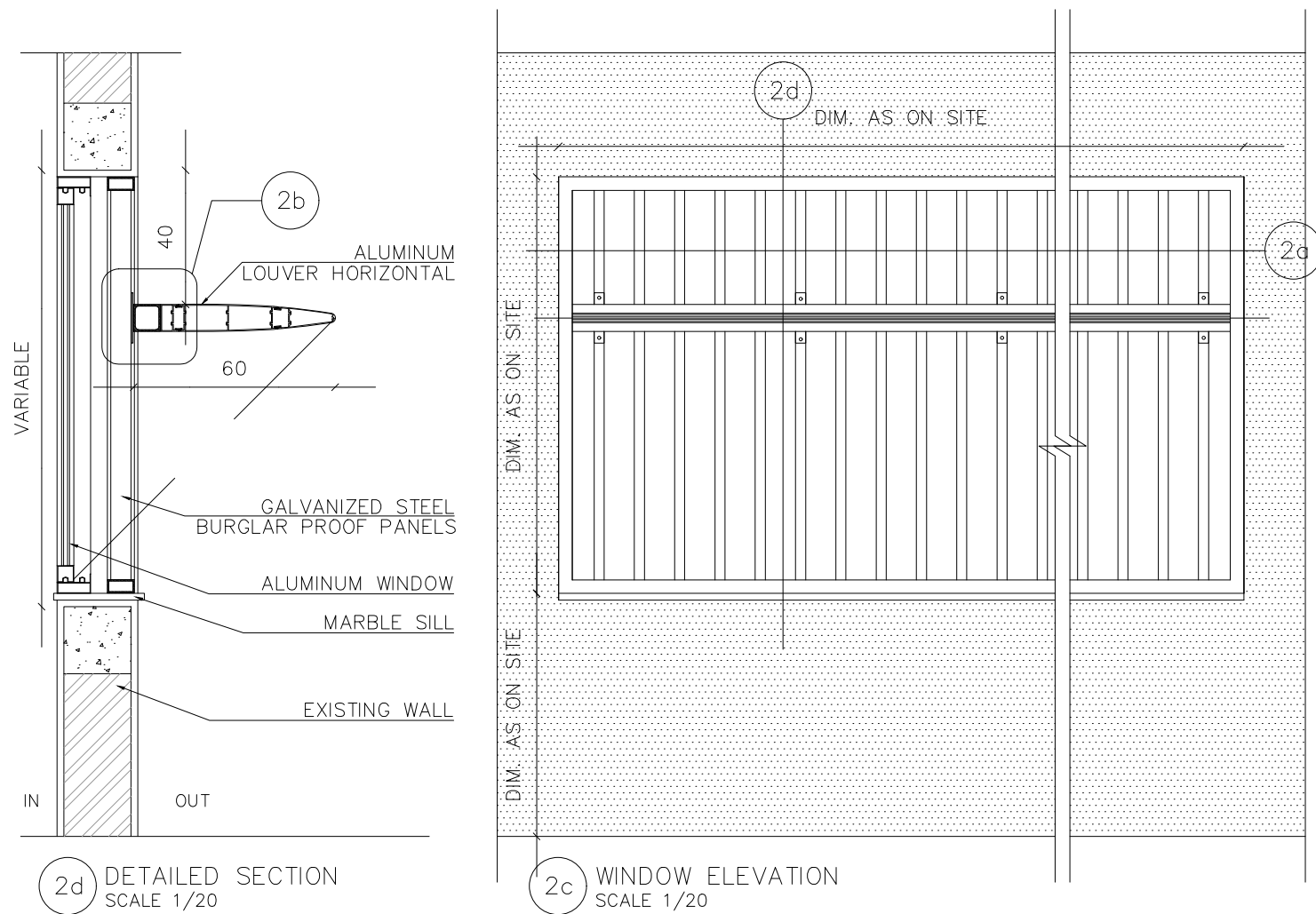
Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

BIR HASAN

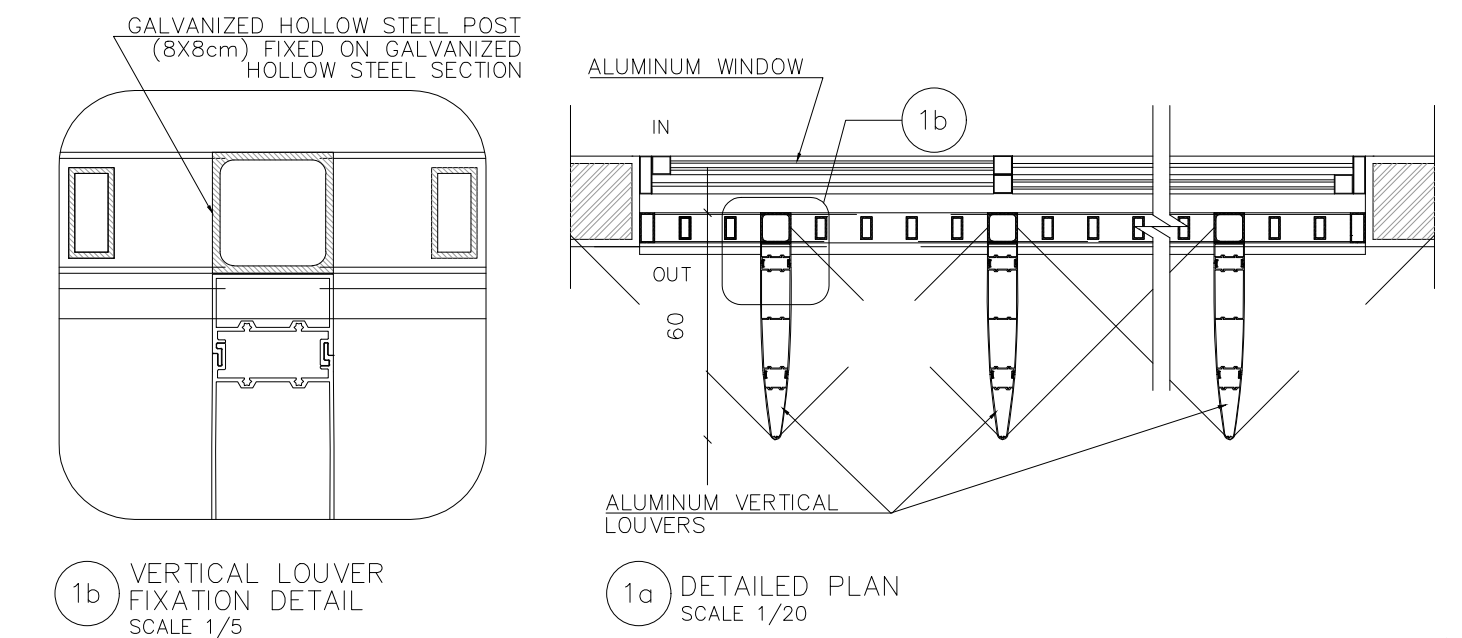
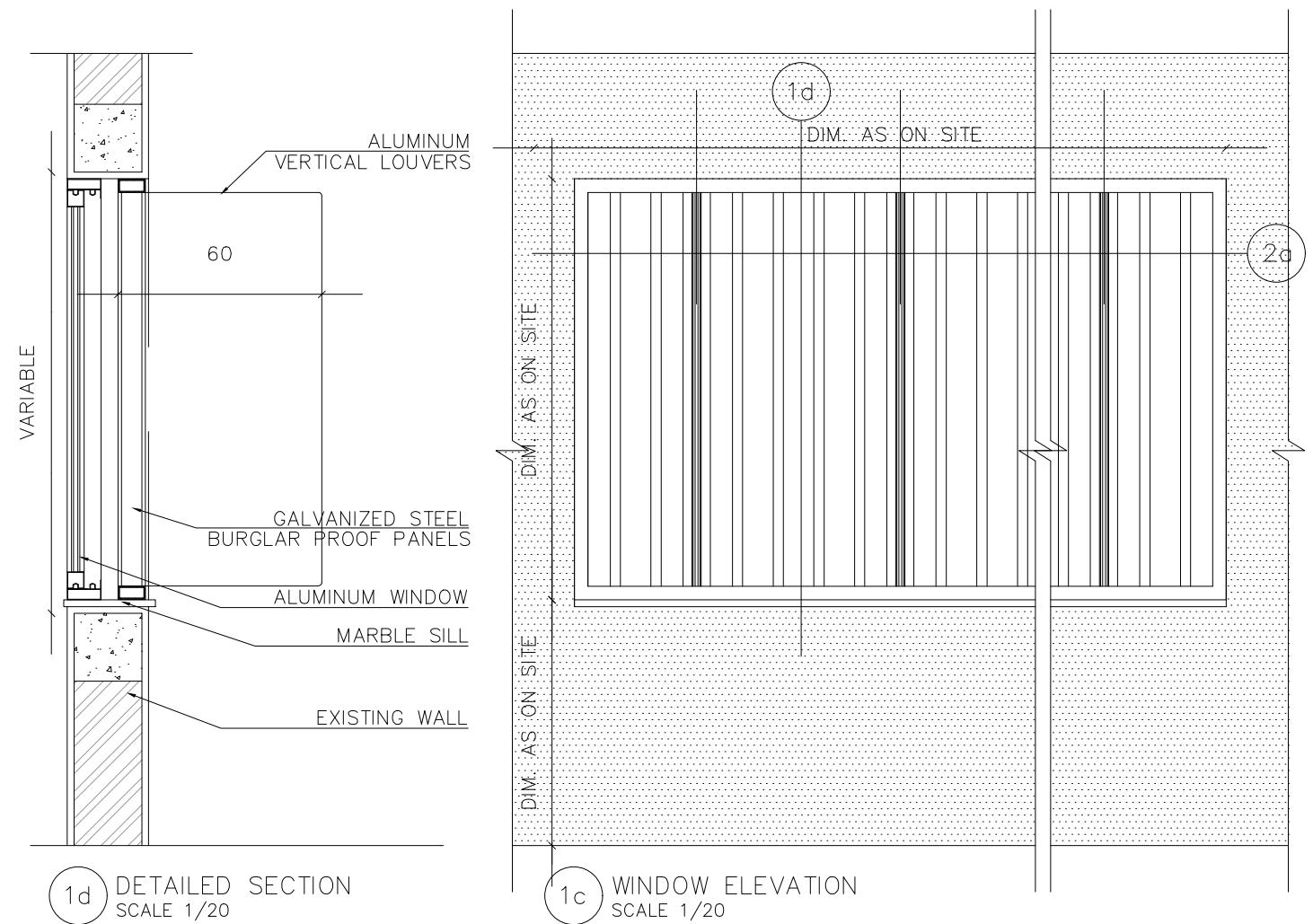
ANNEX-IX

Designed RA	Drawn AZ	Project Number: TL1203
Approved AC	Checked AS	Sheet Title: GENERAL DETAILS: Burglar Proof Door & Panel Details 1/2 A2401
Scale	Date August 2019	Sheet No.: Revision No.: 01
		General Location : Bir Hasan



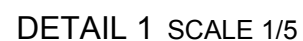
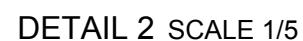
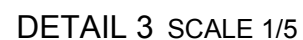
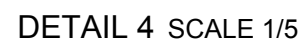
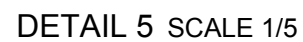
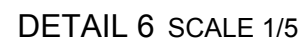
GALVANIZED STEEL BURGLAR PROOF PANELS WITH HORIZONTAL LOUVERS FOR SOUTEHRN ELEVATIONS

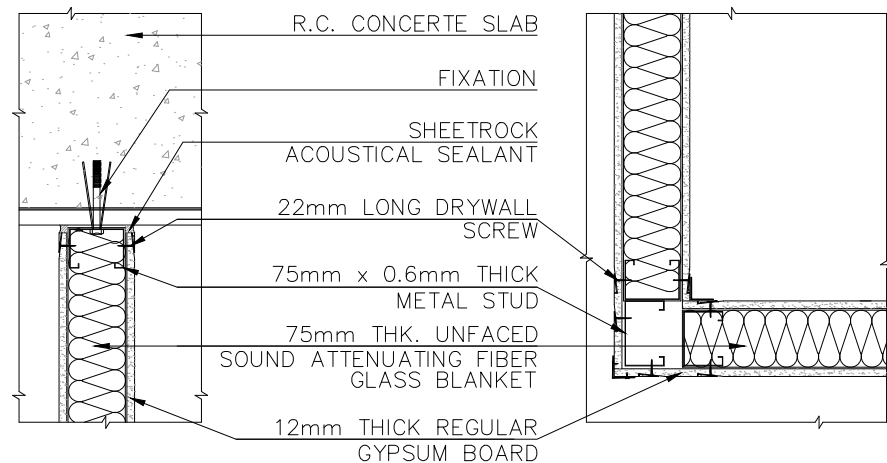
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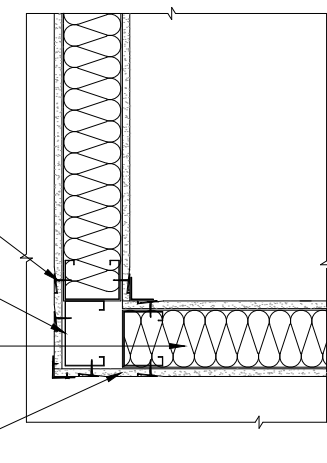
GALVANIZED STEEL BURGLAR PROOF PANELS WITH VERTICAL LOUVERS FOR EASTERN AND WESTERN ELEVATIONS

1

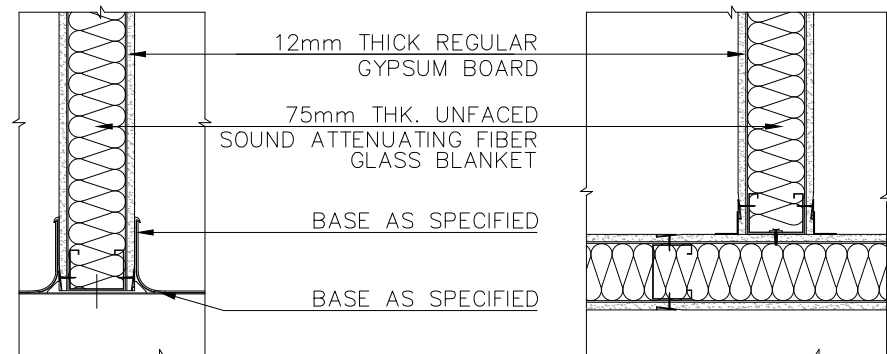




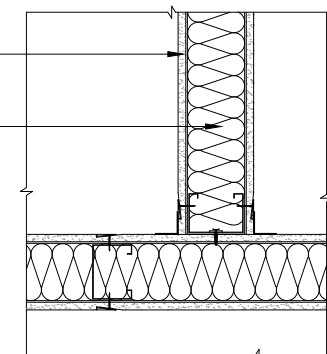
3e DETAIL AT CEILING
SCALE: 1/5



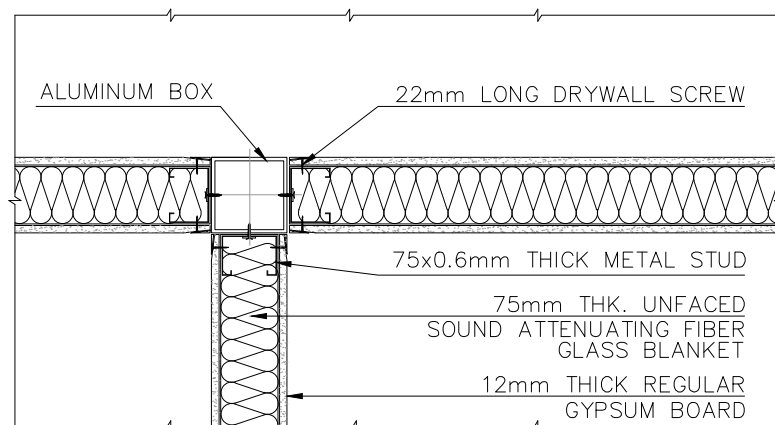
3d DETAIL AT CORNER
SIDE SCALE: 1/5



3c DETAIL AT FLOOR
SCALE: 1/5



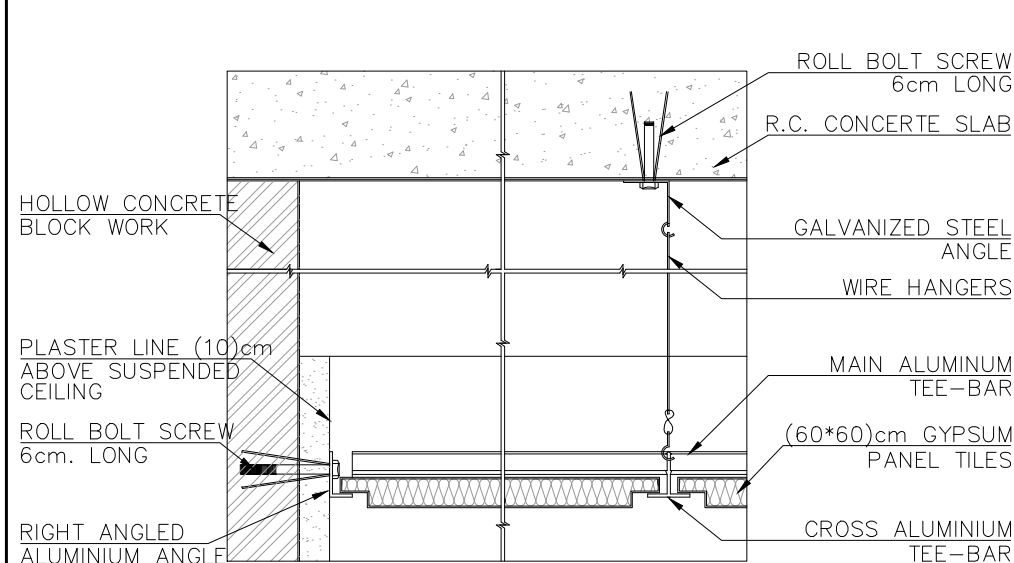
3b DETAIL AT PARTITIONS
INTERSECTION SCALE: 1/5



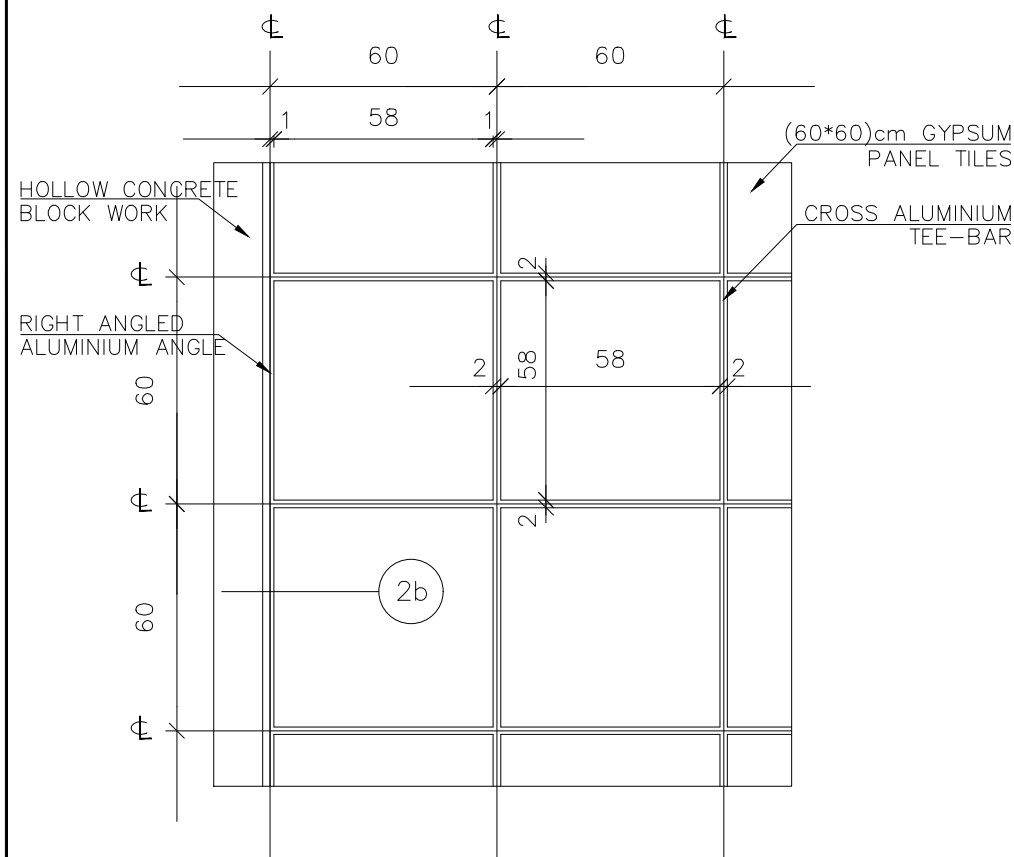
3a DETAIL AT PARTITIONS INTERSECTION
SCALE: 1/5

GYPSUM BOARD PARTITION

3



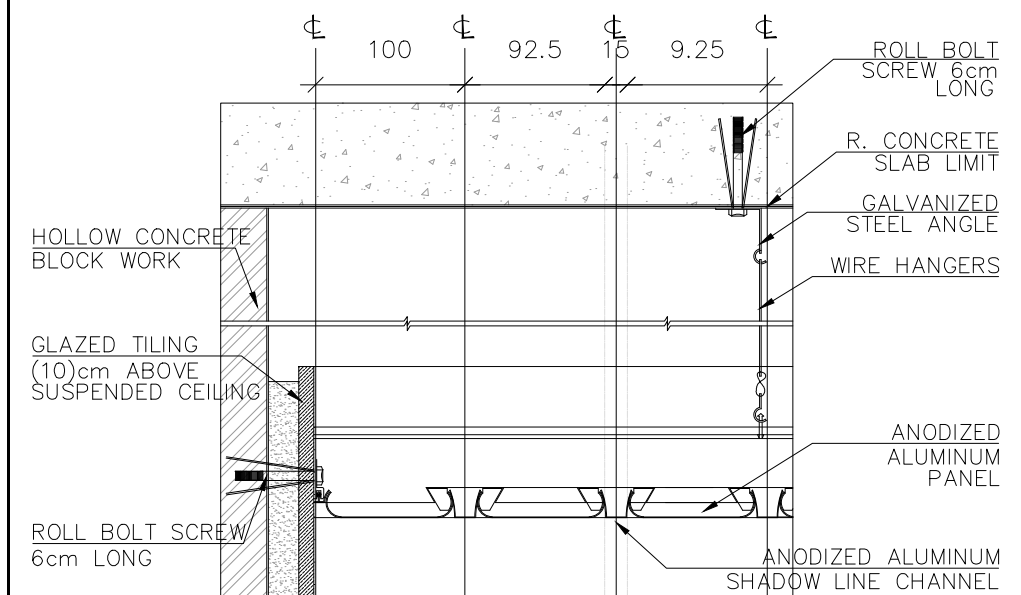
2b DETAILED SECTION
SCALE: 1/5



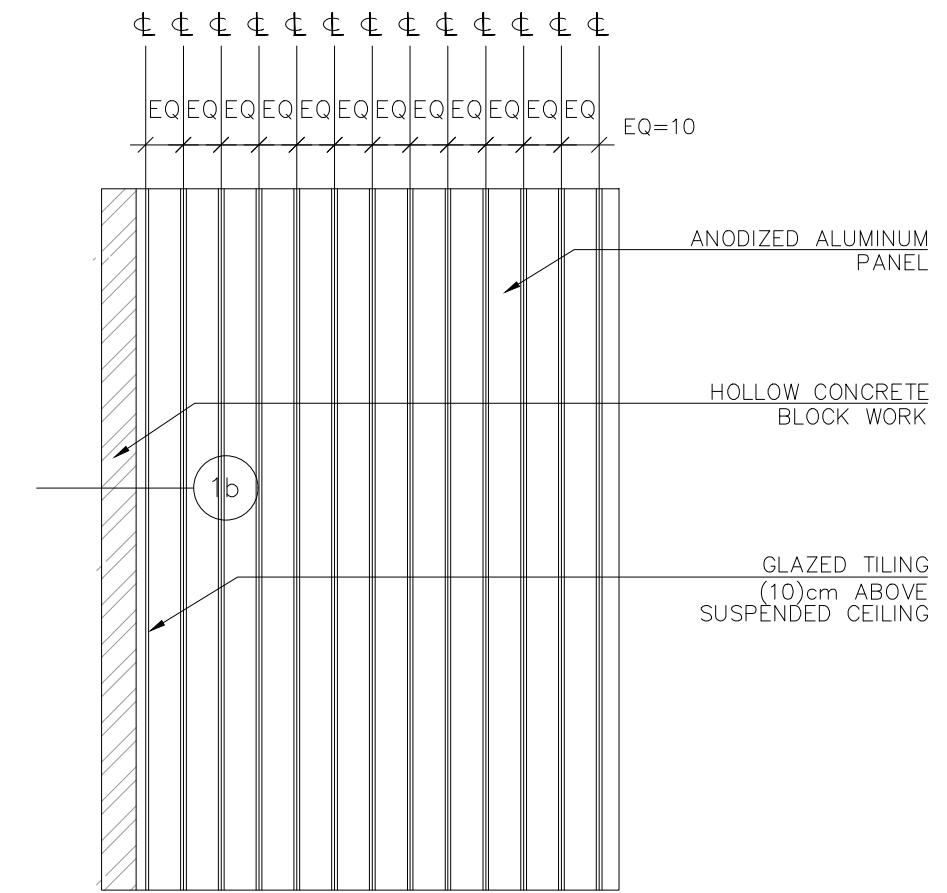
2a REFLECTED CEILING PLAN OF GYPSUM BOARDS
SCALE: 1/20

GYPSUM PANEL TILES SUSPENDED CEILING

2



1b DETAILED SECTION
SCALE: 1/5



1a REFLECTED CEILING PLAN
SCALE: 1/20

ANODIZED ALUMINUM STRIPS SUSPENDED CEILING

1

TYPICAL SECTION FOR FIXED ANTI-DUST STEEL LOUVERS SCALE : 1/50

ALUMINUM WINDOW SCHEDULE SCALE 1/20

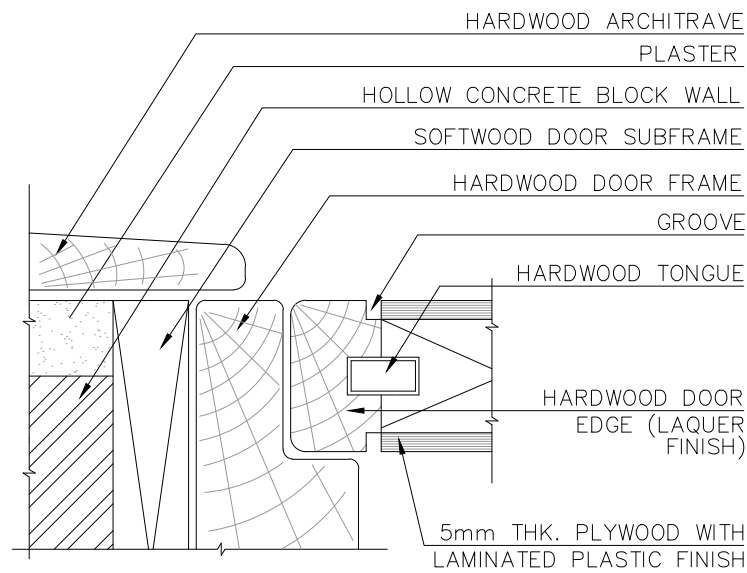
TYPICAL FRAME OF ELECTRICAL ROOM DOOR SCALE : 1/50

STEEL DOORS AND WINDOWS SCHEDULE SCALE 1/20

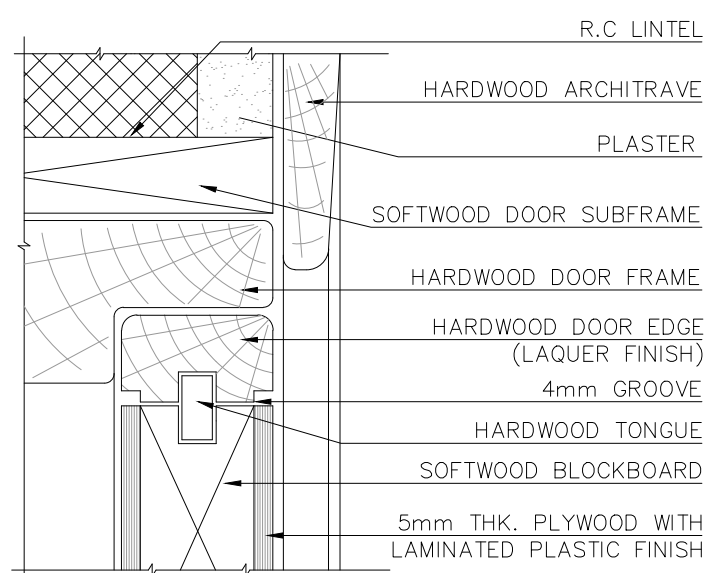
STEEL DOOR SKELETON

SWING DOOR SKELETON

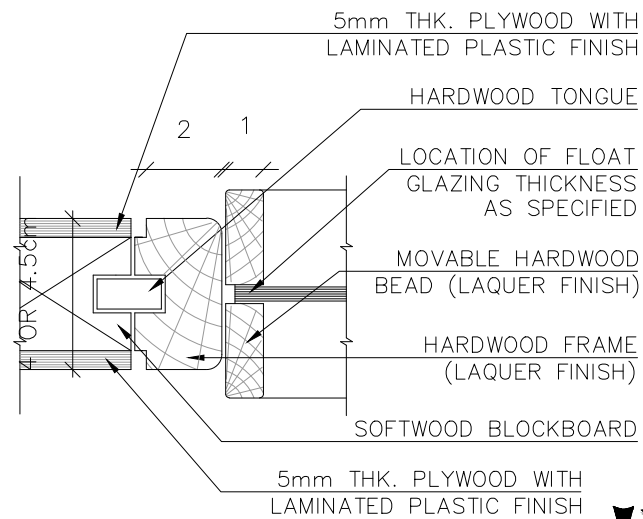
WOODEN DOOR SCHEDULE SCALE 1/20



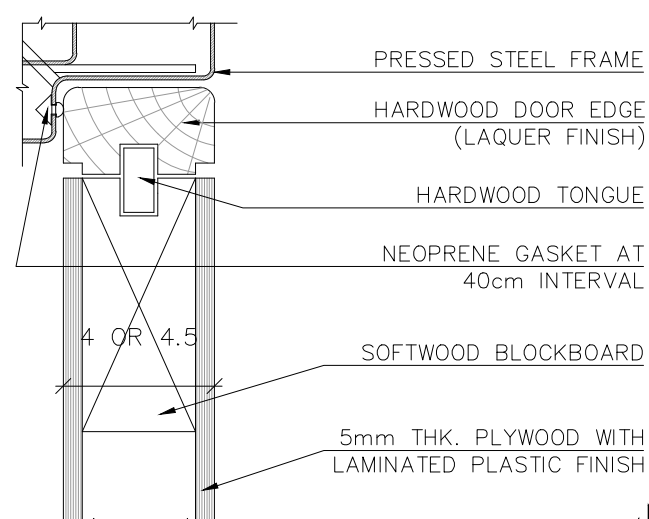
DETAIL AT DOOR EDGE
(WOOD FRAME) SCALE : 1/2



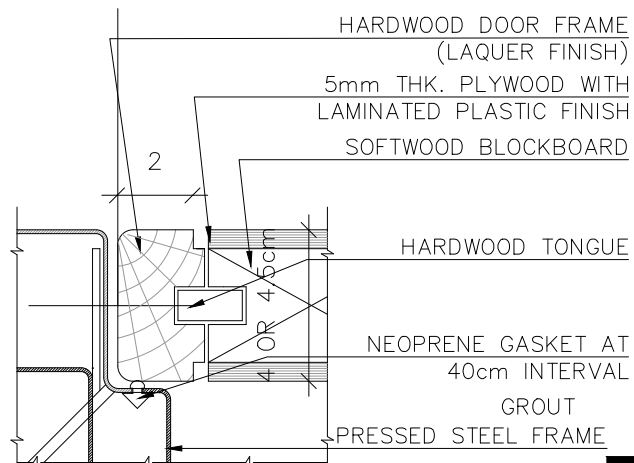
DETAIL AT DOOR TOP
(WOOD FRAME) SCALE : 1/2



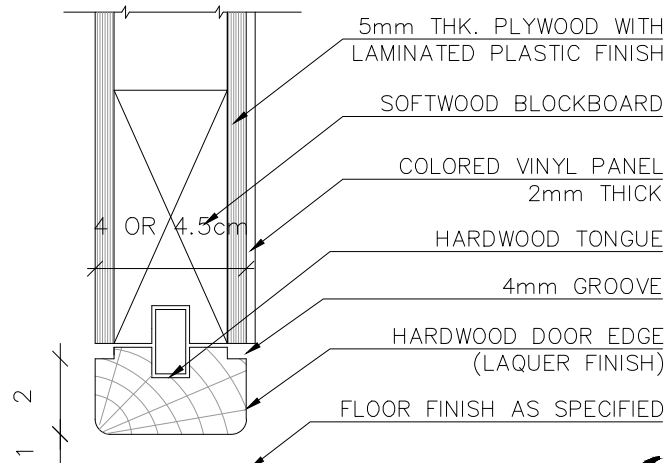
DETAIL OF WOOD DOOR AT
MIDDLE LIGHT SCALE : 1/2



DETAIL AT DOOR TOP
(STEEL FRAME) SCALE : 1/2



DETAIL AT DOOR EDGE
(STEEL FRAME) SCALE : 1/2



DETAIL AT DOOR SADDLE
SCALE : 1/2

VIEW PERMITTING OPENING

COLORED LAMINATED PLASTIC FINISH

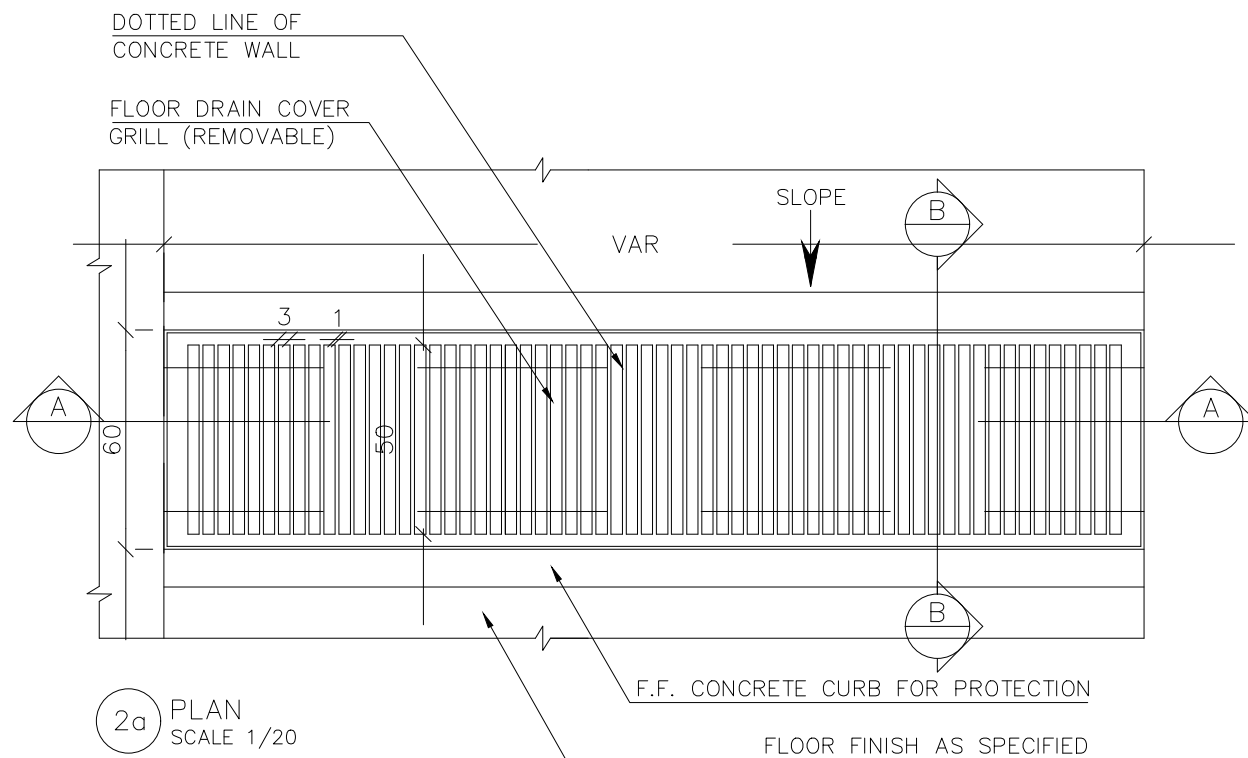
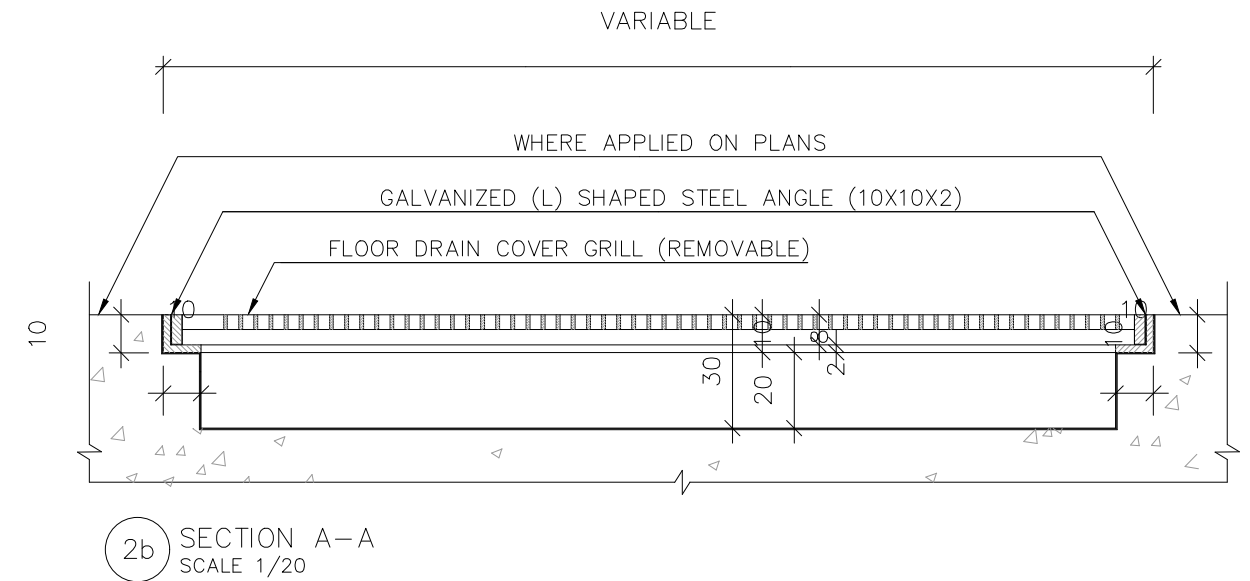
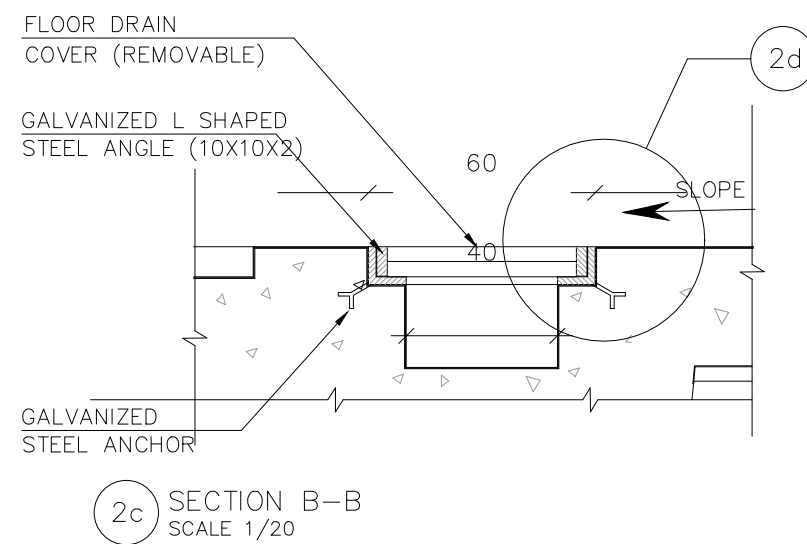
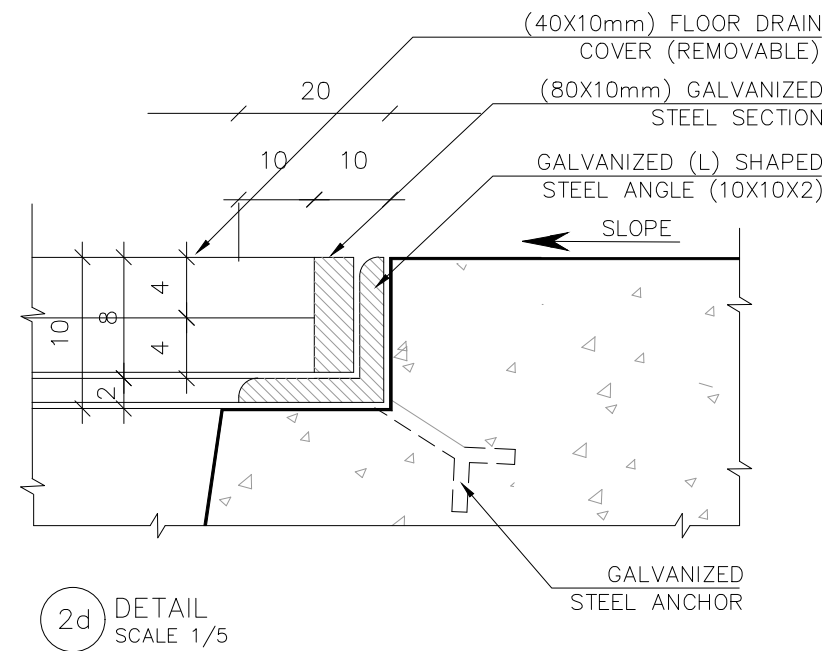
STAINLESS STEEL DOOR HANDLE

COLORED VINYL PANEL 2mm THICK

SCALE : 1/10

PLASTIC LAMINATE FLUSH WOOD DOOR WITH VIEW PERMITTING
OPENING (CLEAR) ELEVATION

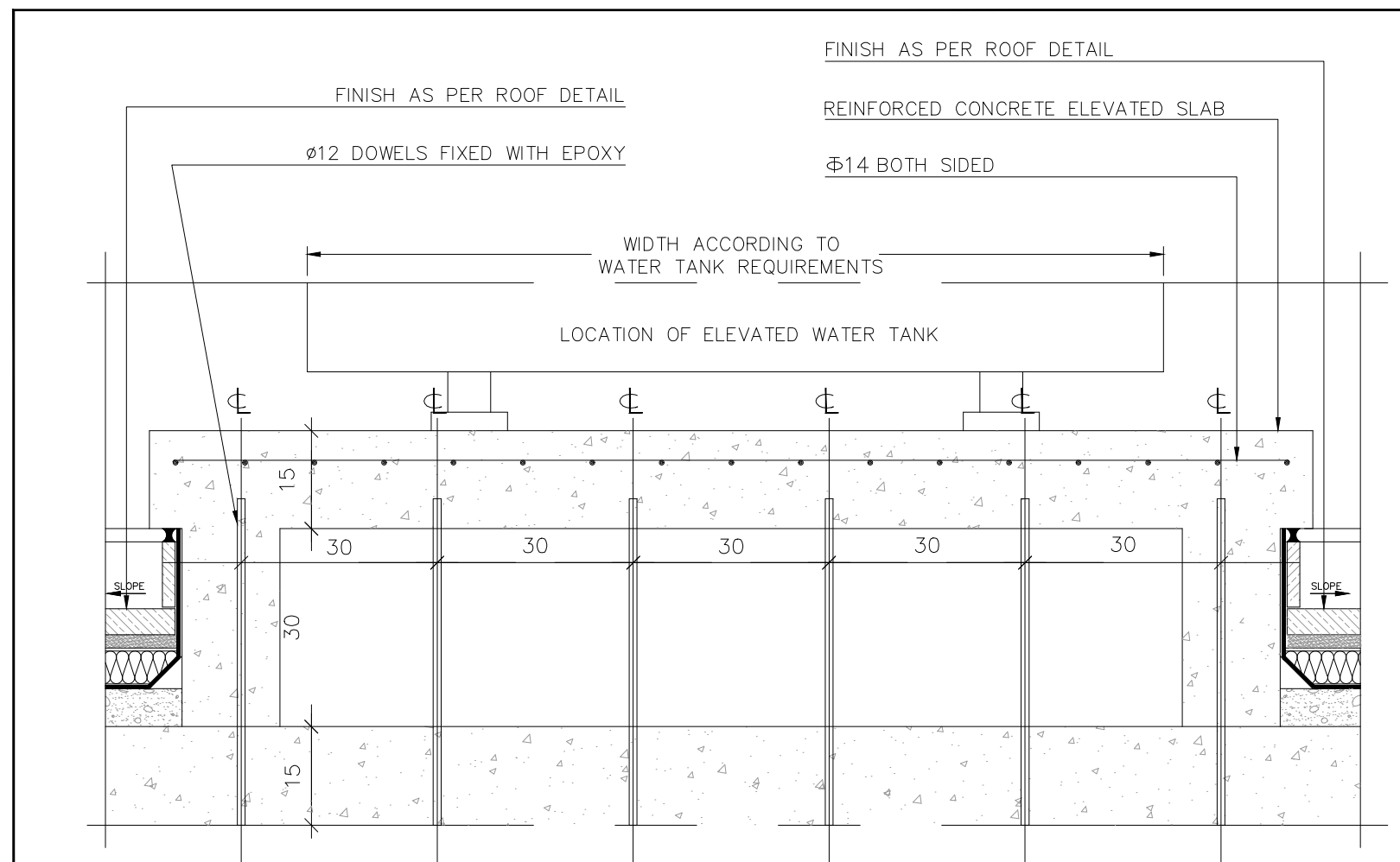
DIM AS PER SITE



NOTE
THE CONTRACTOR SHOULD SUBMIT DETAILED SHOP DRAWINGS OF FLOOR DRAIN WITH ALL THE NECESSARY ACCESSORIES & WAYS OF FIXATION TO THE APPROVAL OF THE ARCHITECT.

WATER CHANNEL DETAIL

2



WATER TANK BASE DETAIL SCALE 1/10

1

LDRS
CHEHAB & PARTNERS
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Saida office: Tel.: 07-726004 Tel.Fax : 07-725118
Email: info@LDRS-CO.com



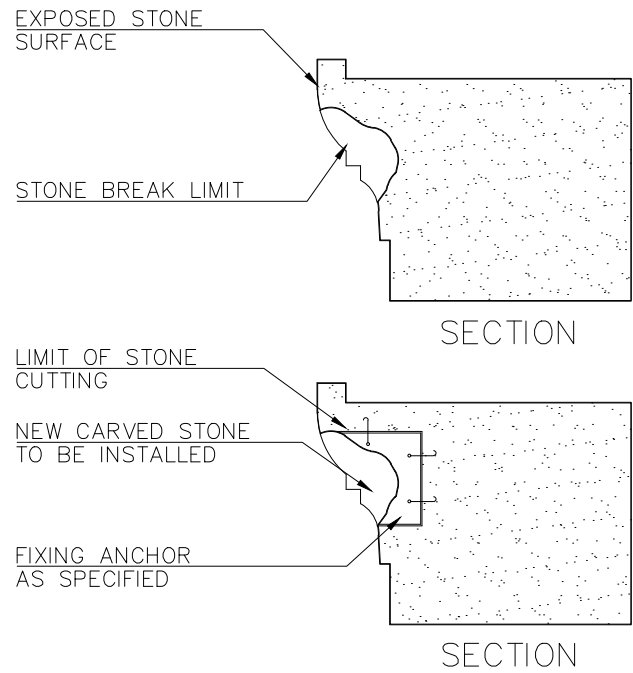
Rehabilitation of UNESCO Office Premises in Beirut

(Contract No. 4500398541)

BIR HASAN

ANNEX-IX

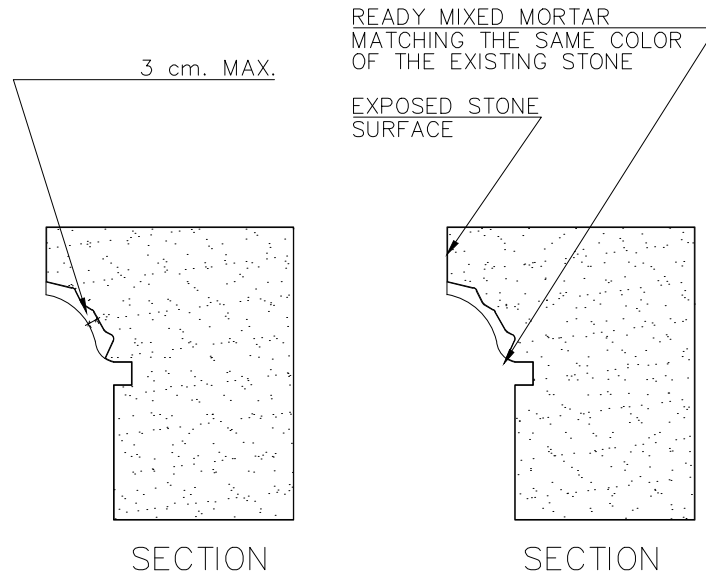
Designed RA	Drawn AZ	Project Number: TL1203
Approved AC	Checked AS	Sheet Title: GENERAL DETAILS: Water Tank Base/Water Channel Details A3001
Scale	Date August 2019	Sheet No.: Revision No.: 01
		General Location : Bir Hasan



FOR DAMAGES NOT EXCEEDING 10cm IN DEPTH. (FLAT STONE)

TYPICAL STONE REPAIR TYPE 8

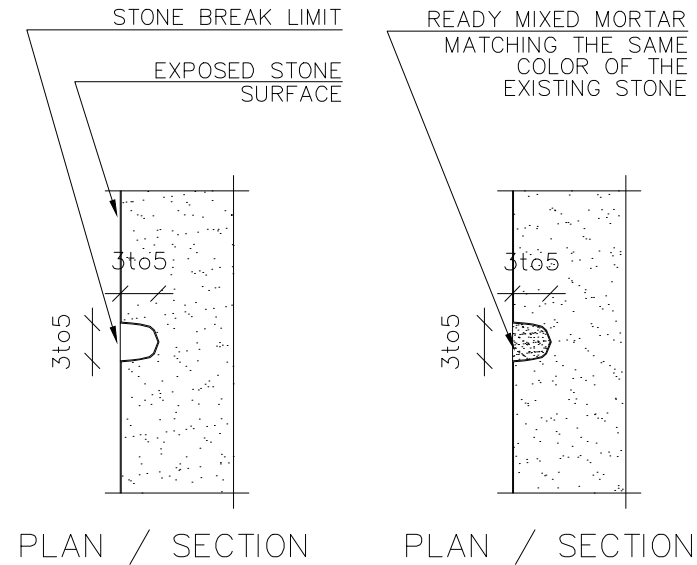
8



FOR DAMAGES NOT EXCEEDING 5cm IN DEPTH. (FLAT STONE)

TYPICAL STONE REPAIR TYPE 7

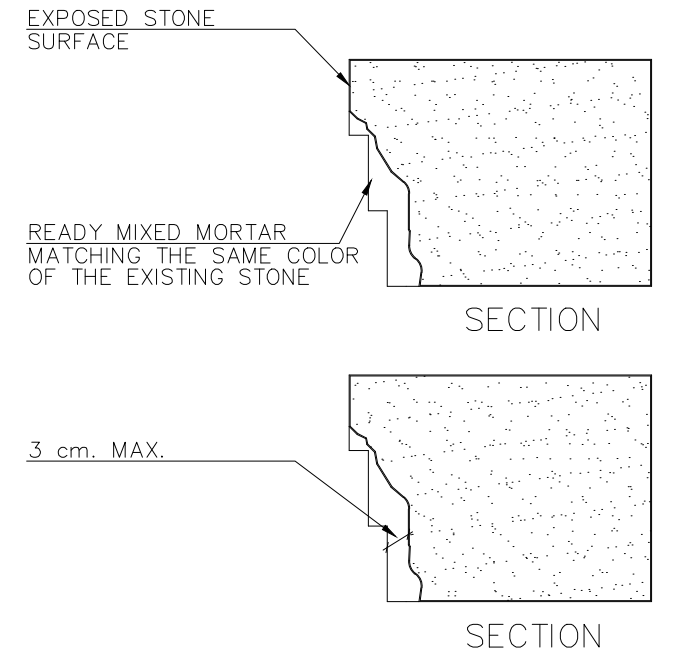
7



FOR DAMAGES NOT EXCEEDING 5cm IN DEPTH. (FLAT STONE)

TYPICAL STONE REPAIR TYPE 6

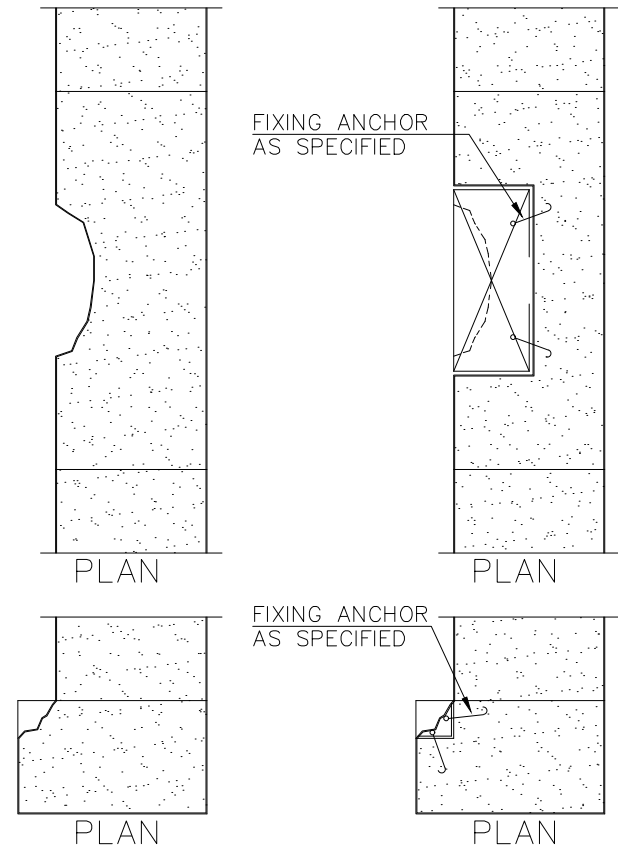
6



FOR DAMAGES NOT EXCEEDING 5cm IN DEPTH.

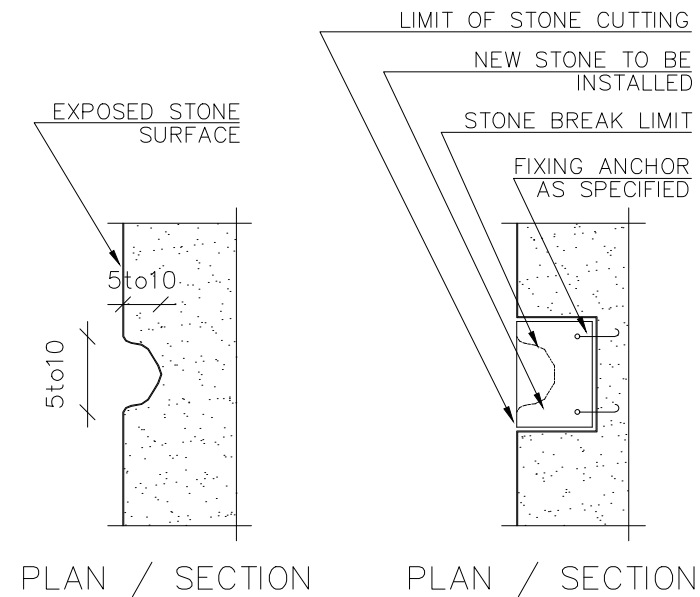
TYPICAL STONE REPAIR TYPE 5

5



TYPICAL STONE REPAIR TYPE 4

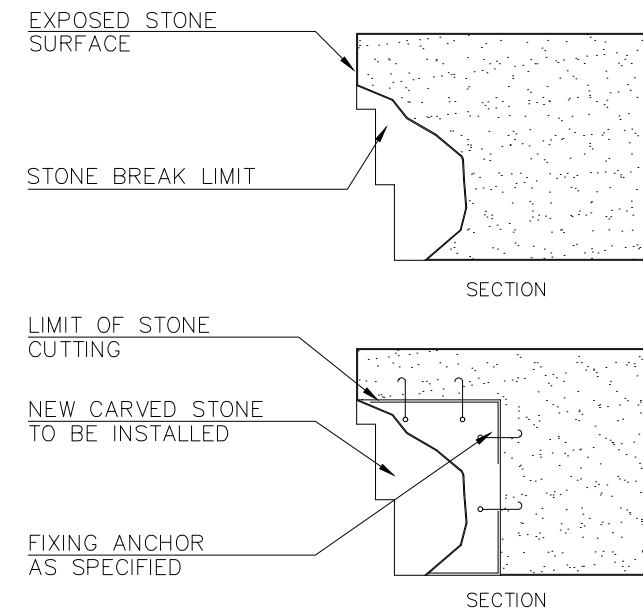
4



FOR DAMAGES NOT EXCEEDING 10cm IN DEPTH. (FLAT STONE)

TYPICAL STONE REPAIR TYPE 3

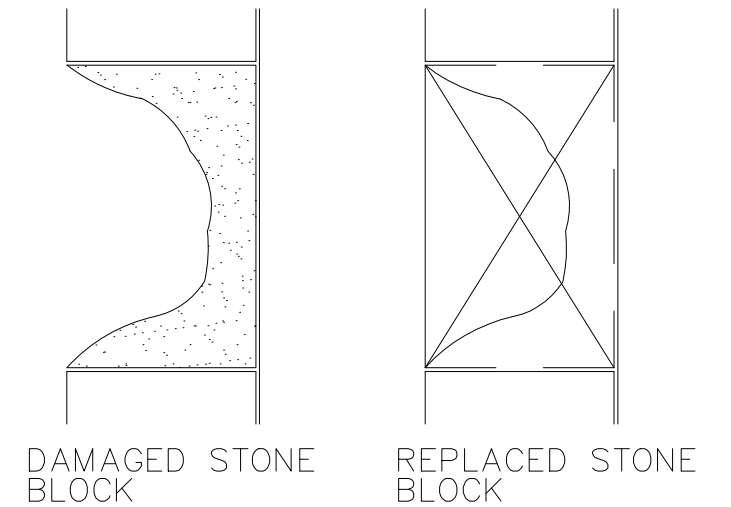
3



FOR DAMAGES NOT EXCEEDING 10cm IN DEPTH.

TYPICAL STONE REPAIR TYPE 2

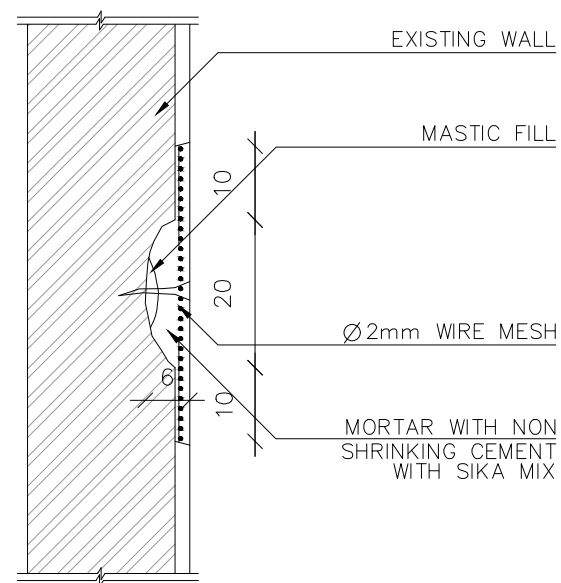
2



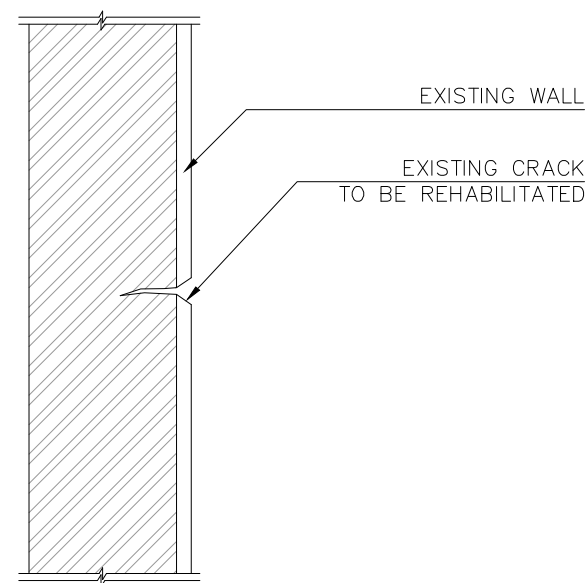
FOR DAMAGES NOT EXCEEDING 10cm IN DEPTH.

TYPICAL STONE REPAIR TYPE 1

1



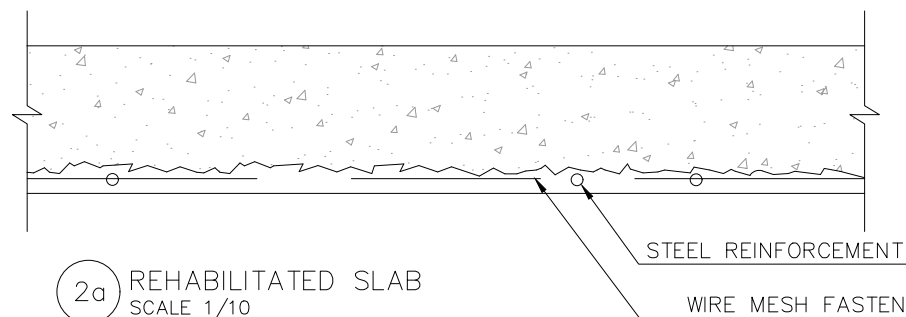
3b REHABILITATED WALL
SCALE 1/10



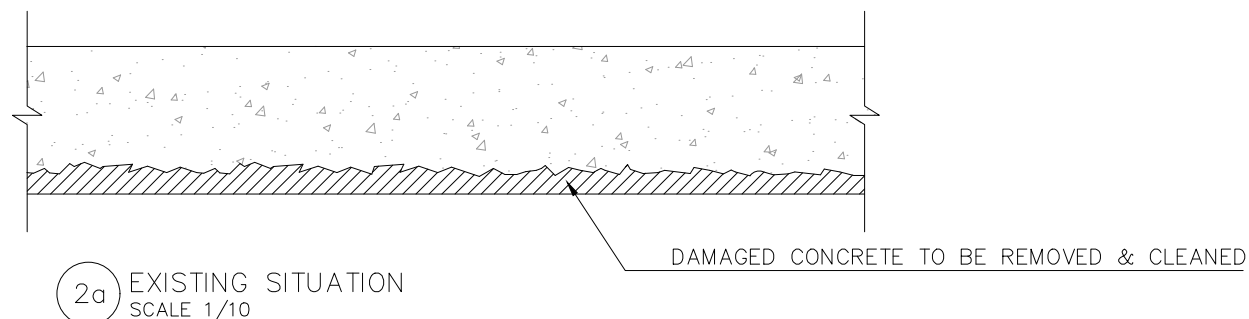
3a EXISTING SITUATION
SCALE 1/10

PLASTER CRACKS REHABILITATION

3

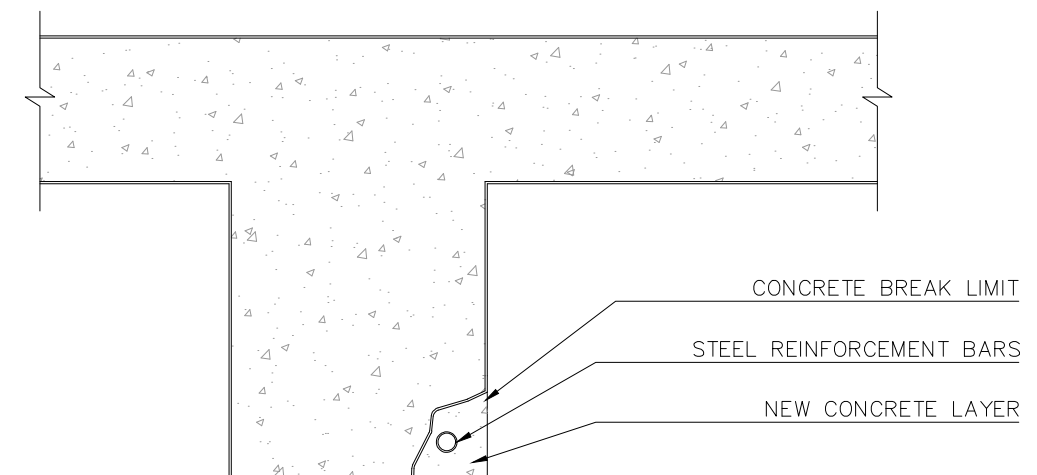


- REMOVE WEAK CONCRETE BY HAMMERING GENTLY THE SURFACE OF THE SLAB.
- REMOVE RUST ON STEEL REINFORCEMENT BY A METALIC BRUSH.
- APPLY AN EPOXY PAINT ON STEEL BARS.
- APPLY NON SHRINKAGE CEMENT PLASTER 3 LAYERS.



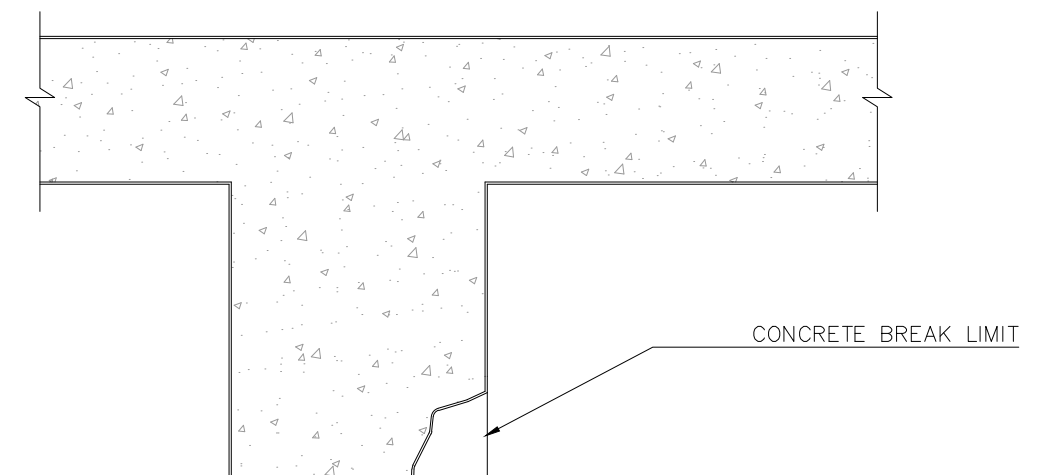
DAMAGED SLAB FROM BELOW REHABILITATION

2



1b REHABILITATED DROP BEAM
SCALE 1/10

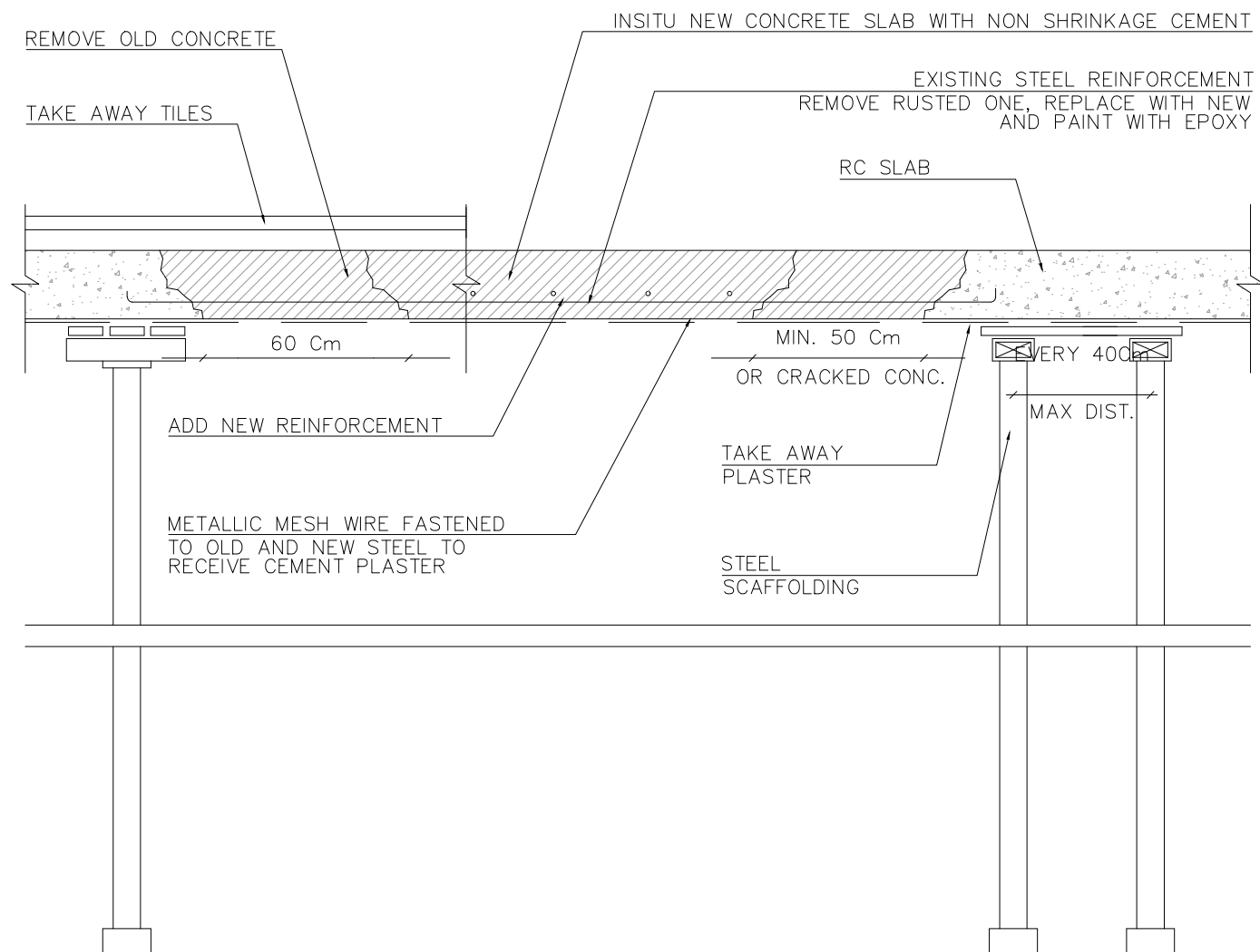
- CLEAN THE STEEL REINFORCEMENT BARS AND REMOVE RUST.
- PAINT THE RODS WITH EPOXY.
- ADD METALLIC WIRE 2mm AROUND REINFORCEMENT RODS TO HOLD THE NEW CONCRETE.
- APPLY NEW LAYER OF CONCRETE WITH NON SHRINKAGE CEMENT.



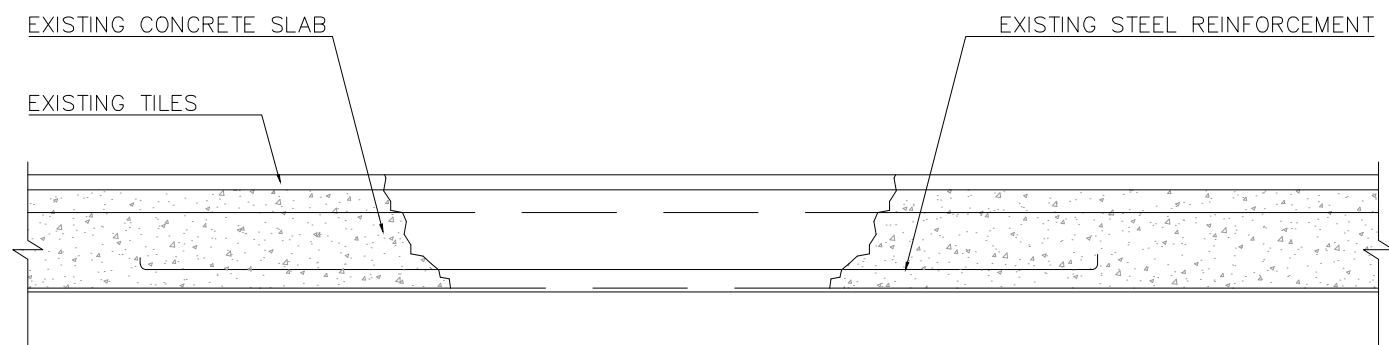
1a EXISTING SITUATION
SCALE 1/10

DAMAGED DROP BEAM REHABILITATION

1



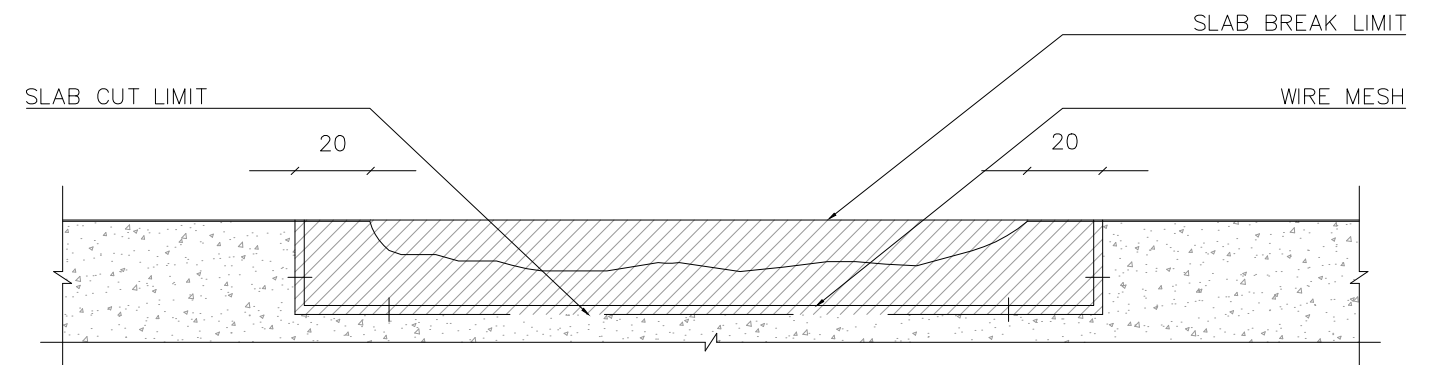
2b REHABILITATED CONCRETE SLAB (TO BE PARTIALLY REMOVED)
SCALE 1/20



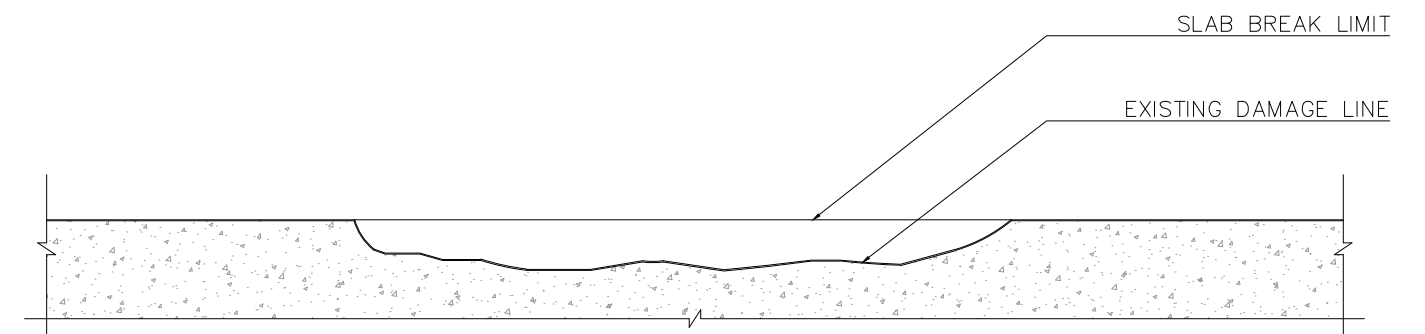
2a EXISTING DAMAGED CONCRETE SLAB
SCALE 1/20

REHABILITATION OF CONCRETE SLAB

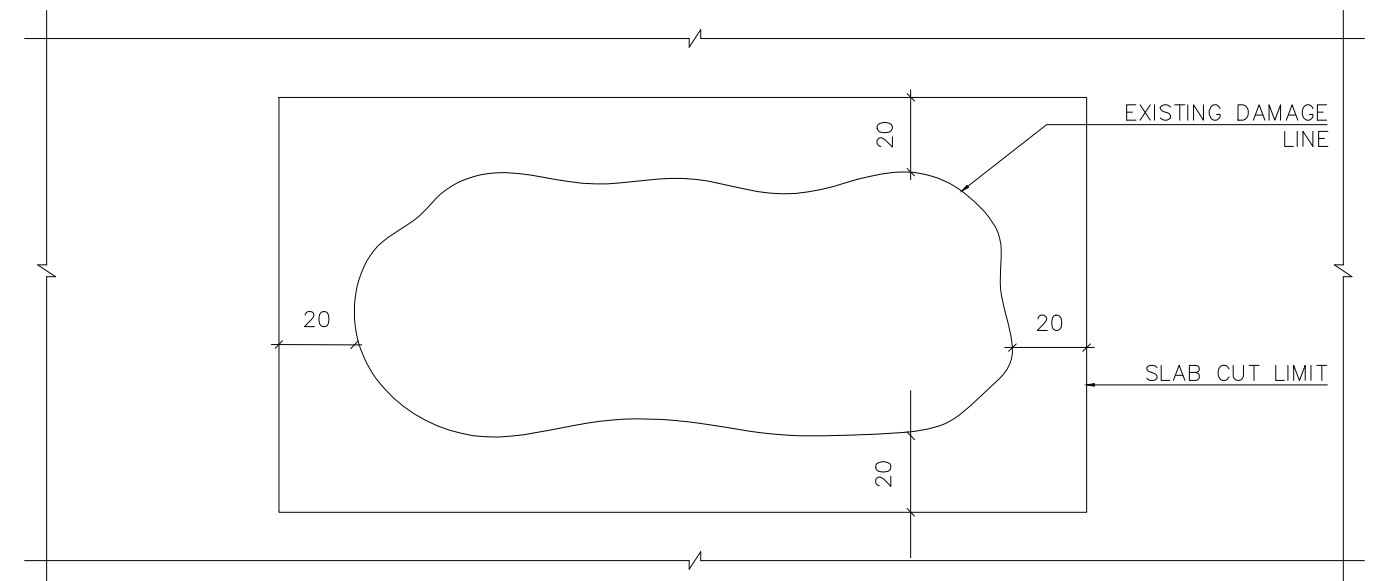
2



1c SECTION OF REHABILITATED SLAB ON GRADE
SCALE 1/20



1b SECTION OF EXISTING SLAB ON GRADE
SCALE 1/20



1a PLAN
SCALE 1/20

REHABILITATION OF SLAB ON GRADE

1

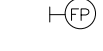
SYMBOL	DESCRIPTION
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CONDUIT (OR CABLES AS APPLICABLE)

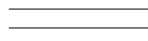
	CONCEALED (EMBEDDED) IN CEILING OR WALL
	EXPOSED UNDER CEILING (ABOVE FALSE CEILING AS APPLICABLE) OR WALL
	UNDERFLOOR OR UNDERTILES
	UNDERGROUND
	FLEXIBLE CORD
	FLEXIBLE CONDUIT
	IN LIGHTING TRACK
	IN CHANNELS OF SPACE FRAME
	TURNING UP
	TURNING DOWN
	CONTINUED AS INDICATED
	HOME RUN TO PANELBOARD UNLESS OTHERWISE INDICATED (1)_ CIRCUIT REFERENCE
	HOME RUN TO LIGHTING SWITCH ASSEMBLY (a)_ SWITCH REFERENCE
	GROUPING (3C)_ CONDUITS OR CABLES IN GROUP

N=C : CONTROL

BOXES

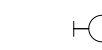
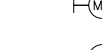
	JUNCTION, PULL OR TERMINAL, CEILING MOUNTED
	IP 55 BOX FOR FOUNTAIN MOTOR PUMP CONNECTION

MISC. CONDUCTOR HOUSING & SUPPORTS

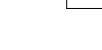
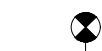
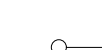
	CABLE TRAY
	PVC CABLE TRUNKING

SYMBOL	DESCRIPTION
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LIGHTING OUTLETS

	CEILING MOUNTED FOR NON- FLUORESCENT FIXTURES
	MURAL FOR NON- FLUORESCENT FIXTURES h= 180 WITH FOLLOWING NOTATIONS
	FOR KITCHEN UNDER CABINET LIGHTING
	FOR MIRROR LIGHTING
	FOR SIGN LIGHTING
	FOR SHOW WINDOW LIGHTING
	FLOOR FLUSH MOUNTED
1, 2, 3, ...	CIRCUIT REFERENCES
A, B, ...	FIXTURE REFERENCES
a, b, ...	SWITCH REFERENCES

LIGHTING FIXTURES

	CIRCULAR CEILING MOUNTED LUMINAIRE WITH COMPACT LED LAMP
	2X36 W LED WITH ELECTRONIC BALLAST AND PLASTIC COVER , SURFACE MOUNTED .
	LUMINAIRE HOUSING 4X14 W LED LAMPS , IP 54
	OUTLET BOX FOR EMERGENCY LIGHTING h=220cm
	OUTLET BOX FOR EMERGENCY LIGHTING h=50cm
	RAMP OR STEP LIGHT, RECESSED
	ROADWAY, ONE BRACKET ON POLE
	LIGHTING FIXTURE 2X18 W IP 54 FOR TOILET
	LIGHTING FIXTURE 1X18 W IP 54 FOR TOILET
	LIGHTING FIXTURE FOR COVERED PLAYGROUND
	WALL MOUNTED MIRROR LIGHTING
1, 2, ...	CIRCUIT REFERENCES
40EOA24 A, B, ...	FIXTURE REFERENCES
a, b, ...	SWITCH REFERENCES

SYMBOL	DESCRIPTION
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LIGHTING SWITCHES

	ONE WAY ONE GANG
	ONE WAY ONE GANG WATERPROOF
	ONE WAY TWO GANG
	ONE WAY THREE GANG
	ONE WAY FOUR GANG
	TWO WAY (ONE GANG)
	TWO WAY (TWO GANG)
	THREE WAY (INTERMEDIATE)
	LIGHTING SWITCH PANEL ASSEMBLY (N) REFERENCE SWITCHES 20 _ AMP
a, b, ...	LIGHTING OR OTHER SWITCHED DEVICE REFERENCE

OTHER SWITCHES

	DOUBLE 30_AMP FOR A/C, FOR APPLIANCE AS APPLICABLE
	DOUBLE POLE 20_AMP FOR WATER HEATER
	DISCONNECTING SWITCH (3) _ NUMBER OF SWITCHED POLES, (30) _ RATING IN AMPS

BOARDS, WALL MOUNTED

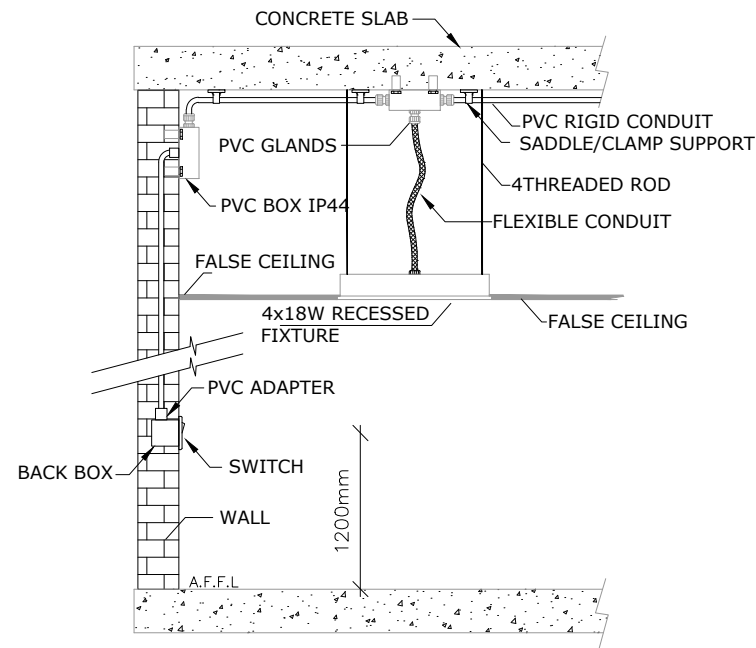
	RECESS MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	PROVISION FOR SURFACE MOUNTED PANELBOARD
LP_	LIGHTING PANELBOARD
PP_	POWER PANELBOARD
DP_	DISTRIBUTION PANELBOARD
PCP_	PUMP CONTROL PANEL
CP_	CONTROL PANEL FOR AIR HANDLER
ELP, EPP, ECP, EPCP, EMSP	SAME AS ABOVE BUT FED FOM TOP ESSENTIAL LOAD TRANSFORMER
... _ N	REFERENCE NAME
RCS	REMOTE CONTROL STATION OF A/C SYSTEM (CHILLERS, ROOF TOP UNIT)

LDRS CHEHAB & PARTNERS Beirut office: Tel.: 01-809316 - 809317 Fax : 01-809315 Saida office: Tel.: 07-726004 Tel.Fax : 07-725118 Email: info@LDRS-CO.com			Rehabilitation of UNESCO Office Premises in Beirut (Contract No. 4500398541)		Designed RA Approved AC	Drawn AZ Checked AS	Project Number: TL1203	
			BIR HASAN ANNEX-IX				Sheet Title: ELECTRICAL LEGEND (1/2)	
					Scale	Date August 2019	Sheet No.: GE01	Revision No.: 01
							General Location : Bir Hasan	

SYMBOL	DESCRIPTION
<u>SOCKET OUTLETS</u>	
	20 _ AMP SIMPLEX _ 2P + E 230V
	13 _ AMP SIMPLEX _ 2P + E 230V
	13 _ AMP DUPLEX _ 2P + E 230V
	13 _ AMP DUPLEX _ 2P + E 230V , RECESSED IN FLOOR SERVICE BOX.
	13 _ AMP SIMPLEX _ 2P + E, 230V FOR CCTV h=240cm (WALL MOUNTED)
	20 _ AMP SIMPLEX _ 2P + E, 230V FOR CCTV CEILING MOUNTED
	13 _ AMP SIMPLEX _ 2P + E, 230V, WATERPROOF
	13 _ AMP SIMPLEX _ 2 + E, 230V, FED FROM UPS
	13 _ AMP DUPLEX _ 2P + E 230V , FED FROM UPS
	13 _ AMP DUPLEX _ 2P + E 230V , FED FROM UPS RECESSED IN FLOOR SERVICE BOX.
	32 _ AMP SIMPLEX _ 3P + E, 380V. WATERPROOF
	13 _ AMP SIMPLEX _ 3P + E, 230V.
	ELECTRICAL OUTLET
<u>FANS</u>	
	EXHAUST FAN MURAL
	EXHAUST FAN CEILING
	ROOF VENTILATOR
	REGULATOR FOR CEILING FAN
	CEILING FAN
<u>MISCELLANEOUS</u>	
	AUTOMATIC TRANSFER SWITCH
	MANUAL TRANSFER SWITCH
<u>DATA SYSTEM</u>	
	DATA OUTLET (RJ45)
	FLOOR MOUNTED DATA OUTLET
	INTERMEDIATE DISTRIBUTION FRAME
	WI-FI ACCESS POINT

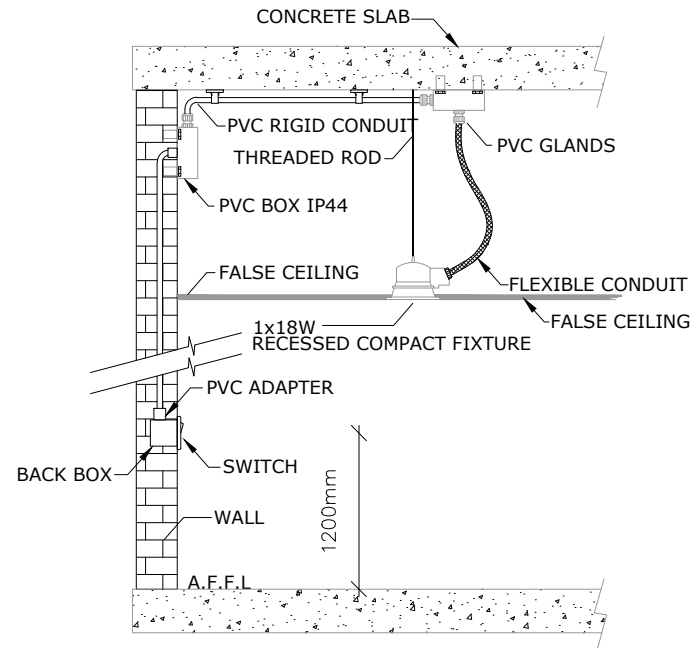
SYMBOL	DESCRIPTION
<u>SINGLE LINE</u>	
	CIRCUIT BREAKER (3)_ NUMBER OF POLES, (15) TRIP RATING IN AMPS
	DISSCONNECTING SWITCH (3), (15)
	FUSE
	FUSIBLE SWITCH (3)_ NUMBER OF SWITCHED POLES (15)_ FUSE RATING (30) SWITCH FRAME SISE
	EARTH LEAKAGE CIRCUIT BREAKER
	CONTACTOR MAIN CONTACTS
	FULL VOLTAGE NON_ REVERSING (DIRECT_ ON_ LINE) STARTER SEE NOTE 5.1
	STAR _ DELTA
	2 TARIF KILOWATT-HOUR METER
	GENERATING SET
	AUXILIARY COIL
	TRANSFORMER
	CONTACTOR MAIN COIL
	SELECTOR SWITCH. (2)_ NUMBER OF SELECTION POSITIONS
	HAND_ OFF_ AUTO SELECTOR SWITCH
	AUTOMATIC ELECTRIC ALTERNATOR
	AMMETER
	VOLTMETER
	VOLTMETER SELECTOR SWITCH
	AMMETER SELECTOR SWITCH
	PILOT LIGHT (G)_ GREEN, (R)_ RED , (A)_ AMBER
	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER
	GROUNDING

No.	NOTE DESCRIPTION	No.	GENERAL ELECTRICAL WORKS TO BE DONE																																																																			
1.	THE FOLLOWING NOTES SHALL APPLY TO ALL THE ELECTRICAL DRAWING AS APPLICABLE UNLESS OTHERWISE INDICATED OR NOTED	1.	PROVIDE ELECTRICAL DISTRIBUTION PANEL BOARDS WITH ALL NEEDED ACCESSORIES																																																																			
2.	DO NOT SCALE FROM THE LAYOUT DRAWINGS WORK ACCORDING TO ARCHITECTURAL & ELECTRICAL DETAILS UNLESS OTHERWISE AUTHORIZED	2.	PROVIDE AUTOMATIC TRANSFER SWITCH																																																																			
3.	THE ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE REST OF THE DRAWNGS PERTAINING TO ARCHITECTURE, STRUCTURE, AIR CONDITIONING, PLUMBING, DECORATION AND THE SPECIFICATIONS, AS APPLICABLE	3.	PROVIDE ENCLOSURE FOR SUB PANELS WITH ALL NEEDED ACCESSORIES																																																																			
4.	ALL DIMENSIONS SHOWN ON DETAILS ARE IN cm UNLESS OTHERWISE INDICATED	4.	PROVIDE CONDUITS, WIRE WAYS, SUPPORTING SYSTEMS AND RELATED ACCESSORIES																																																																			
5.	ALL EXPOSED CONDUITS ABOVE FALSE CEILING SHALL BE CONCEALED WHEN RUN IN WALLS	5.	REHABILITATION FOR ELECTRICAL SOCKET																																																																			
6.	BELOW FALSE CEILING	6.	REHABILITATION FOR ELECTRICAL OUTLET																																																																			
7.	LIGHTING POINTS AND JUNCTION BOXES SHALL BE EXPOSED OR CONCEALED IN CONFORMANCE WITH ASSOCIATED CONDUITS	7.	COVERAGE OF SOCKET IN KG CLASSROOMS																																																																			
8.	PENDENT LIGHTING POINT SHALL CONSIST OF A CEILING ROSE , FLEXIBLE CORD , A LAMP HOLDER	8.	REHABILITATION FOR LIGHTING SWITCHES																																																																			
9.	SHAPE AND DIMENSIONS OF SYMBOL USED FOR FLUORESCENT AND / OR INCANDESCENT FIXTURES DO NOT NECESSARILY REPRESENT SHAPE AND DIMENSIONS OF ACTUAL FIXTURE INTENDED. FOR THIS PURPOSE REFER TO LIGHTING FIXTURES SCHEDULE AND SPECIFICATIONS	9.	REHABILITATION FOR FAN SWITCHES																																																																			
10.	OUTLET BOX FOR FALSE CEILING MOUNTED LIGHTING FIXTURE SHALL BE POSITIONED SUCH THAT IT WILL NOT BE OBSTRUCTED BY A/C DUCTS, PIPES, ETC... THE CONTRACTOR SHALL COORDINATE WITH THE A/C AND PLUMBING CONTRACTOR FOR THIS PURPOSE, PRIOR TO INSTALLING THE BOXES	10.	INSTALLATION FOR WEATHER PROOF LIGHTING SWITCHES																																																																			
11.	LIGHTING FIXTURES MOUNTED IN FALSE CEILING SHALL BE FED THROUGH AN EXPOSED LIGHTING OUTLET (ABOVE FALSE CEILING) CEILING ROSE AND A HEAT RESISTANT FLEXIBLE CORD AS SPECIFIED	11.	PROVIDE JUNCTION BOX COVER																																																																			
12.	LIGHTING SWITCHES NEAR. DOORS SHALL BE INSTALLED AT 15 cm. FROM ARCHITRAVE (MEASURED FROM EDGE OF SWITCH)	12.	INSTALLATION FOR INDOOR LIGHTING FIXTURES																																																																			
13.	THE MINIMUM CONDUIT SIZE USED SHALL BE No. 20 mm	13.	INSTALLATION FOR LIGHTING FIXTURES FOR COVERED PLAYGROUND																																																																			
14.	TELEPHONE CONDUIT SIZES SHALL BE MINIMUM Ø16 mm FOR 1 AND 2 WIRES AND Ø25 mm FOR 3 AND 4 WIRES	14.	INSTALLATION FOR WALL MOUNTED MIRROR LIGHTING																																																																			
15.	LOCATION OF JUNCTION AND PULL BOXES SHALL BE TO THE APPROVAL OF THE ENGINEER	15.	INSTALLATION FOR LIGHTING FIXTURE 2X18 W IP 54 FOR TOILET																																																																			
16.	THE CONTRACTOR MAY RUN MORE THAN ONE CIRCUIT IN THE SAME CONDUIT IN WHICH CASE	16.	INSTALLATION FOR LIGHTING FIXTURE 1X18 W IP 54 FOR TOILET																																																																			
17.	A COMMON EQUIPMENT GROUNDING WIRE MAY BE SHARED	17.	REHABILITATION FOR EXISTING LIGHTING FIXTURES																																																																			
18.	ALL CONTROL WIRES BETWEEN EQUIPMENT SUPPLIED UNDER THE MECHANICAL SECTION AND THEIR CONTROL DEVICES WILL BE SUPPLIED AND INSTALLED BY OTHERS	18.	INSTALLATION FOR ELECTRICAL FANS																																																																			
19.	ALL MOTORS STARTERS AND OTHER THREE PHASE EQUIPMENT MAY HAVE THEIR CONTROL ON	19.	INSTALLATION FOR BELL WITH WIRING																																																																			
20.	380 VOLTS. IN CASE CONTROL OF SUCH EQUIPMENT IS 220 VOLTS, THE CONTRACTOR SHALL PROVIDE A NEUTRAL WIRE IN THE CIRCUIT AT NO EXTRA COST.	20.	ALL ELECTRICAL WORKS TO BE DONE UNDER SUPERVISION APPROVAL OF SITE ENGINEER																																																																			
21.	THREE PHASE HEATERS ARE ASSUMED TO BE DELTA CONNECTED. THE CONTRACTOR SHALL	CONDUIT SIZES SHALL BE TABULATED BELOW AS MINIMUM REQUIREMENT <table><tr><th rowspan="3">CABLE SIZE</th><th colspan="5">CONDUIT SIZE</th></tr><tr><th>ø 20 mm</th><th>ø 25 mm</th><th>ø 32 mm</th><th>ø 38 mm</th><th>ø 50 mm</th></tr><tr><th colspan="5">MAXIMUM NUMBER OF CABLES (OTHER THAN GROUNDING)</th></tr><tr><td>2.5 mm²</td><td>5</td><td>—</td><td>—</td><td>—</td><td>—</td></tr><tr><td>4 mm²</td><td>4</td><td>5</td><td>—</td><td>—</td><td>—</td></tr><tr><td>6 mm²</td><td>3</td><td>5</td><td>—</td><td>—</td><td>—</td></tr><tr><td>10 mm²</td><td>2</td><td>3</td><td>5</td><td>—</td><td>—</td></tr><tr><td>16 mm²</td><td>—</td><td>2</td><td>4</td><td>5</td><td>—</td></tr><tr><td>25 mm²</td><td>—</td><td>—</td><td>3</td><td>4</td><td>—</td></tr><tr><td>35 mm²</td><td>—</td><td>—</td><td>2</td><td>3</td><td>5</td></tr><tr><td>50 mm²</td><td>—</td><td>—</td><td>—</td><td>—</td><td>4</td></tr></table>					CABLE SIZE	CONDUIT SIZE					ø 20 mm	ø 25 mm	ø 32 mm	ø 38 mm	ø 50 mm	MAXIMUM NUMBER OF CABLES (OTHER THAN GROUNDING)					2.5 mm ²	5	—	—	—	—	4 mm ²	4	5	—	—	—	6 mm ²	3	5	—	—	—	10 mm ²	2	3	5	—	—	16 mm ²	—	2	4	5	—	25 mm ²	—	—	3	4	—	35 mm ²	—	—	2	3	5	50 mm ²	—	—	—	—	4
CABLE SIZE	CONDUIT SIZE																																																																					
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6 mm ²	3						5	—	—	—																																																												
10 mm ²	2						3	5	—	—																																																												
16 mm ²	—						2	4	5	—																																																												
25 mm ²	—	—	3	4	—																																																																	
35 mm ²	—	—	2	3	5																																																																	
50 mm ²	—	—	—	—	4																																																																	
22.	OTHERWISE PROVIDE A FULL SIZE NEUTRAL IN THE CIRCUIT AT NO EXTRA COST.																																																																					
23.	THE TERMINAL LUGS OF ALL CIRCUIT BREAKERS AND DISCONNECTING SWITCHES SHALL BE																																																																					
24.	PROPERLY SIZED TO ACCOMMODATE THEIR CORRESPONDING CONNECTED CABLES AS INDICATED ON THE DRAWINGS. THIS MIGHT NECESSITATE OFF _ STANDARD OVER SIZING																																																																					
25.	ALL CIRCUIT BREAKERS SHALL HAVE FRAME SIZES EQUAL TO THE TRIP RATING OR NEXT HIGHER STANDARD VALUE UNLESS THE BUS BAR BRACING OF THE CORRESPONDING PANEL BOARD IS INDICATED WHICH CASE THE FRAME SIZE OF THE CIRCUIT BREAKERS IN THAT PANEL BOARD SHALL BE INCREASED TO PROVIDE AN RMS SYMMETRICAL SHORT CIRCUIT INTERRUPTING RATING EQUAL TO OR GREATER THAN BRACING RATING																																																																					
26.	CONDUIT FOR POWER AND LIGHTING WIRES AND CABLES SHALL HAVE SIZES AS TABULATED TO USE LARGER SIZES, THIS SHALL BE AT HIS OWN EXPENSE HEREINAFTER AS A MINIMUM REQUIREMENT IF CONTRACTOR CHOOSES FOR HIS OWN CONVENIENCE																																																																					
27.	WEATHER PROOF ENCLOSURES SHALL BE NEMA TYPE 3 OR IP 54																																																																					
28.	WATERTIGHT ENCLOSURES SHALL BE NEMA TYPE 4 OR IP 55																																																																					
29.	SPLASHPROOF ENCLOSURES SHALL BE NEMA TYPE 2 OR IP 44																																																																					



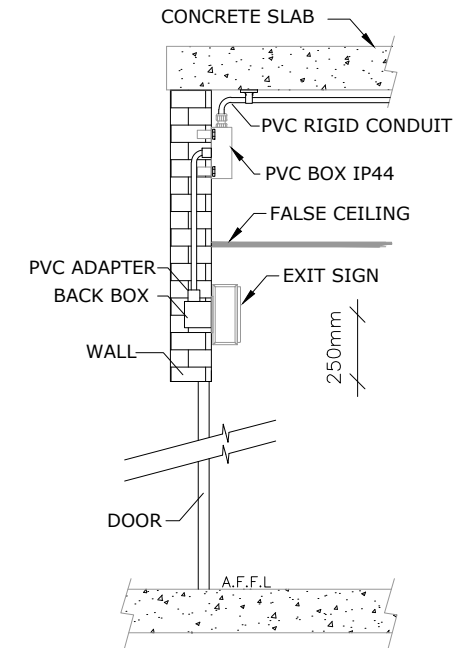
4x18W RECESSED FIXTURE INSTALLATION DETAIL

6



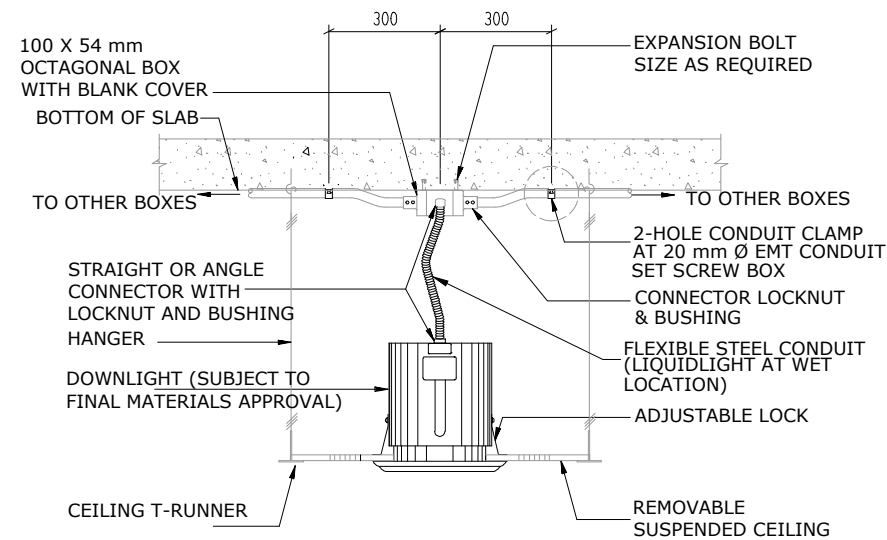
1x18W RECESSED FIXTURE INSTALLATION DETAIL

5



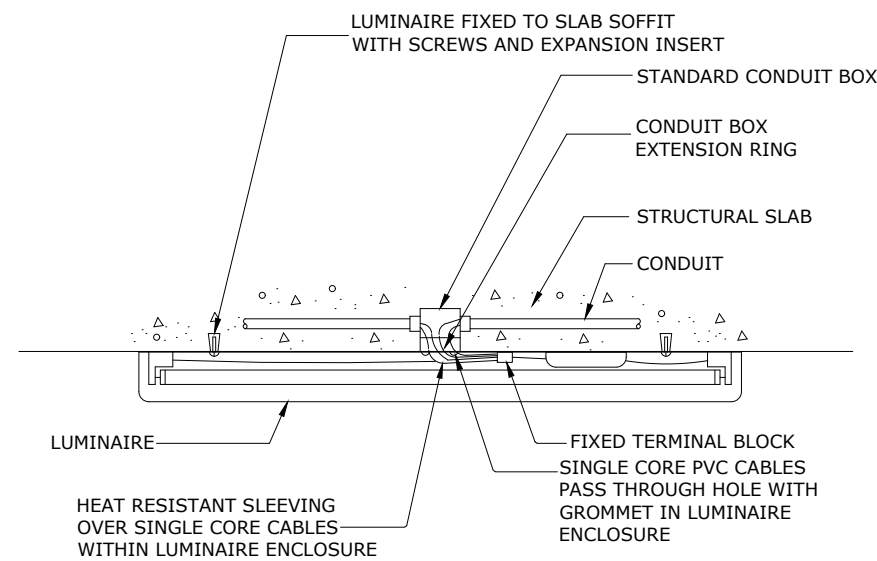
EXIT SIGN INSTALLATION DETAIL

4



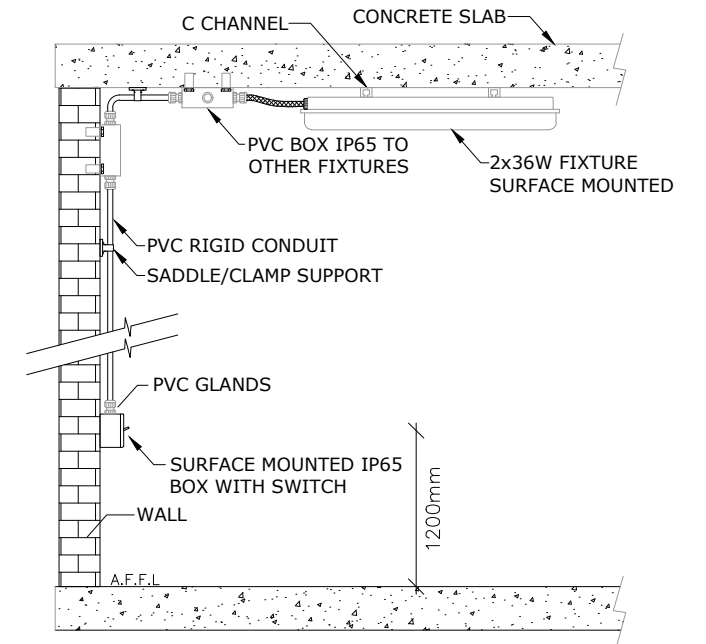
RECESSED DOWNLIGHT FIXTURE MOUNTING

3



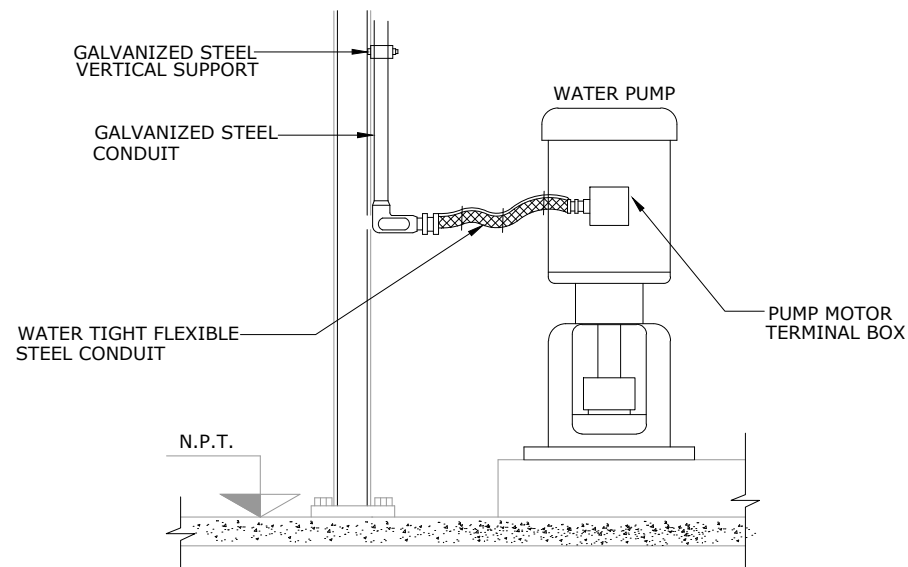
SURFACE MOUNTED LUMINAIRE

2

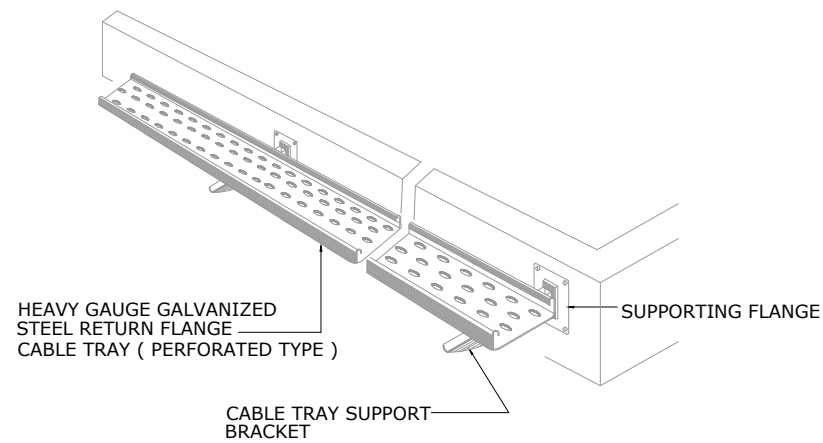


2x36W SURFACE MOUNTED FIXTURE INSTALLATION DETAIL

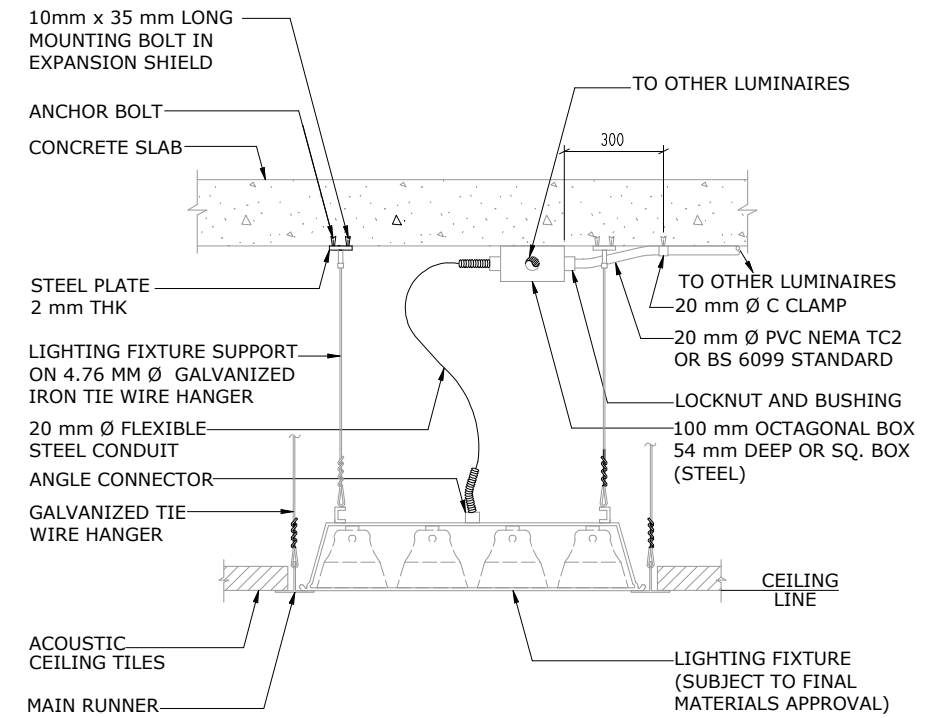
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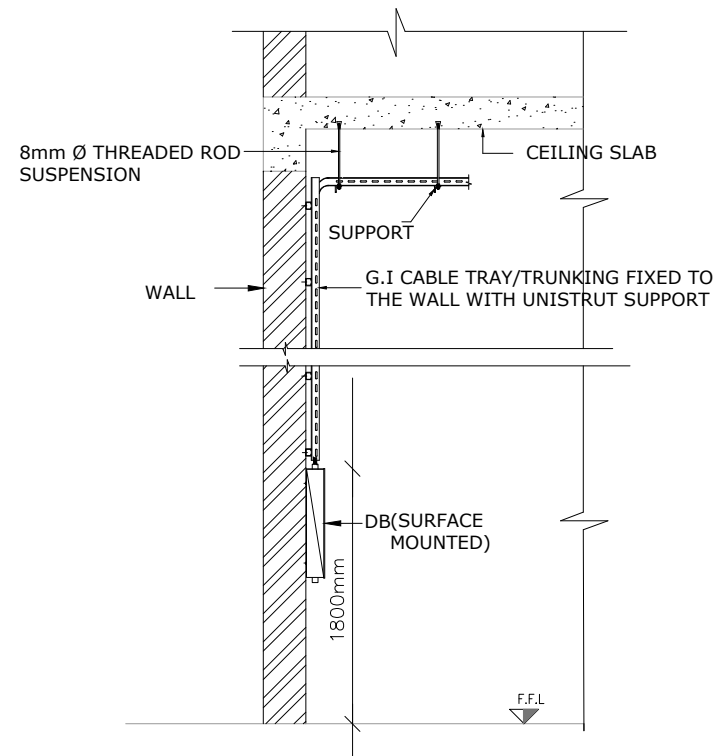
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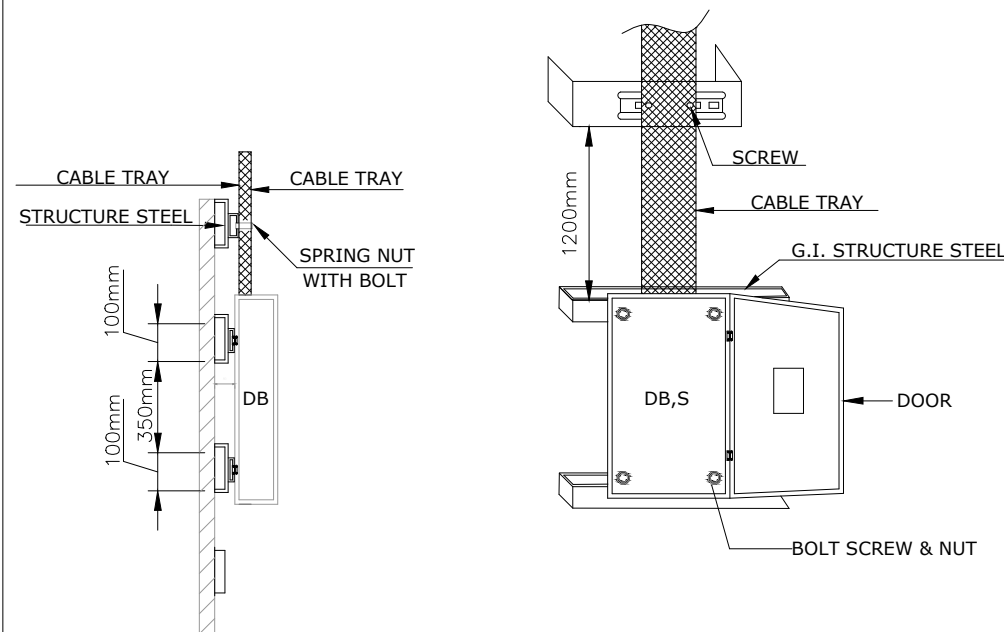
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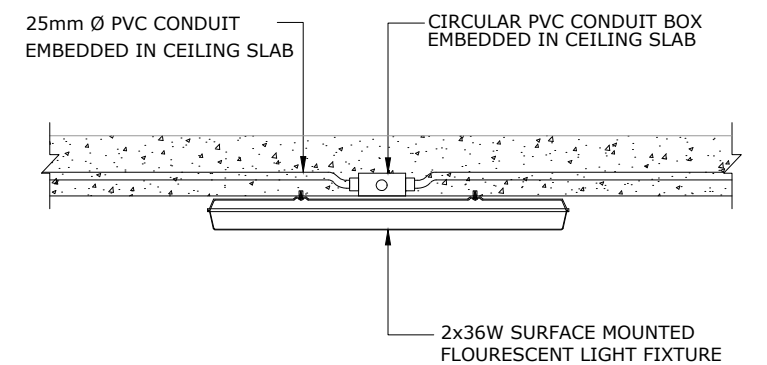
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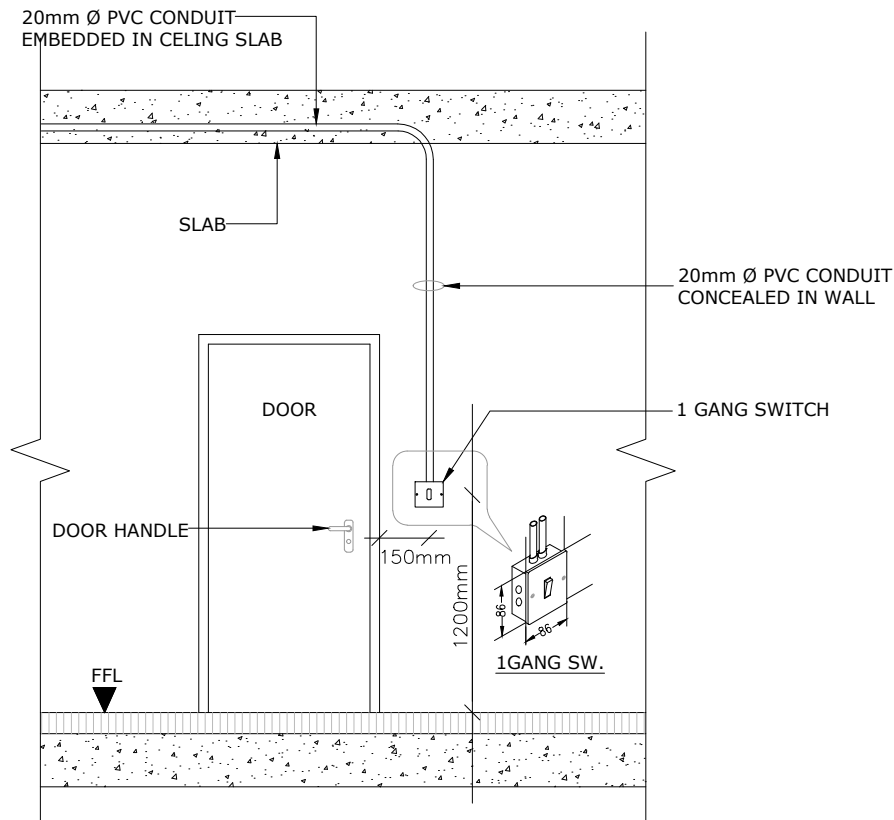
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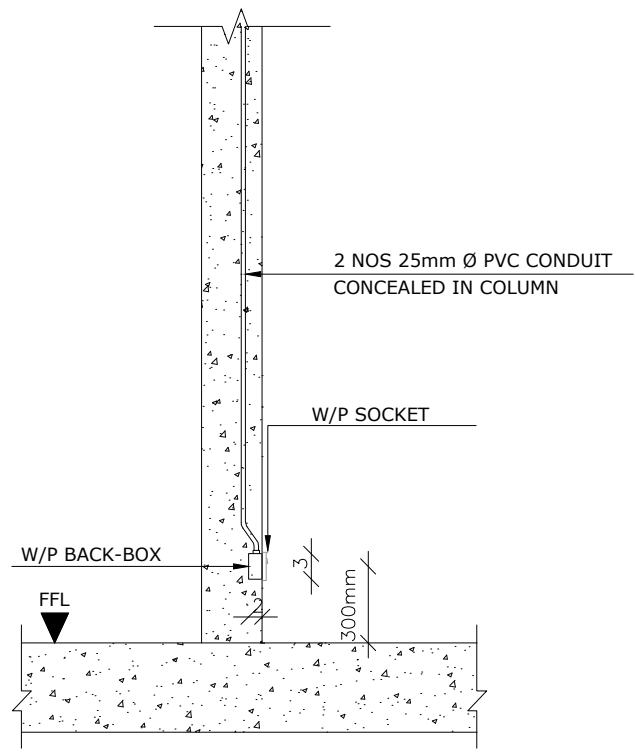
9



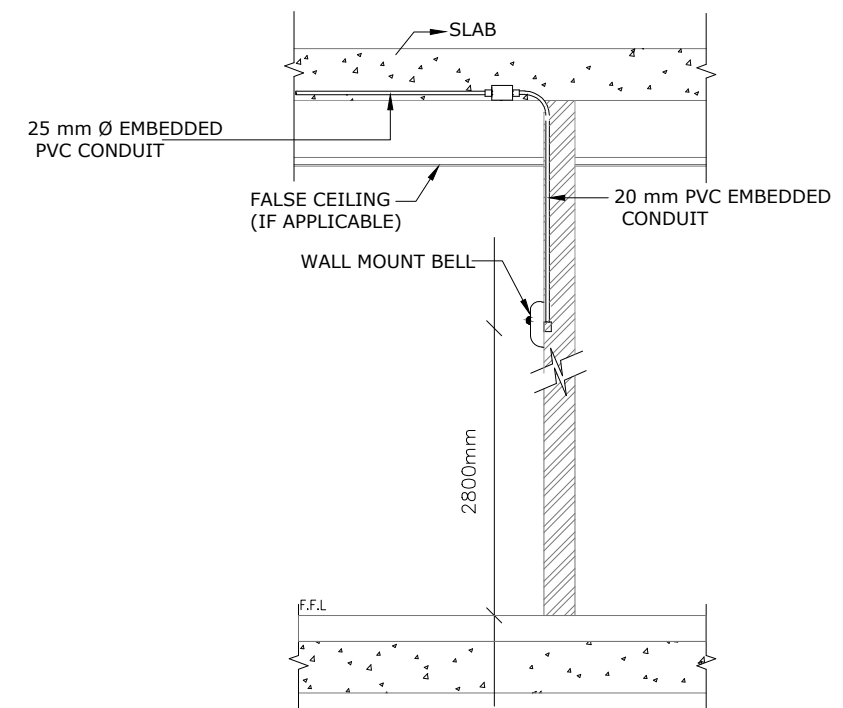
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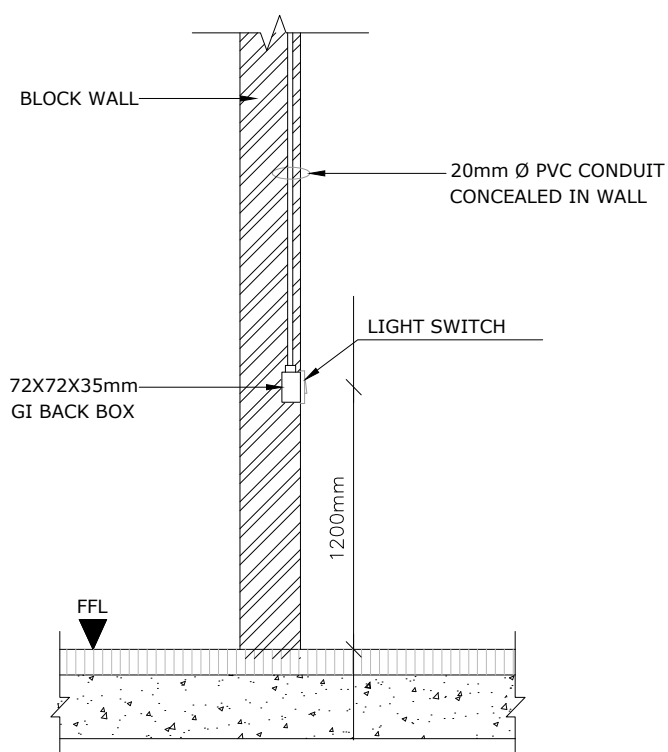
TYPICAL MOUNTING DETAIL OF LIGHT SWITCH



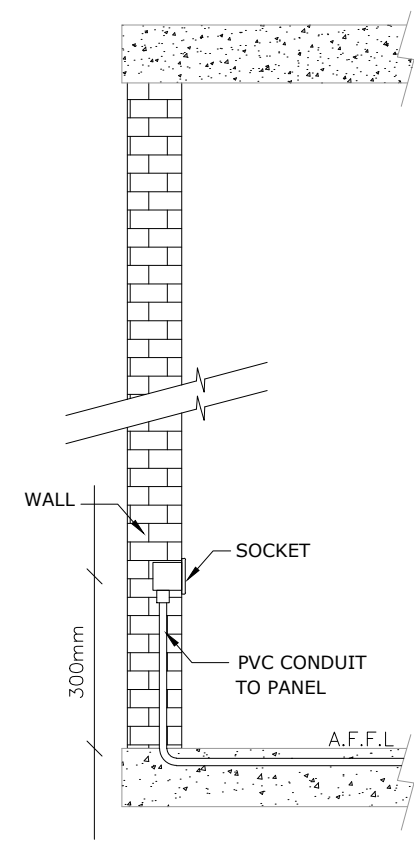
TYPICAL MOUNTING DETAIL OF WEATHER PROOF SOCKET FULLY RECESSED



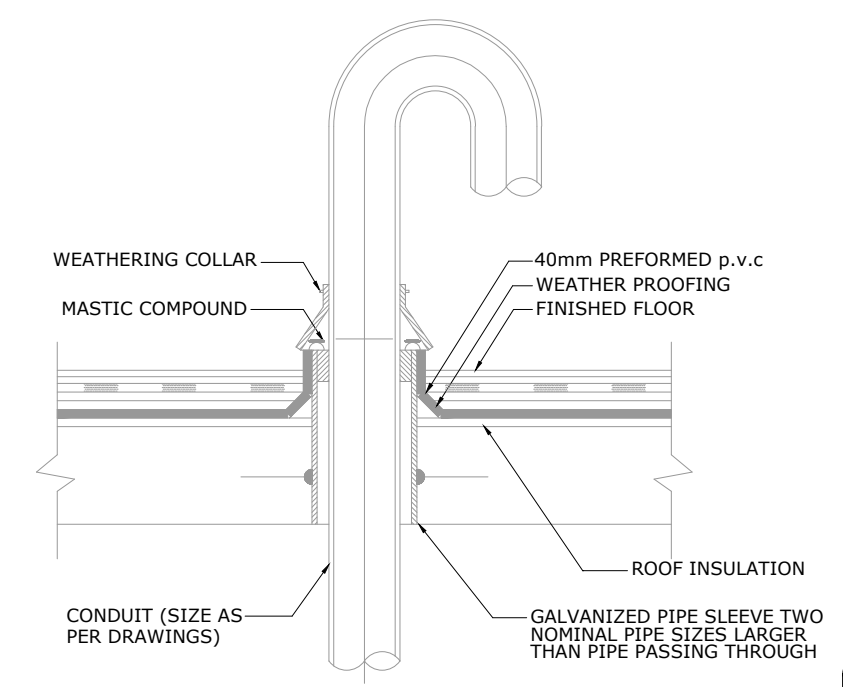
BELL INSTALLATION DETAIL



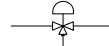
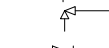
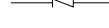
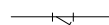
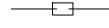
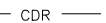
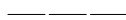
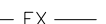
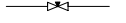
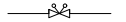
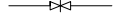
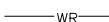
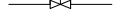
WALL SECTION



SOCKET INSTALLATION DETAIL



DETAIL OF CONDUITS THROUGH ROOF INSTALLATION

BFS		BELOW FLOOR SLAB	LPM		LITERS PER MINUTE		3-WAY MOTORIZED VALVE		PUSH BUTTON	
BS		BLACK STEEL	LS		LAUNDRY SINK		PRESSURE RELIEF VALVE	JS	JANITOR SINK	
CCO		CEILING OR WALL CLEAN-OUT	LWT		LEAVING WATER TEMPERATURE		CHECK VALVE	KS	 KITCHEN SINK	
C/H		CABINET HEATER	MFDR		MOTORIZED FIRE DAMPER		STRAINER	KW	KILOWATT	
CI		CAST IRON	MH		MANHOLE		FLANGE OR UNION	LAV	 LAVATORY	
CL		CEILING LEVEL	NTS		NOT TO SCALE		PIPE EXPANSION JOINT	LL	LOW LEVEL	
CLB		CEILING LEVEL BELOW	P		PUMP		VALVE BOX	LP	LOW PRESSURE	
CDR		DRAIN OR CONDENSATE DRAIN PIPE	PL		PUMP LINE		THERMOSTAT	LPS	LITERS PER SECOND	
CW		COLD WATER SUPPLY PIPE	PMH		PERCOLATING MANHOLE		STATIC PRESSURE DIFFERENTIAL SENSOR		PRESSURE REDUCING STATION	
DN		DOWN	PRS		PRESSURE REDUCING STATION		FLOW DETECTOR		DRAINAGE PIPE AT CEILING LEVEL	
DR		DRY RISER	PVC		POLYVINYL CHLORIDE PIPES		WINTER TEMPERATURE CONTROLLER		DRAINAGE PIPE BFS OR AT CLB	
EHE		ELECTRIC HEATING ELEMENT	RCS		REMOTE CONTROL STATION		TEMPERATURE SENSOR		FIRE WATER LINE	
EWH		ELECTRIC WATER HEATER	RD		ROOF DRAIN		STATIC PRESSURE CONTROLLER		SOIL PIPE	
EWI		ENTERING WATER TEMPERATURE	RG		RETURN GRILLE		LPG GAZ DETECTOR		GATE VALVE	
EX		EXPANSION WATER PIPE	RVC		ROOF VENT CAP	IGPM	IMPERIAL GALLONS PER MINUTE		GLOBE VALVE	
		FIRE ALARM CONTROL PANEL	RWP		RAIN WATER PIPE	IL	INVERT LEVEL		GAS REGULATOR	
FAB		FROM ABOVE	SWH		SOLAR WATER HEATER	IV	ISOLATING VALVE		DOUBLE REGULATING VALVE	
FB		FROM BELOW	SD		SPLITTER DAMPER	IWL	IN WALL		BUTTERFLY VALVE	
FDO		FLOOR DRAIN OUTLET	SH		SHOWER TRAY	WL	WALL		MOTORIZED VALVE	
FC		FALSE CEILING	SHA		SHOCK ARRESTOR	WM	WASHING MACHINE		EXPANSION VALVE	
FCO		FLOOR CLEAN-OUT	SP		SLEEVE PIPE	WR		WET RISER		PRESSURE REDUCING VALVE
FD		FLOOR DRAIN	SPDP		SUBMERSIBLE PUMP DISCHARGE PIPE	WS	WASTE STACK		FLOAT VALVE	
FDR		FIRE DAMPER	SR		SUPPLY REGISTER		THERMOMETER		PRESSURE GAUGE	
ABC		6 KG DRY POWDER FIRE EXTINGUISHER	SS		SOIL STACK	HL	HIGH LEVEL		2-WAY MOTORIZED VALVE	
CO2		2 KG CO2 FIRE EXTINGUISHER	SV		STACK VENT	HP	HIGH PRESSURE	UG	UNDER GROUND	
FFL		FINISHED FLOOR LEVEL	TA		TO ABOVE	HRC	HOSE REEL CABINET	UR	URINAL	
FH		FLUSHING HOSE	TB		TO BELOW	HRR	HOSE REEL RISER	UT	UNDER TILES	
FHC		FIRE HOSE CABINET	TYP		TYPICAL	m3/hr	CUBIC METER PER HOUR	VP	VENT PIPE	
FTK		FLUSH TANK	IC		INSPECTION CHAMBER	HW		VS	VENT STACK	
GPM		U.S. GALLONS PER MINUTE	H/B		HOSE BIBB	HWR		FMWC	 FLOOR MOUNTED EUROPEAN WATER CLOSET	
GS		GALVANIZED STEEL						WHWC	 WALL HUNG EUROPEAN WATER CLOSET	

DRAINAGE GENERAL NOTES

1. THESE DRAWINGS SHALL BE USED FOR DRAINAGE PURPOSES ONLY ; DO NOT SCALE FROM THESE DRAWINGS.
2. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS OF DIFFERENT TRADES FOR COORDINATION.
3. ALL HORIZONTAL DRAINAGE PIPES IN ALL FLOORS RUN AT CEILING LEVEL BELOW SLAB EXCEPT WHERE INDICATED OTHERWISE.
4. ALL EQUIPMENT & FIXTURES SHALL BE APPROVED BEFORE ORDERING.
5. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL SHOP DRAWINGS FOR APPROVAL SHOWING THE SYSTEM EXACTLY IN PLACE BEFORE THE START OF WORKS.
6. ALL SLEEVES FOR SANITARY FIXTURES SHOULD BE CHECKED VERSUS THE SELECTED FIXTURES BEFORE POURING CONCRETE.
7. ALL LAVATORIES , URINALS , KITCHEN SINKS , FOUNTAINS DISCHARGE PIPE SIZE ARE 50mm. SIZE UNLESS INDICATED OTHERWISE.
8. ALL VERTICALLY INSTALLED ELBOWS AT HIGH LEVEL ON WASTE & SOIL PIPES SHALL BE COMPLETE WITH ACCESS BENDS.
9. ALL DRAINAGE RISER SHALL HAVE SIDE CLEANOUTS EVERY OTHER FLOOR.
10. ALL PRESSURIZED DRAINAGE PIPES LIKE SUBMERSIBLE PUMP'S DISCHARGE SHOULD BE ANCHORED.
11. ALL VENT STACKS SHOULD BE COMPLETE WITH TEST ACCESS DOOR AT THE HIGHEST FLOOR LEVEL & ON ALL JUNCTIONS.
12. ALL PVC PIPES CROSSING FIRE RATED WALLS SHALL HAVE FIRE STOPS.
13. THE CONTRACTOR SHALL PROVIDE MAINTENANCE ACCESS PANELS TO ALL CLEAN OUTS, AND WHEREVER NEEDED. LOCATION OF PANELS SHALL BE COORDINATED WITH THE INTERIOR DESIGNER.
14. ALL PIPES CROSSING CONCRETE EXPANSION JOINTS SHALL HAVE PIPE EXPANSION JOINTS.
15. ALL FLOOR DRAINS IN BATHROOM SHALL BE 110mm IN SIZE, UNLESS INDICATED OTHERWISE.
16. ALL RAIN WATER PIPES ARE PVC

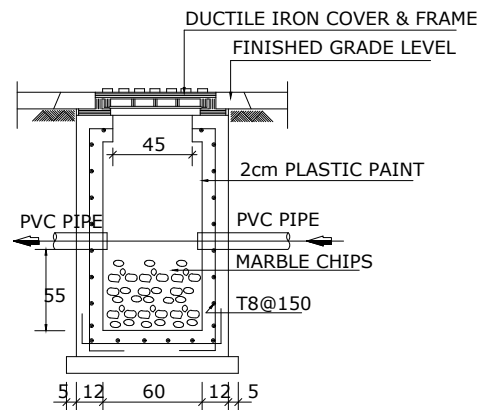
WATER SUPPLY GENERAL NOTES

1. THESE DRAWINGS SHALL BE USED FOR WATER SUPPLY PURPOSES ONLY, DO NOT SCALE FROM THESE DRAWINGS.
2. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS OF DIFFERENT TRADES FOR COORDINATION PURPOSES.
3. ALL EQUIPMENT & FIXTURES SHALL BE APPROVED BEFORE ORDERING.
4. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL THREE SETS OF SHOP DRAWINGS FOR APPROVAL SHOWING THE SYSTEM EXACTLY IN PLACE BEFORE THE START OF WORKS
5. ALL PIPES CROSSING CONCRETE EXPANSION JOINTS SHALL HAVE PIPE EXPANSION JOINTS.
6. ALL VALVES HAVE THE SAME SIZE AS THE PIPE SERVED UNLESS INDICATED OTHERWISE.
7. ALL PVC PIPES CROSSING FIRE RATED WALLS SHALL HAVE FIRE STOPS.
8. THE CONTRACTOR SHALL PROVIDE MAINTENANCE ACCESS PANELS TO ALL VALVES, CLEANOUTS, AND WHEREVER NEEDED. LOCATION OF PANELS SHALL BE COORDINATED WITH THE INTERIOR DESIGNER.
9. ALL SLEEVES SHOULD BE CHECKED BEFORE POURING CONCRETE.
10. ALL FIREFIGHTING SYSTEM COMPONENTS SHALL BE UL LISTED AND FM APPROVED

GENERAL MECHANICAL WORKS TO BE DONE

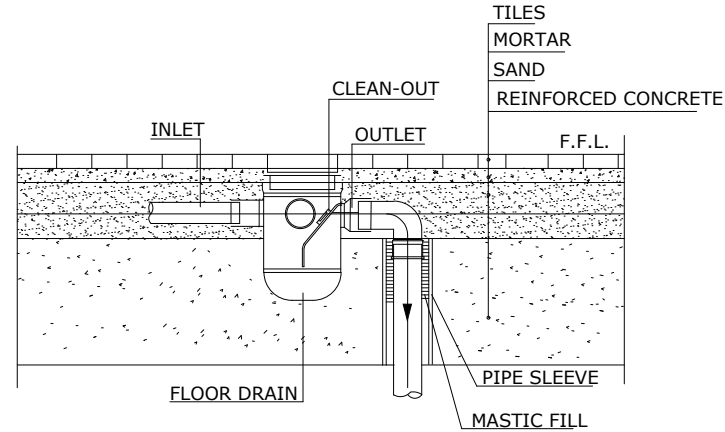
1. PROVIDE WATER SUPPLY NETWORK IN TOILETS
2. PROVIDE DRAINAGE NETWORK IN TOILETS
3. REPLACE STEEL TANKS WITH PE TANKS
4. PROVIDE STAINLESS STEEL TANKS FOR POTABLE WATER
5. PROVIDE STAINLESS STEEL DRINKING WATER TAPS FOR DRINKING BASINS
6. PROVIDE DRINKING WATER NETWORK
7. REHABILITATE CURRENT DRINKING WATER NETWORK
8. PROVIDE FIRE EXTINGUISHERS
9. PROVIDE NEW SANITARY FIXTURES IN TOILETS
10. PROVIDE RAIN WATER DRAINAGE PIPING WHERE REQUIRED ON BALCONIES AND ROOFS
11. REHABILITATE CURRENT RAIN WATER DRAINAGE PIPING
12. REARRANGE PIPING
13. PROVIDE WATER TREATMENT UNIT
14. RELOCATE WATER TREATMENT UNIT
15. PROVIDE PROPER VENTILATION WHERE REQUIRED
16. REHABILITATE CURRENT VENTILATION

 Beirut office: Tel.: 01-809316 - 809317 Fax : 01-809315 Saida office: Tel.: 07-726004 Tel.Fax : 07-725118 Email: info@LDRS-CO.com			Rehabilitation of UNESCO Office Premises in Beirut <i>(Contract No. 4500398541)</i>		Designed RA Approved AC	Drawn AZ Checked AS	Project Number: TL1203	
			BIR HASAN ANNEX-IX		Sheet Title: MECHANICAL GENERAL NOTES			
					Scale	Date August 2019	Sheet No.: GM02 General Location : Bir Hasan	Revision No.: 01



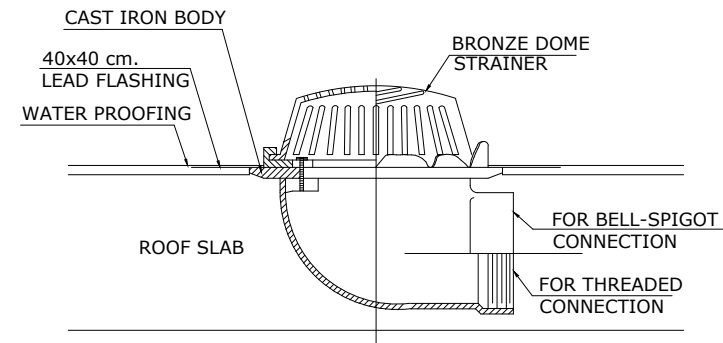
ACID NEUTRALIZING

8



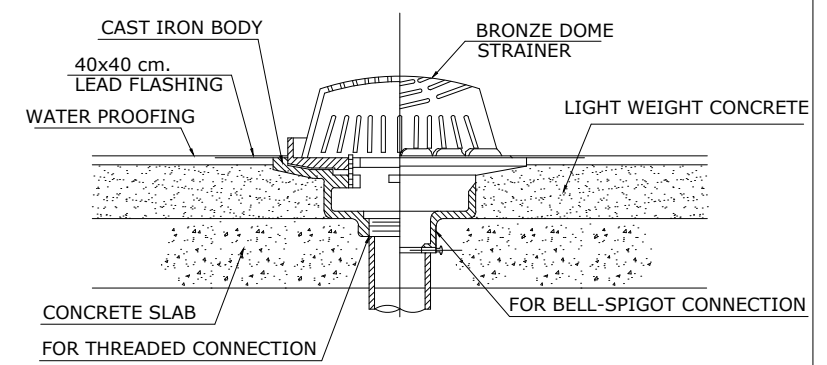
UPVC FLOOR DRAIN WITH CLEAN OUT

7



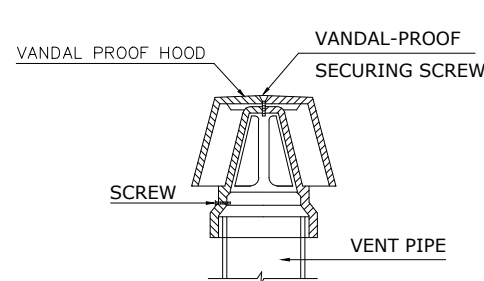
ROOF DRAIN SIDE OUTLET

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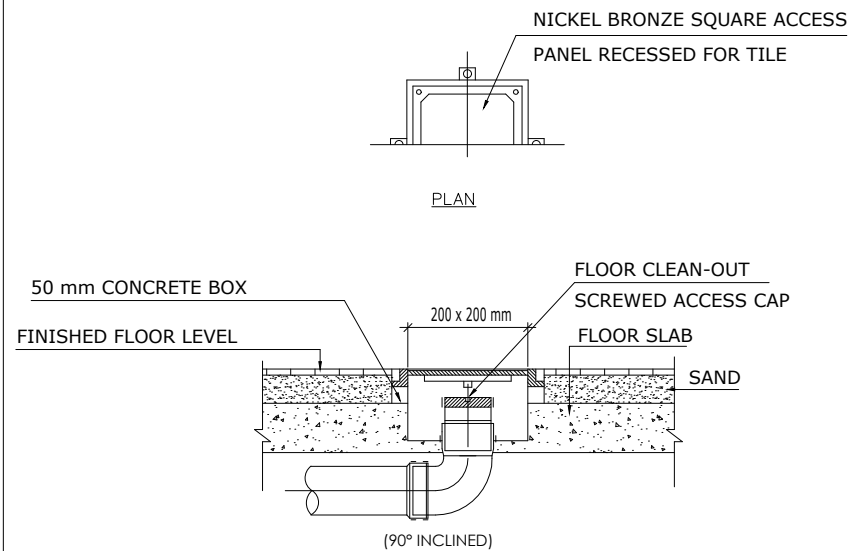
ROOF DRAIN BOTTOM OUTLET

5



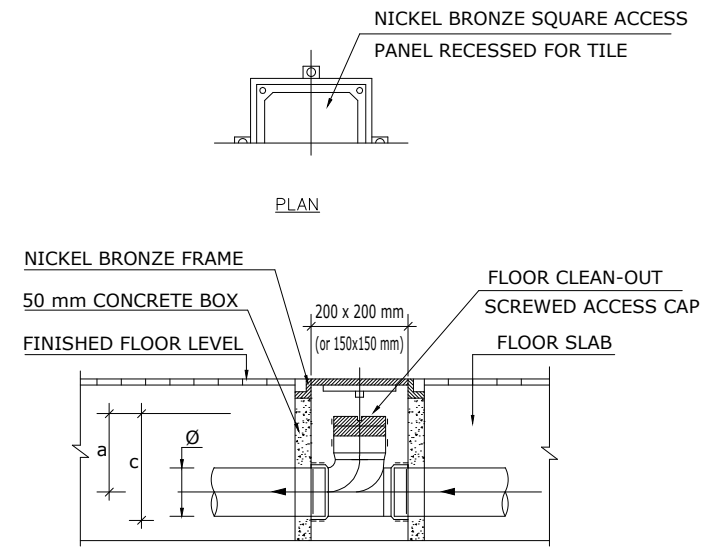
ROOF VENT CAP

4



UPVC FLOOR CLEAN-OUT

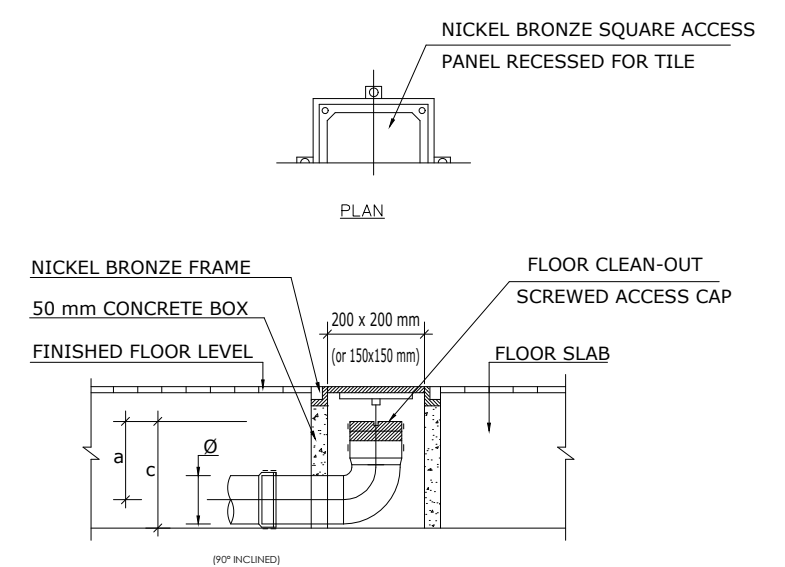
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UPVC FLOOR CLEAN-OUT

2

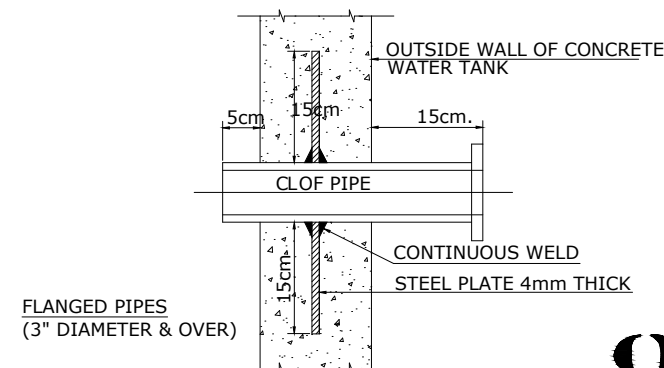
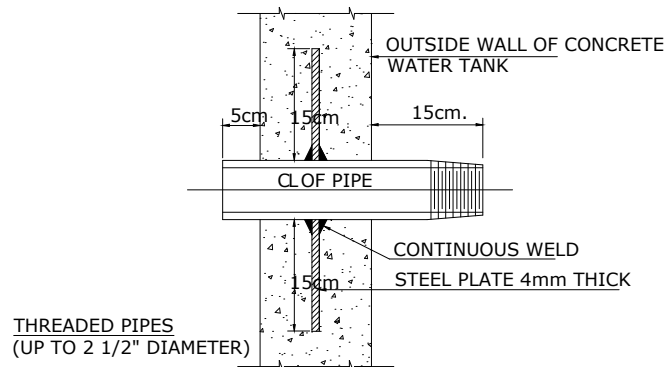
Ø	3" (82 mm.)	4" (110 mm.)	6" (160 mm.)
c	205 mm.	230 mm.	250 mm.
a	160 mm.	180 mm.	170 mm.



UPVC FLOOR CLEAN-OUT

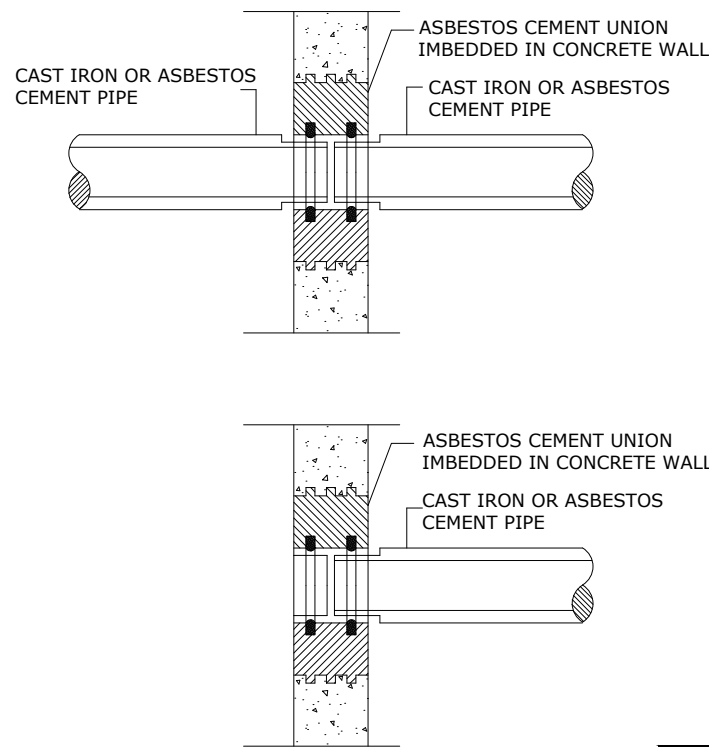
1

Ø	2" (50 mm.)	3" (82 mm.)	4" (110 mm.)
c	134 mm.	162 mm.	192 mm.
a	109 mm.	121 mm.	137 mm.



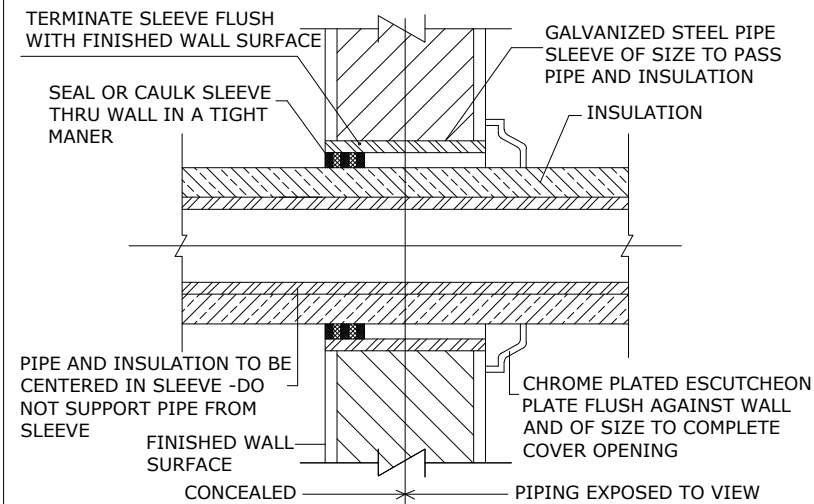
PIPE THRU CONCRETE WATER TANK

8



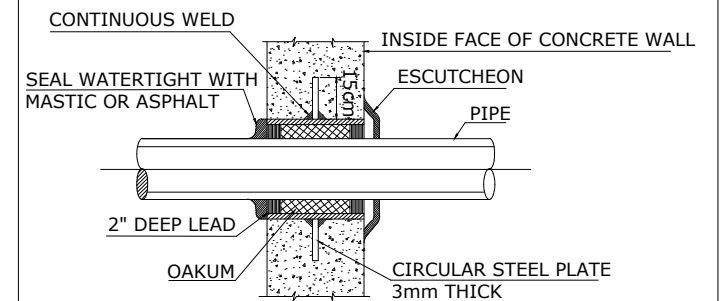
PIPE CONNECTION TO MANHOLE

7



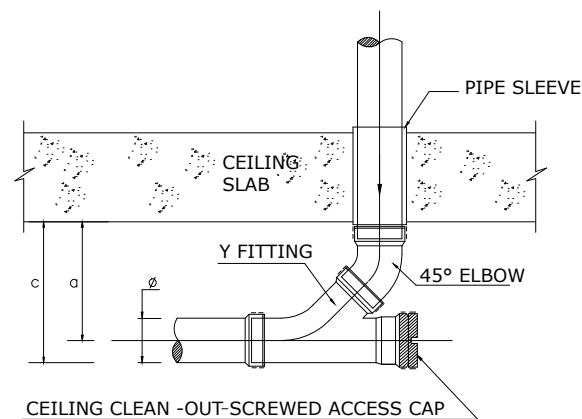
INTERIOR WALLS

6



PIPE SLEEVE DETAIL
(FOR OUTSIDE WALL ABOVE OR
BELOW GRADE)

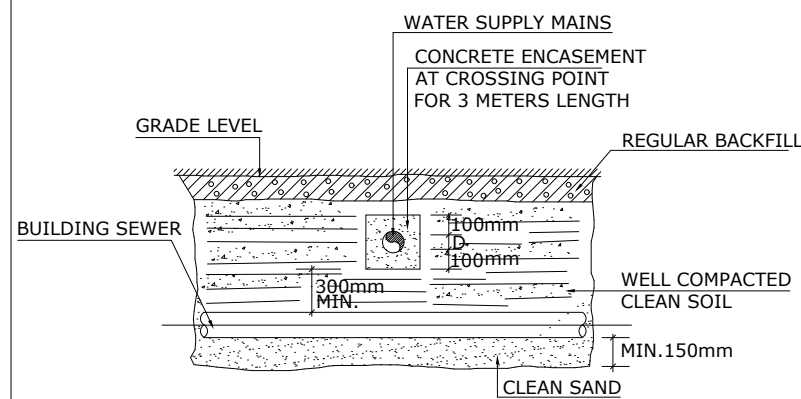
5



Ø	3" (82 mm.)	4" (110 mm.)	6" (160 mm.)
c	265 mm.	310 mm.	440 mm.
a	220 mm.	250 mm.	360 mm.

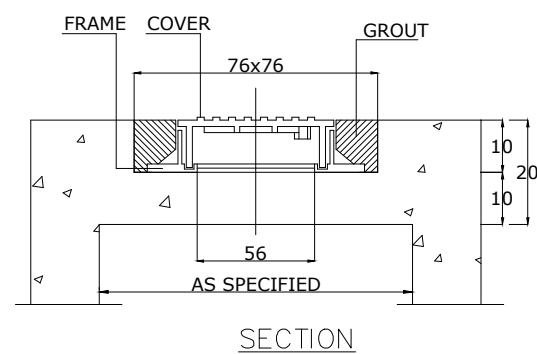
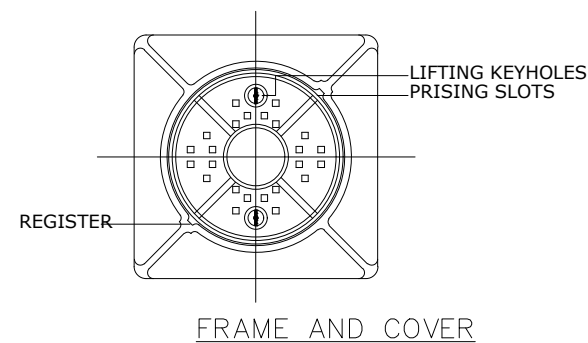
UPVC CEILING CLEAN-OUT

4



WATER SUPPLY MAINS CROSSING WITH
BUILDING SEWER

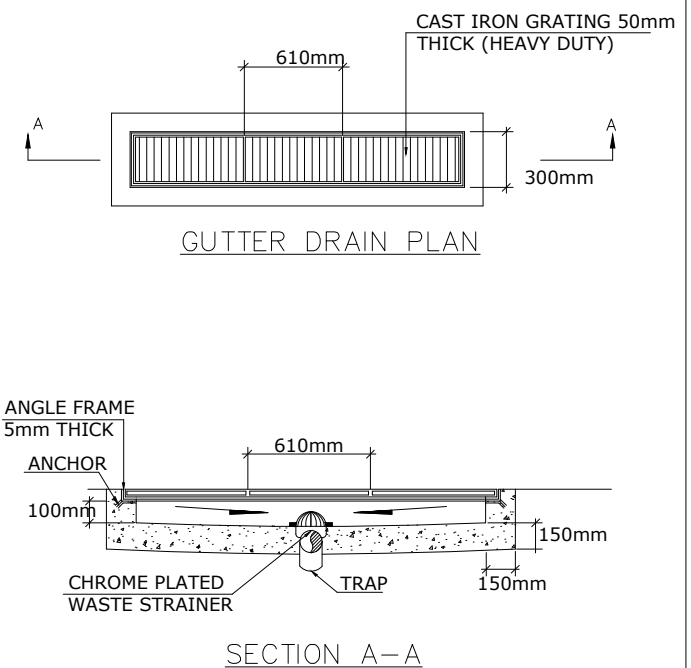
3



SECTION

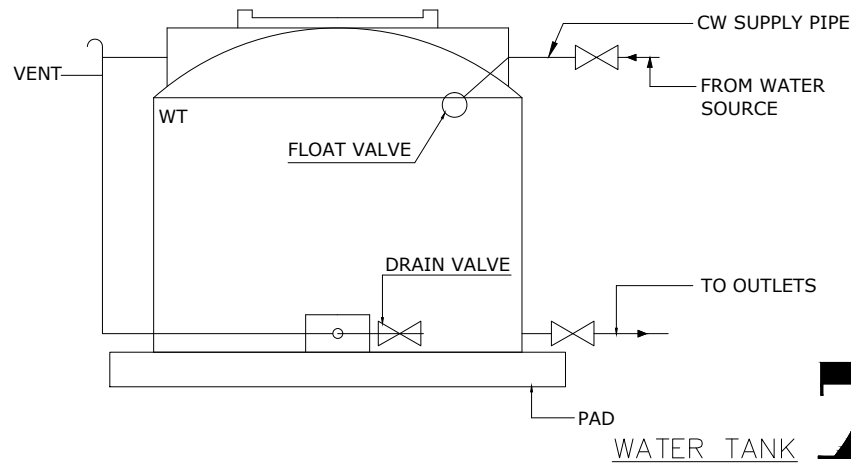
MANHOLE COVER

2

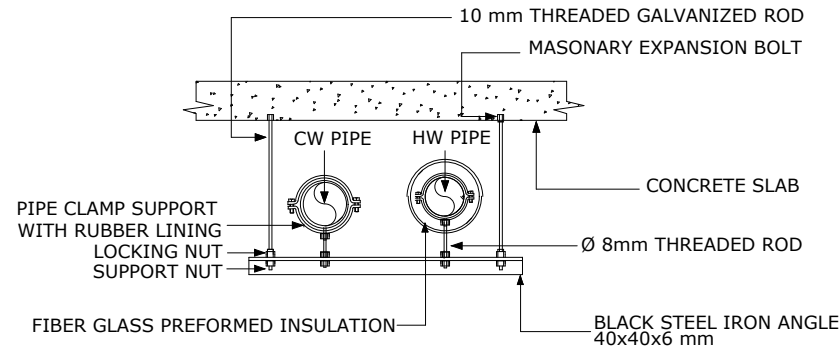


GRATING DETAIL

1

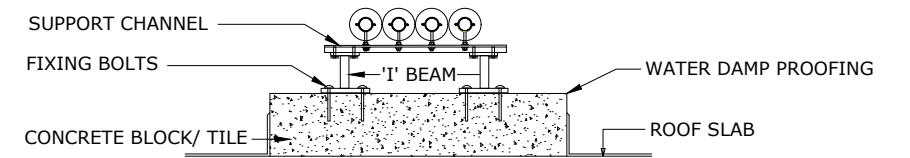


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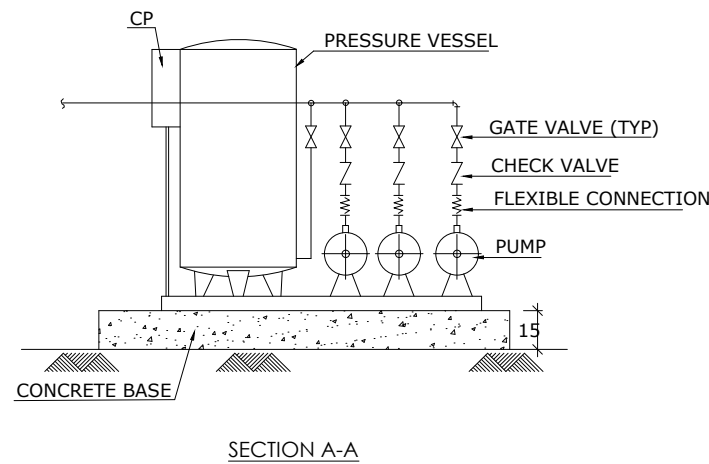
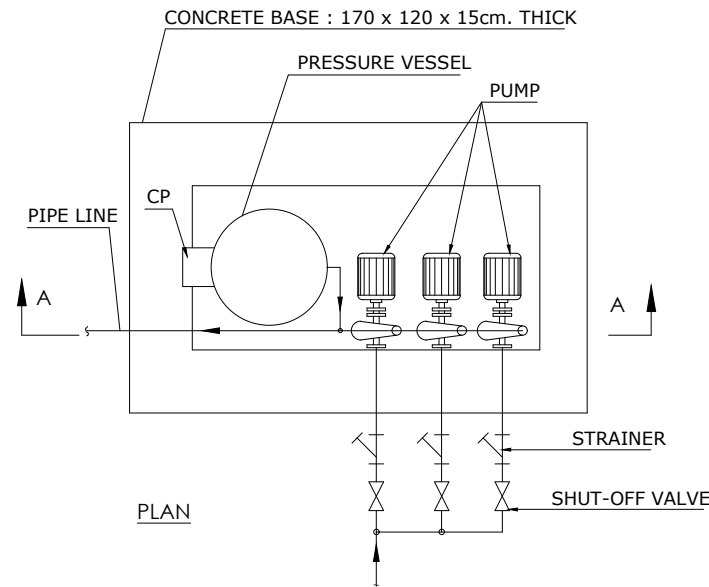
TYPICAL DOMESTIC WATER PIPES SUPPORT

6



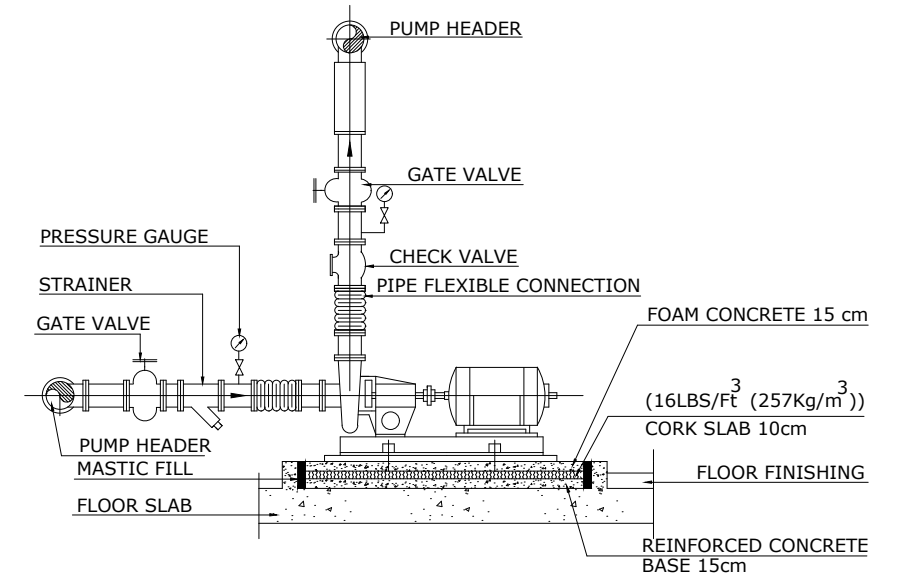
PIPES SUPPORT DETAIL

5



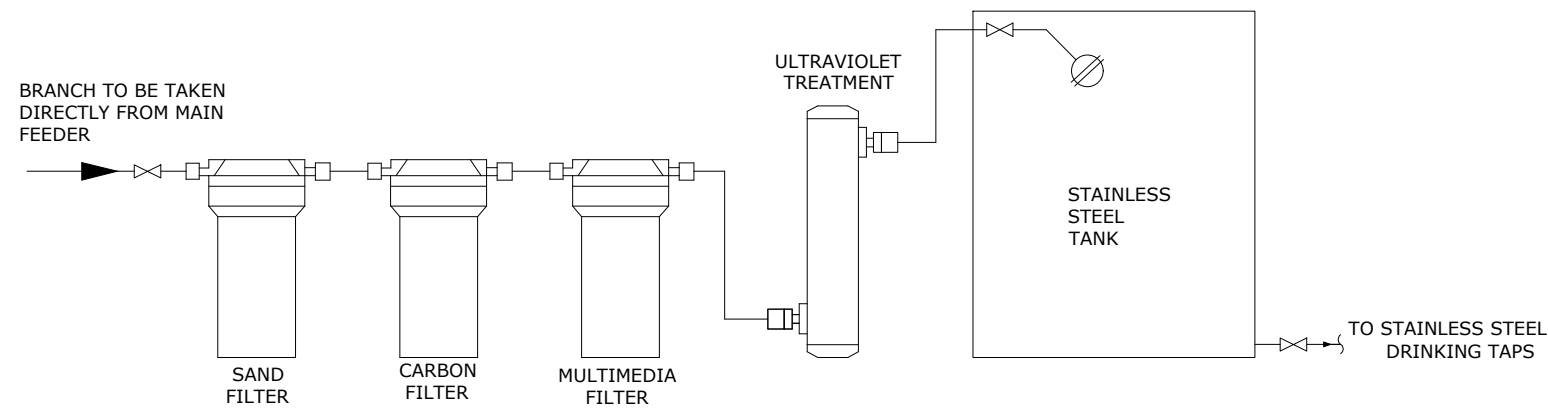
WATER SUPPLY PRESSURIZING SET (TRIPLE PUMP)

4



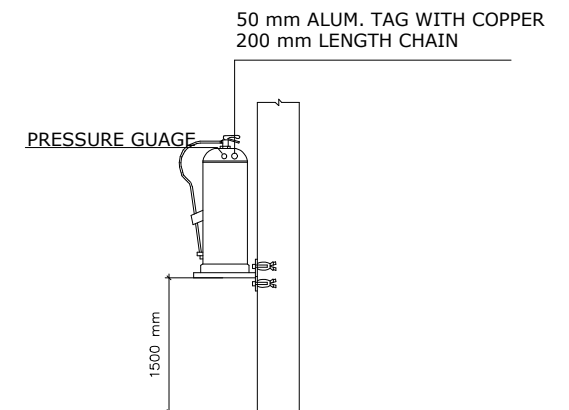
WATER SUPPLY PUMP INSTALLATION DETAIL

3



UV WATER TREATMENT UNIT SCHEMATIC DIAGRAM

2



PORTABLE FIRE EXTINGUISHER

1