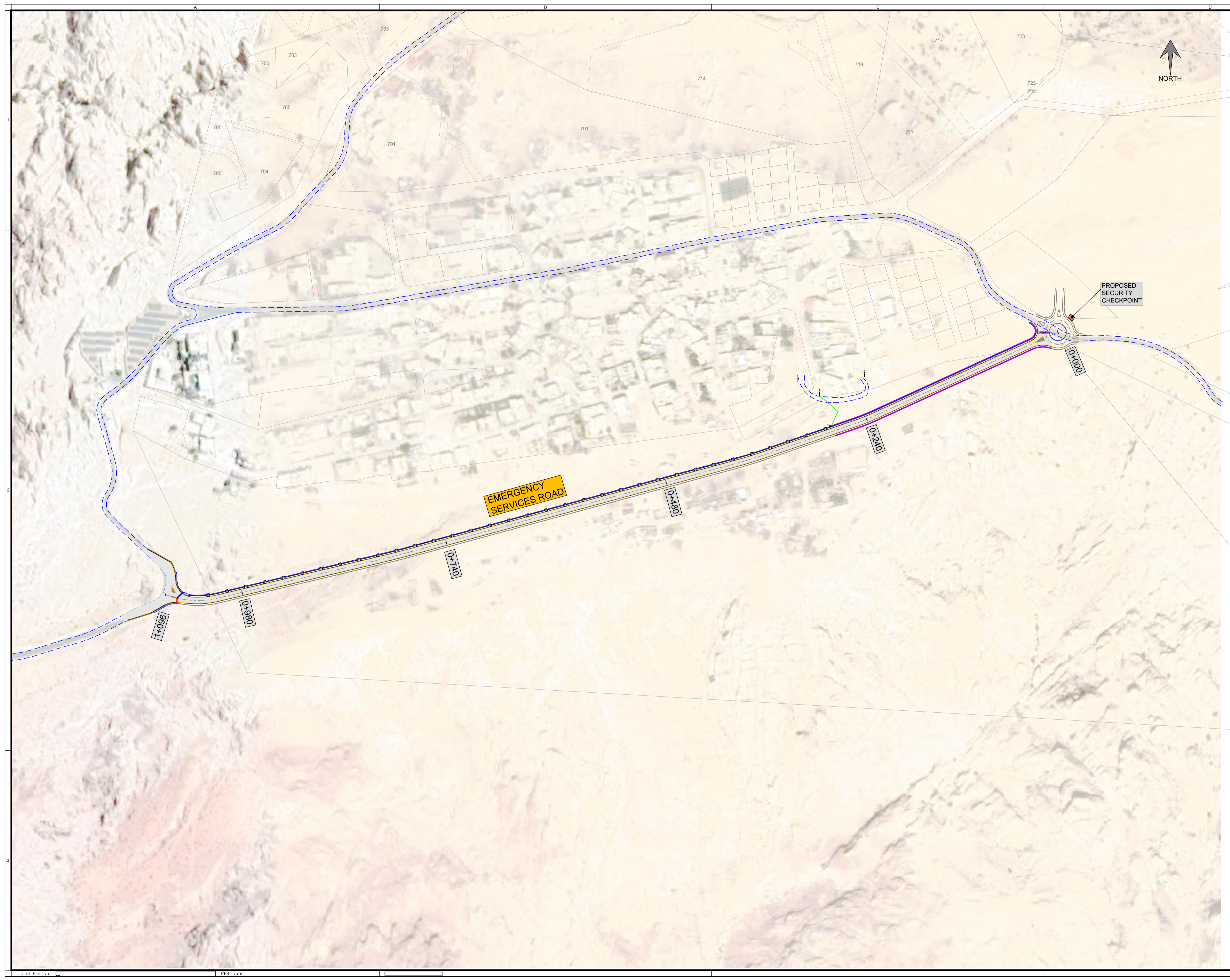


ELECTRICAL



LEGEND:

- FEEDER PILLAR
- STREET LIGHTING POLE 12m, DOUBLE ARM 1.5m, 2x150W LED.
- STREET LIGHTING POLE 12m, SINGLE ARM 1.5m, 1x150W LED.
- STREET CROSSING TRENCH

NOTE:
DISTANCE BETWEEN LIGHTING POLES=30m

LEGEND ROAD:

- EDGE OF PAVEMENT
- EDGE OF SHOULDER
- CUBSTONE
- PAINT LINE
- LANE LINE
- EXISTING ROAD
- PROPOSED GEO GRID WALL
- GUARDRAIL
- ROAD
- SIDE WALK
- SHOULDER

BY	DATE	SUBJECT	REV
<input checked="" type="checkbox"/>		Review/Verification	
<input type="checkbox"/>		Validation	
Stage	I	II	III
Date			

CONSTRUCTION DOCUMENT

KEY PLAN

NORTH

CLIENT

HASHEMITE KINGDOM OF JORDAN
PETRA DEVELOPMENT & TOURISM REGION AUTHORITY

CONSULTANT

DAR AL-OMRAN

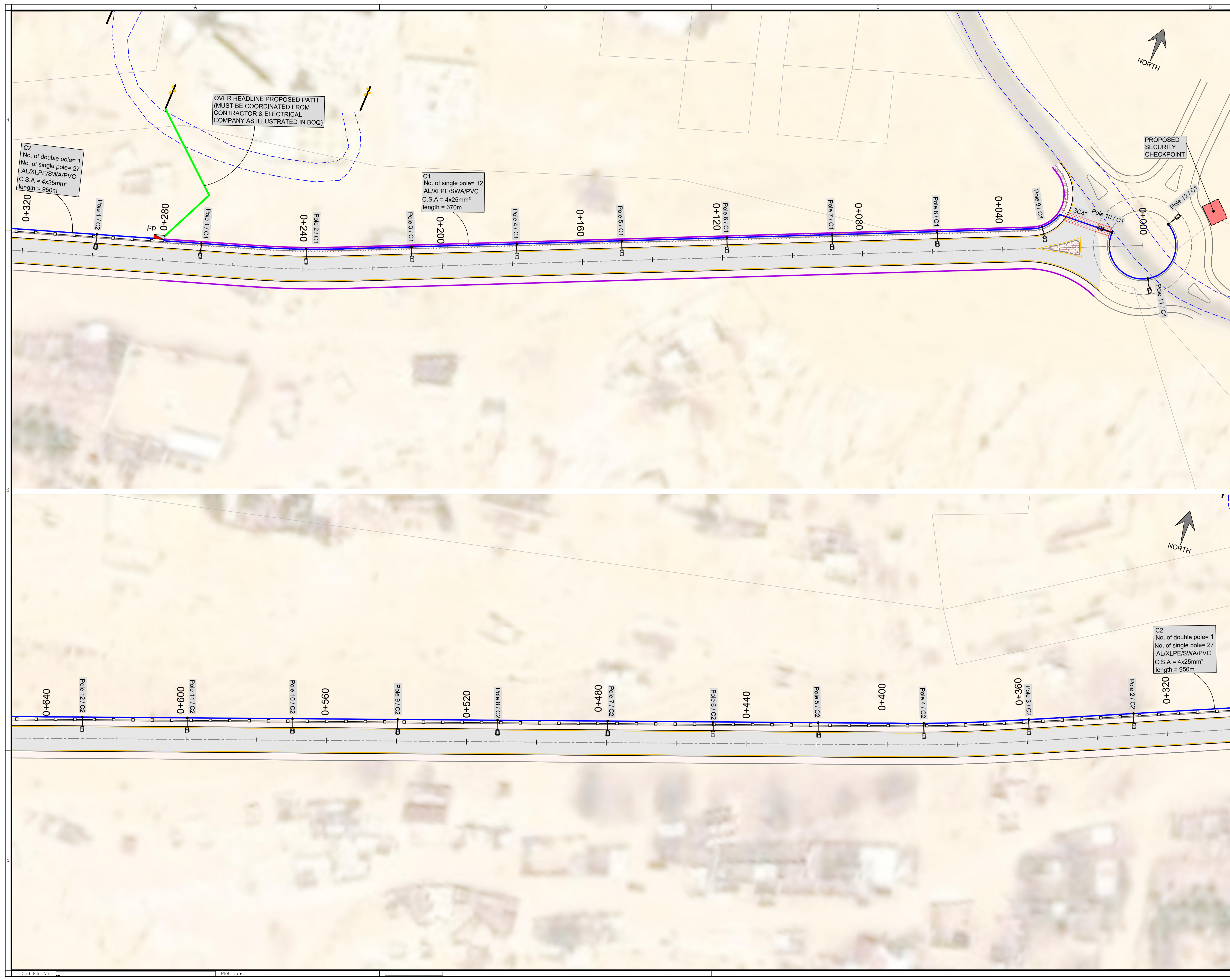
PROJECT TITLE
تنفيذ شارع خدمات الطوارئ
EMERGENCY SERVICES ROAD

DRAWING NAME
STREET LIGHTING
GENERAL LAYOUT

SCALE: _____ WHEN PRINTED AT A1 SHEET SIZE

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
CAD&GIS	A.J	M.J	TEAM
DATE	PROJECT NO	DRAWING NO	REV
OCT. 2022	NLD291-21	E200	00

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LEGEND:

- FEEDER PILLAR
- STREET LIGHTING POLE 12m, DOUBLE ARM 1.5m, 2x150W LED.
- STREET LIGHTING POLE 12m, SINGLE ARM 1.5m, 1x150W LED.
- STREET CROSSING TRENCH

NOTE:
DISTANCE BETWEEN LIGHTING POLES=30m

LEGEND ROAD:

- EDGE OF PAVEMENT
- EDGE OF SHOULDER
- CUBSTONE
- PAINT LINE
- LANE LINE
- EXISTING ROAD
- PROPOSED GEO GRID WALL
- GUARDRAIL
- ROAD
- SIDE WALK
- SHOULDER

BY	DATE	SUBJECT	REV

Review/Verification Validation

Stage	I	II	III	IV	B	CONSTRUCTION DOCUMENT
Date						

KEY PLAN

CLIENT

HASHEMITE KINGDOM OF JORDAN
PETRA DEVELOPMENT & TOURISM REGION AUTHORITY

CONSULTANT

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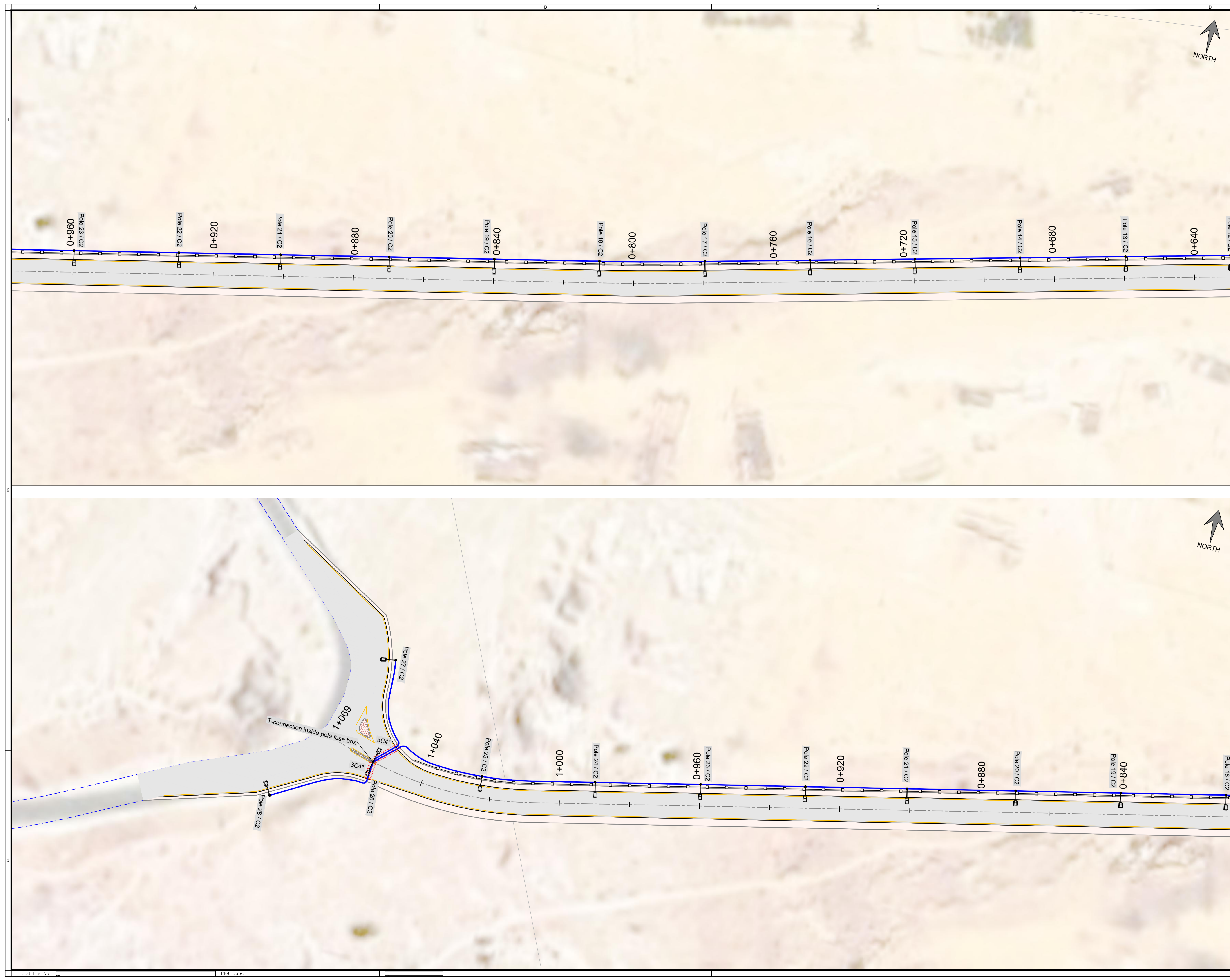
PROJECT TITLE
تنفيذ شارع خدمات الطوارئ
EMERGENCY SERVICES ROAD

DRAWING NAME
STREET LIGHTING
FROM STA.0+000 TO STA.0+640

SCALE 1/500 WHEN PRINTED AT A1 SHEET SIZE

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
CAD&GIS	A.J	M.J	TEAM
DATE	PROJECT NO	DRAWING NO	REV
OCT. 2022	NLD291-21	E201	00

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LEGEND:

- FP FEEDER PILLAR
- STREET LIGHTING POLE 12m, DOUBLE ARM 1.5m, 2x150W LED.
- STREET LIGHTING POLE 12m, SINGLE ARM 1.5m, 1x150W LED.
- STREET CROSSING TRENCH

NOTE:
DISTANCE BETWEEN LIGHTING POLES=30m

LEGEND ROAD:

- EDGE OF PAVEMENT
- EDGE OF SHOULDER
- CUBSTONE
- PAINT LINE
- LANE LINE
- EXISTING ROAD
- PROPOSED GEO GRID WALL
- GUARDRAIL
- ROAD
- SIDE WALK
- SHOULDER



BY	DATE	SUBJECT	REV

Review/Verification Validation
 Stage I II III B CONSTRUCTION DOCUMENT
 Date

KEY PLAN

NORTH

CLIENT

HASHEMITE KINGDOM OF JORDAN
PETRA DEVELOPMENT & TOURISM REGION AUTHORITY

CONSULTANT

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P.O. Box 94208 Amman - 11184 - Jordan
Tel: (962) 96 81000 Fax: (962) 96 80000
E: info@daral-omran.com www: www.daral-omran.com

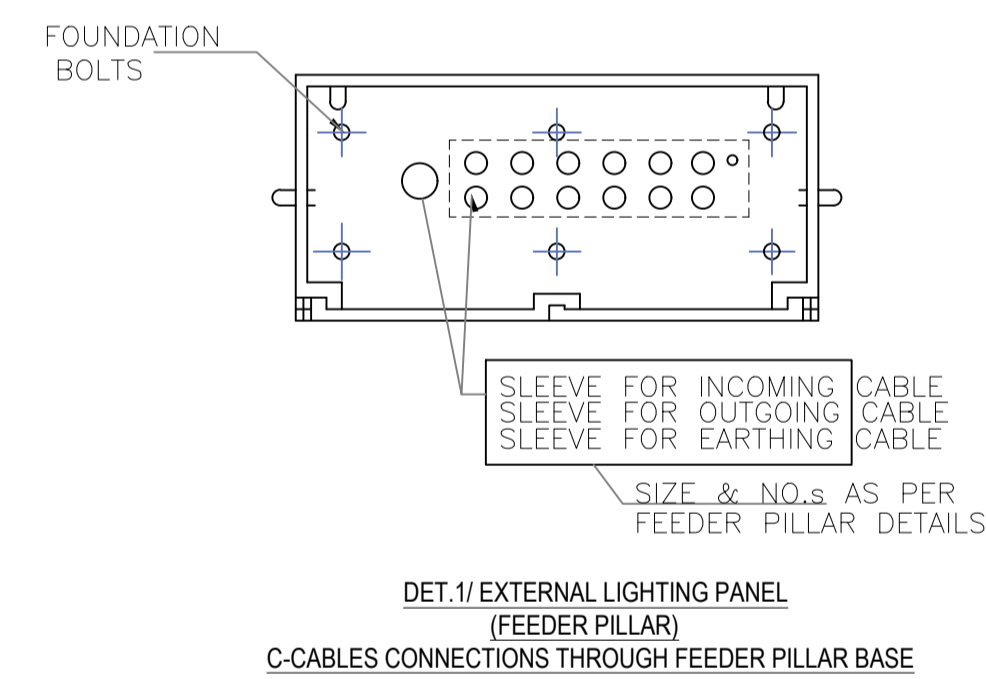
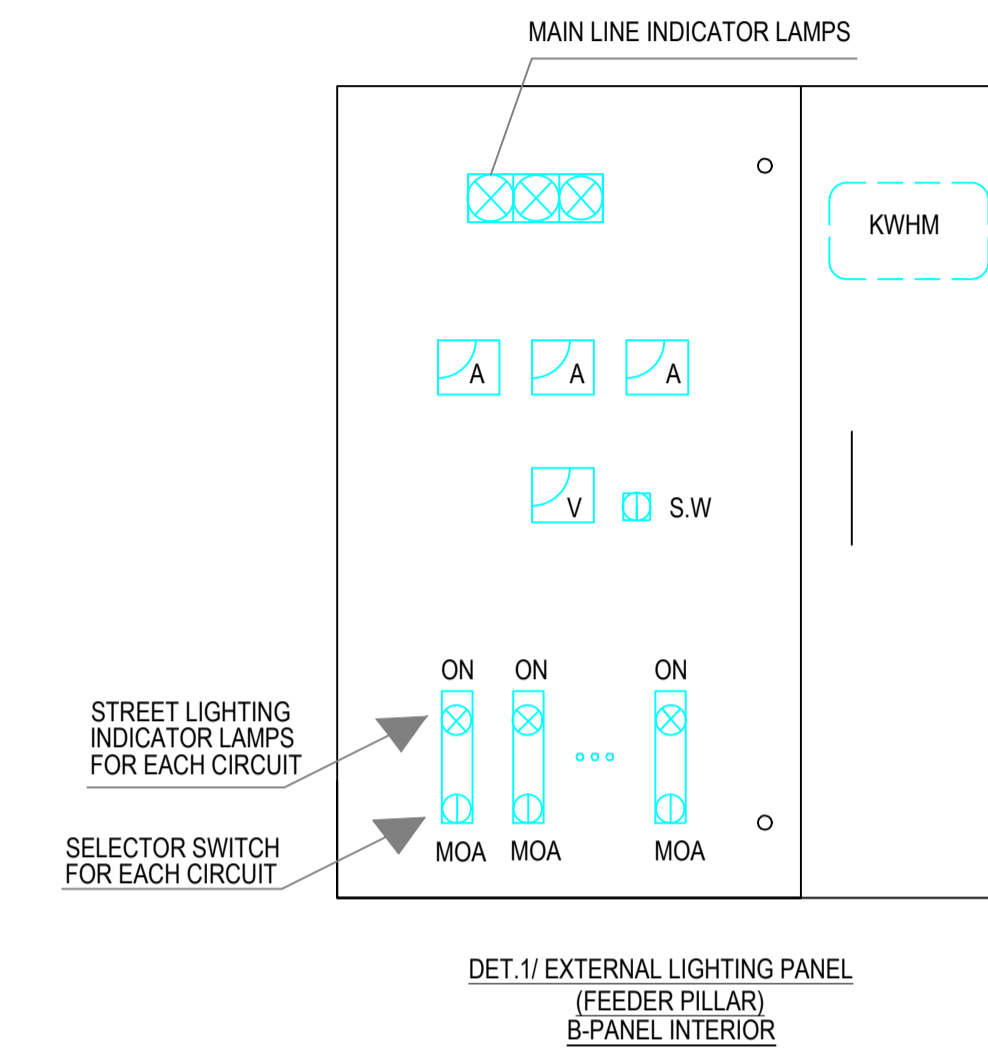
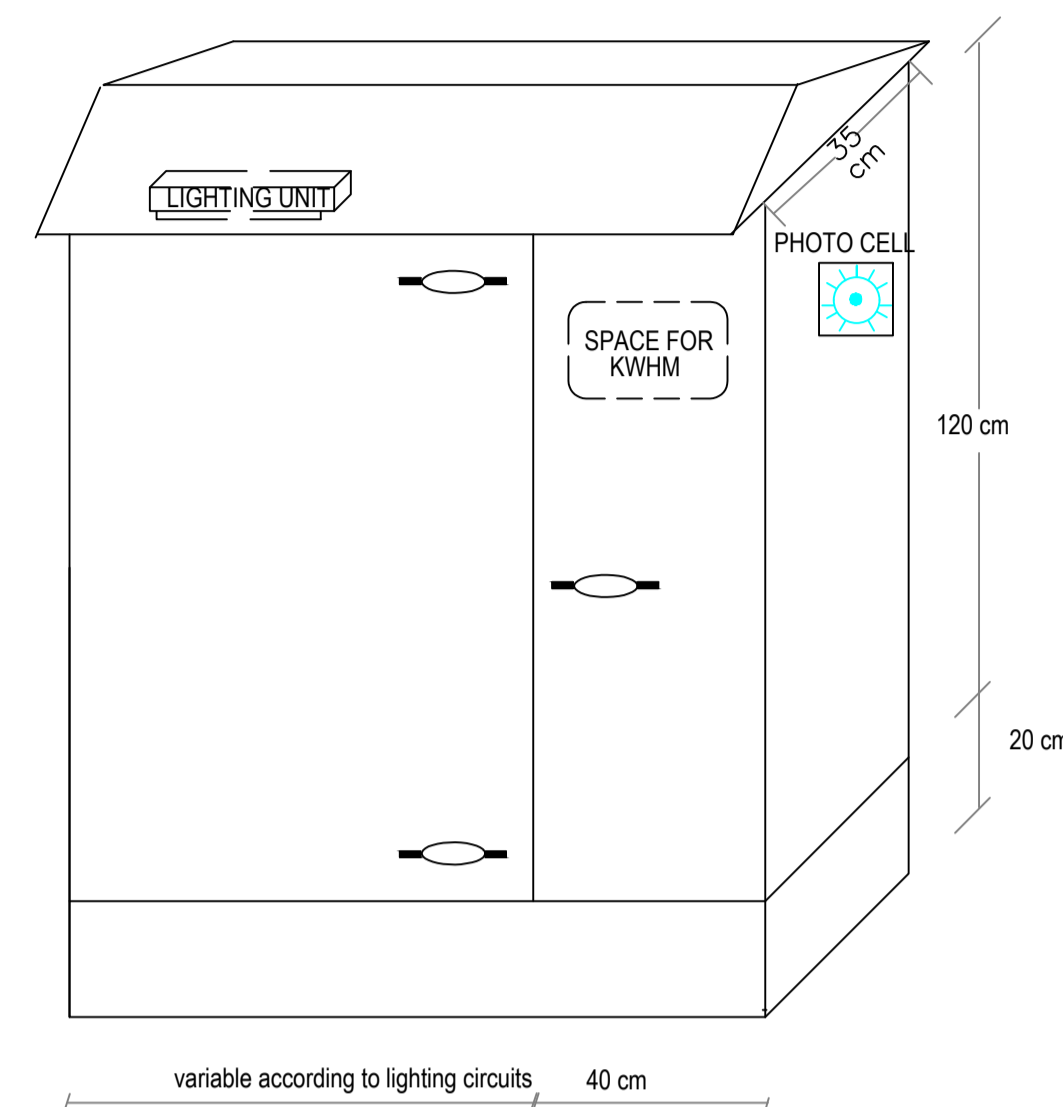
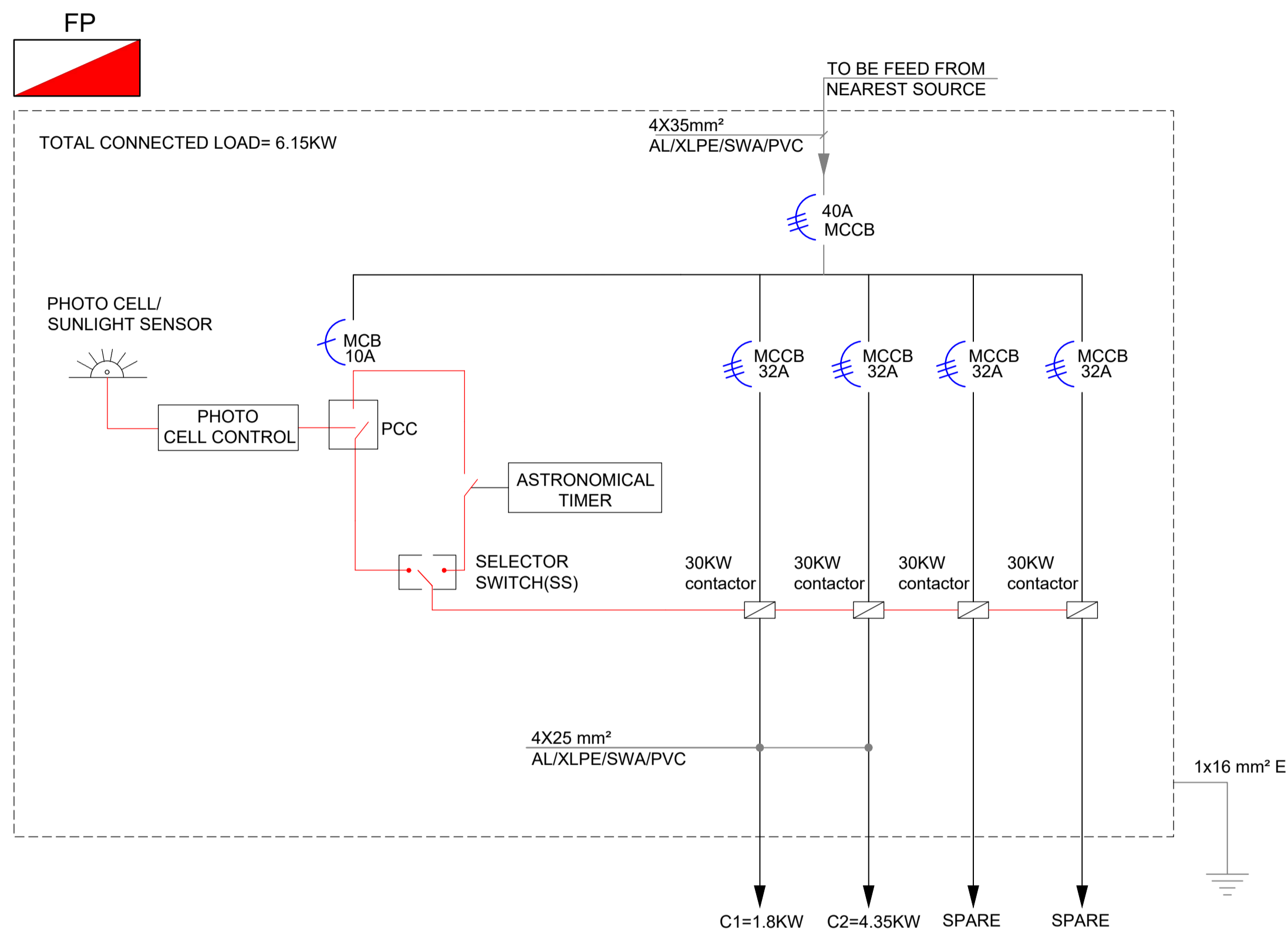
PROJECT TITLE
تنفيذ شارع خدمات الطوارئ
EMERGENCY SERVICES ROAD

DRAWING NAME
STREET LIGHTING
FROM STA.0+640 TO END

SCALE 1/500 WHEN PRINTED AT A1 SHEET SIZE

DRAWN BY	CHECKED BY	APPROVED BY	DESIGNED BY
CAD&GIS	A.J	M.J	TEAM
DATE	PROJECT NO	DRAWING NO	REV
OCT. 2022	NLD291-21	E202	00

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VOLTAGE DROP CALCULATIONS

Cable Tag no		Cable				Load			V.D			
From	To	Cable Size	Phase	Selected Cable no.	Length m	mV mV/A/m	Pload KW	Ib A	Circuit Factor	V.D	V.D	V.Dtotal
		mm2	1-Ø or 3-Ø							V	%	
Nearest Over head Line	FP	35	3-Ø	1	20	1.95	6.15	10.5	1.0	0.41	0.10%	0.10%
FP	C1	25	3-Ø	1	370	2.7	1.80	3.1	0.5	1.53	0.38%	0.48%
FP	C2	25	3-Ø	1	950	2.7	4.35	7.4	0.5	9.48	2.37%	2.47%

BY	DATE	SUBJECT	REV

KEY PLAN

STAGE: I II III B CONSTRUCTION DOCUMENT

DATE: / /

NORTH

CLIENT: Petra Hashemite Kingdom of Jordan Petra Development & Tourism Region Authority

CONSULTANT: DAR AL-OMRAN

PROJECT TITLE: تنفيذ شارع خدمات الطوارئ EMERGENCY SERVICES ROAD

DRAWING NAME: STREET LIGHTING FEEDER PILLAR

SCALE	WHEN PRINTED AT A1 SHEET SIZE		
DRAWN BY: CAD&GIS SECTION	CHECKED BY: A.J	APPROVED BY: M.J	DESIGNED BY: TEAM
DATE: OCT. 2022	PROJECT NO: NLD291-21	DRAWING NO: E203	REV: 00

THIS DRAWING IS THE EXCLUSIVE PROPERTY OF DAR AL-OMRAN. REPRODUCTION IN ANY FORM WITHOUT THE WRITTEN CONSENT OF THE AFOREMENTIONED IS STRICTLY PROHIBITED.

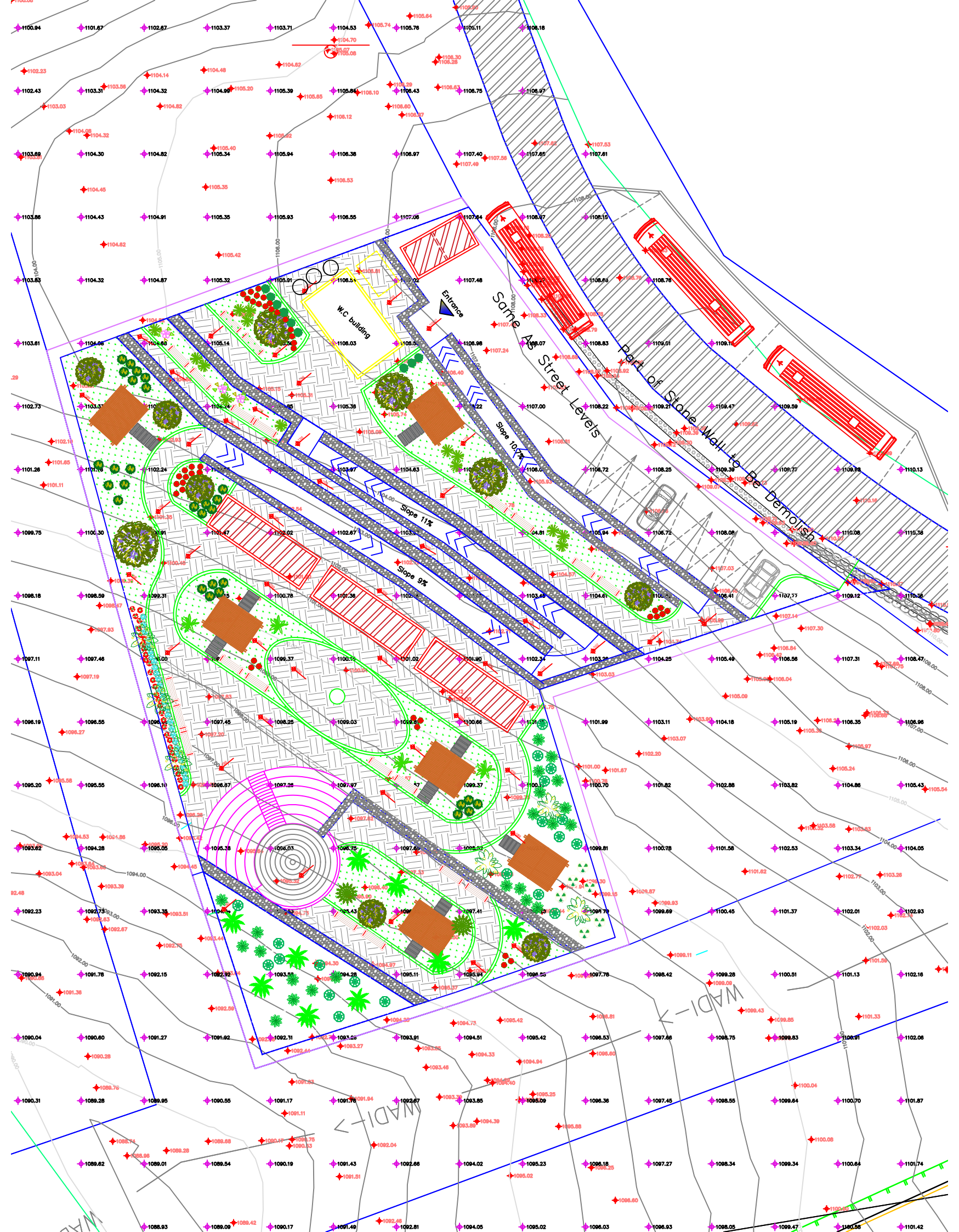


Petra Development & Tourism Region Authority

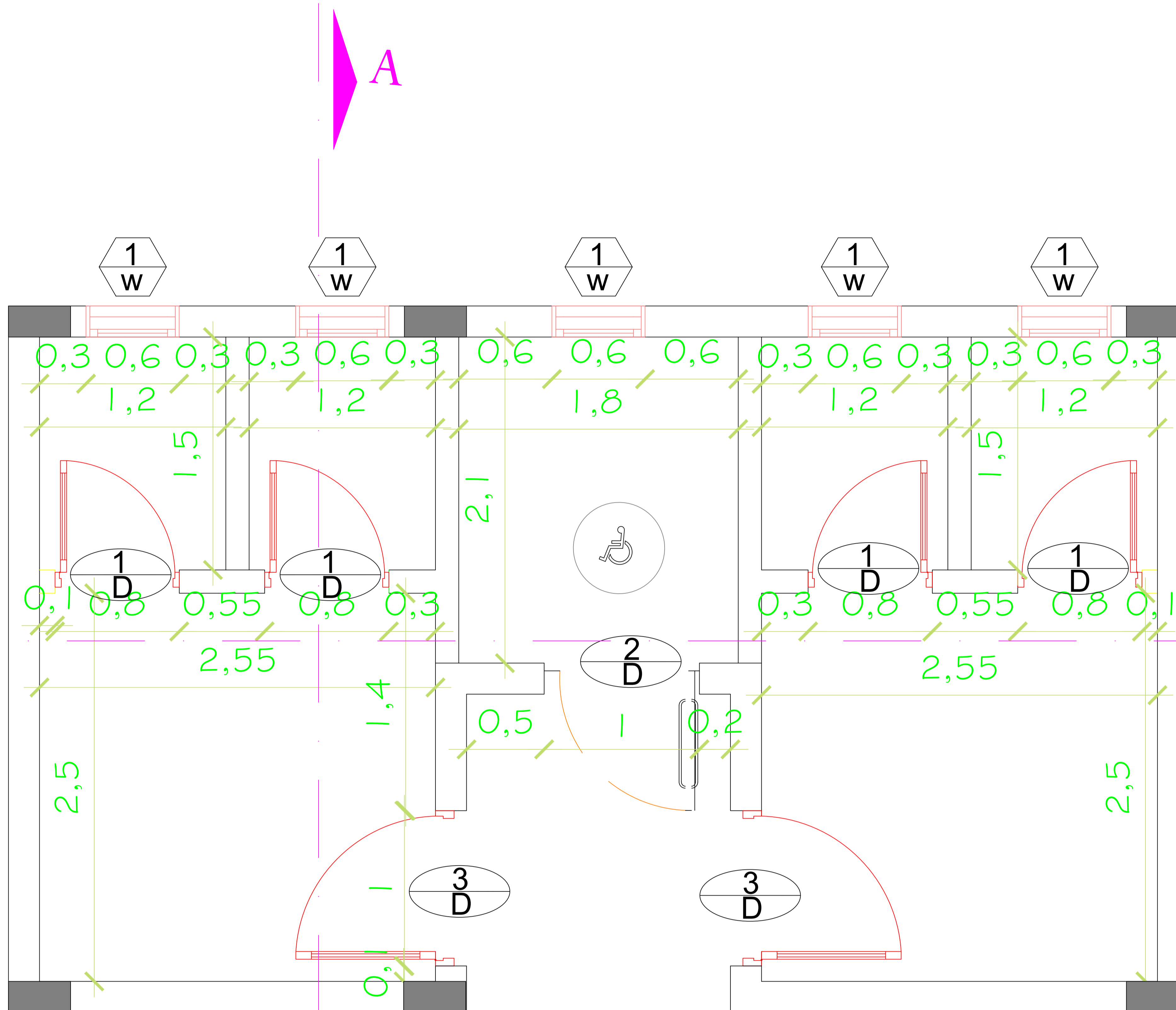
سلطة اقليم البترا التنموي السياحي

Um Sehoun

2026



W.C Building



شباك المنيور	0.60	0.60	1
باب درفة واحدة خشب	2.00	0.80	1
باب درفة واحدة خشب	2.00	1.00	2
باب درفة واحدة حديد قاصون	2.00	1.00	3



Um Sehoun

DRAWING No:
Architecture drawing

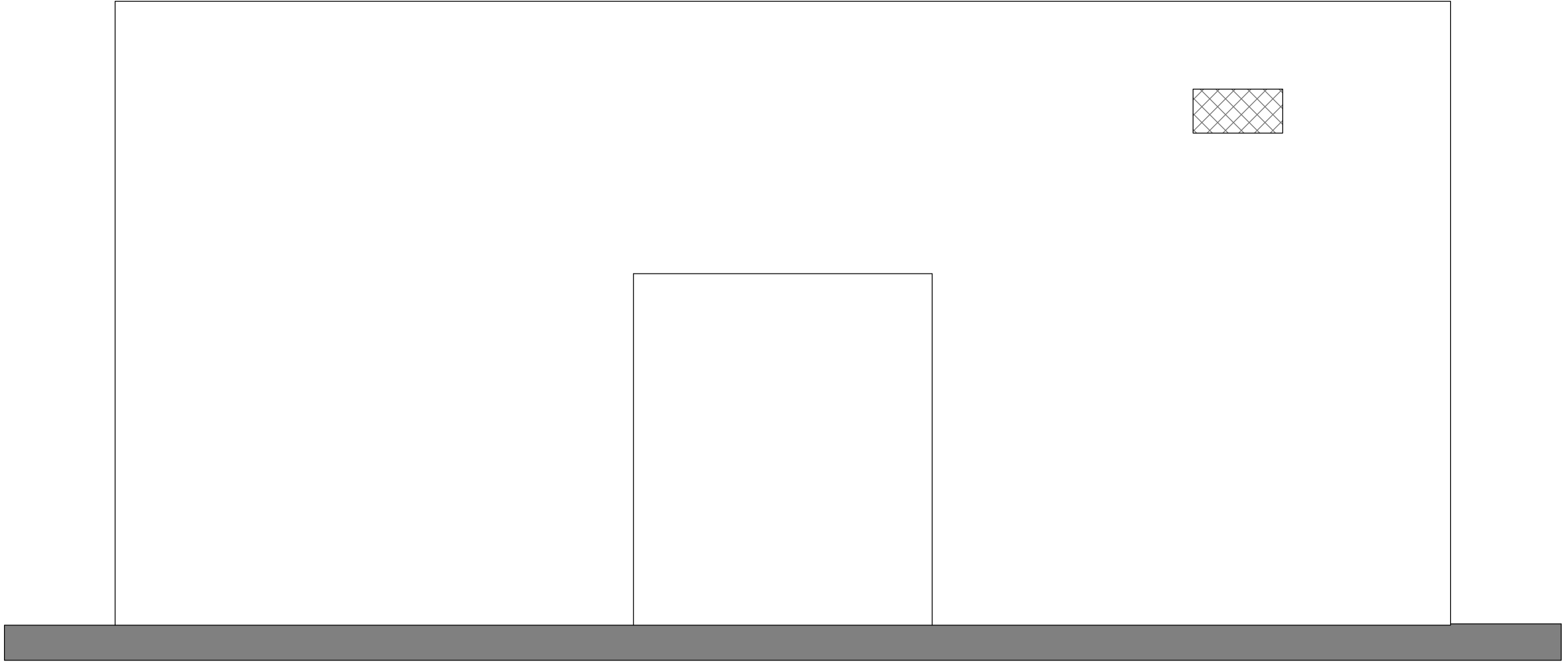
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1:100	IN	(m)	

Plan

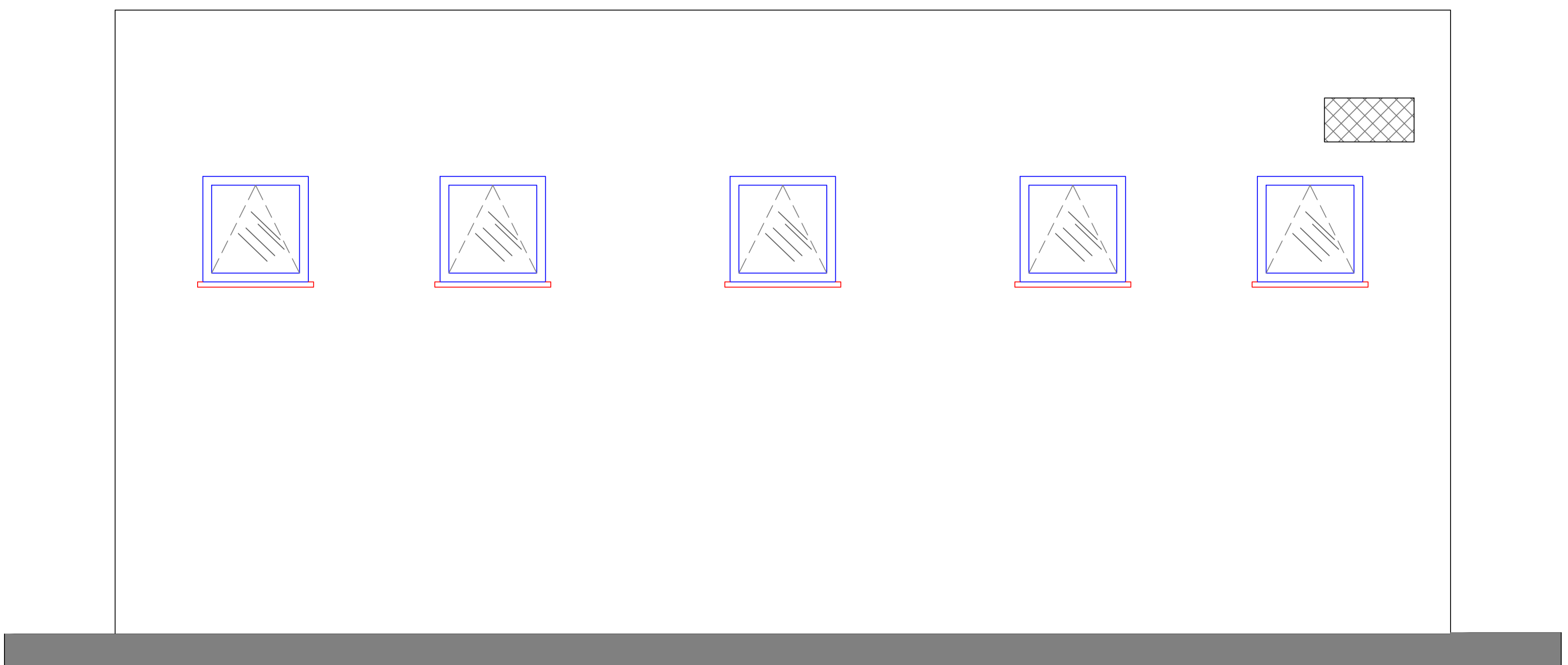
Arch.Safaa Al-amarat



Side Elevation



Front Elevation



Back Elevation

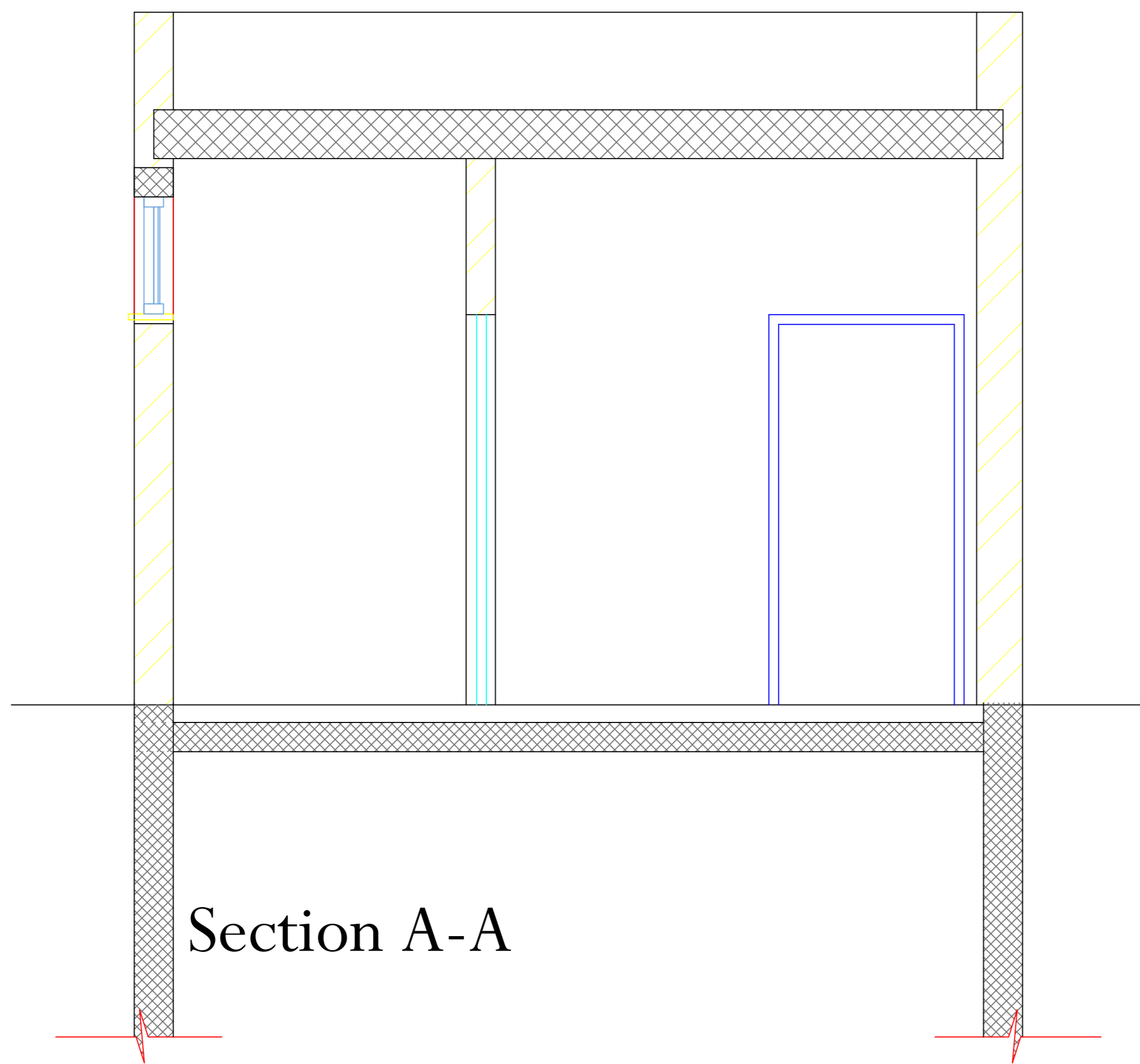
Petra Development & Tourism Region Authority
سلطة اقليم البترا التنمى السياحى

Um Sehoum

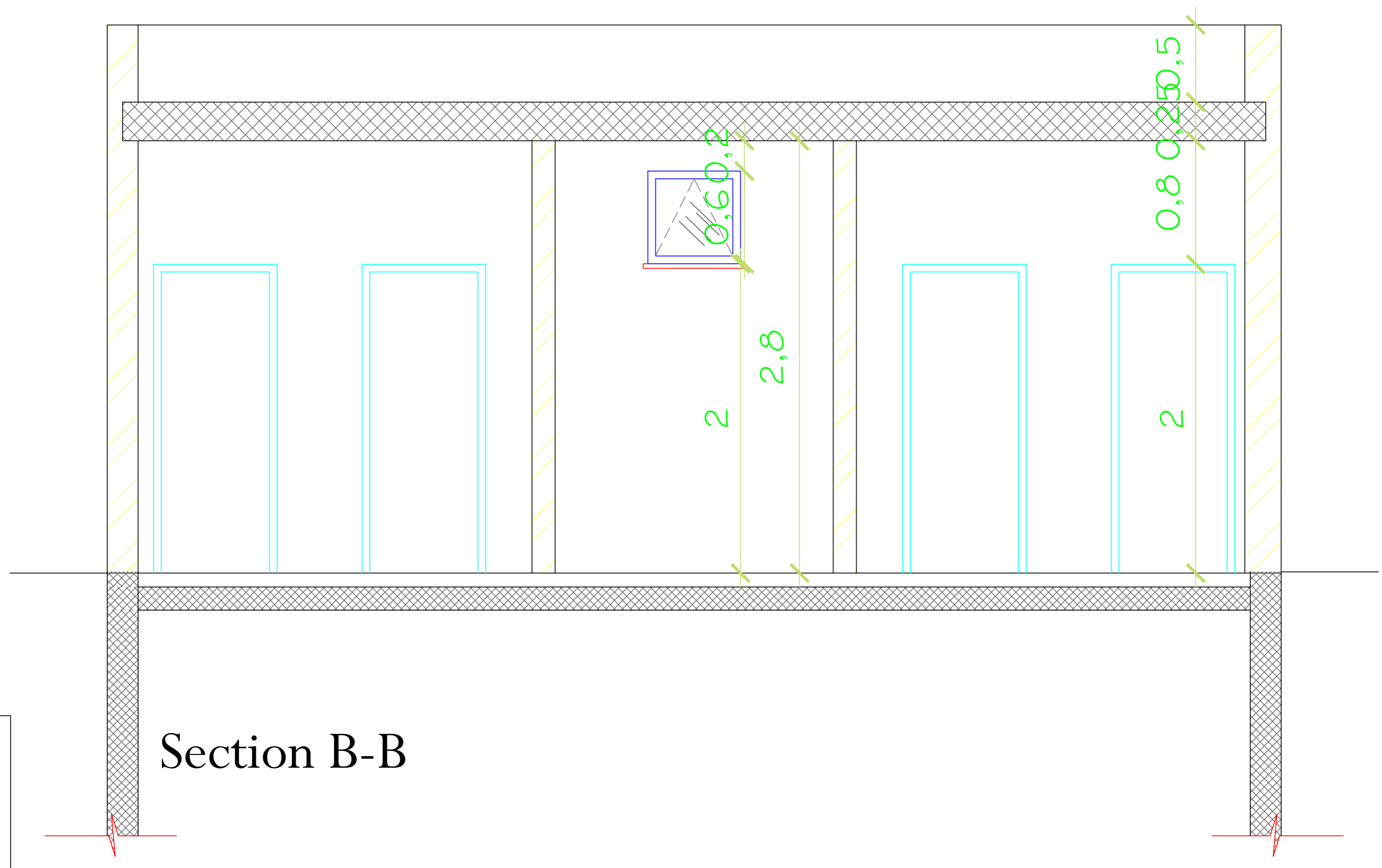
DRAWING No:
Architecture drawing

SCALE	Dimension Unit	DRAWING NO.
1:100	IN (m)	

Arch.Safaa Al-amarat



Section A-A



Section B-B

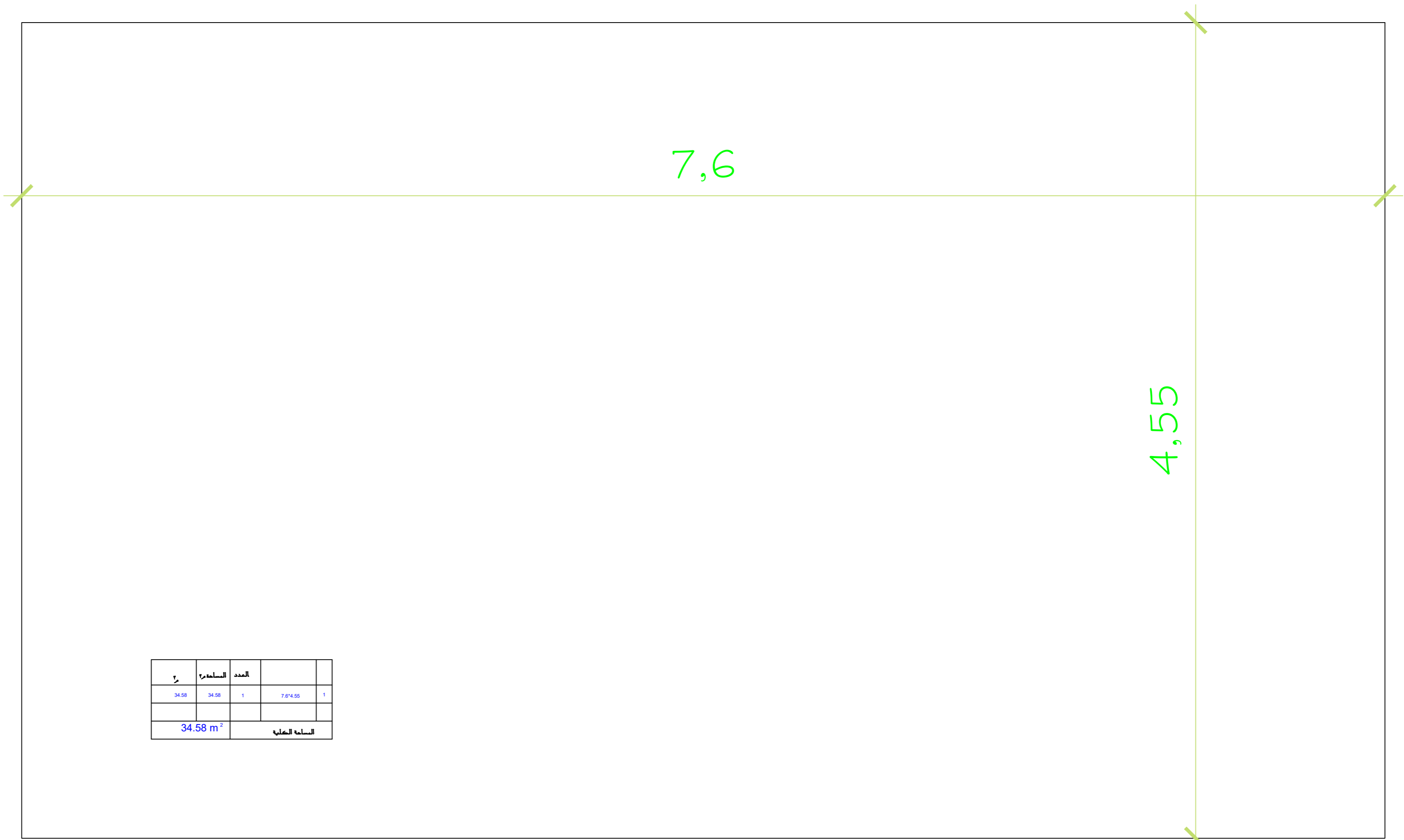
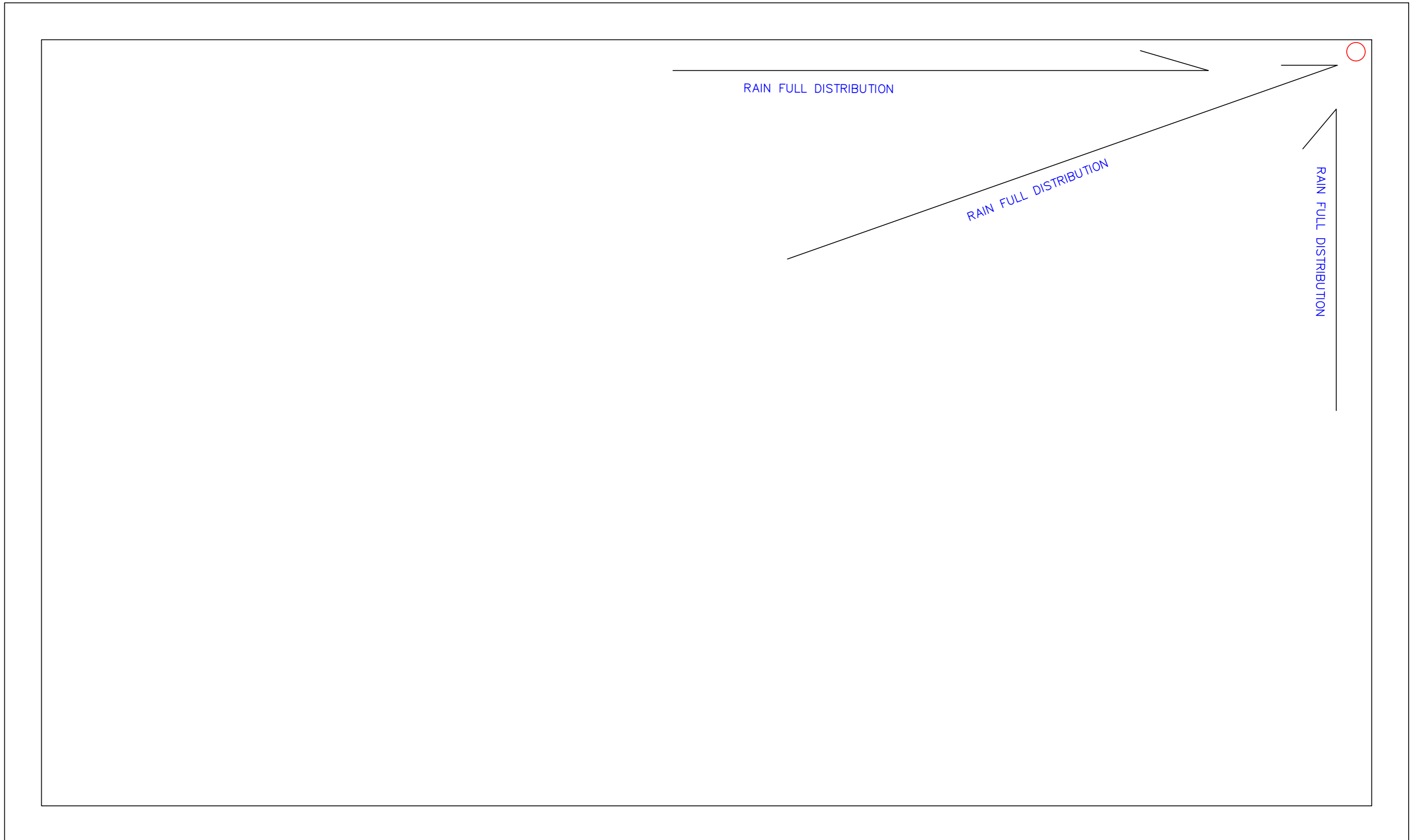


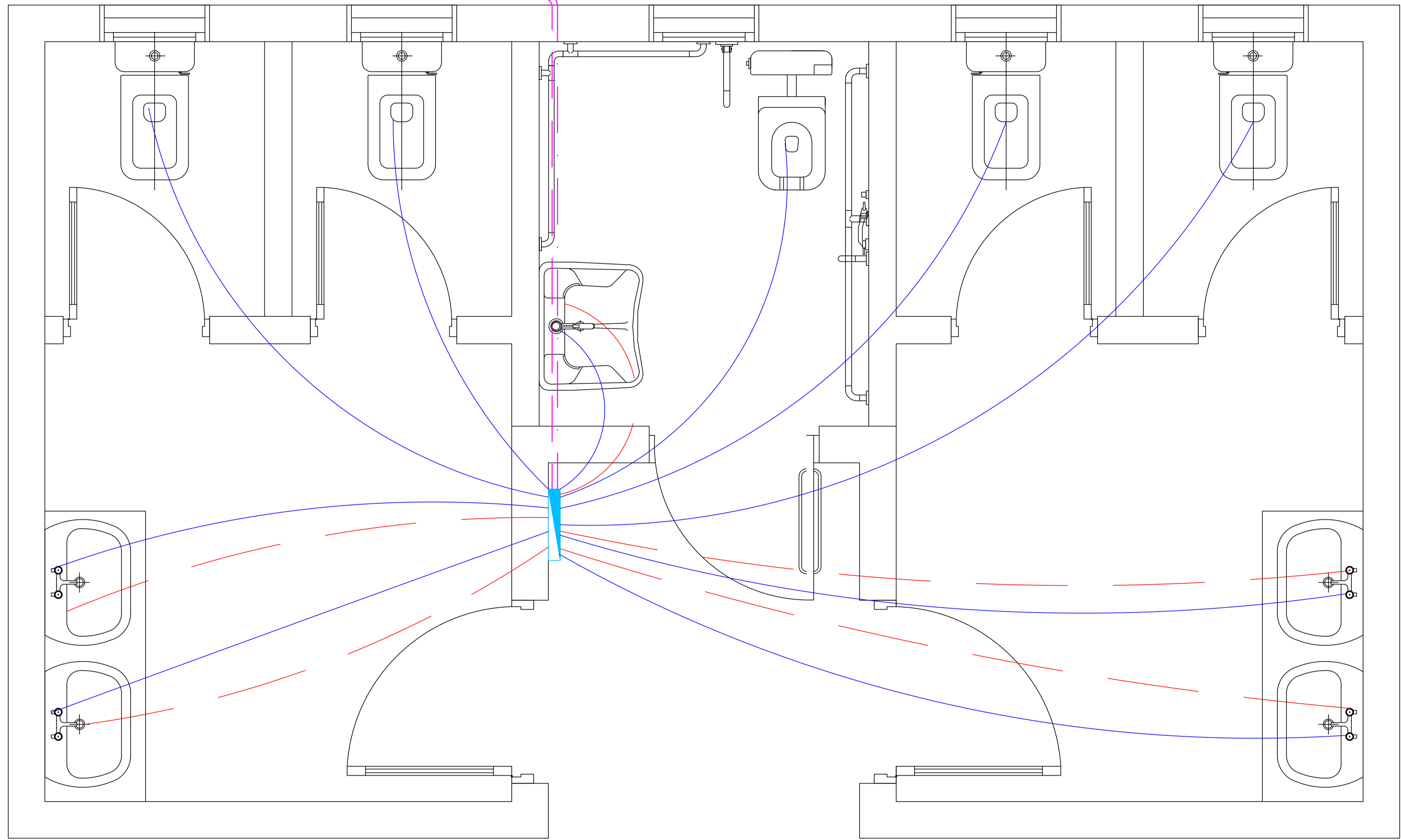
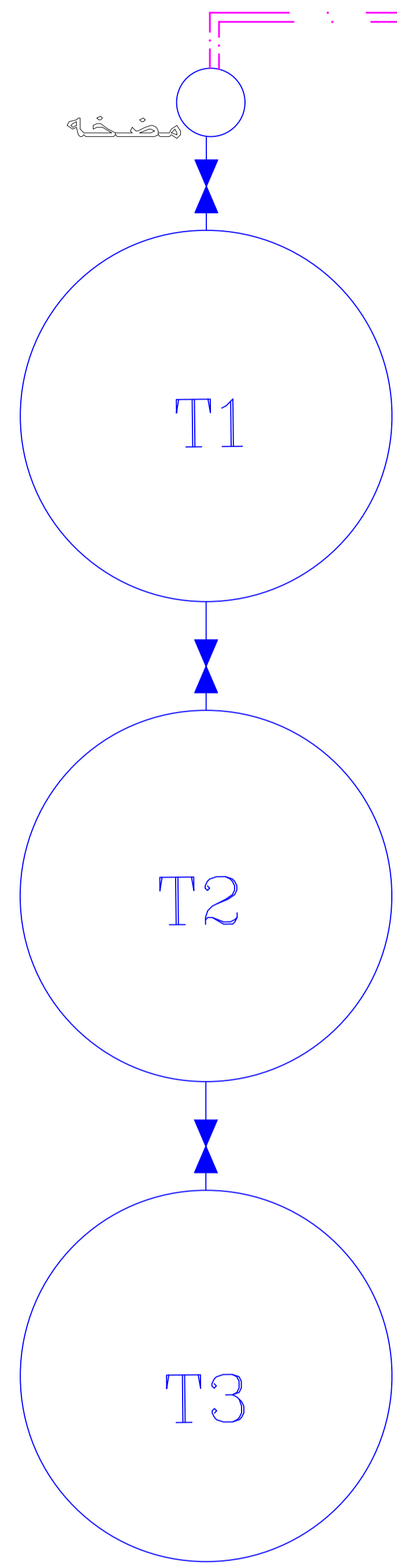
Um Sehour

DRAWING No:
Architecture drawing

SCALE	Dimension Unit	DRAWING NO.
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Arch.Safaa Al-amarat





Um Sehoun

DRAWING No:
Mechanical drawing

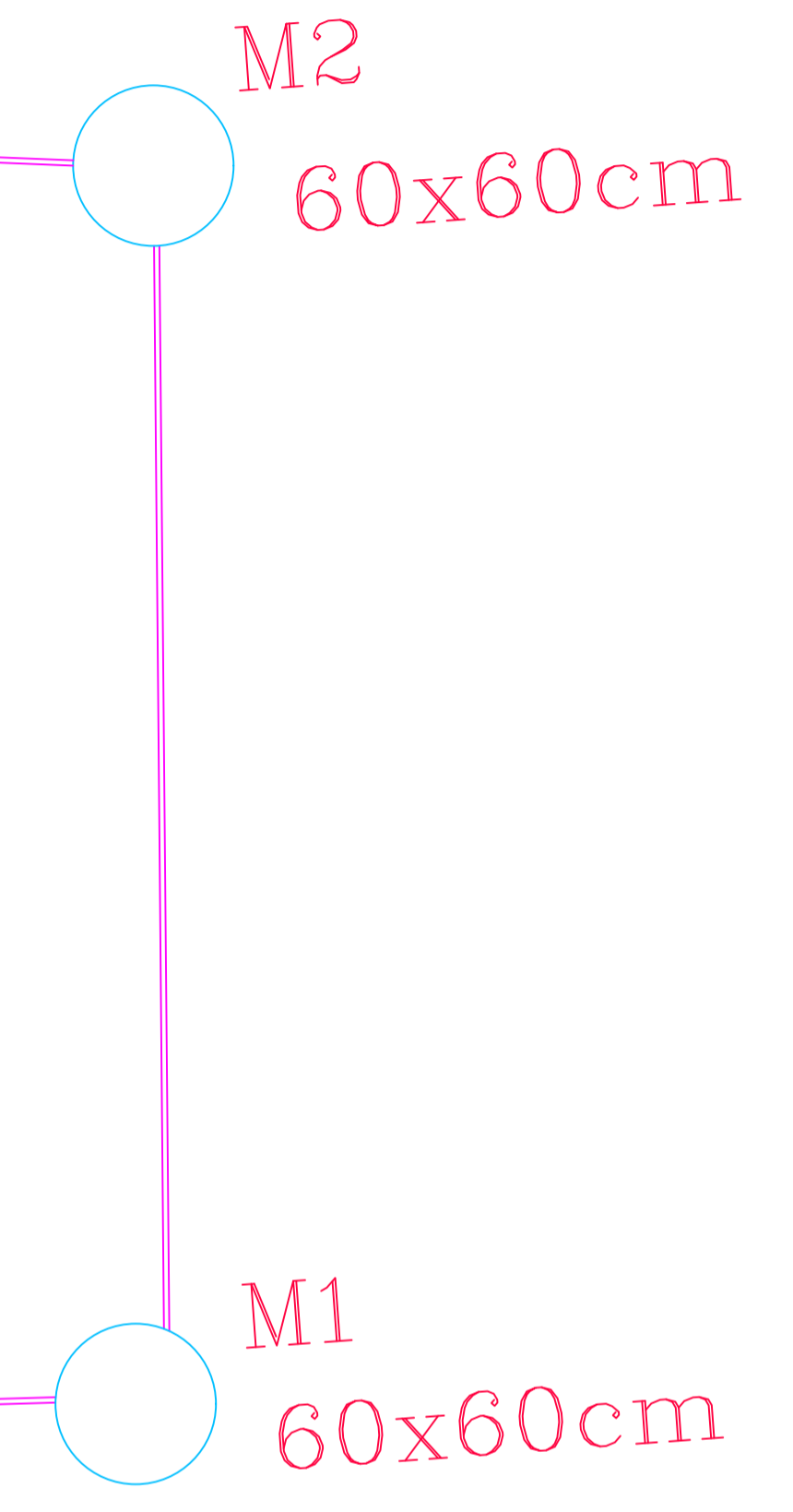
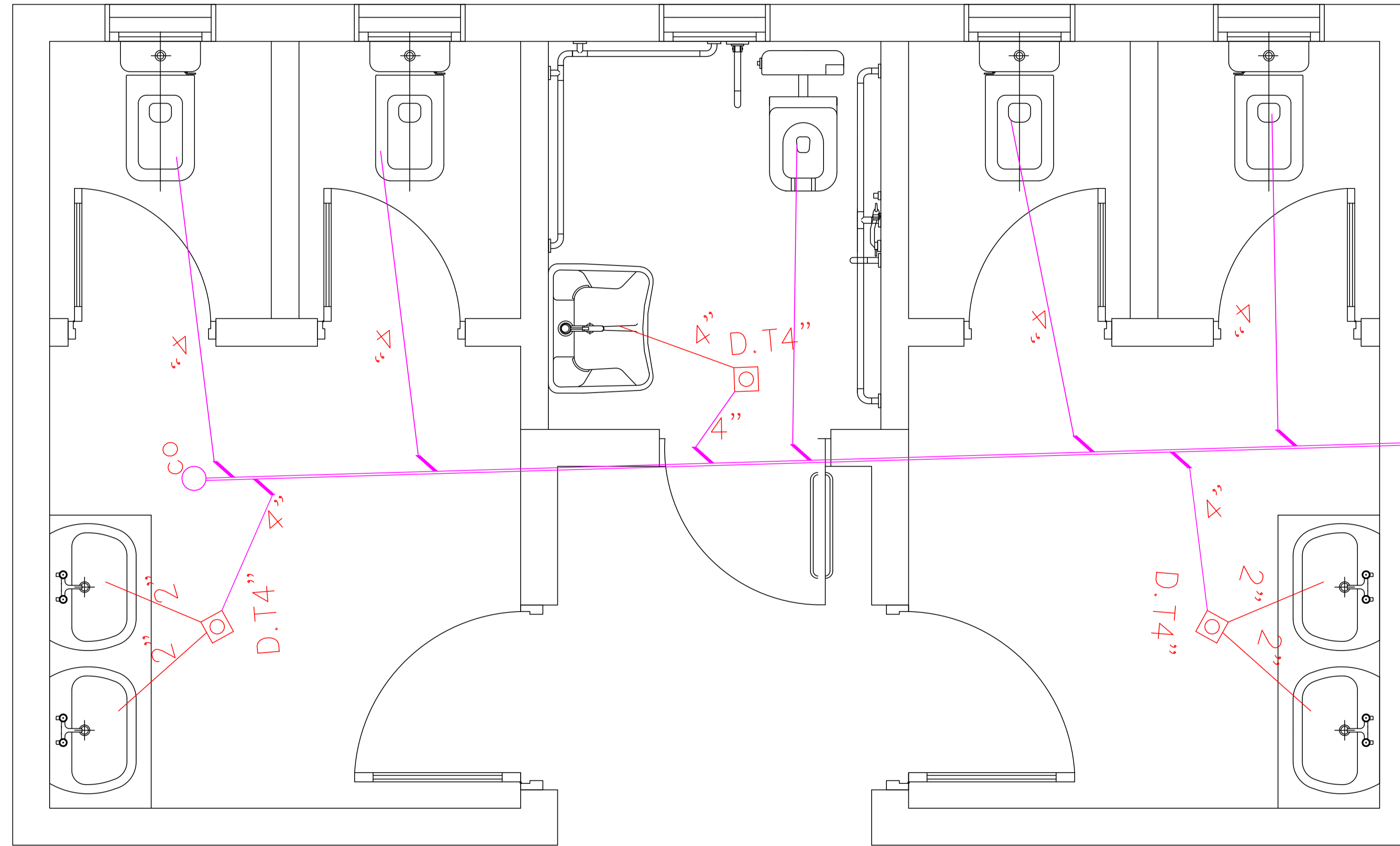
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1:100	IN (m)	

Plan

Arch.Safaa Al-amarat



SEPTIC TANK

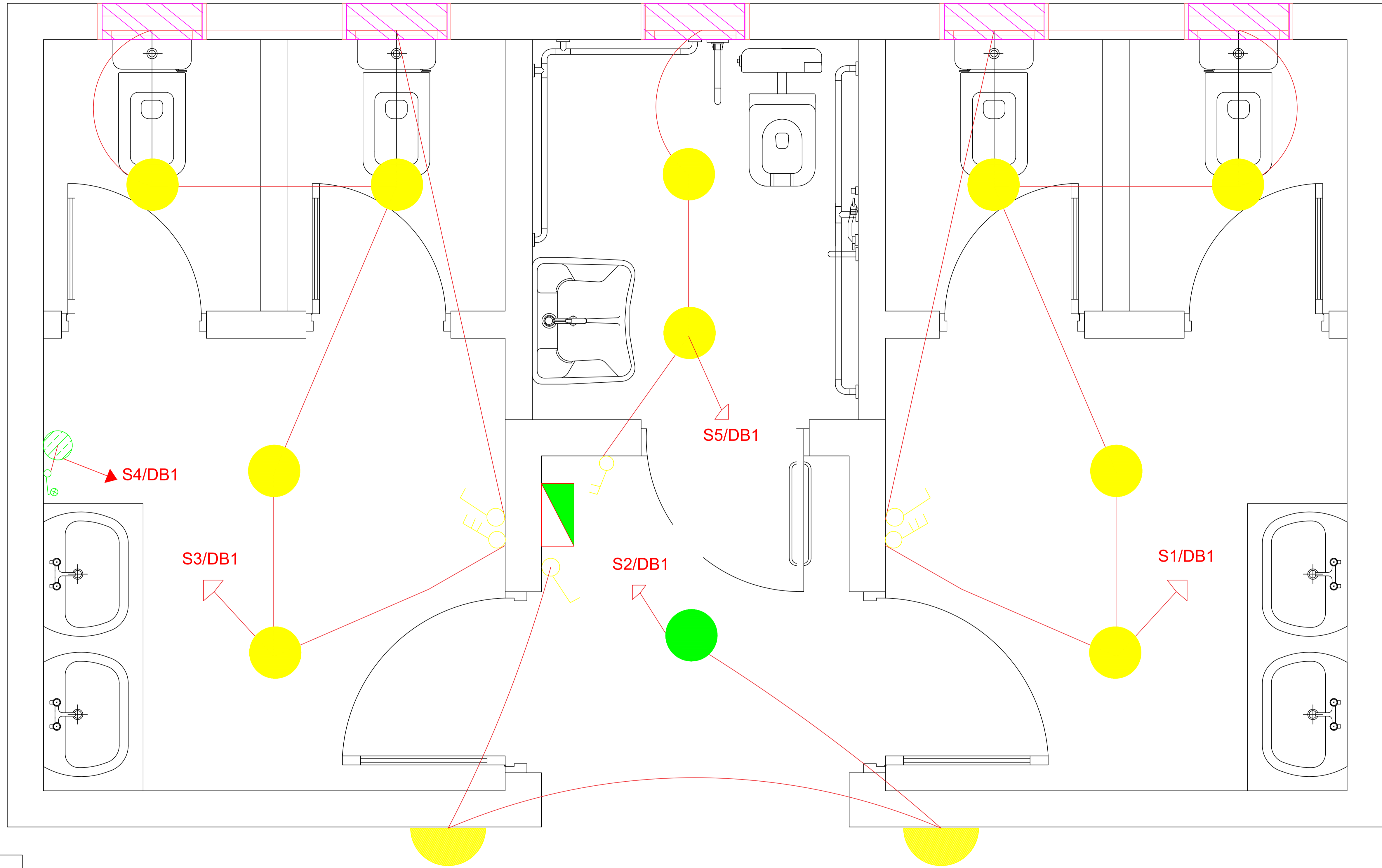


Um Sehoum

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Mechanical drawing

SCALE	Dimensions Unit	DRAWING NO.
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Plan
Arch.Safaa Al-amarat



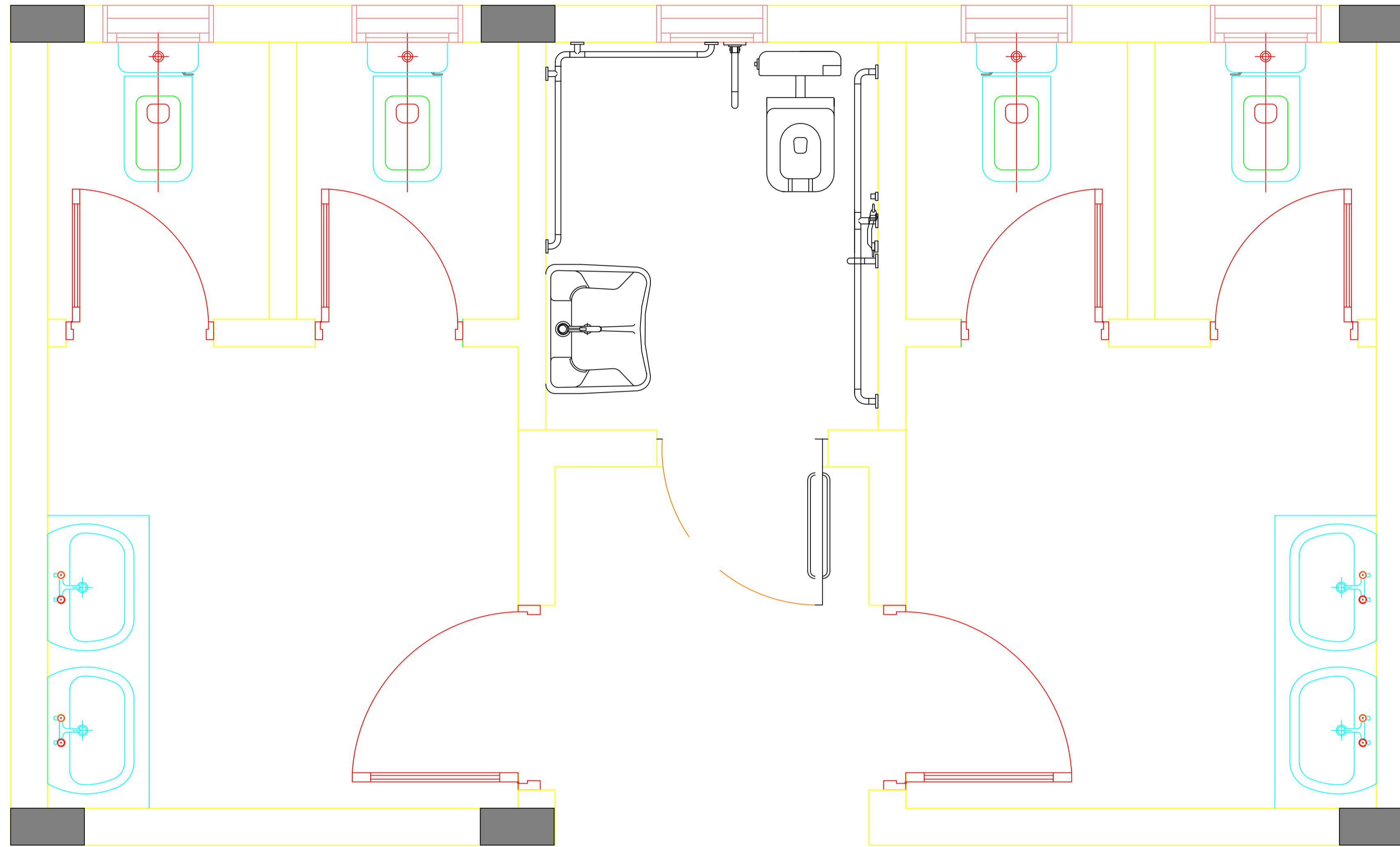
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Plan

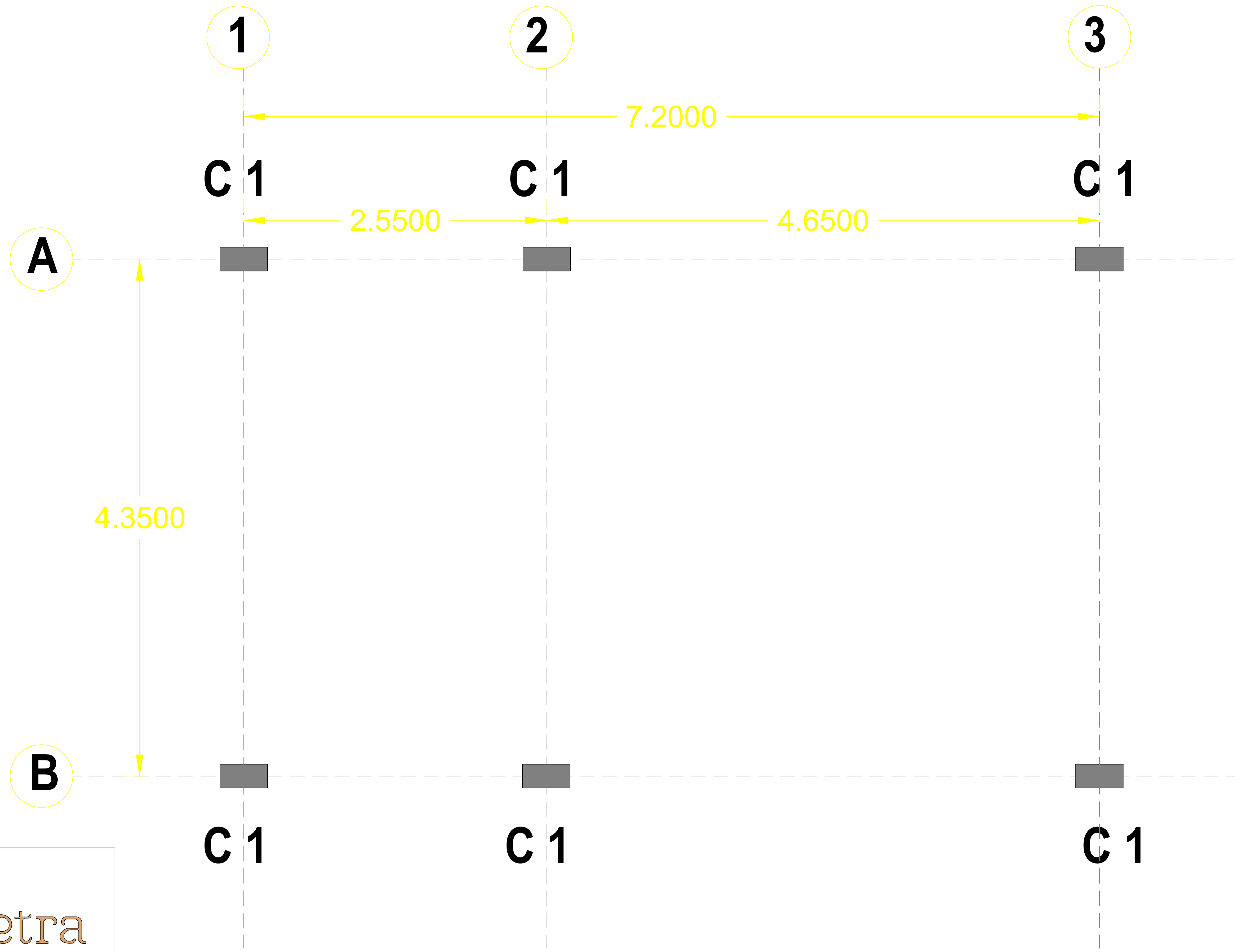
Eng.Remal Fdool



DRAWING No: S-06

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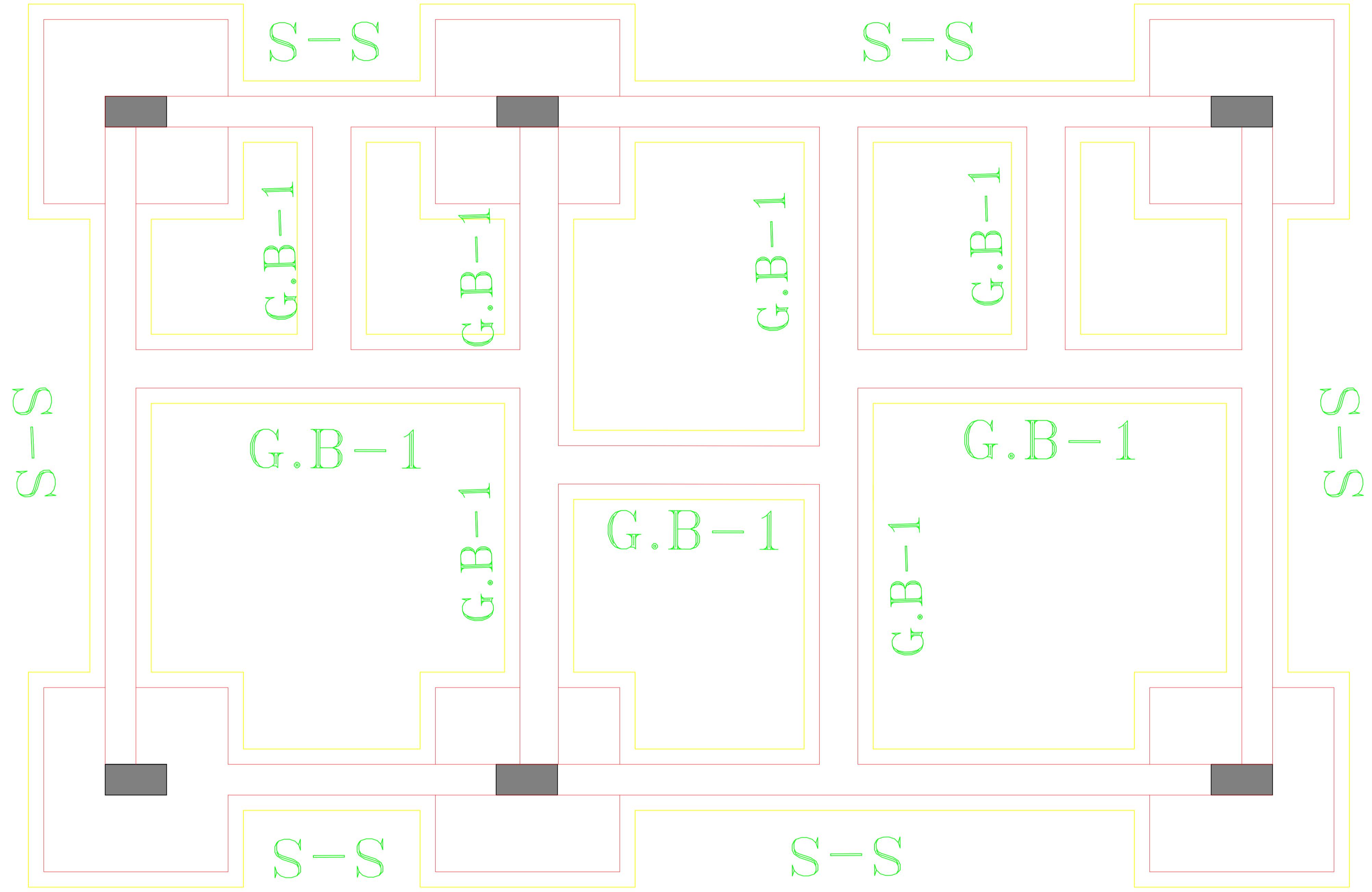
Plan



DRAWING No: S-06

SCALE	Dimensions Are:	DRAWING NO.
1:100	IN (m)	

Plan



Petra Development & Tourism Region Authority

سلطة اقليم البترا للتنمى السياحى

DRAWING No:

S-06

SCALE

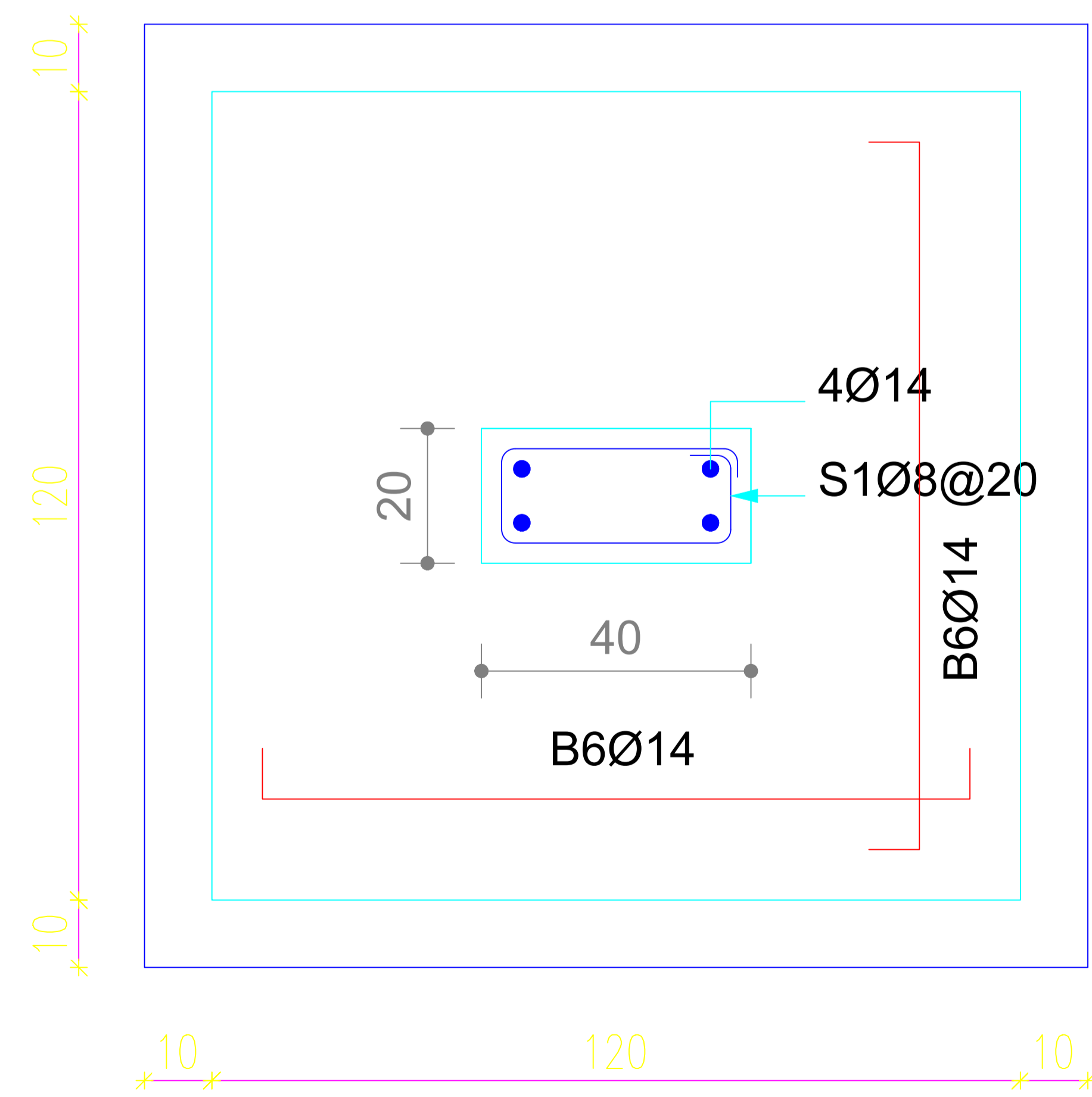
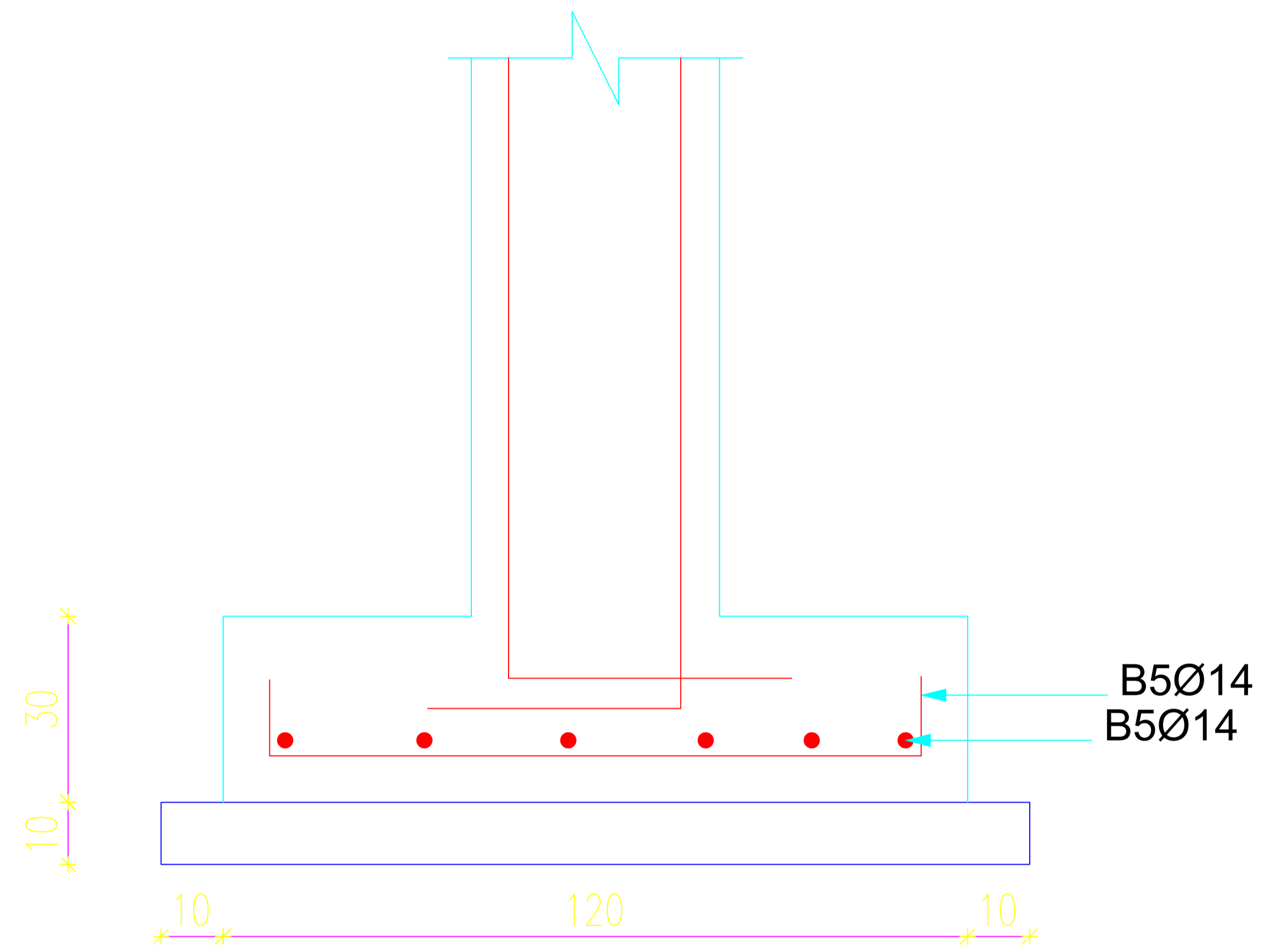
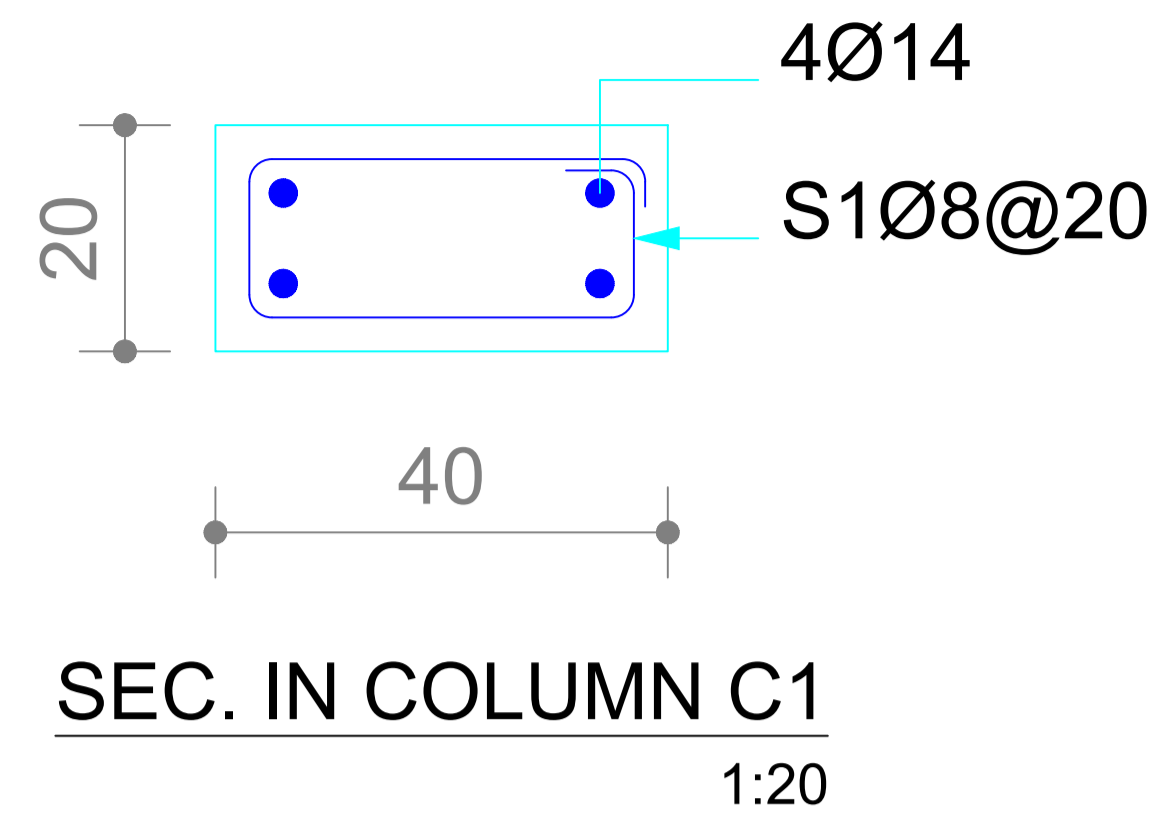
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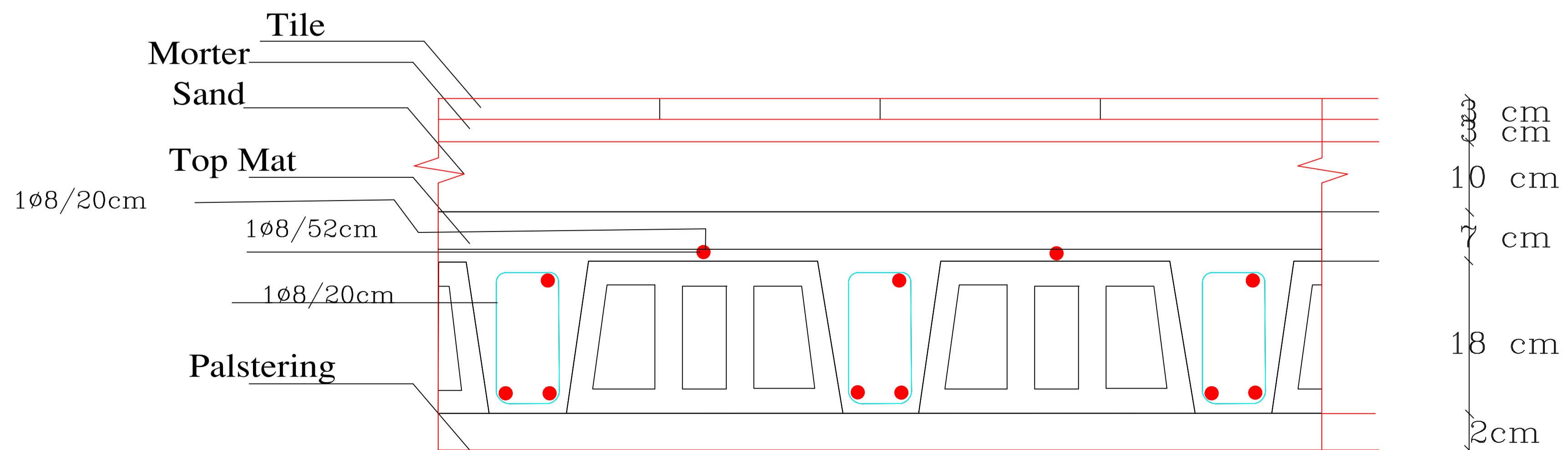
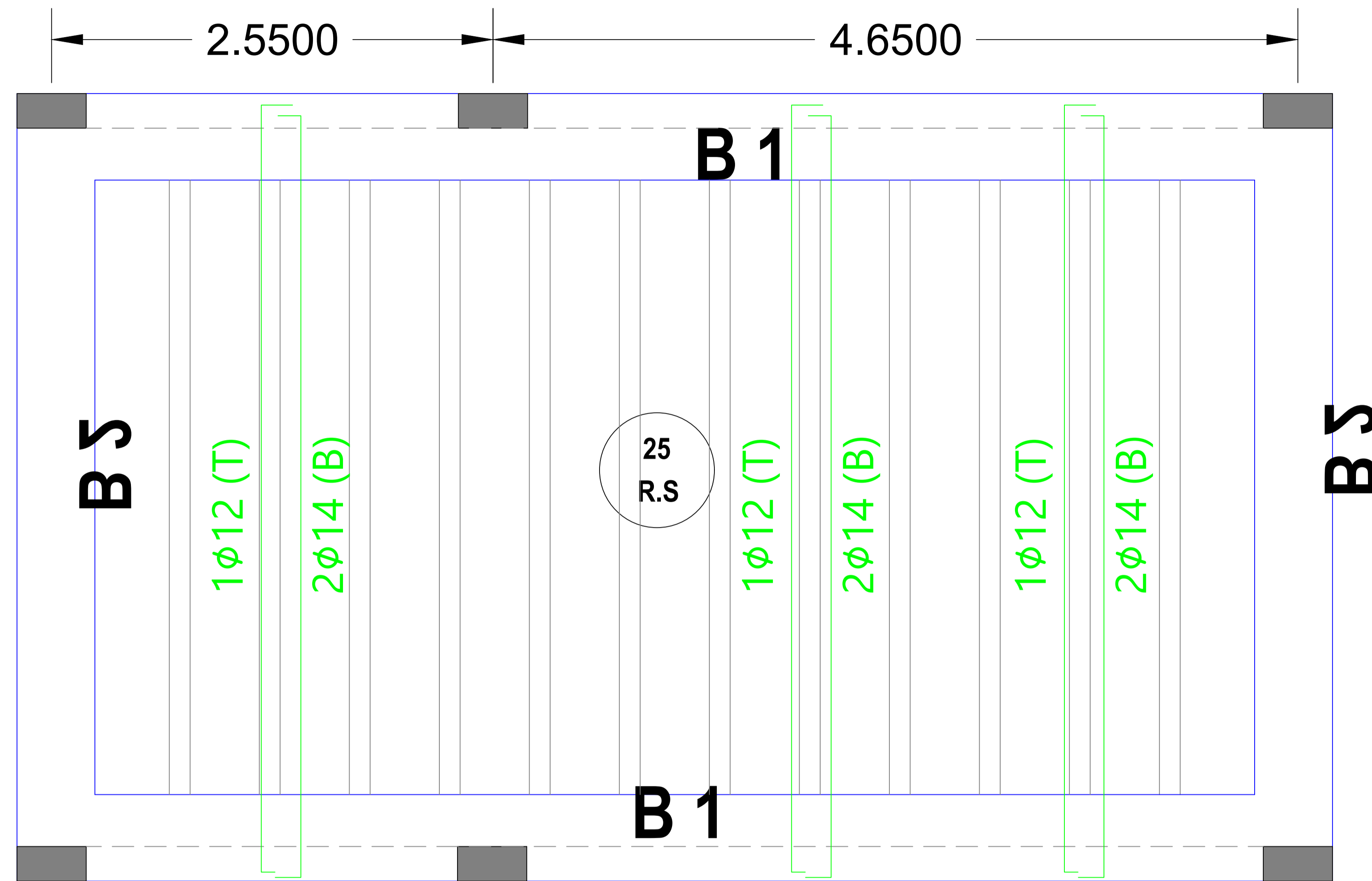
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IN (m)

Plan





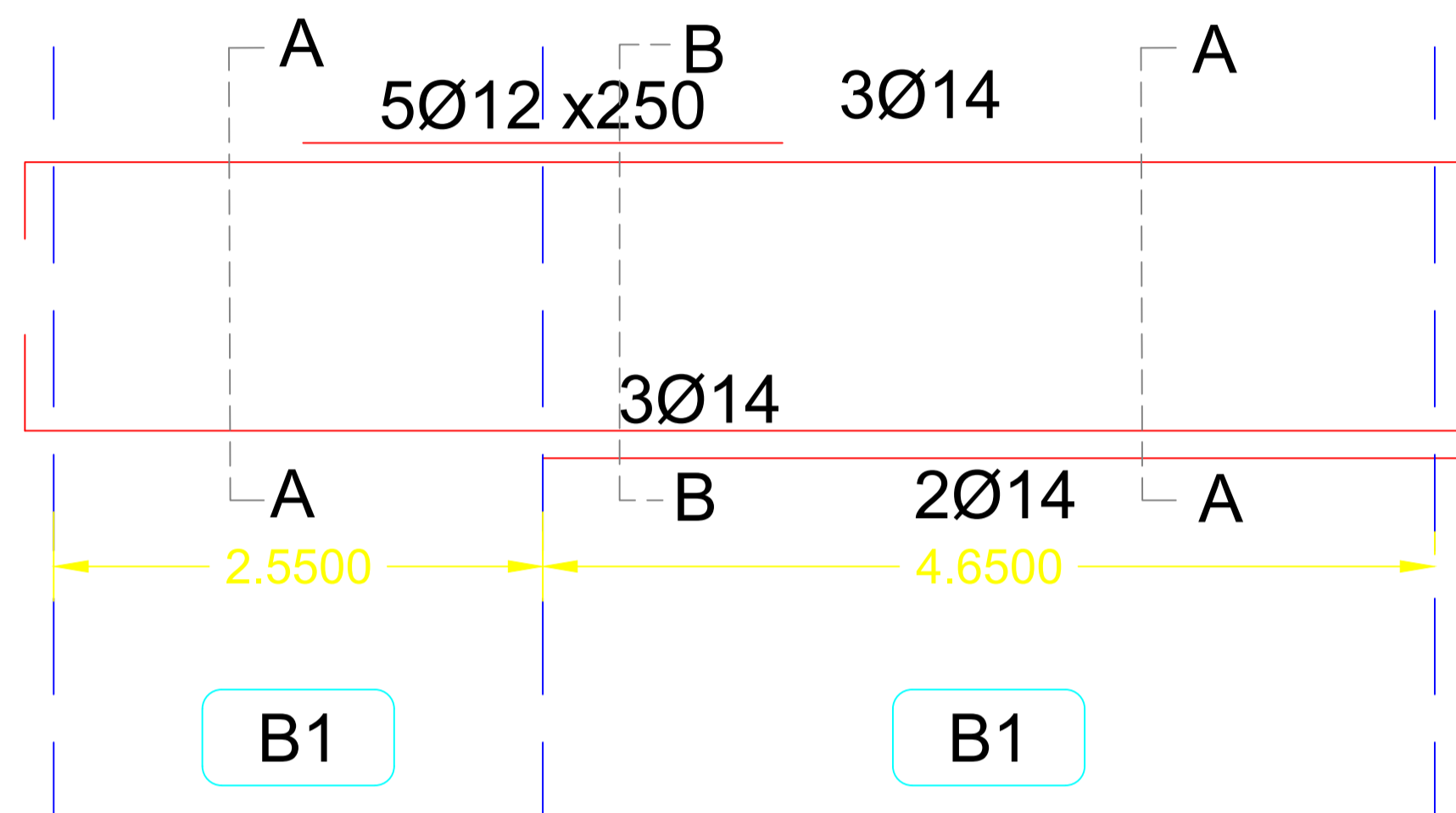
SEC. IN SLAB



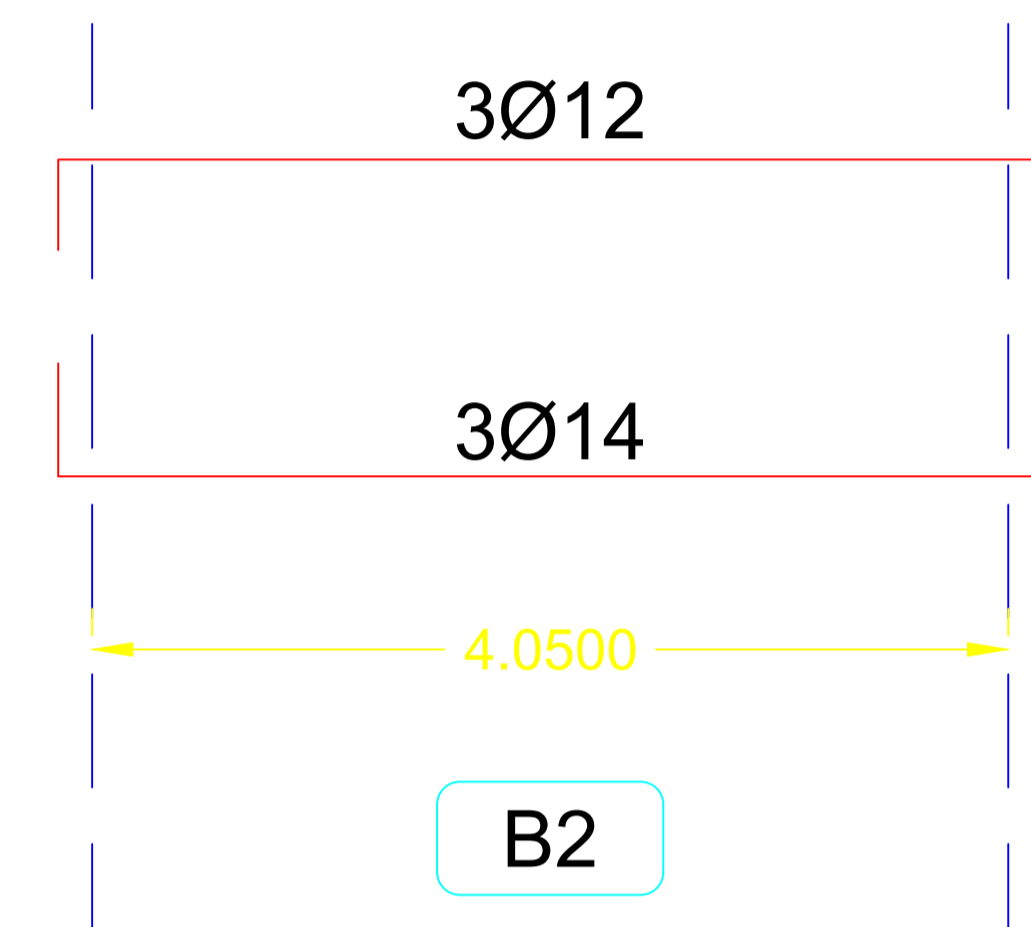
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S-06

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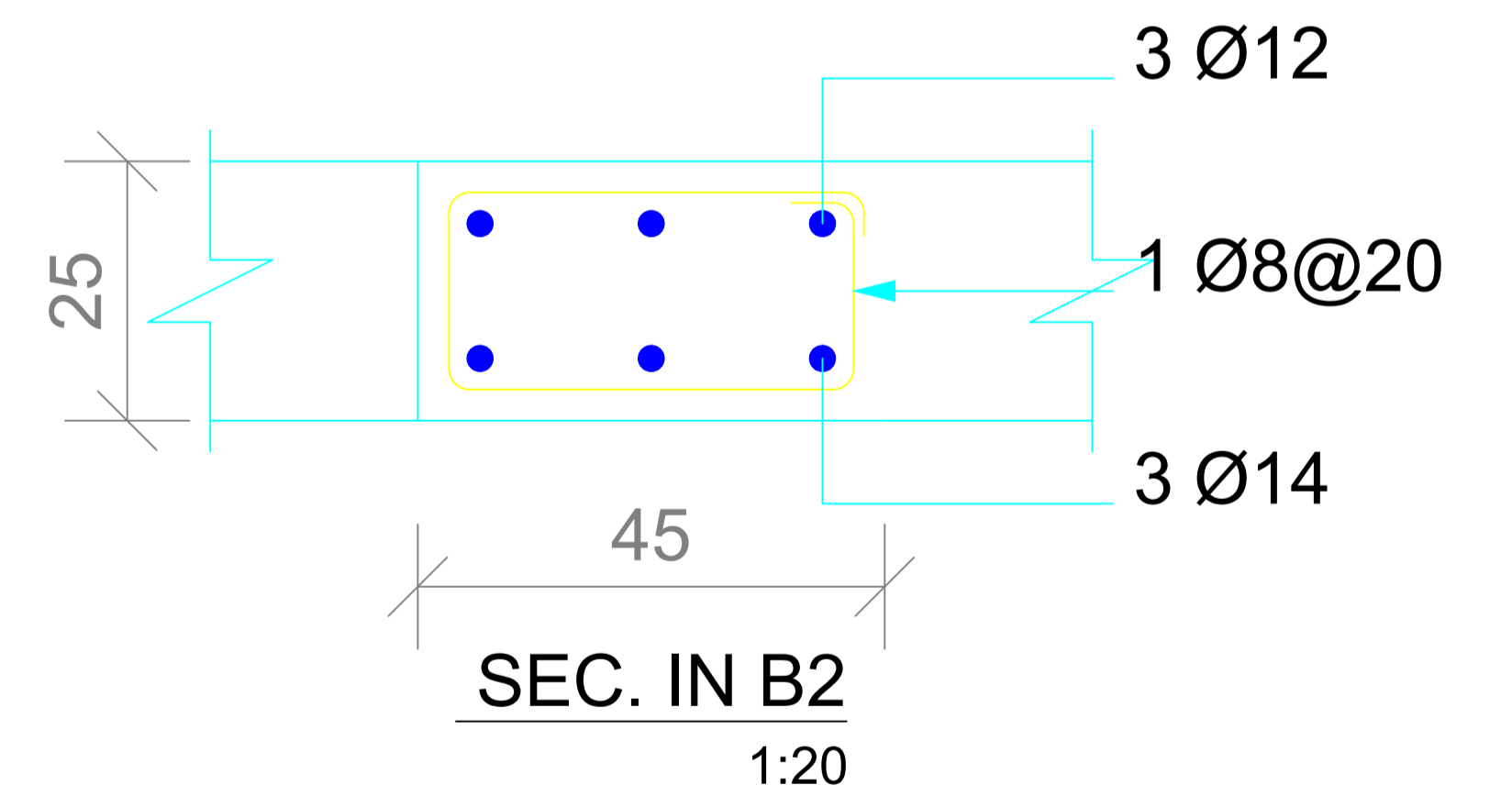
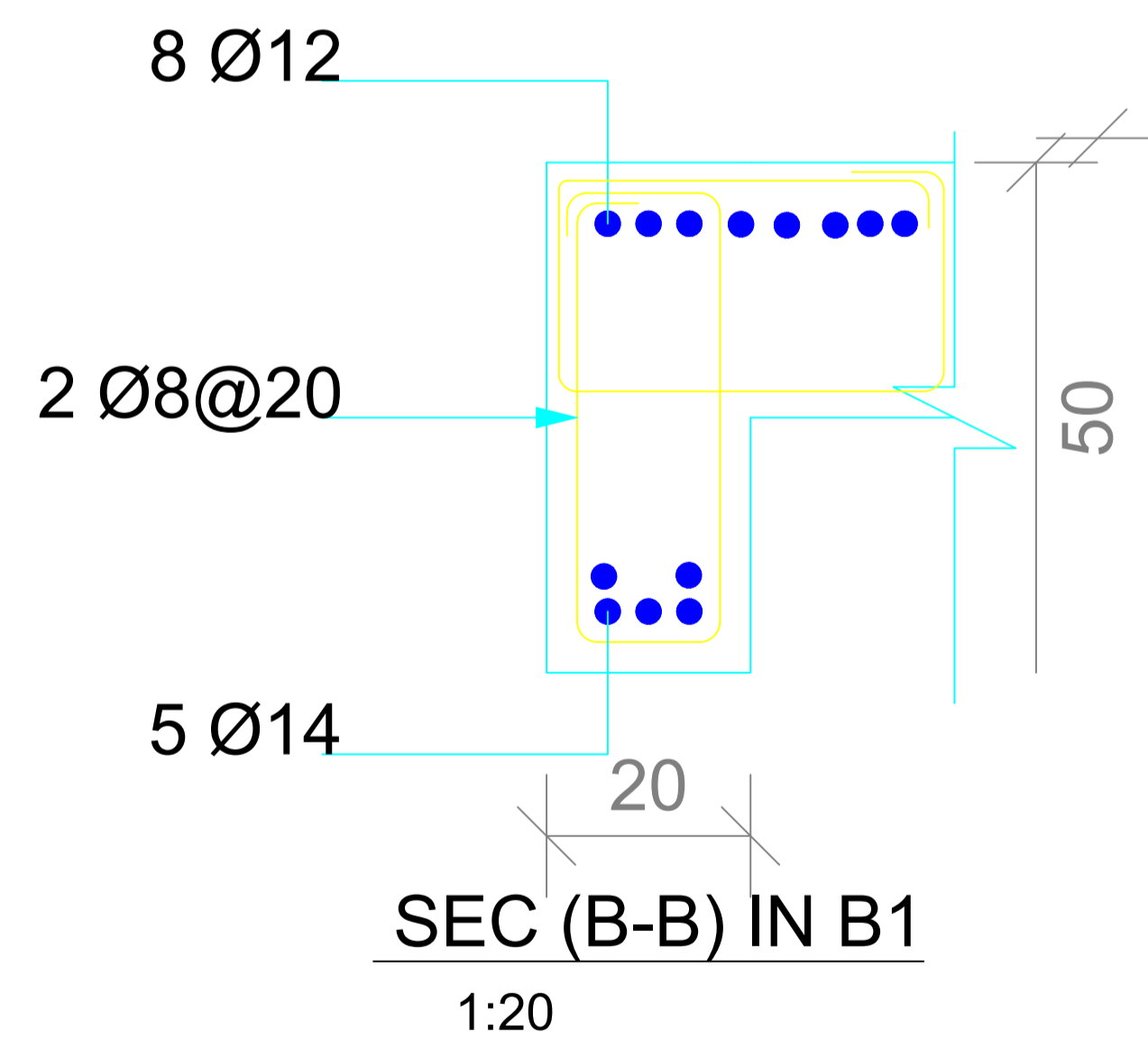
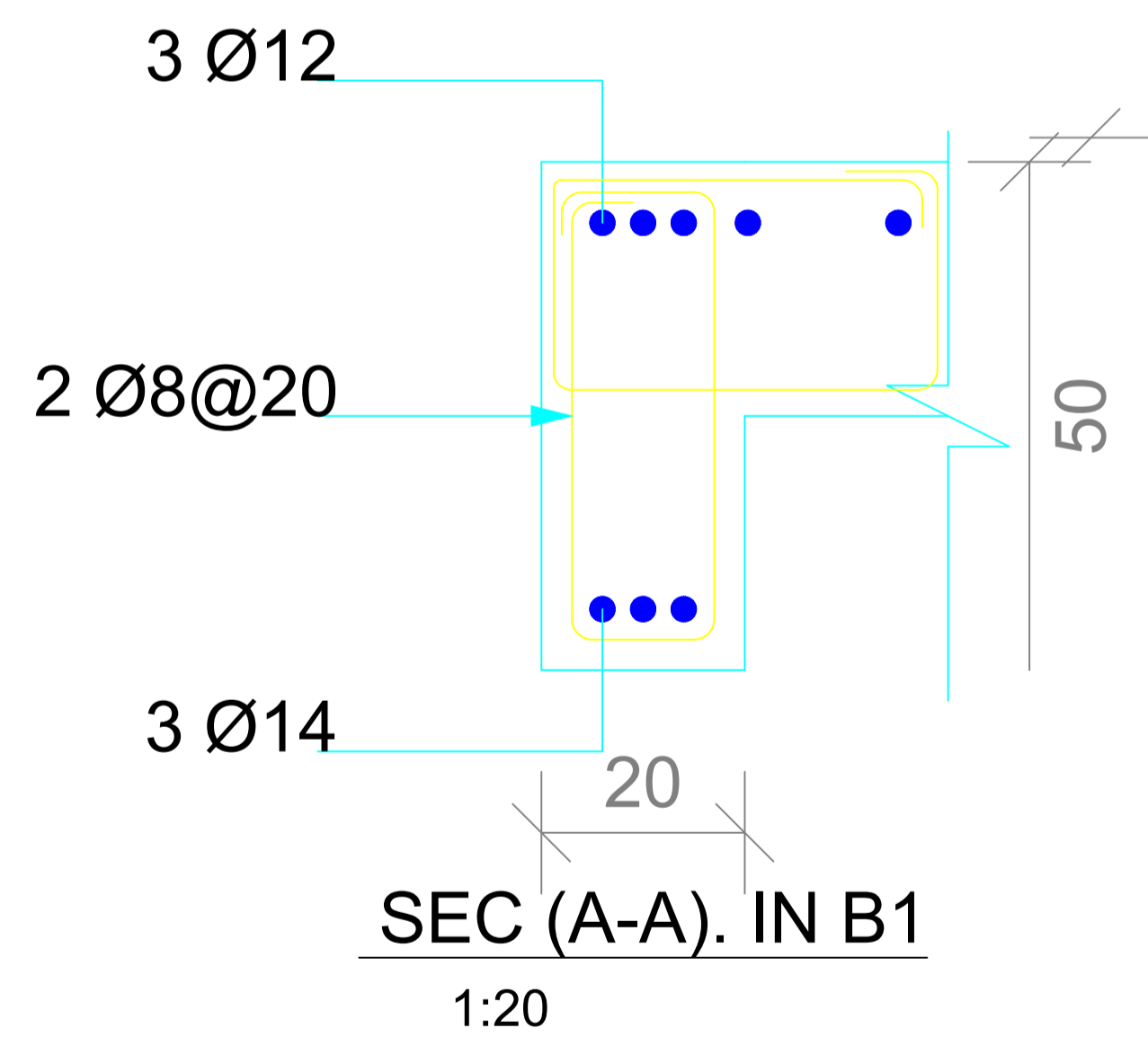
Plan



LONG. SECTION IN BEAM (B1,B1) 1:100



LONG. SECTION IN BEAM (B2) 1:100



GENERAL STRUCTURAL NOTES

GENERAL:

- 1- ALL DIMENSIONS ARE WRITTEN IN CENTIMETERS UNLESS IT IS INDICATED OTHERWISE. LEVELS ARE IN METERS. ALL REINFORCING STEEL BARS DIAMETERS ARE SHOWN IN MILLIMETERS
- 2- DIMENSIONS SHALL NOT BE SCALED FROM DRAWINGS, THEY SHALL BE READ OR COMPUTED, CONSULT THE DESIGNER OTHERWISE
- 3- EVERY DRAWING SHALL BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECTURAL, MECHANICAL & ELECTRICAL DRAWINGS IN ADDITION TO ALL STRUCTURAL DRAWINGS OF THE SAME PART
- 4- CODES OF DESIGN:
STRUCTURAL DESIGN AND DETAILING WAS CARRIED ON IN ACCORDANCE WITH THE FOLLOWING JORDANIAN CODES:
1-CODE OF LOADS & FORCES
2-CODE OF STRUCTURAL CONCRETE
- 5- ALL CONSTRUCTION MATERIALS TO WHICH REFERENCE IS MADE IN THE DRAWINGS, SHALL CONFIRM TO THE MINISTRY OF PUBLIC WORKS & HOUSING CIVIL & ELECTROMECHANICAL SPECIFICATIONS/1996

MATERIAL PROPERTIES:

<u>CONCRETE</u>	<u>CHARACTERISTIC CUBE STRENGTH@28 DAYS</u>
BLINDING CONCRETE	15N/mm ²
SLAB ON GRADE	20N/mm ²
FOUNDATION	25N/mm ²
WALLS	25N/mm ²
COLUMNS	25N/mm ²
SLABS & BEAMS	25N/mm ²

<u>REINFORCEMENT STEEL</u>	<u>YIELD STRESS</u>
DEFORMED HIGH STEEL BARS	fy=420N/mm ²
MILD DEFORMED STEEL BARS (FOR Ø8 STIRRUPS ONLY)	fy=280N/mm ²
ALL LAP SPLICES ARE TO BE STAGGERED MINIMUM BARS LAP LENGTH=50*BAR DIAMETER	

NOMINAL CONCRETE COVER TO REINFORCEMENT:

FOOTING	50 mm
COLUMN	30 mm
SLABS & BEAMS	25 mm
WALLS	25 mm

FOUNDATION:

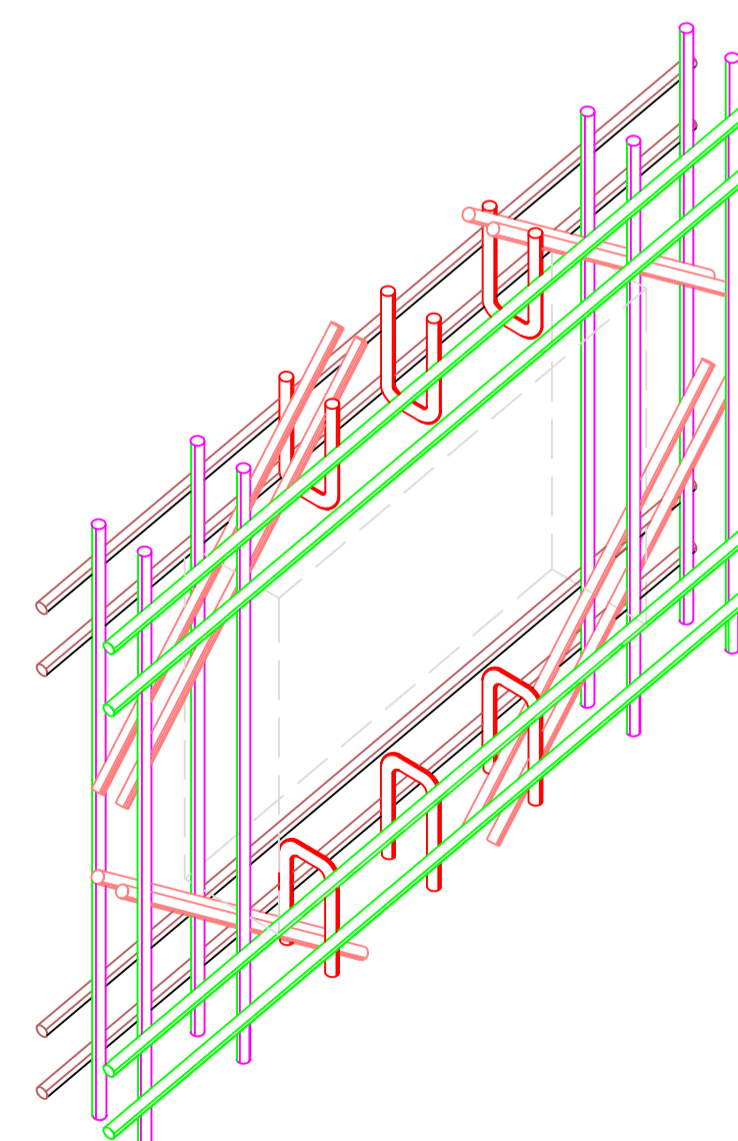
- REFER TO THE SITE INVESTIGATION REPORT.
- THE ALLOWABLE SOIL BEARING CAPACITY =2.5 Kg/cm²
- MINIMUM FOOTINGS DEPTH SHOULD BE 1.00m BELOW SURROUNDING NATURAL GROUND LEVEL.
- THE FOUNDATION DEPTH SHOULD BE CHECKED AND APPROVED BY THE GEOTECHNICAL OFFICE BEFORE CONCRETING.

NO. OF FLOORS

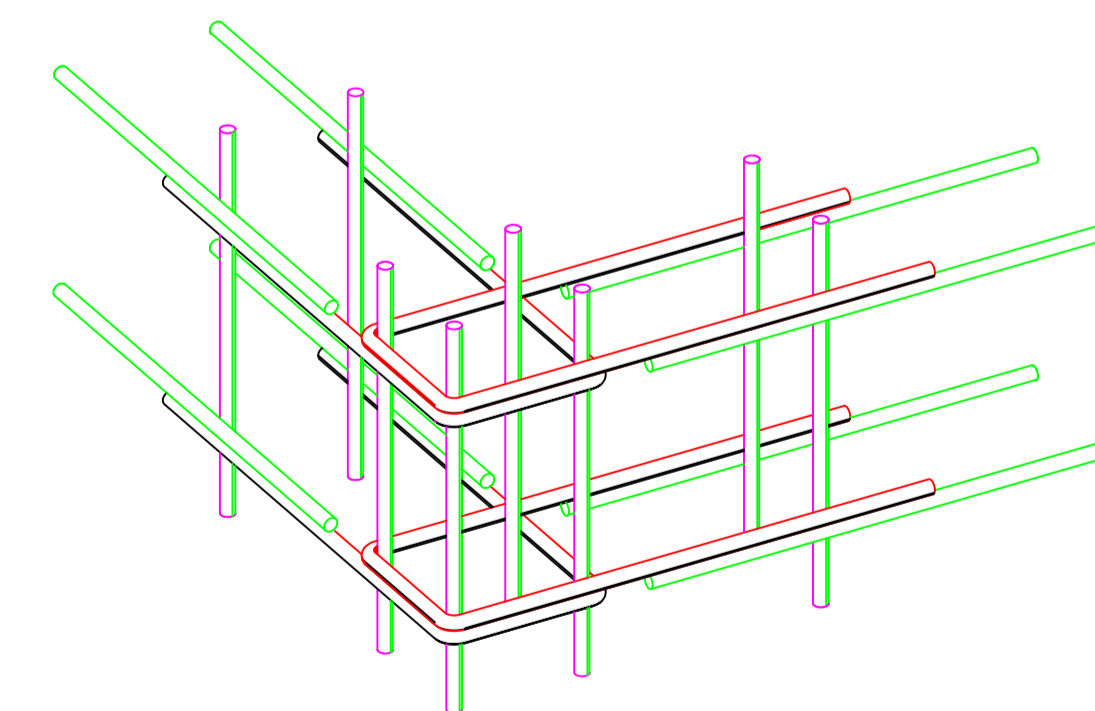
- COLUMNS & FOOTINGS ARE DESIGNED TO HOLD TWO FLOORS ONLY, (ONE FUTURE EXTENSION).

LEGEND:


ADD	ADDITIONAL
B	BOTTOM
B.O.	BOTTOM OF
C	COLUMN
CL	CONCRETE LEVEL
CLR	CLEAR
db	BAR DIAMETER IN mm
DWLS	DOWELS
E.F	EACH FACE
E.W	EACH WAY
B.W	BOTH WAYS
F	FOOTING
G.B	GROUND BEAM
MAX.	MAXIMUM
MIN.	MINIMUM
N.T.S	NOT TO SCALE
I.S	INTERMEDIATE SUPPORT I.S SHOULD BE PLACED ON NATURAL UNDISTURBED SOIL
T	TOP
T&B	TOP & BOTTOM
T.O	TOP OF
TSS	TOP STRUCTURAL SLAB
TYP.	TYPICAL
U.N.O	UNLESS NOTED OTHERWISE
C.W	COMMON WITH
REINF.	REINFORCEMENT
VERT.	VERTICAL
HORZ.	HORIZONTAL
ARCH.	ARCHITECTURAL
STRUC.	STRUCTURAL
DRWGS.	DRAWINGS
CONST.	CONSTANT
c/c	CENTER TO CENTER OF BARS



FOR ALL WALL OPENINGS
Fix diagonal 2Ø14x200 bars in both faces, at each corner.



FOR ALL WALLS , WALL BEAMS AND DEEP BEAMS
Use U Bars for ends and corners



Petra
Petra Development & Tourism Region Authority
سلطة اقليم البترا التنموي السياحي

DRAWING TITLE:

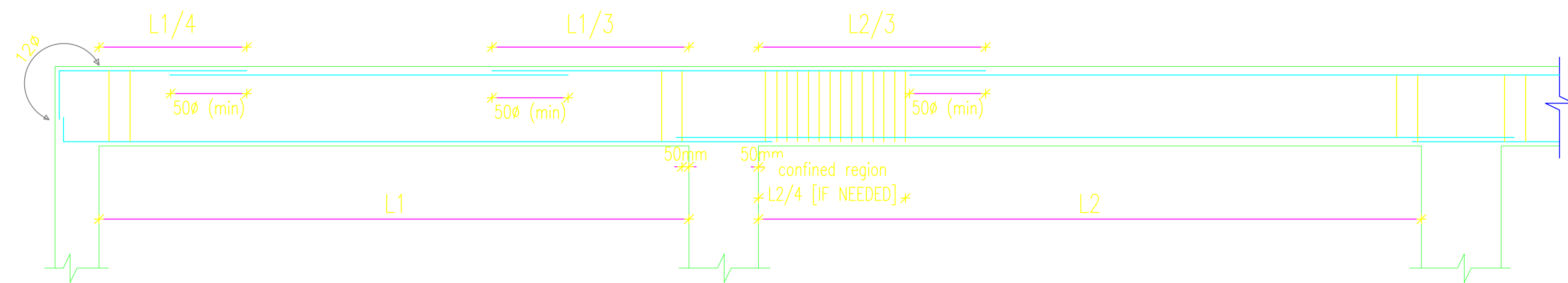
GENERAL STRUCTURAL NOTES

<i>SCALE:</i>	<i>Dimensions Are:</i>	<i>DESIGNED BY</i>
N.T.S	IN (m)	TEAM

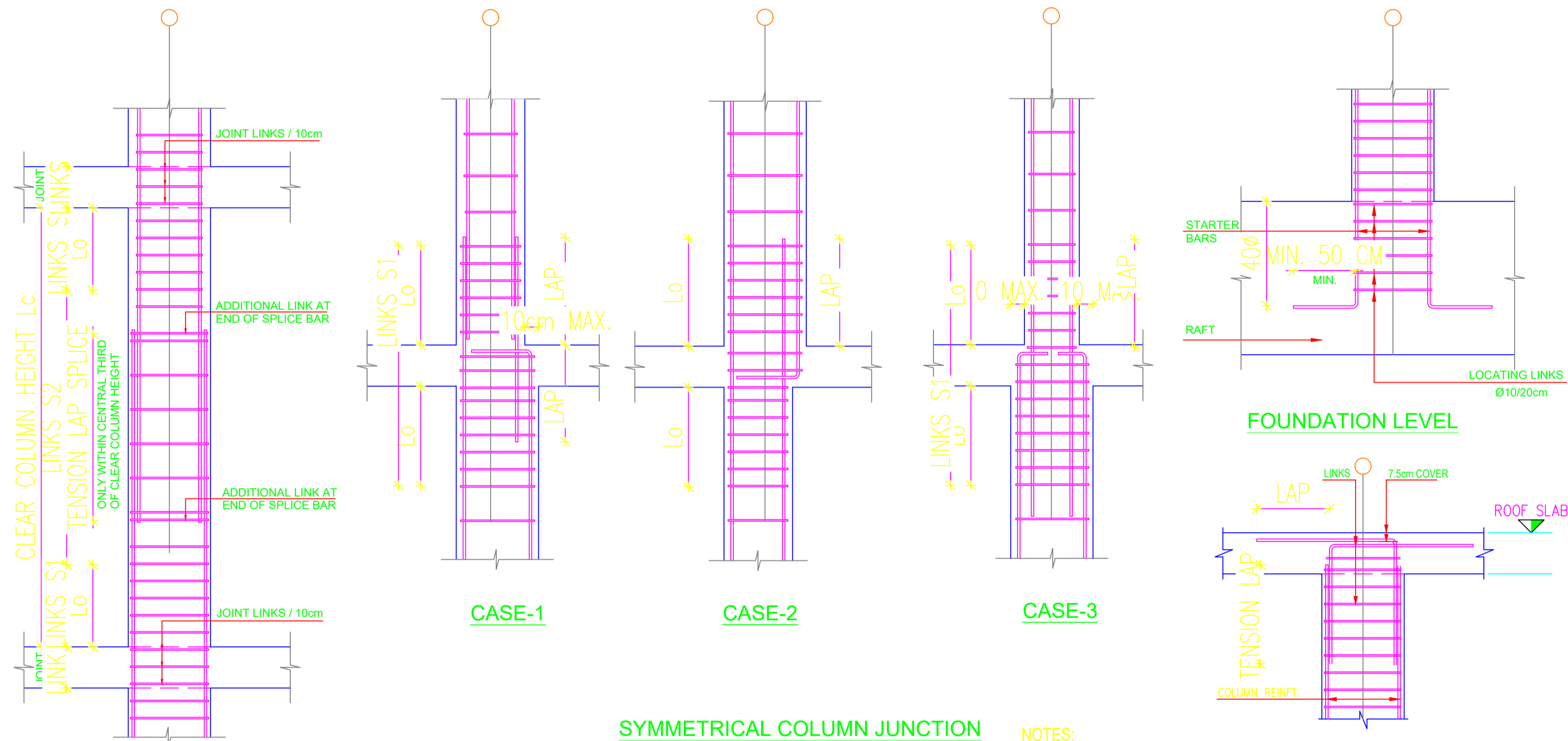
DRAWING NO.

S-01

Eng . Rashed Al- Nawaflah



TYPICAL DETAIL FOR MULTI SPAN BEAM REINFORCEMENT



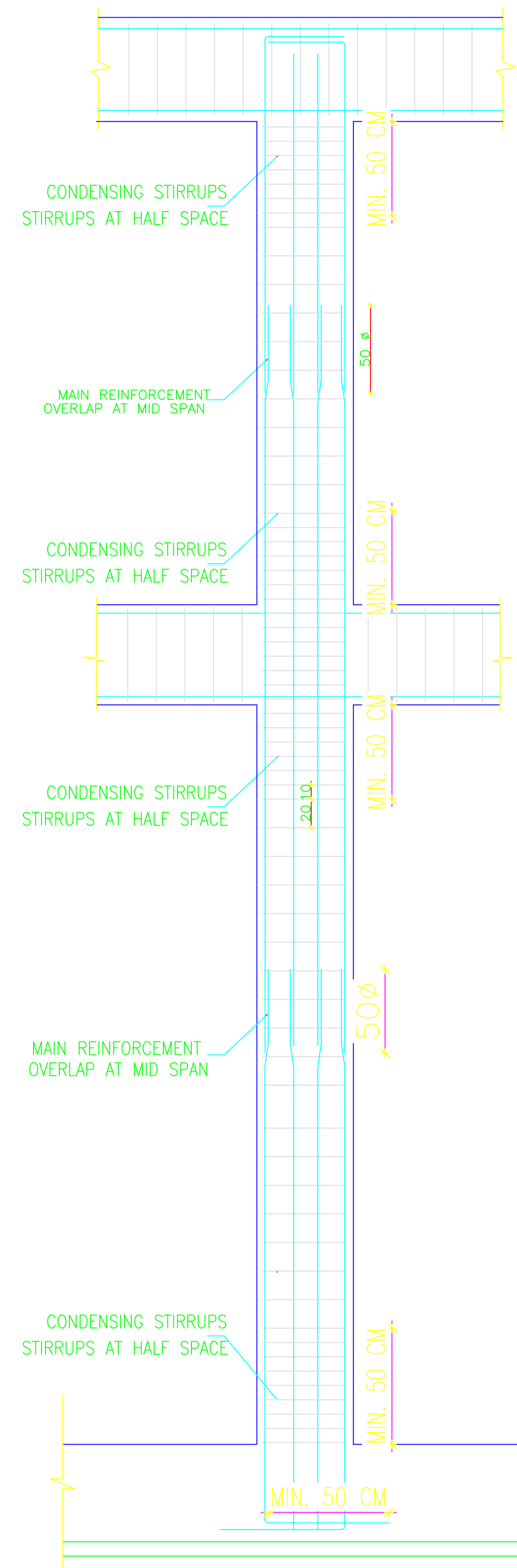
SYMMETRICAL COLUMN JUNCTION

TYPICAL COLUMN DETAILS

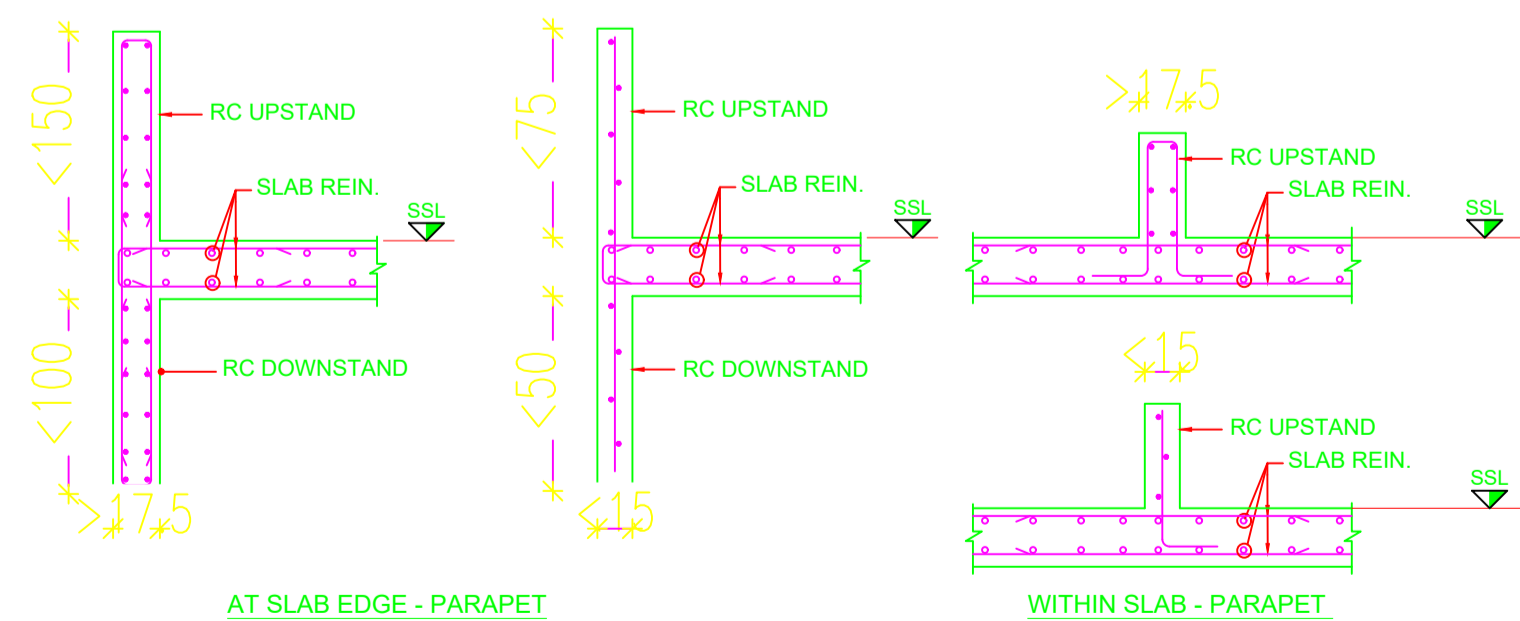
NOTES:

1. FOR DETAILS OF BARS REFER TO COLUMN SCHEDULES
2. MINIMUM MAIN BAR DIAMETER = 14mm.
3. Lo = LARGEST OF 1) h
2) 0.2Lc
3) 50cm
4. S1=10cm, S2=20cm

WHERE h IS THE LARGER COLUMN PLAN DIMENSION

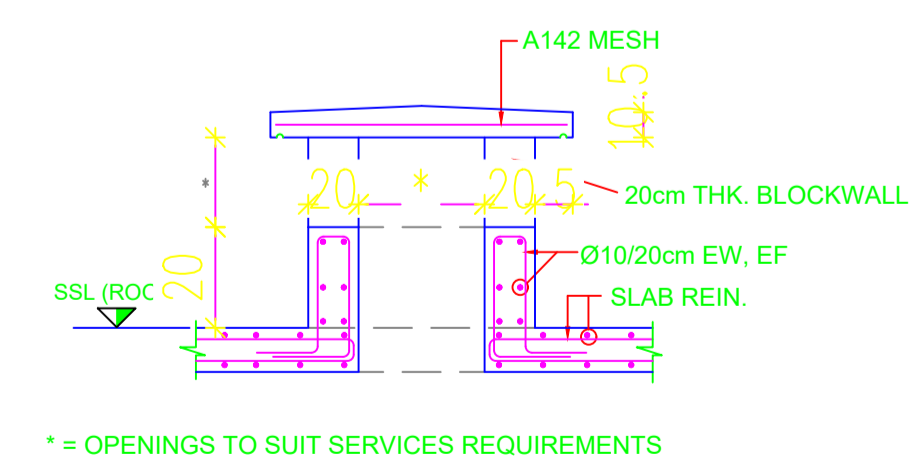


LONG SECTION IN COLUMN



TYPICAL UPSTAND DOWNSTAND DETAILS

SCHEDULE OF UPSTAND/DOWNSTAND REINFORCEMENT	
WIDTH	REINFORCEMENT
$\leq 15\text{cm}$	Ø10/20cm VERTICAL ONE LAYER Ø8/15cm HORIZONTAL (PLACED CENTRALLY)
> 17.5cm	Ø10/15cm VERTICAL E.F. Ø10/15cm HORIZONTAL E.F.



TYPICAL COVERED ROOF PENETRATION FOR MEP SERVICES

* = OPENINGS TO SUIT SERVICES REQUIREMENTS



Petra Development & Tourism Region Authority

سلطة اقليم البترا للتنمى السياحى

DRAWING TITLE:

GENERAL STRUCTURAL DETAILS

SCALE: Dimensions Are: DESIGNED BY

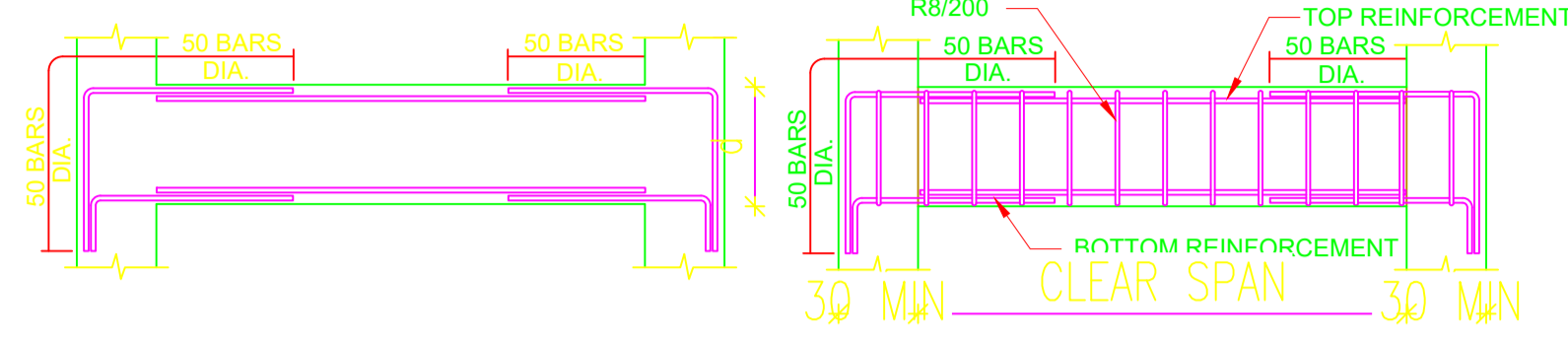
N.T.S IN (m) TEAM

DRAWING NO.

S-02

Eng . Rashed Al- Nawafleh

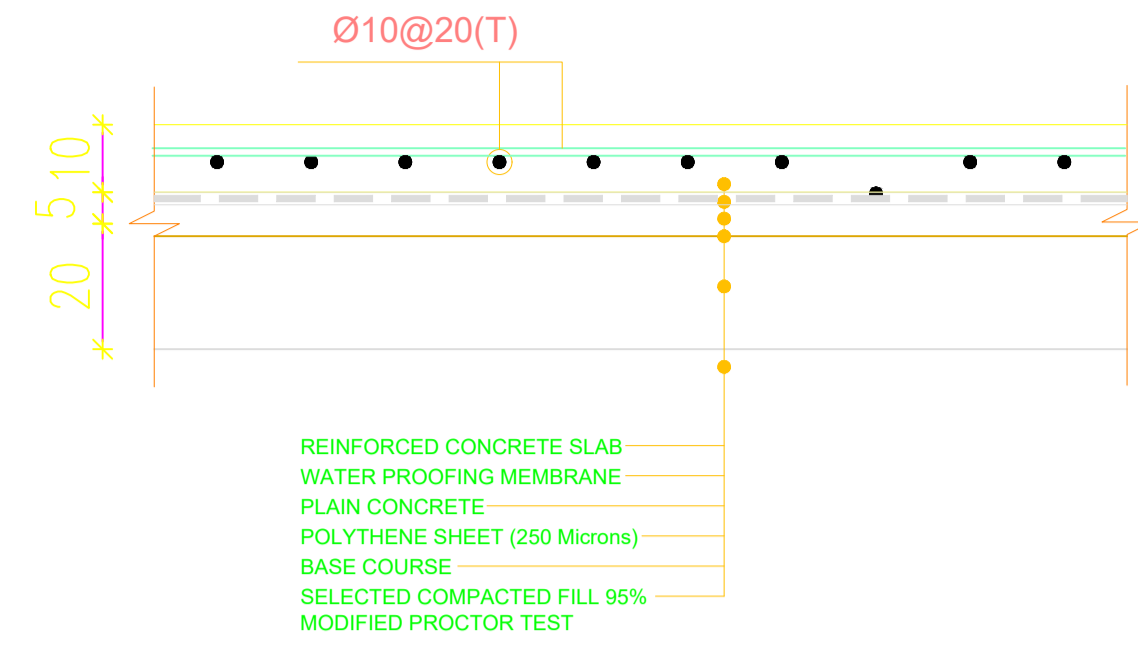
FOR ALL SILLS AND LENTILS BETWEEN COLUMNS AND NOT SUPPORTED BY A WALL, PROVIDE DOWELS IN THE COLUMN OF SAME SIZE AND NUMBER AS THE REINFORCEMENT OF THE LENTIL OR SILL. THESE DOWELS SHALL EXTEND 50 TIMES BAR DIAMETER FROM THE FACE OF THE COLUMN AND SHALL BE EMBEDDED 50 TIMES BAR DIAMETER IN THE COLUMN.



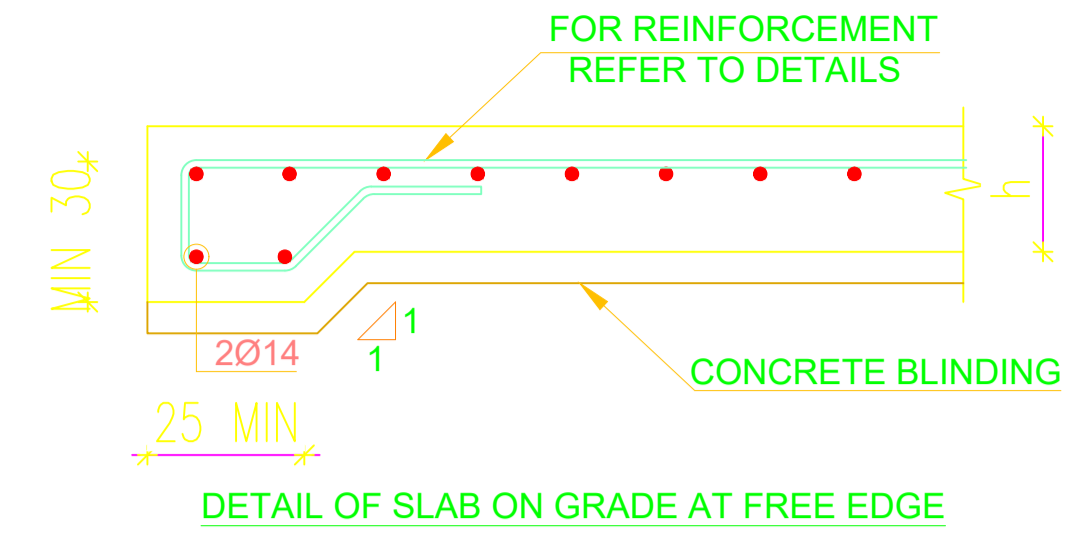
SCHEDULE OF LINTELS REINFORCEMENT									
CLEAR SPAN (cm)	b=10cm		b=15cm		b=20cm or 25cm		b=40cm		DEPTH= d (cm)
	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	
< 200	1Ø10	1Ø14	2Ø10	2Ø12	2Ø10	2Ø12	4Ø10	4Ø12	20
200-300	1Ø10	1Ø16	2Ø10	2Ø14	2Ø10	2Ø16	4Ø10	4Ø16	25
301-400	1Ø10	1Ø20	2Ø10	2Ø16	2Ø10	2Ø18	4Ø12	4Ø18	30
401-500	1Ø10	1Ø20	2Ø10	2Ø16	2Ø10	2Ø18	4Ø12	4Ø20	40
501-600	1Ø10	1Ø20	2Ø10	2Ø16	2Ø10	2Ø18	4Ø12	4Ø20	50
601-700	1Ø12	1Ø25	2Ø12	4Ø20 in 2 layers	2Ø12	2Ø25	4Ø12	4Ø25	60

OR: PROVIDE CATNIC TYPE STEEL LINTELS OF DEPTH AND THICKNESS APPROPRIATE TO SPAN AND LOAD CARRIED.

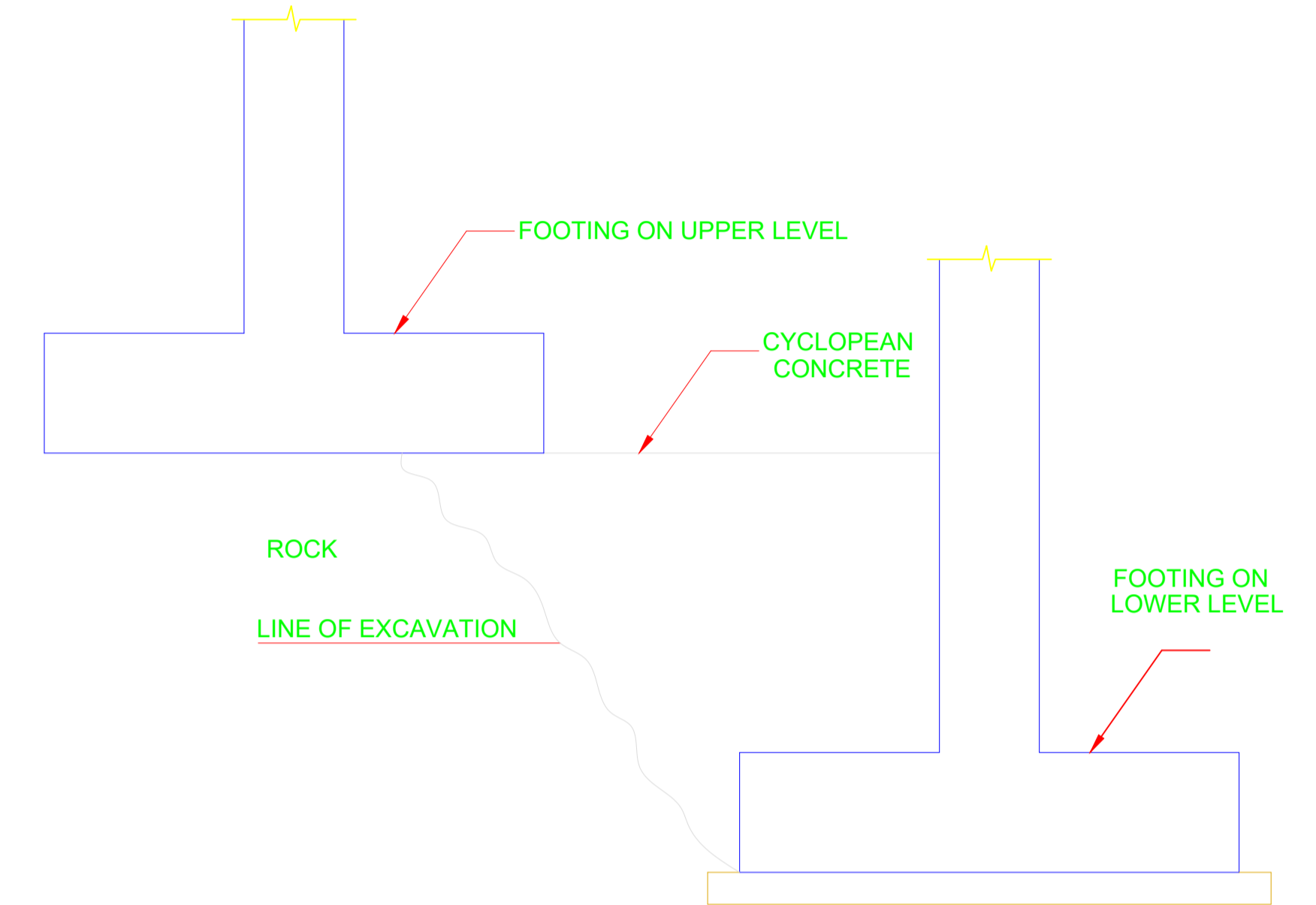
TYPICAL LINTEL DETAILS



TYPICAL SECTION THROUGH 100mm SLAB ON GRADE(indoor)

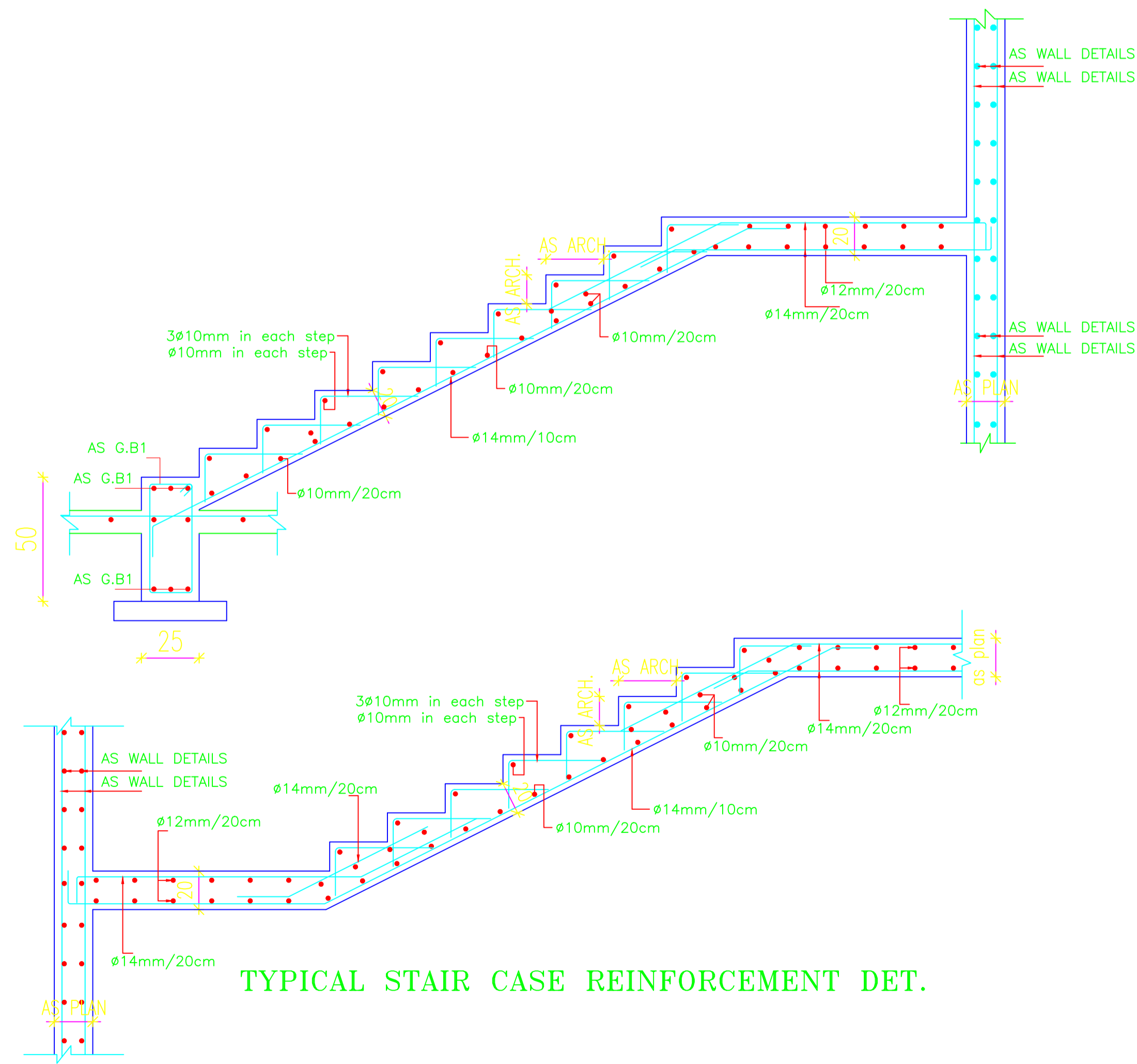


DETAIL OF SLAB ON GRADE AT FREE EDGE

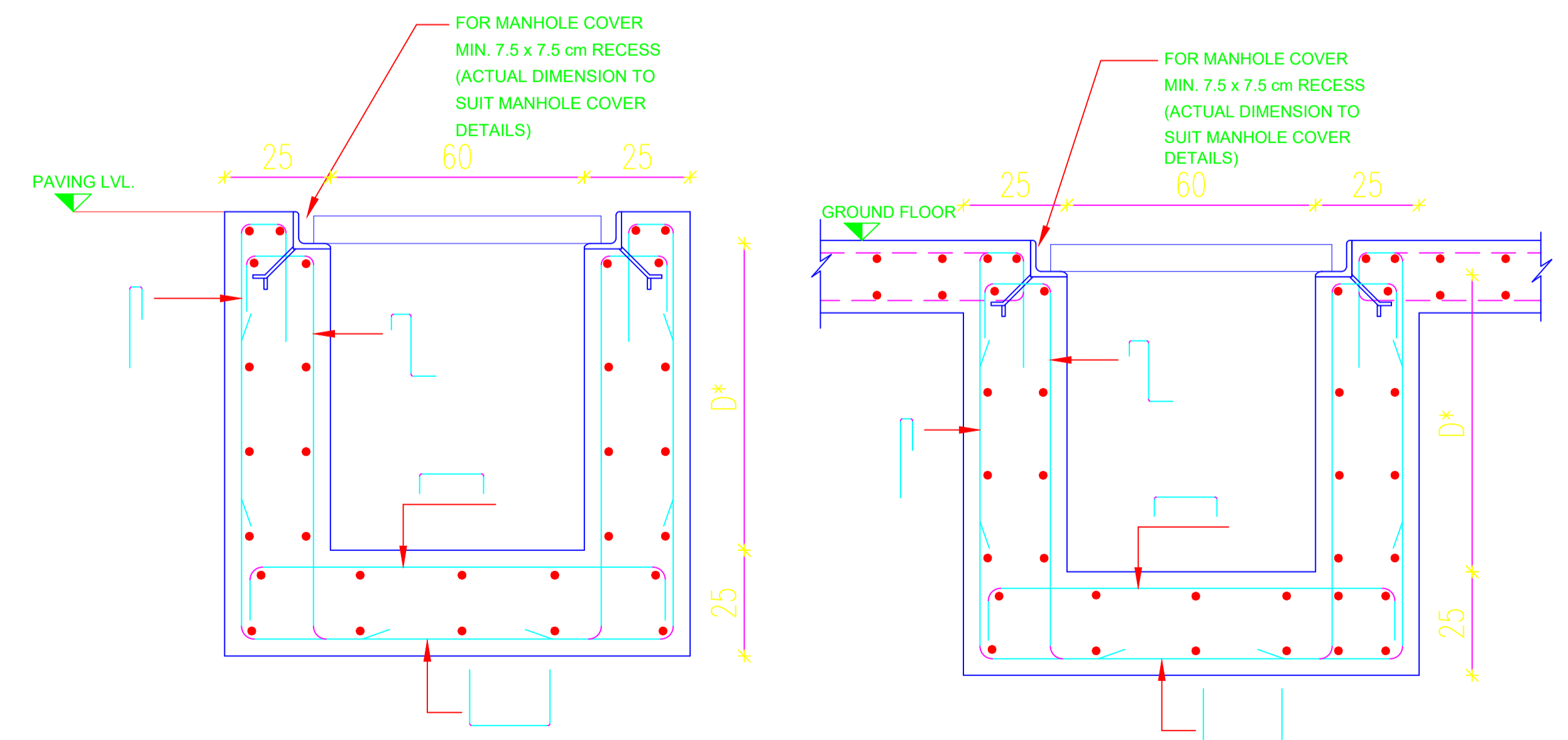


FOUNDATION SPLIT LEVEL TYPICAL DETAIL

SCALE: 1/20



TYPICAL STAIR CASE REINFORCEMENT DET.



ALL REINFORCEMENTS ARE Ø10-20cm (FOR MAX. DEPTH 100)
* DEPTH AS PER DRAINAGE LAYOUT DWG.

TYPICAL MANHOLE DETAIL

ALL REINFORCEMENTS ARE Ø10-20cm (FOR MAX. DEPTH 100)
* DEPTH AS PER DRAINAGE LAYOUT DWG.

TYPICAL MANHOLE DETAIL



DRAWING TITLE:

GENERAL STRUCTURAL DETAILS

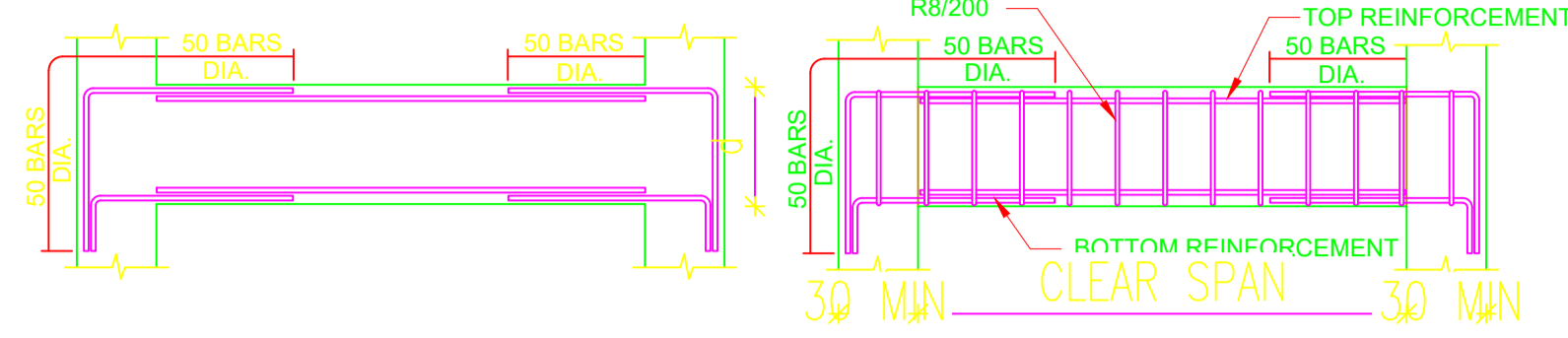
SCALE:	Dimensions Are:	DESIGNED BY
N.T.S	IN (m)	TEAM

DRAWING NO.

S-03

Eng . Rashed Al- Nawafleh

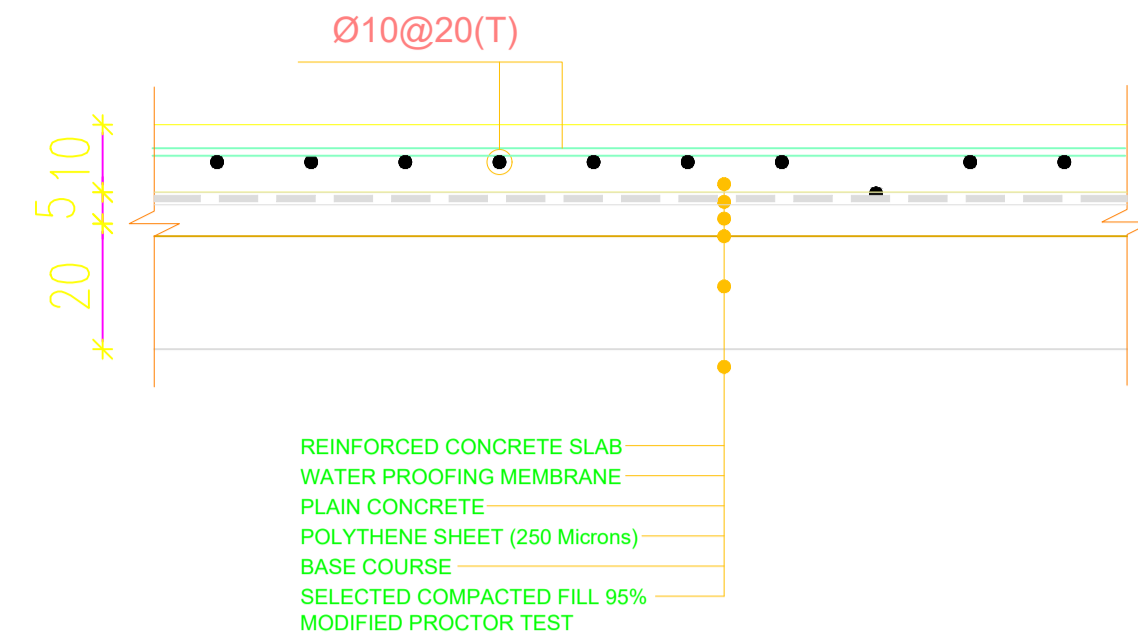
FOR ALL SILLS AND LENTILS BETWEEN COLUMNS AND NOT SUPPORTED BY A WALL, PROVIDE DOWELS IN THE COLUMN OF SAME SIZE AND NUMBER AS THE REINFORCEMENT OF THE LENTIL OR SILL. THESE DOWELS SHALL EXTEND 50 TIMES BAR DIAMETER FROM THE FACE OF THE COLUMN AND SHALL BE EMBEDDED 50 TIMES BAR DIAMETER IN THE COLUMN.



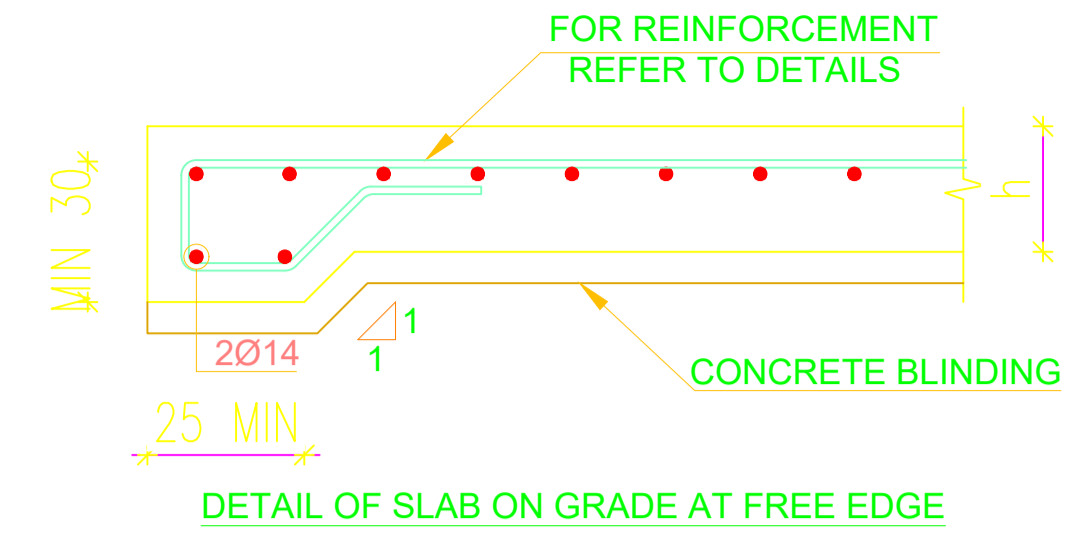
SCHEDULE OF LINTELS REINFORCEMENT									
CLEAR SPAN (cm)	b=10cm		b=15cm		b=20cm or 25cm		b=40cm		DEPTH= d (cm)
	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	TOP REINF.	BOTTOM REINF.	
< 200	1Ø10	1Ø14	2Ø10	2Ø12	2Ø10	2Ø12	4Ø10	4Ø12	20
200-300	1Ø10	1Ø16	2Ø10	2Ø14	2Ø10	2Ø16	4Ø10	4Ø16	25
301-400	1Ø10	1Ø20	2Ø10	2Ø16	2Ø10	2Ø18	4Ø12	4Ø18	30
401-500	1Ø10	1Ø20	2Ø10	2Ø16	2Ø10	2Ø18	4Ø12	4Ø20	40
501-600	1Ø10	1Ø20	2Ø10	2Ø16	2Ø10	2Ø18	4Ø12	4Ø20	50
601-700	1Ø12	1Ø25	2Ø12	4Ø20 in 2 layers	2Ø12	2Ø25	4Ø12	4Ø25	60

OR: PROVIDE CATNIC TYPE STEEL LINTELS OF DEPTH AND THICKNESS APPROPRIATE TO SPAN AND LOAD CARRIED.

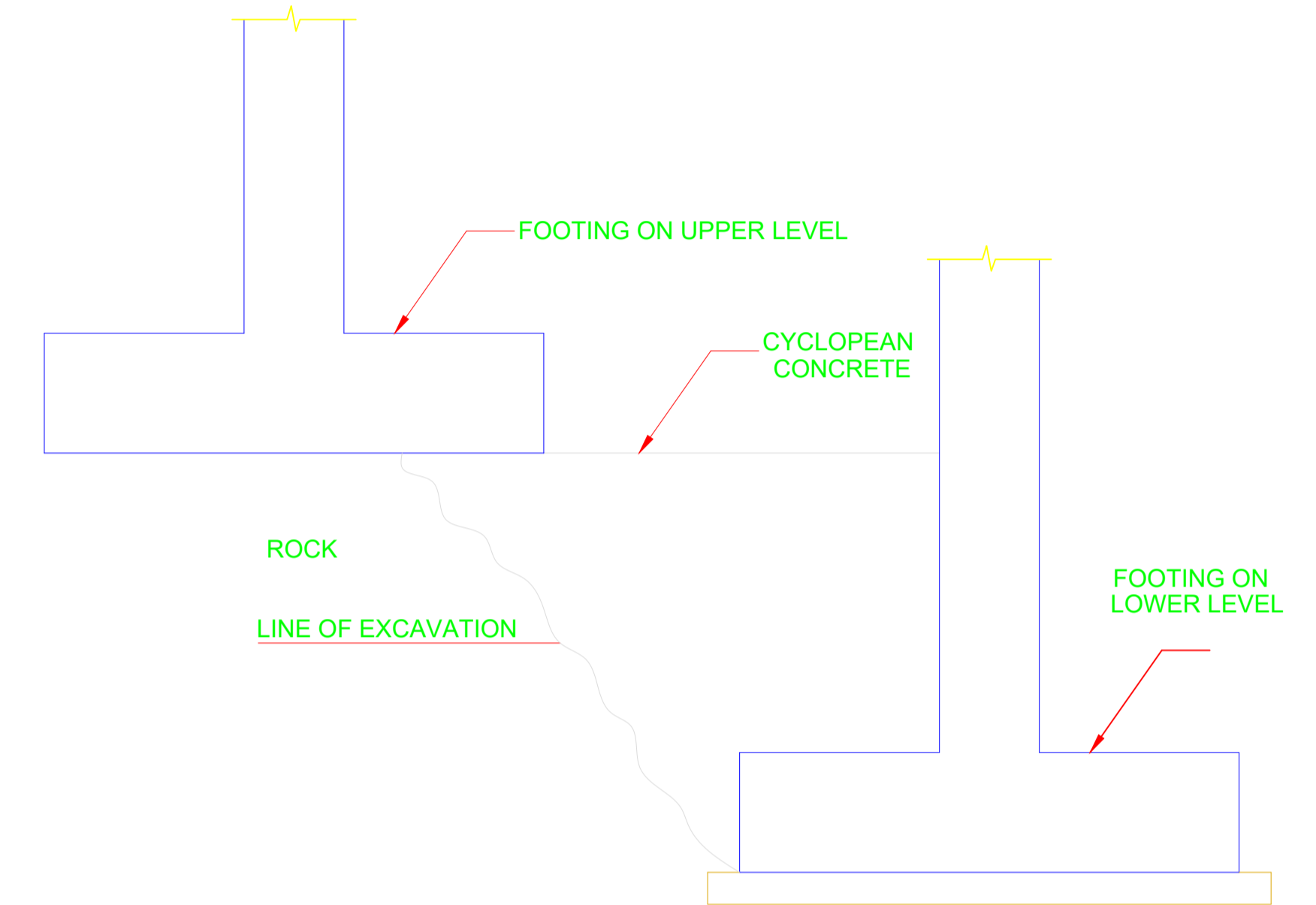
TYPICAL LINTEL DETAILS



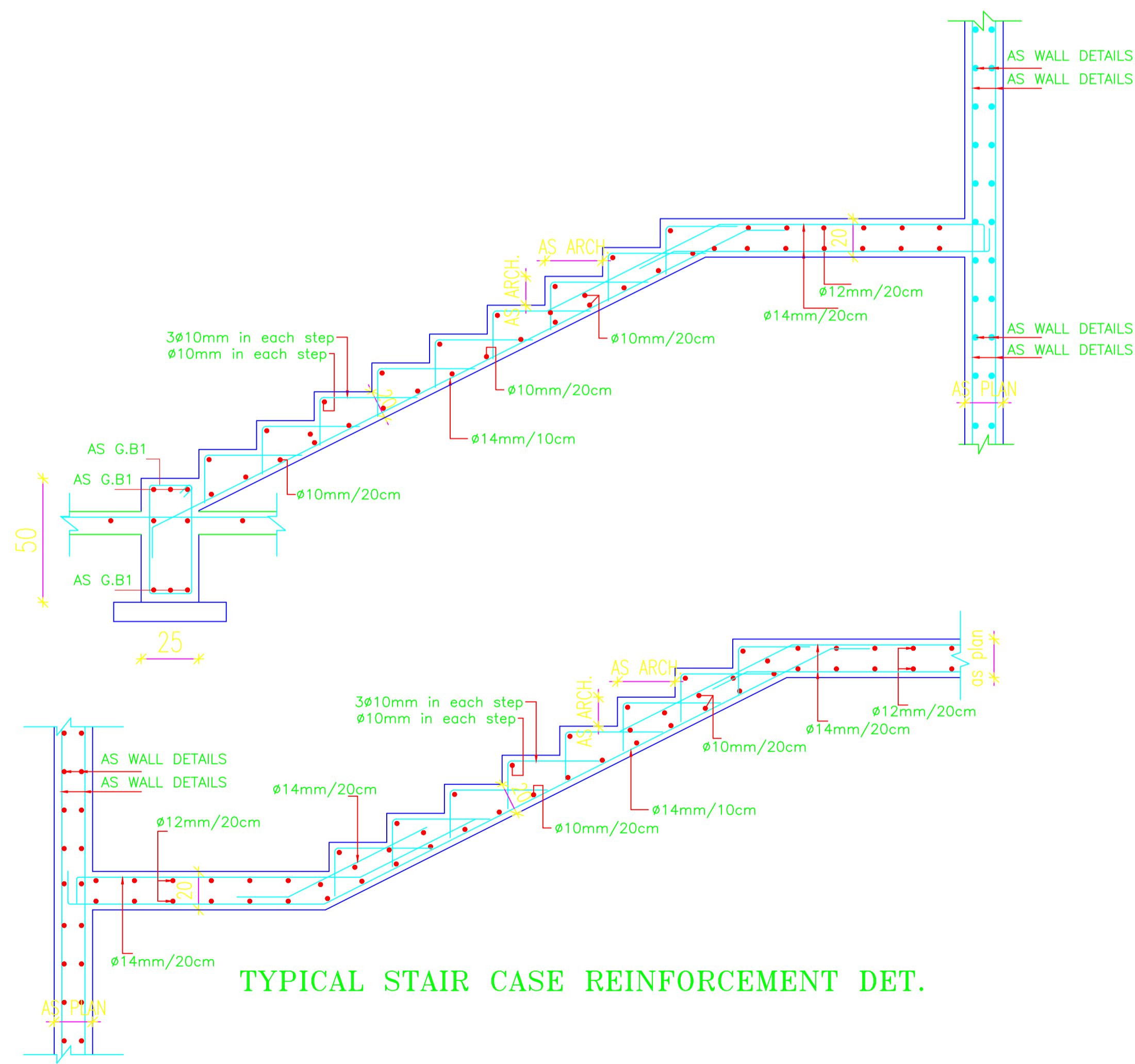
TYPICAL SECTION THROUGH 100mm SLAB ON GRADE(indoor)



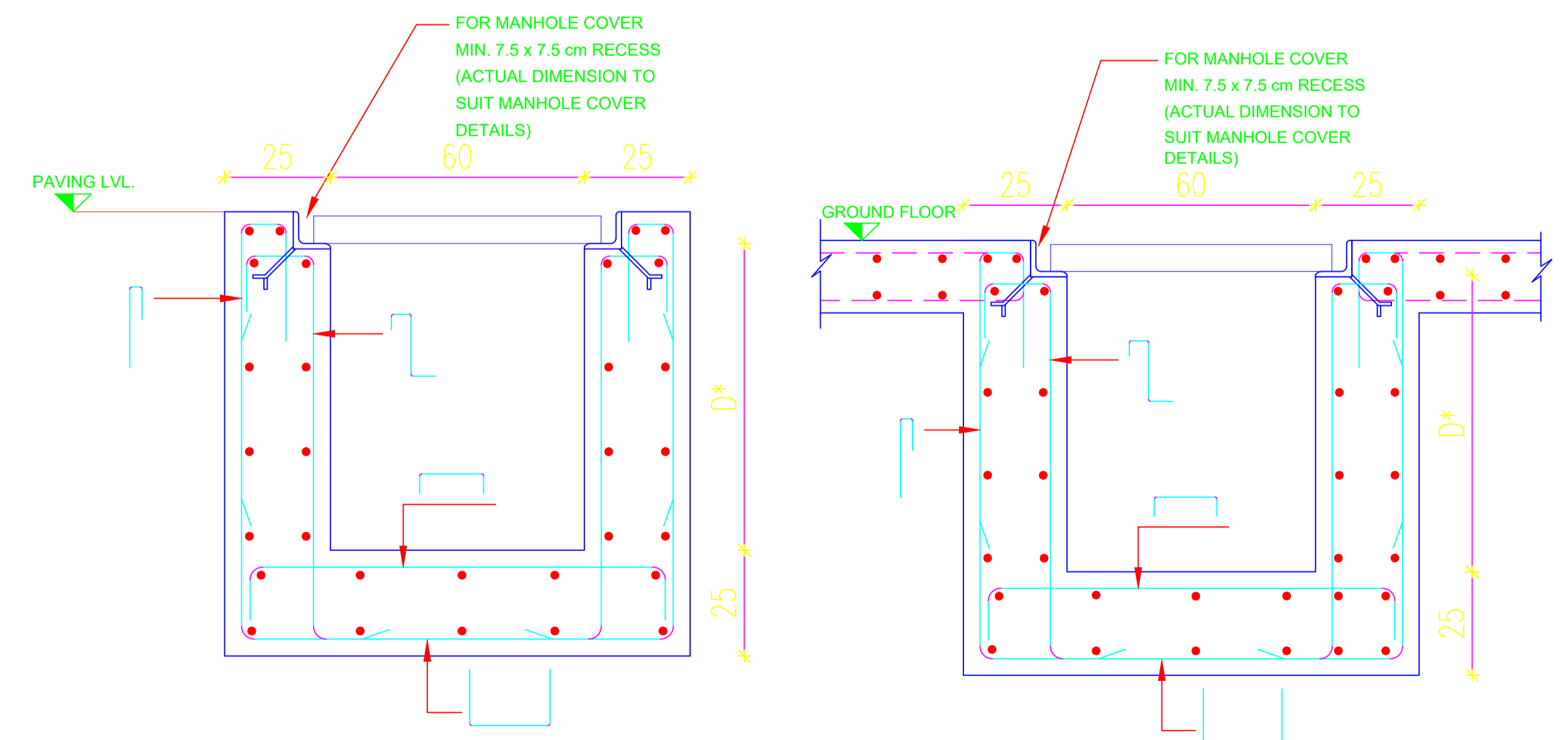
DETAIL OF SLAB ON GRADE AT FREE EDGE



FOUNDATION SPLIT LEVEL TYPICAL DETAIL
SCALE: 1/20



TYPICAL STAIR CASE REINFORCEMENT DET.



ALL REINFORCEMENTS ARE Ø10-20cm
(FOR MAX. DEPTH 100)
* DEPTH AS PER DRAINAGE LAYOUT DWG.

TYPICAL MANHOLE DETAIL

ALL REINFORCEMENTS ARE Ø10-20cm
(FOR MAX. DEPTH 100)
* DEPTH AS PER DRAINAGE LAYOUT DWG.

TYPICAL MANHOLE DETAIL



DRAWING TITLE:

GENERAL STRUCTURAL
DETAILS

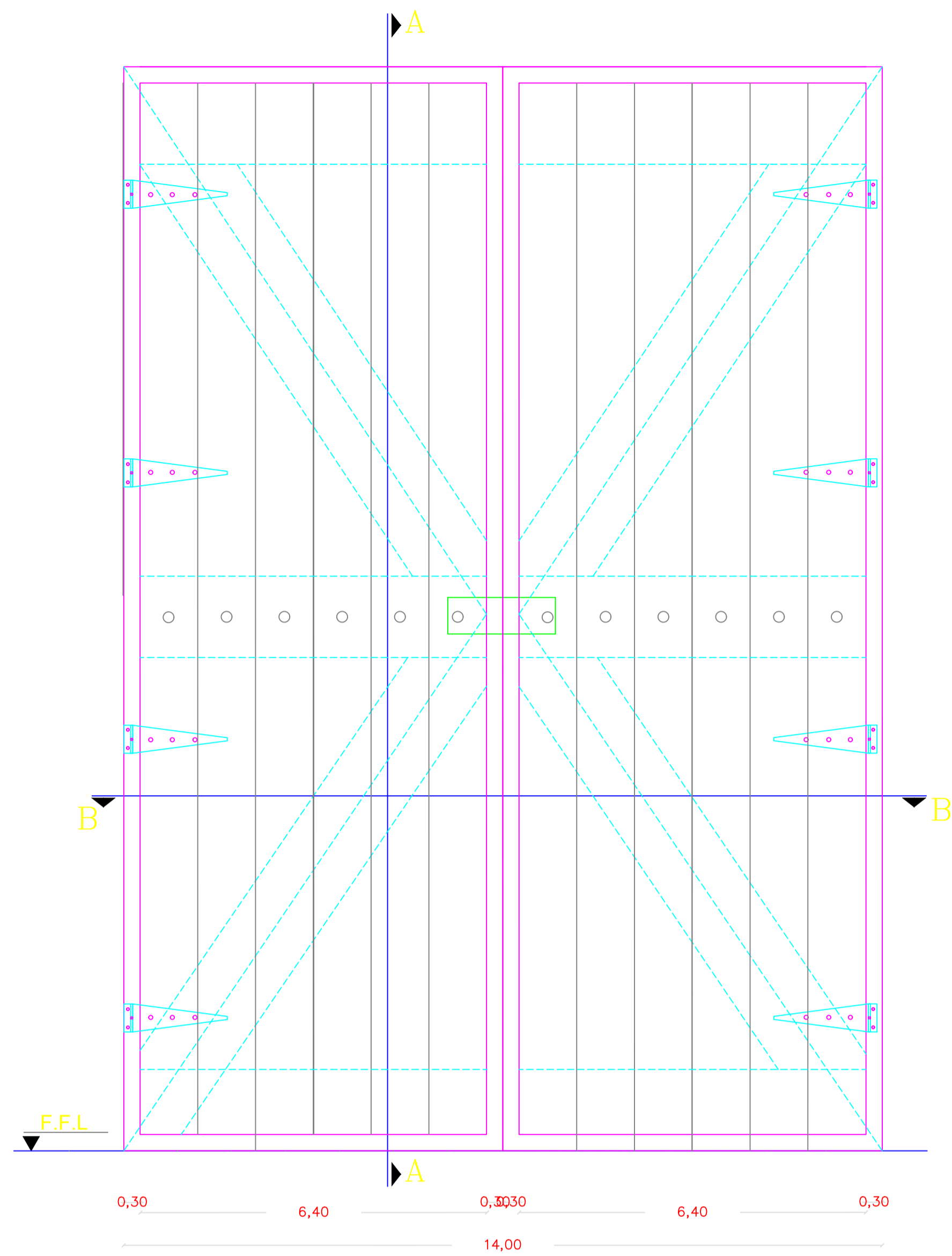
SCALE:	Dimensions Are:	DESIGNED BY
N.T.S	IN (m)	TEAM

DRAWING NO.

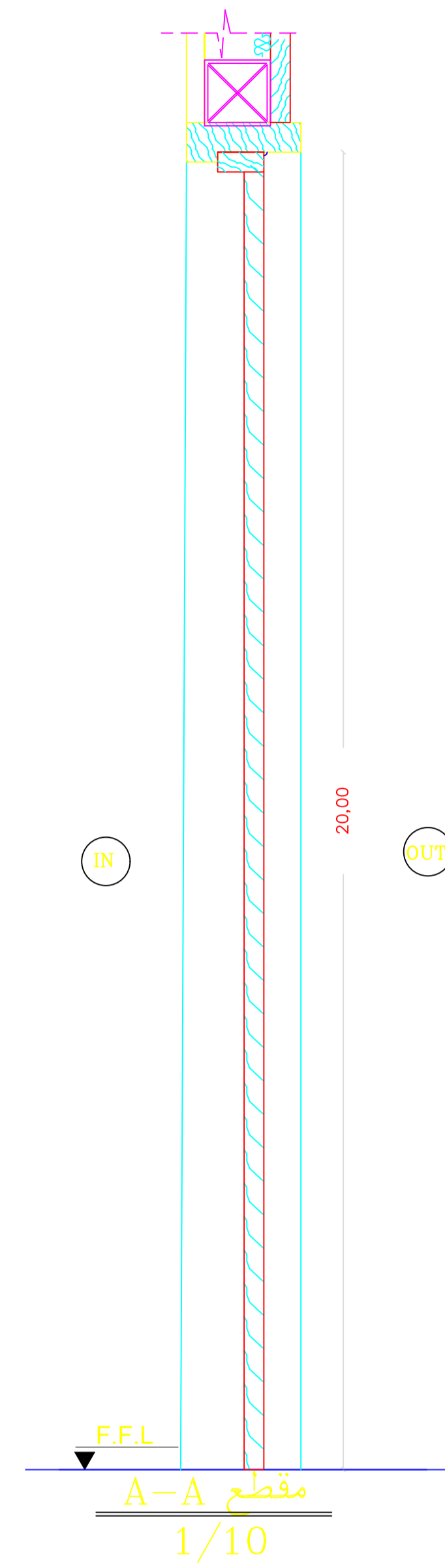
S-03

Eng . Rashed Al- Nawafleh

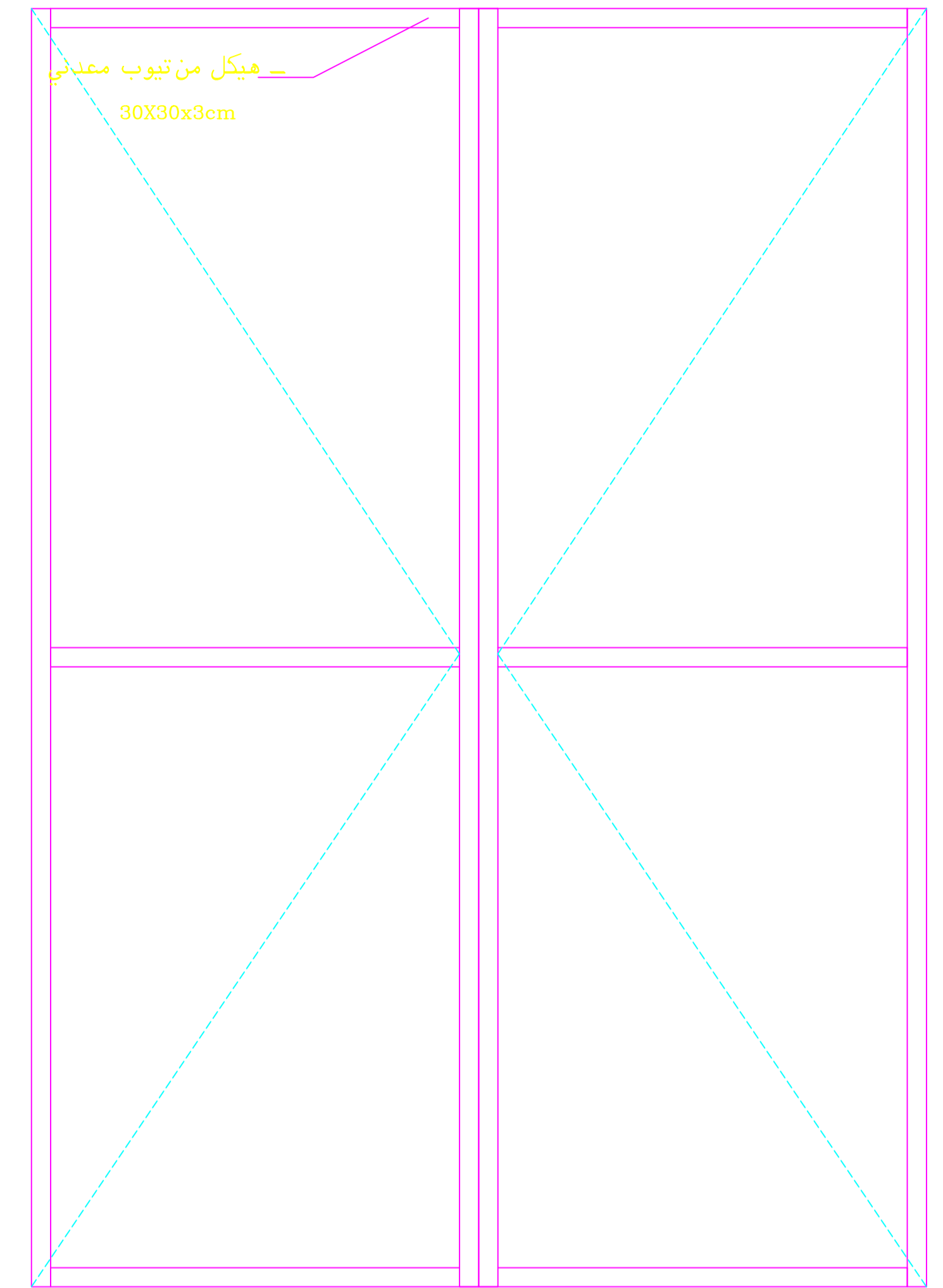
Kiosks Details



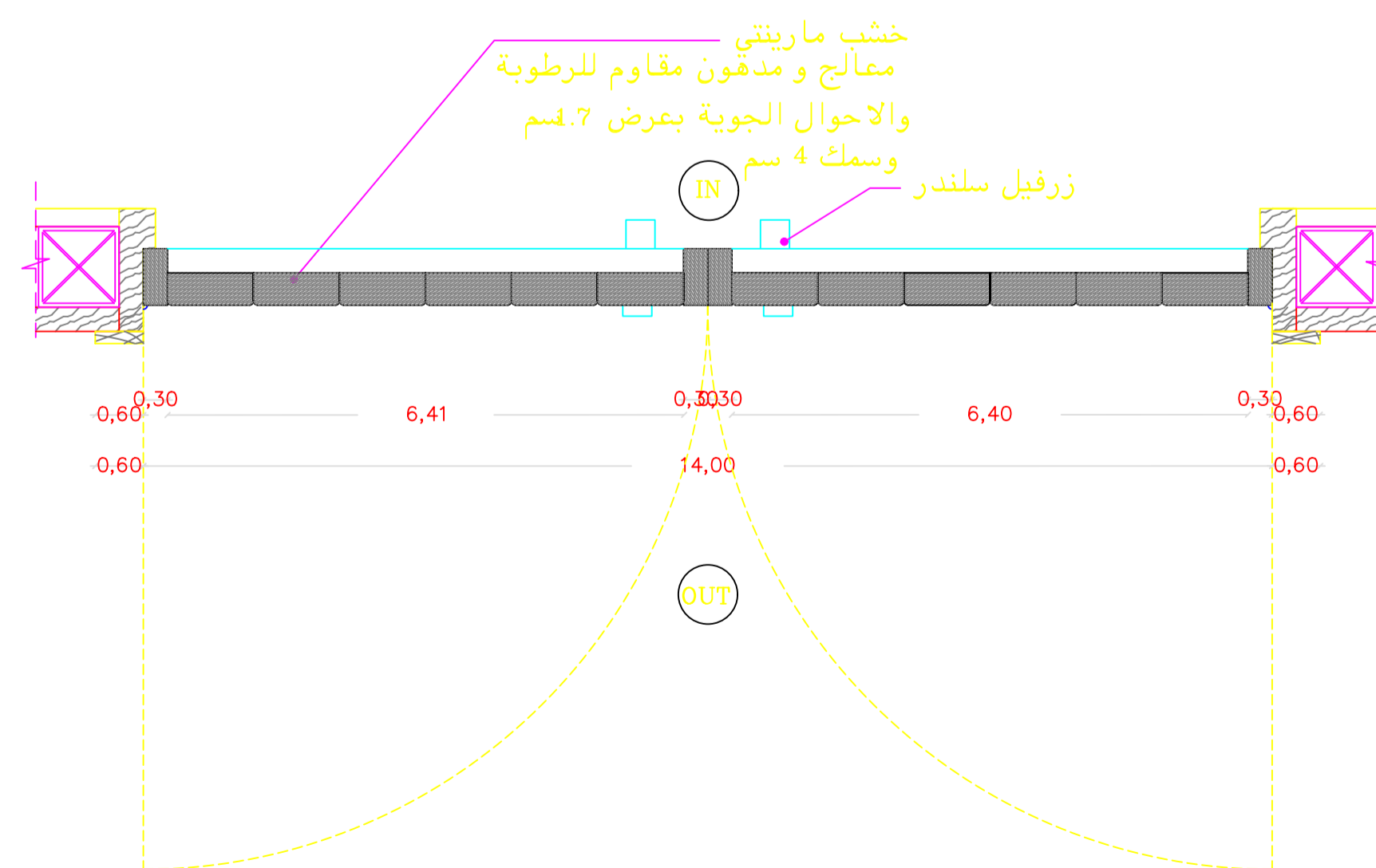
01 Typical Door Detail Elevation
A403 1:10



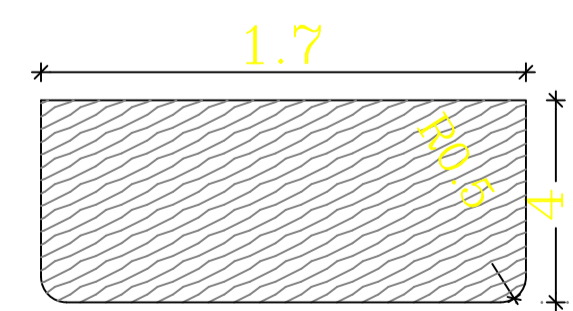
مقطع A-A
1/10



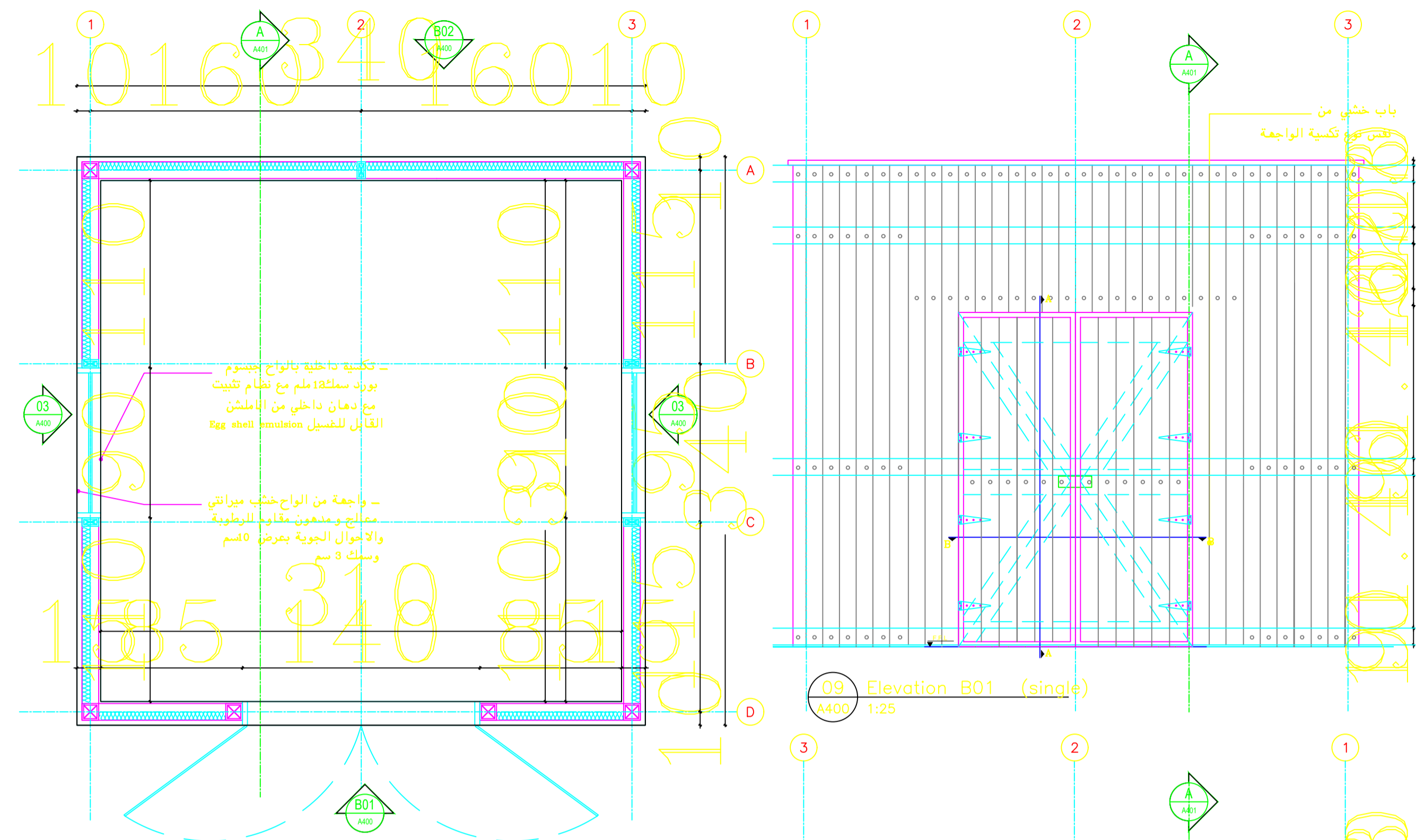
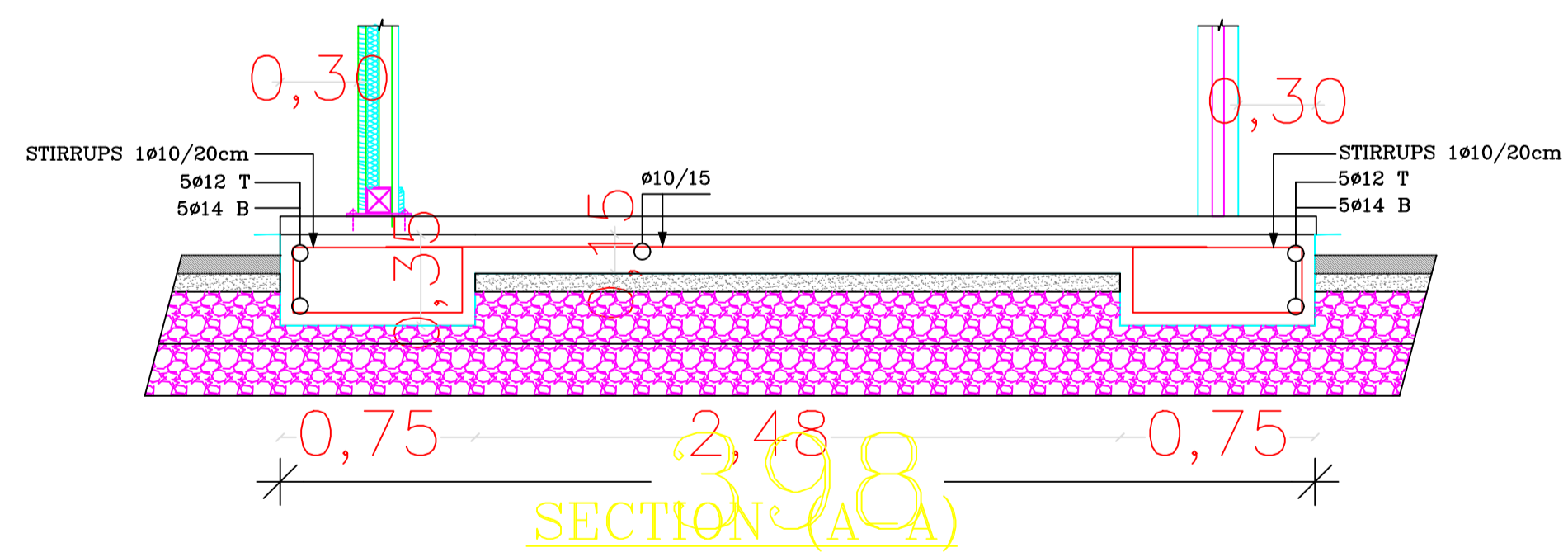
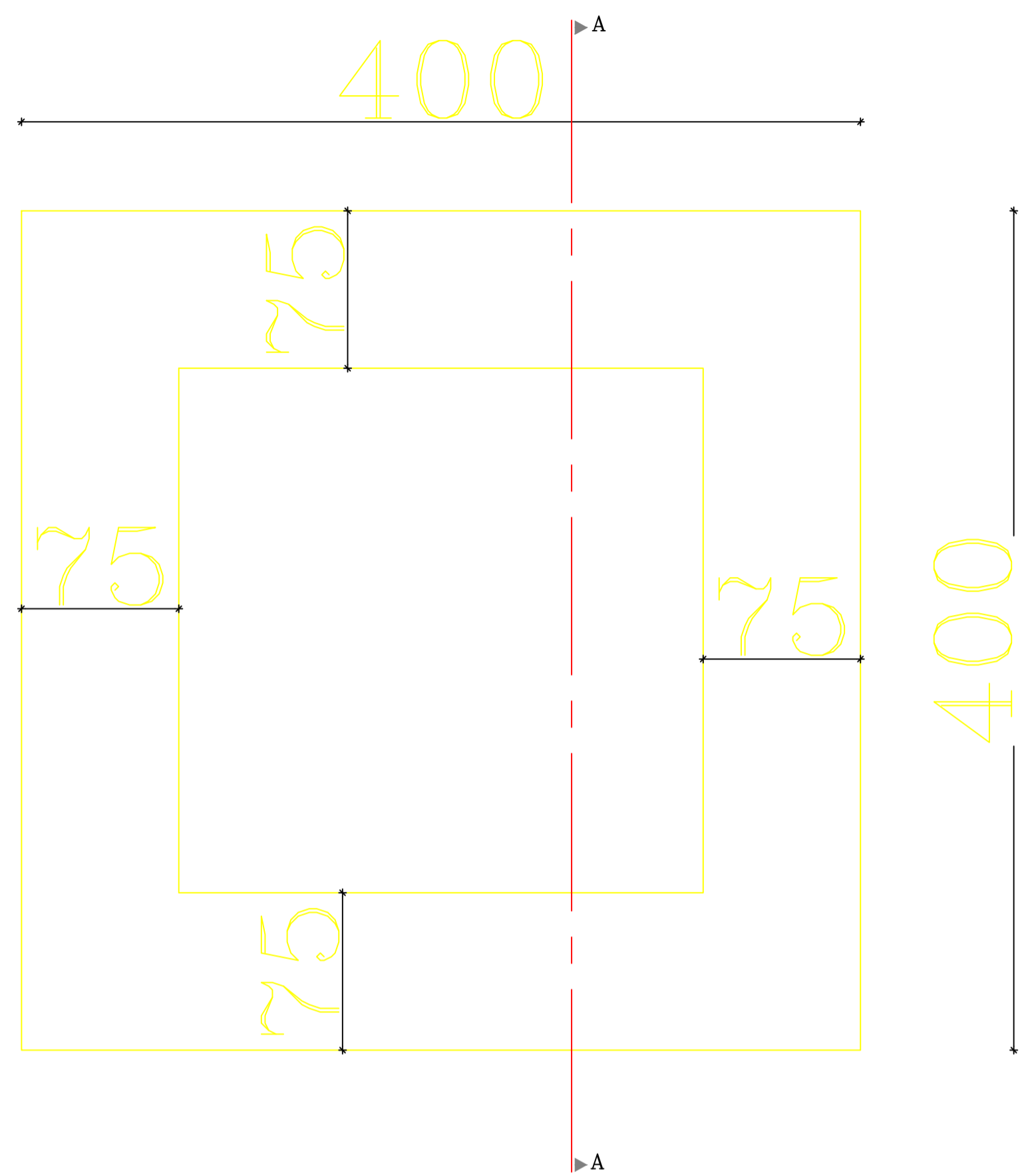
04 structural door detail
A403 1:10



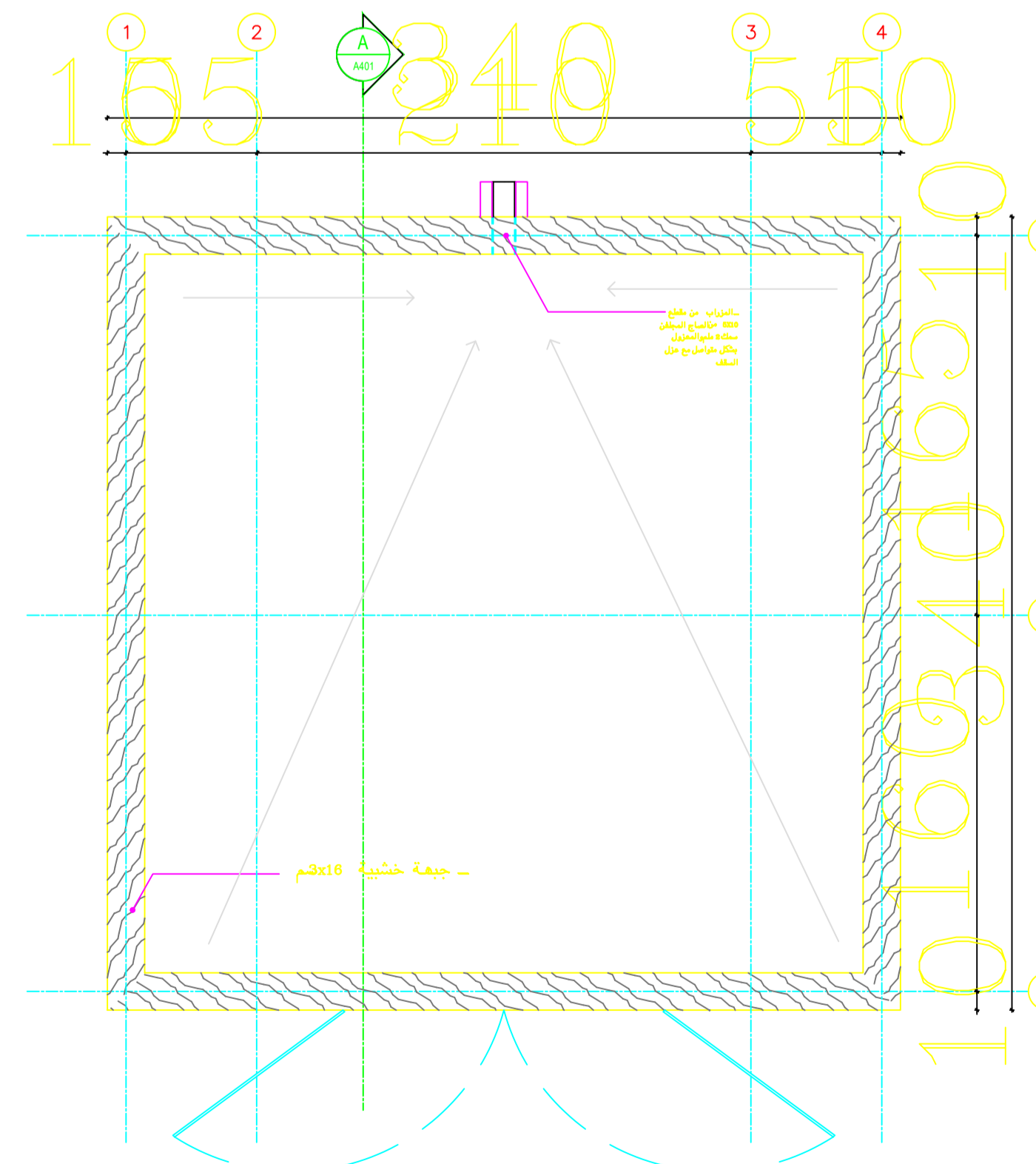
تفصيلة نموذجية للابواب المستعملة



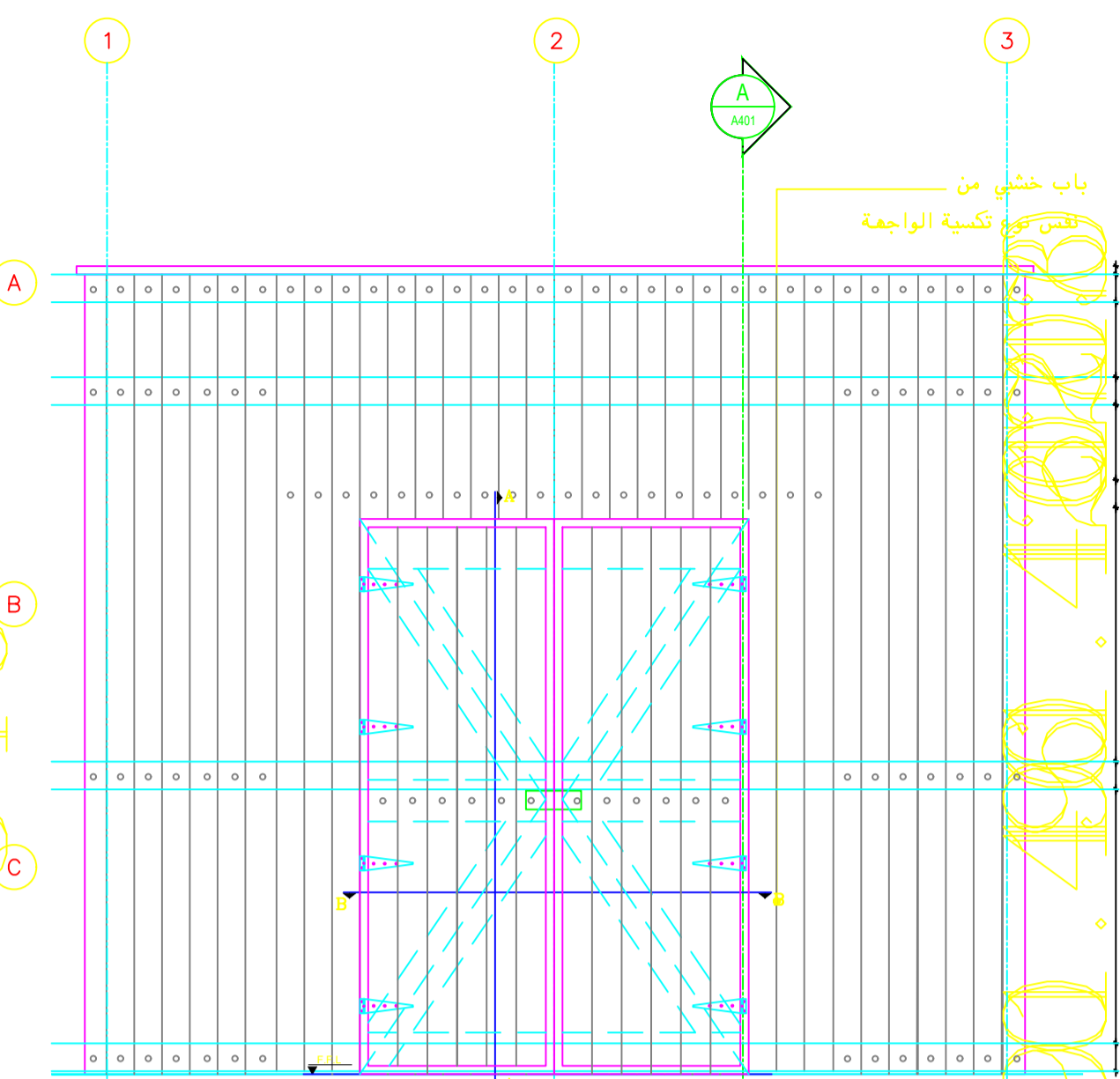
05 Meranti Boards Detail
A403 1:10



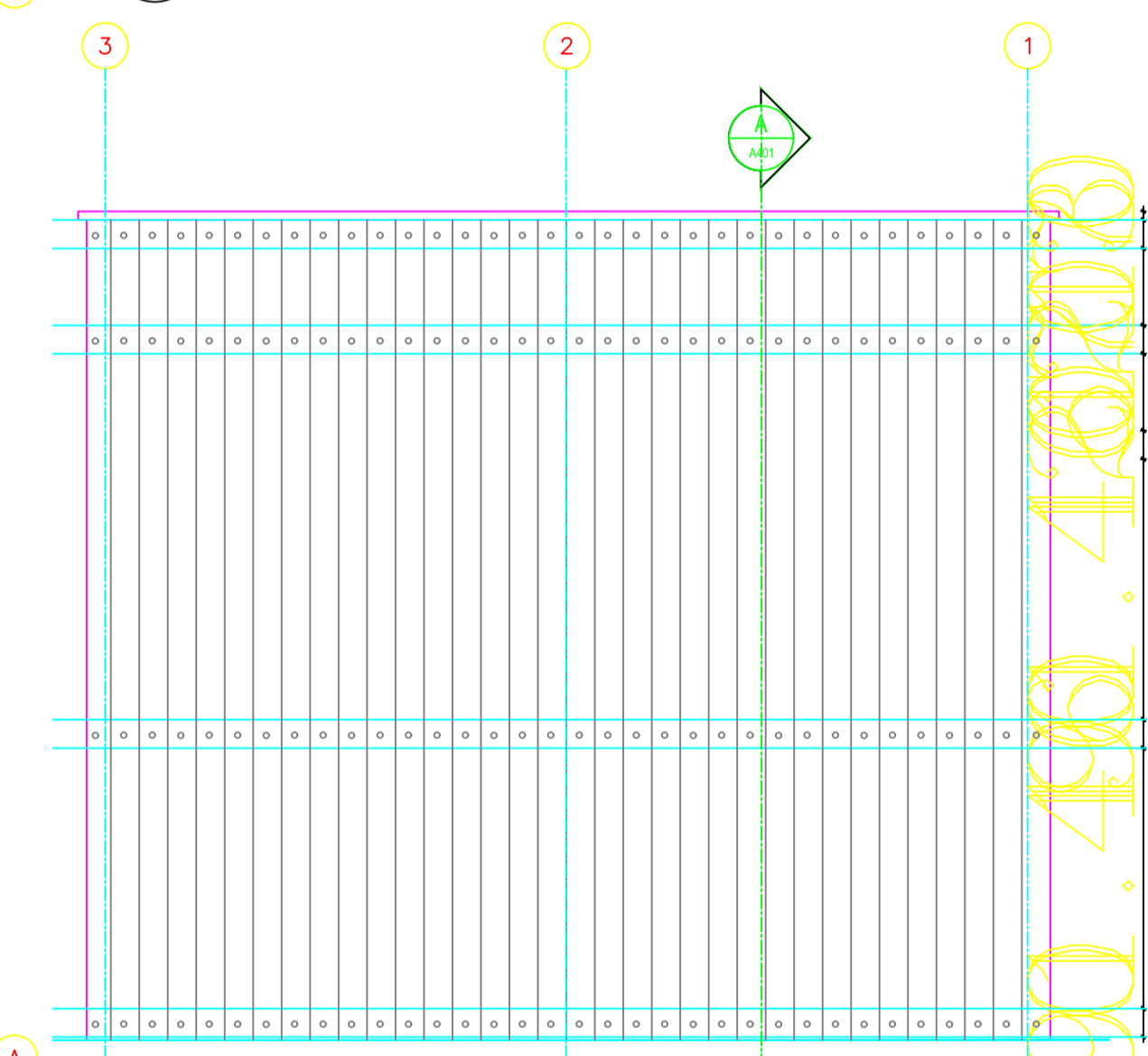
07 Kiosk Plan (single)
A400 1:25



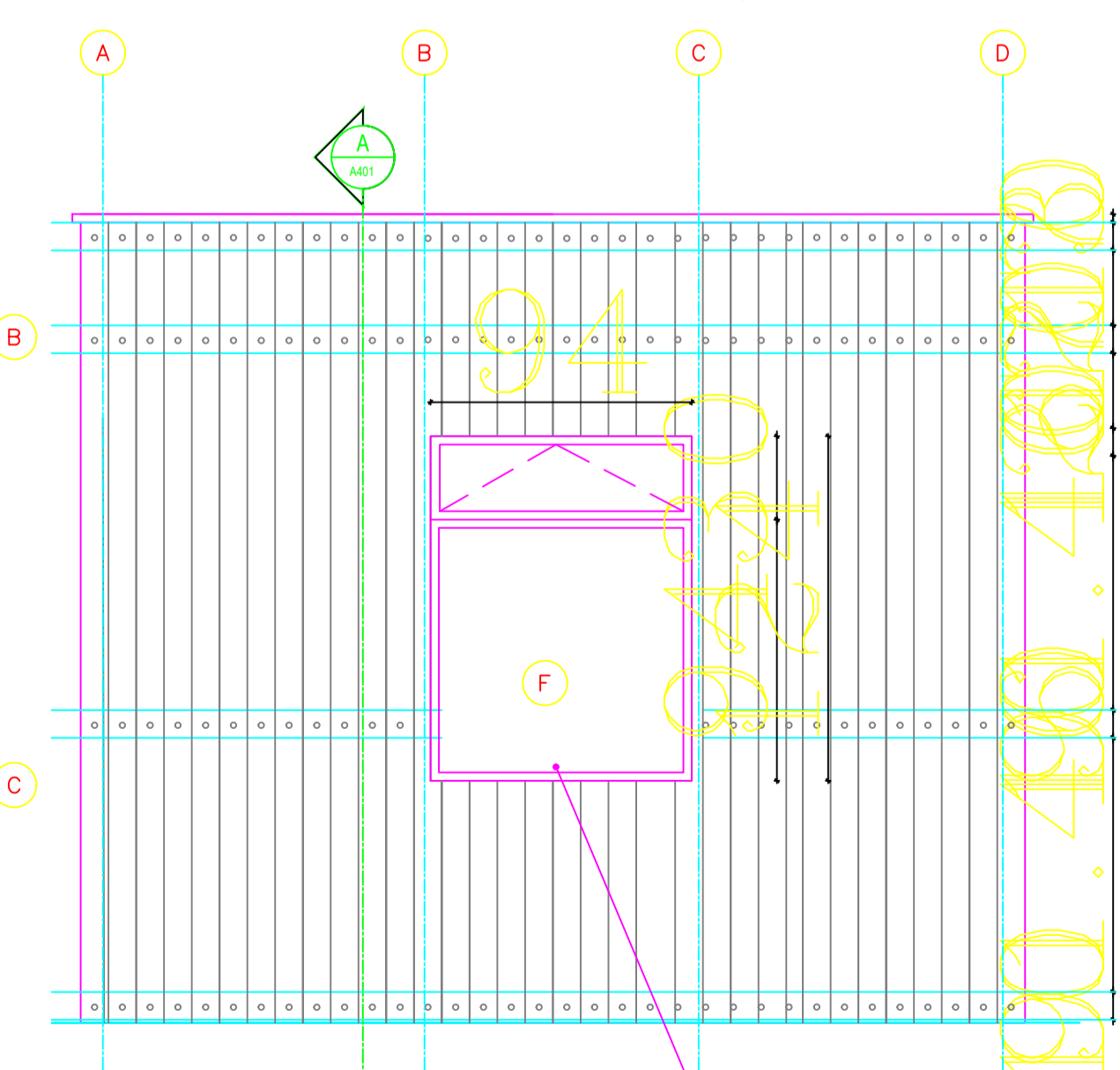
08 Kiosk Roof Plan (single)
A400 1:25



09 Elevation B01 (single)
A400 1:25



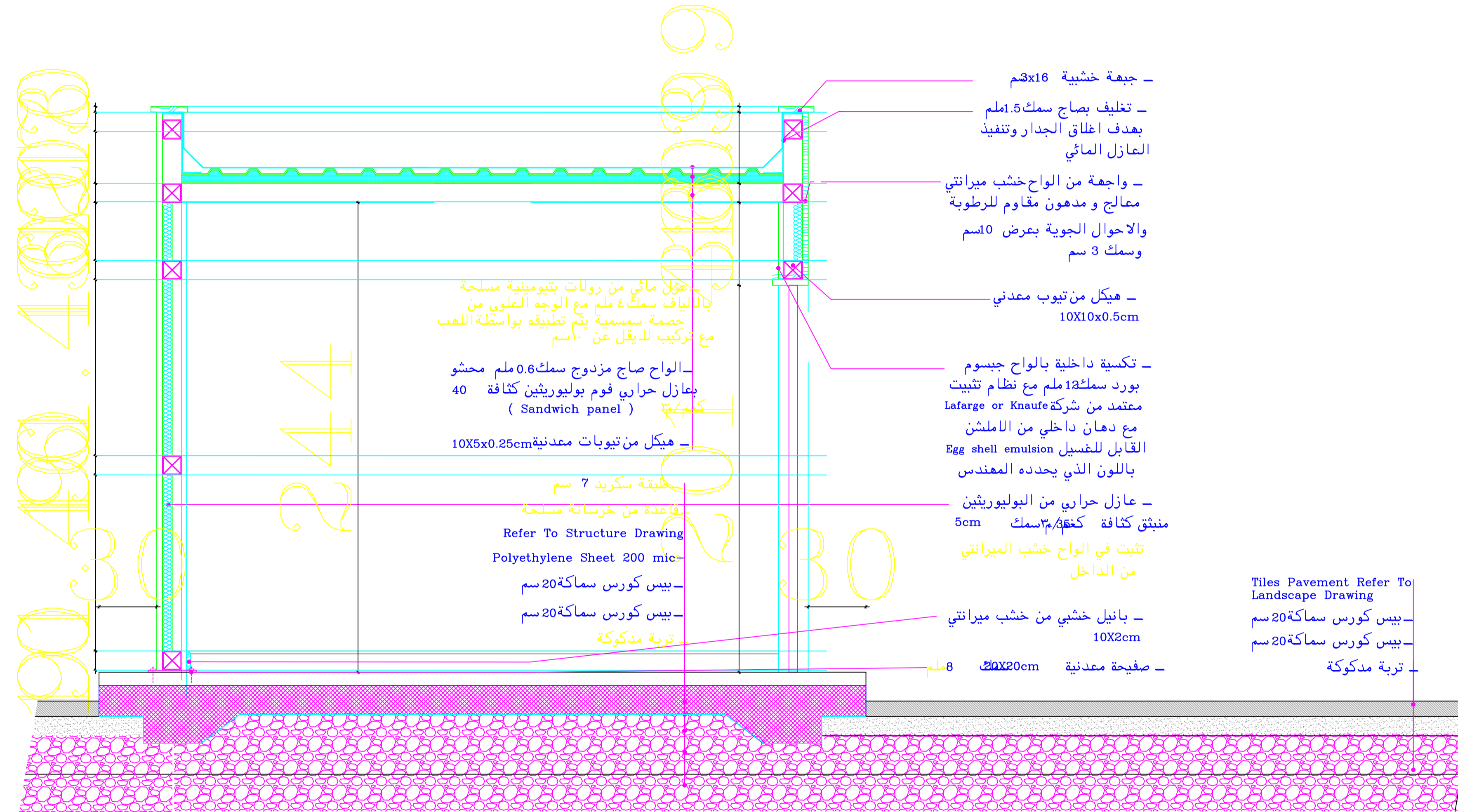
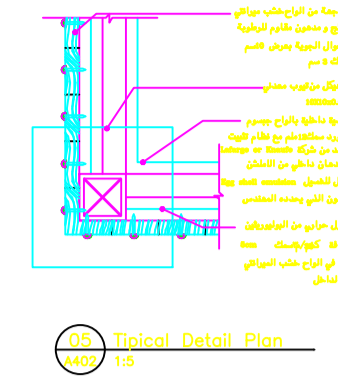
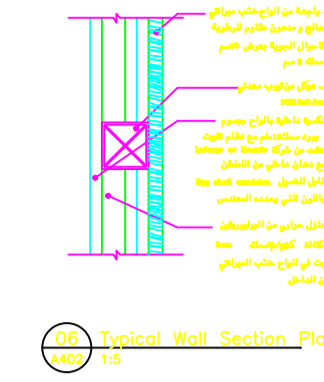
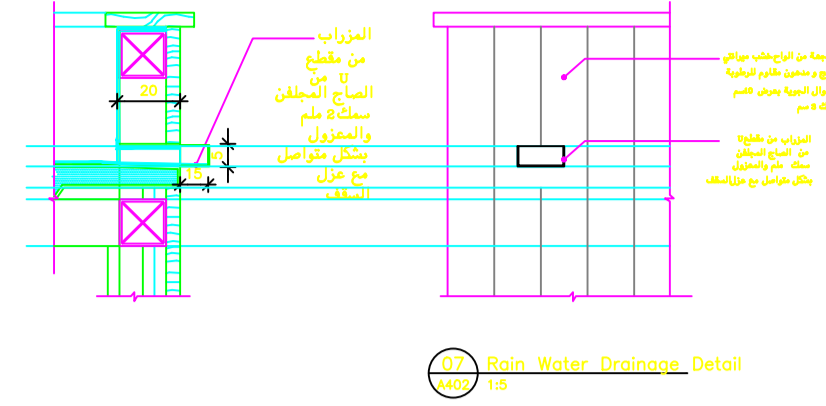
10 Elevation B02 (single)
A400 1:25



11 Elevation B03 (single)
A400 1:25



Um Sehon	
DRAWING No:	Architecture drawing
SCALE	DRAWING No.
1:100	01 (01)
Plan	




Wall &

Railings Details



Walls Locations & Profiles



 Petra Development & Restoration Authority

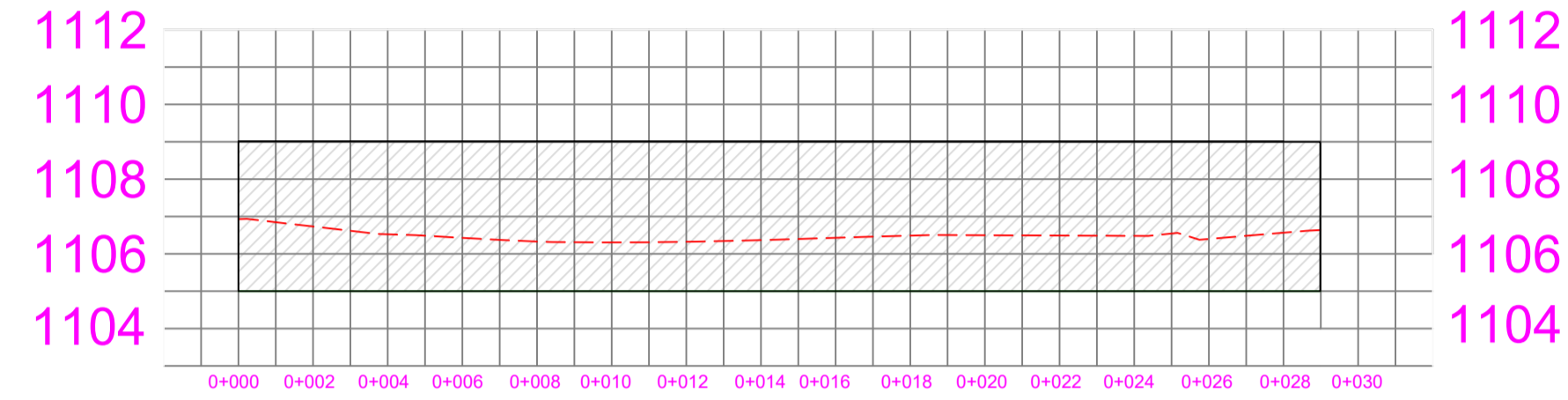
 سلطة تطوير وترميم البتراء

 U/m Sahran

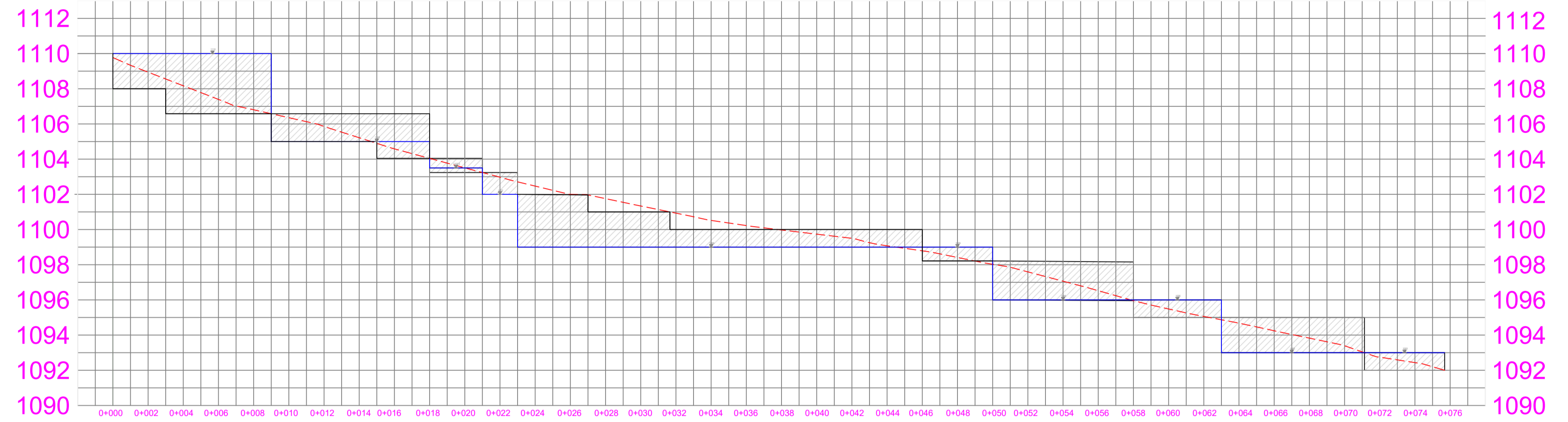
 Chd. Saadq

 Plan: Sdg. Number 11/2000

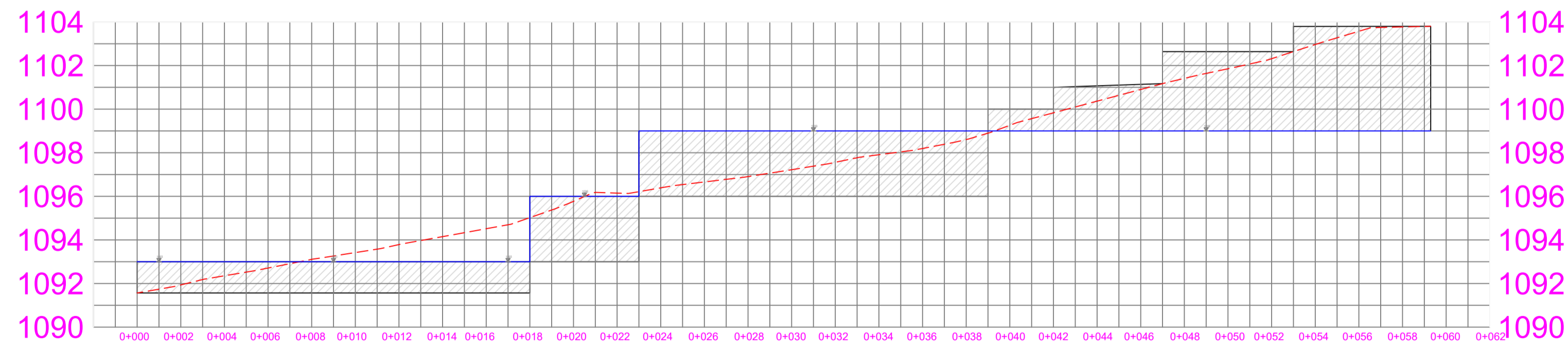
W1 Profile



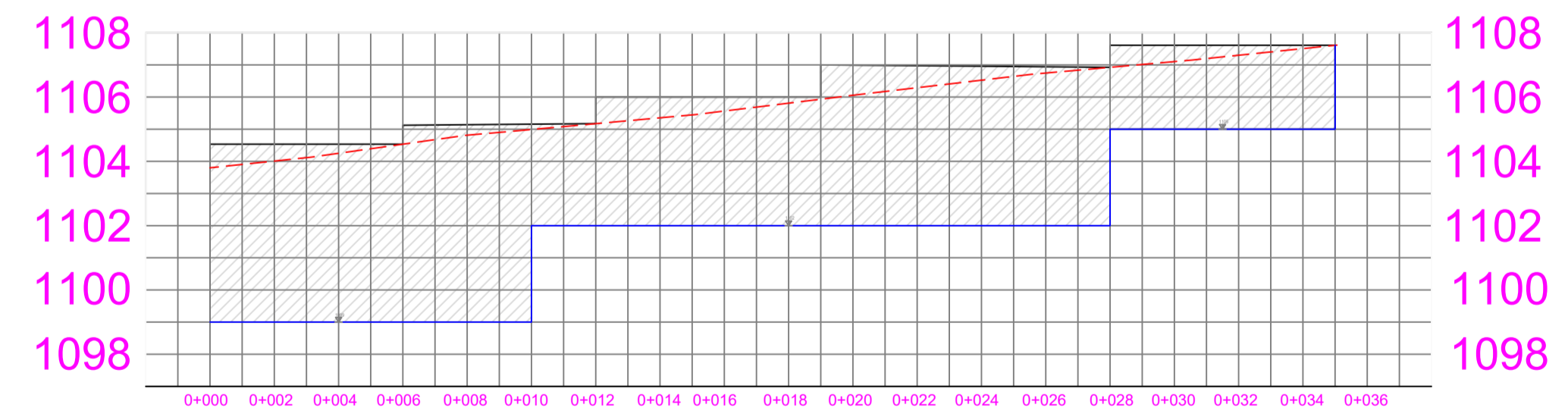
W2 Profile



W3 Profile

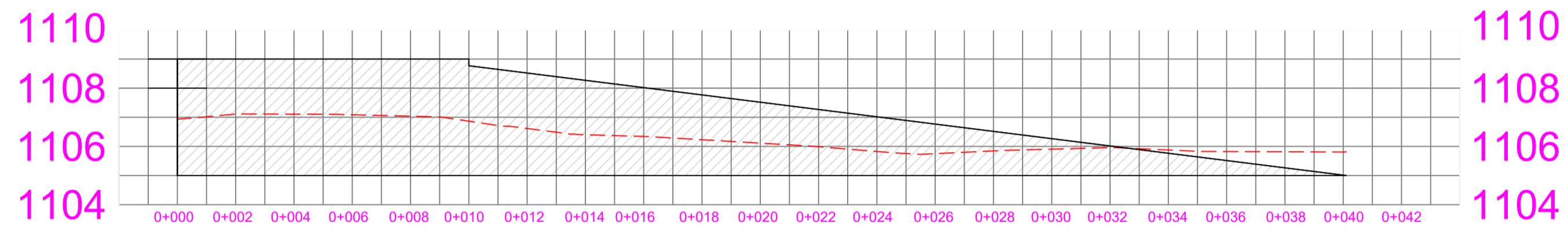


W4 Profile

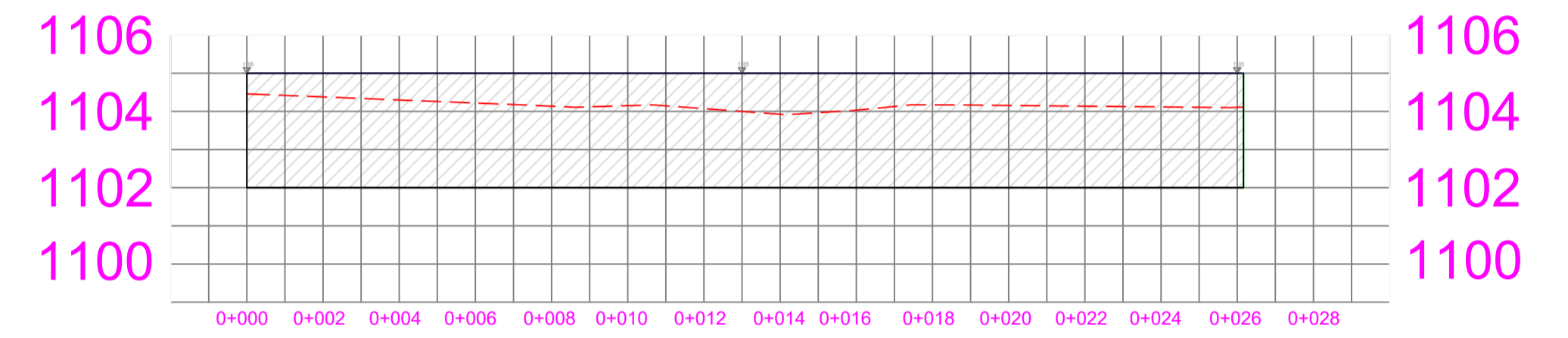


Wall Profiles

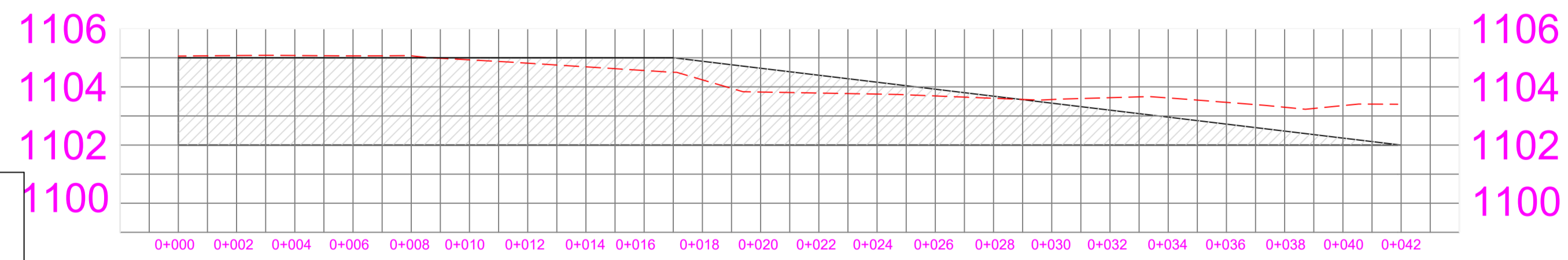
W5 Profile



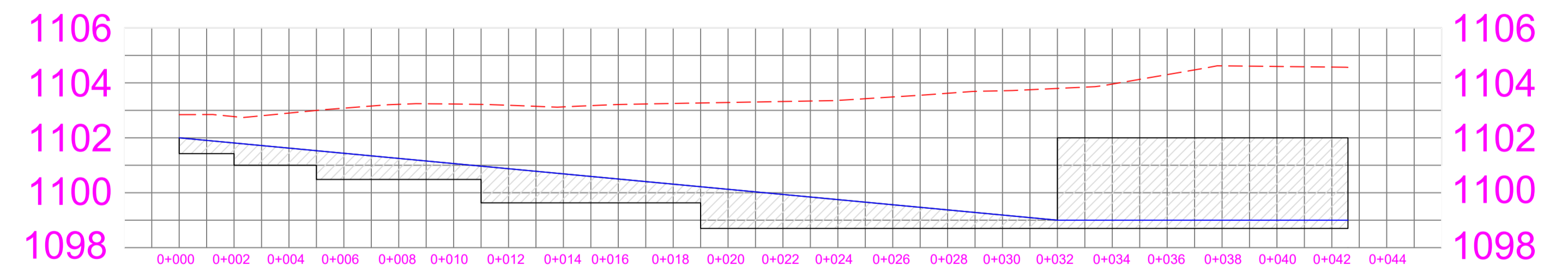
W6 Profile



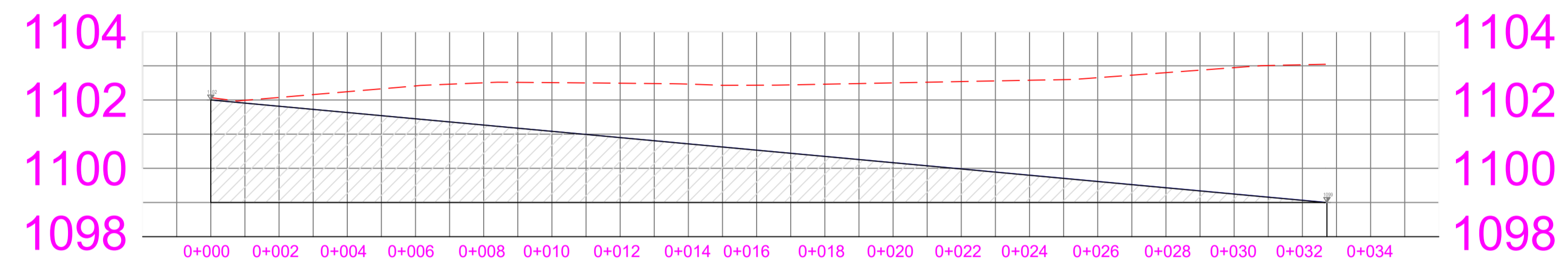
W7 Profile



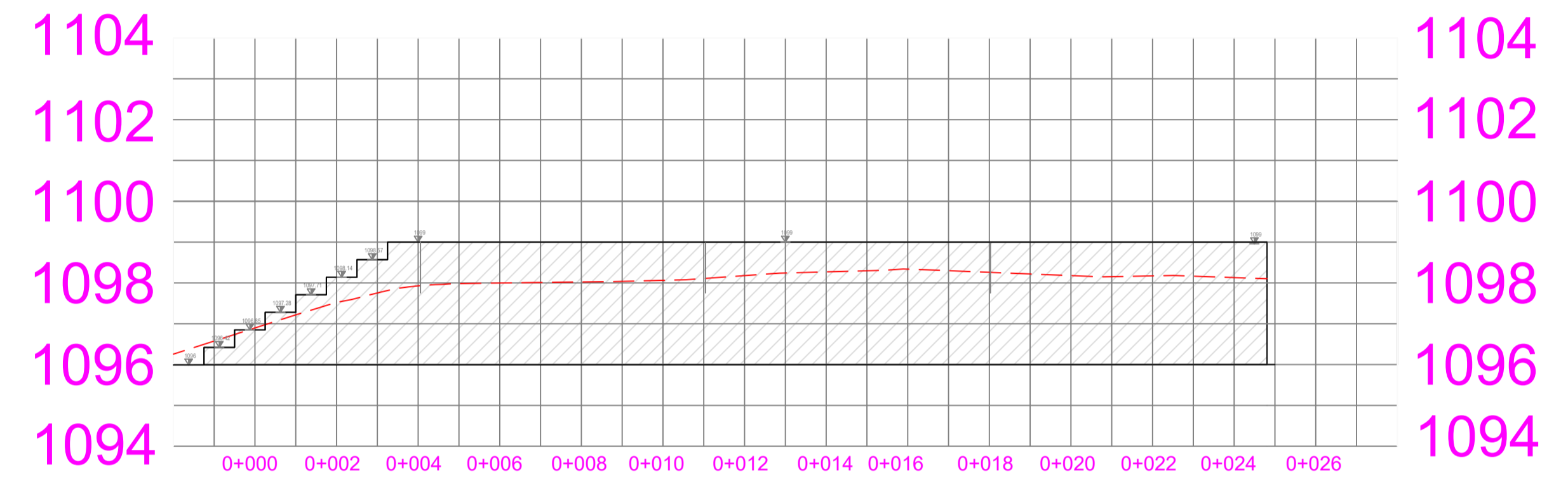
W8 Profile



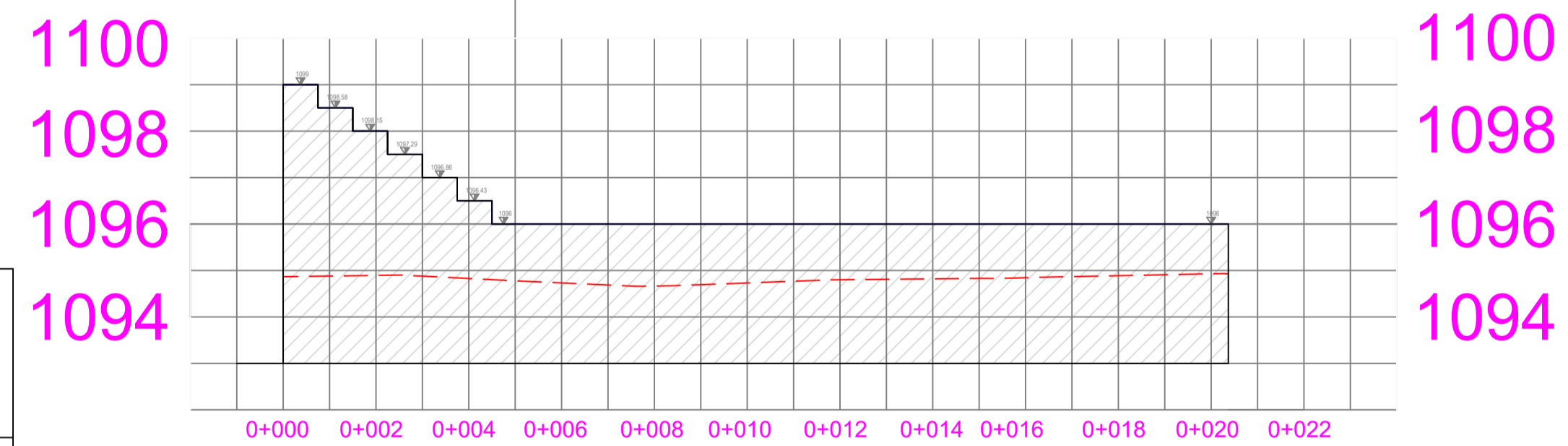
W9 Profile



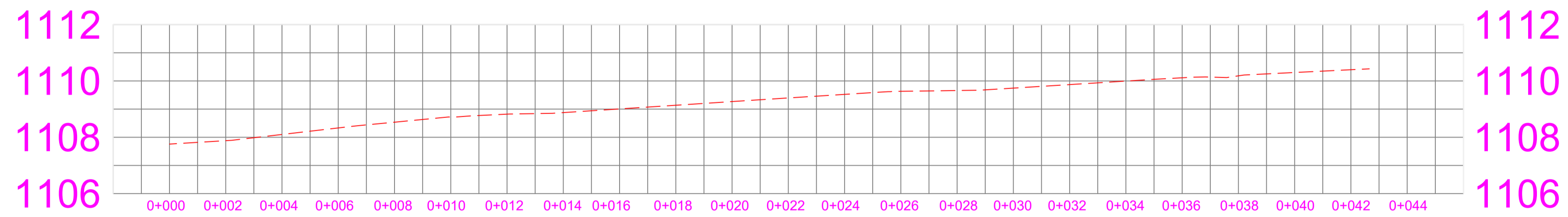
W10 Profile

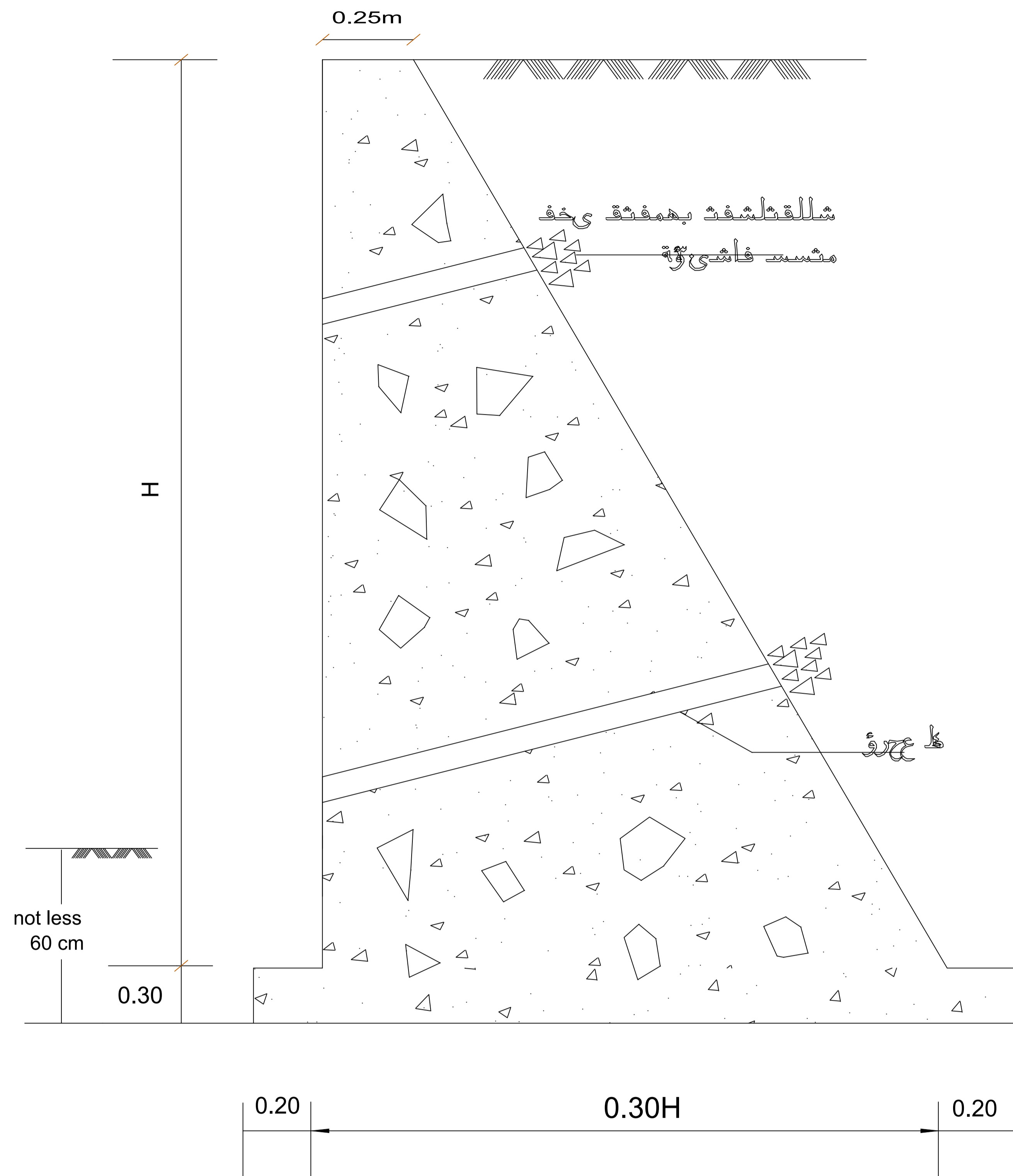
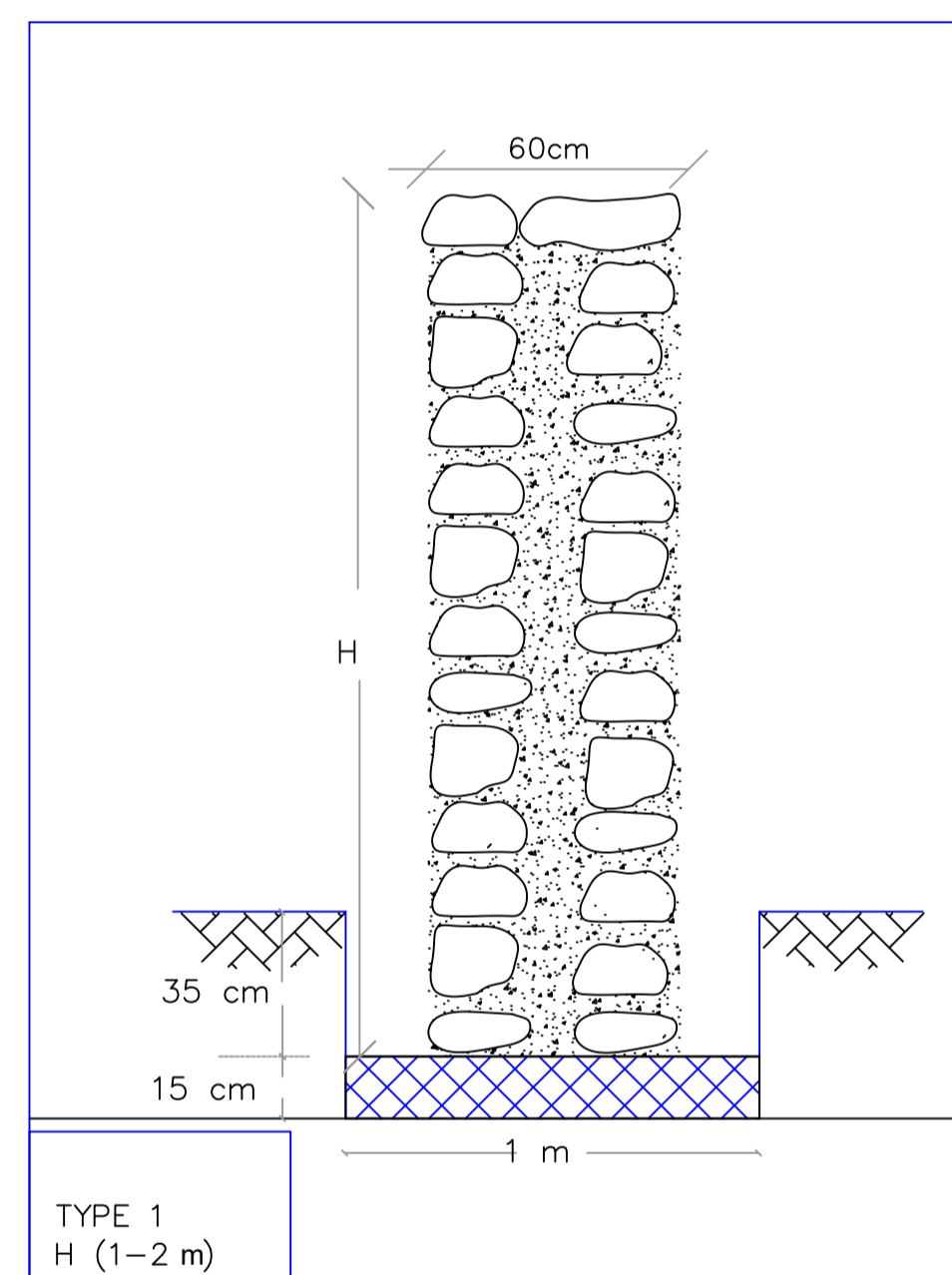


W11 Profile

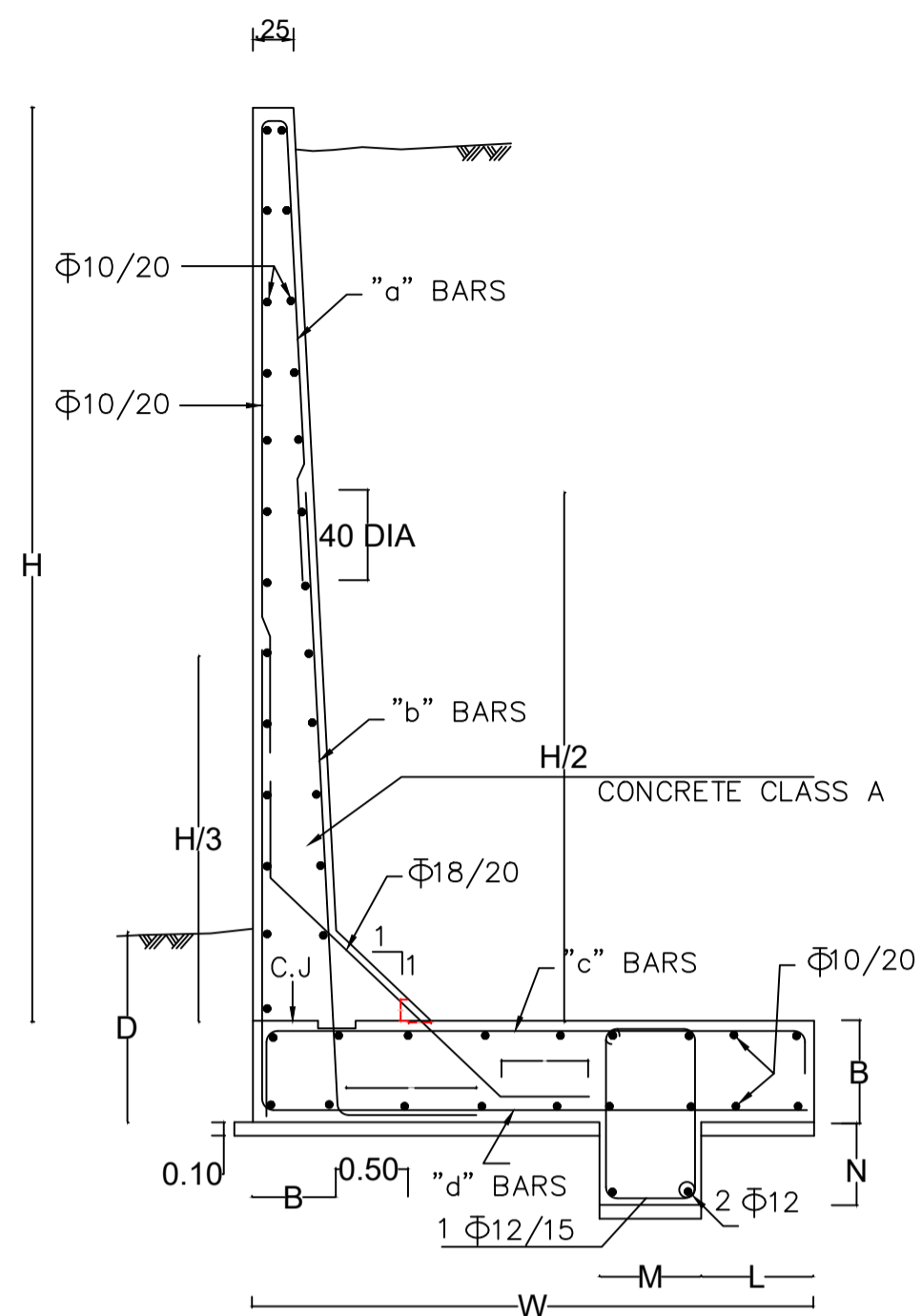


Paved Road CL PROFILE

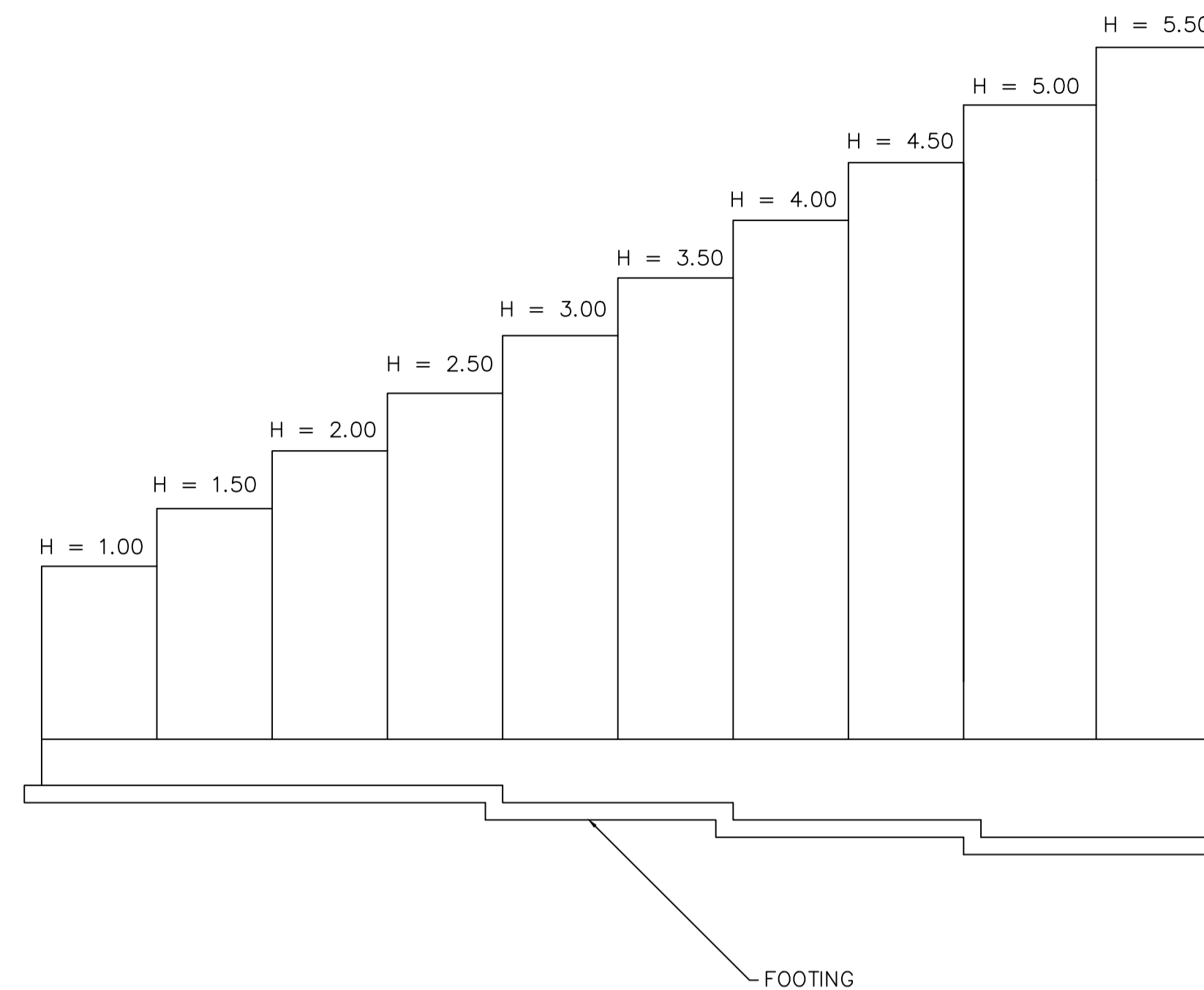
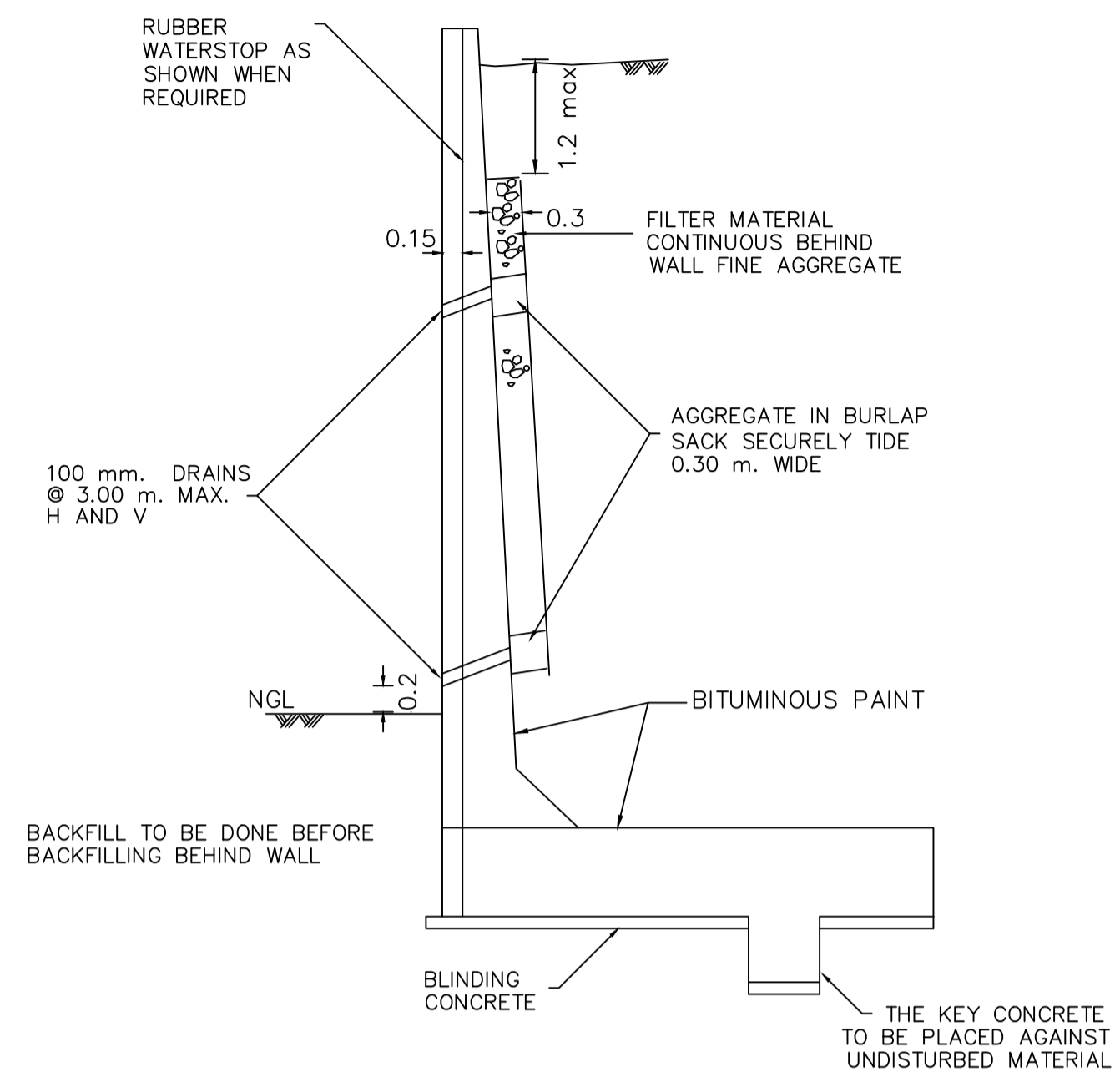




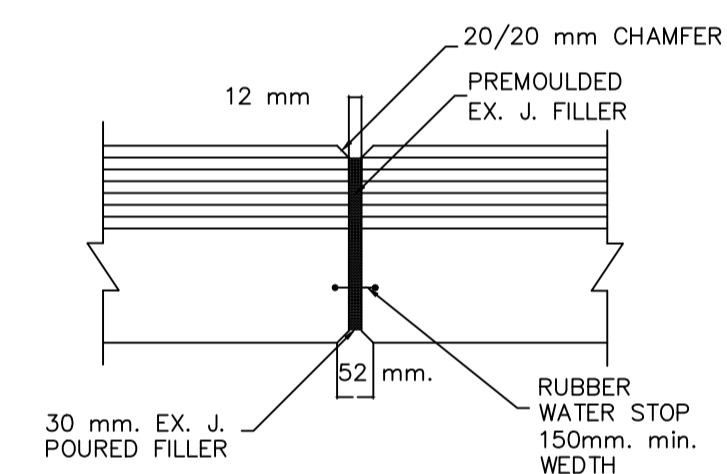
MASONRY RETAINING WALL - TYPICAL SEC.



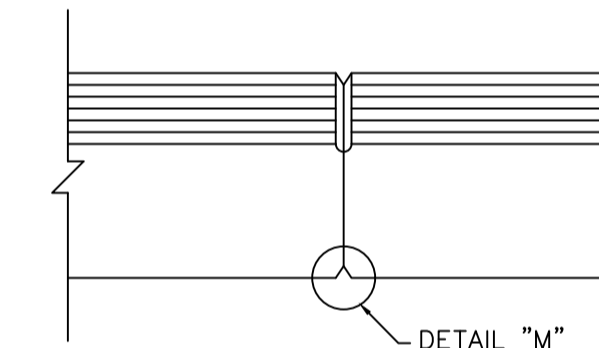
TYPICAL SECTION IN L-SHAPED RETAINING WALL



ELEVATION

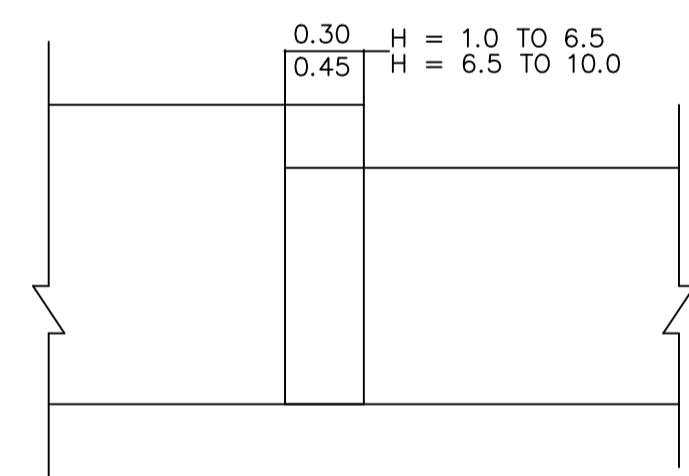


EXPANSION JOINT PLAN

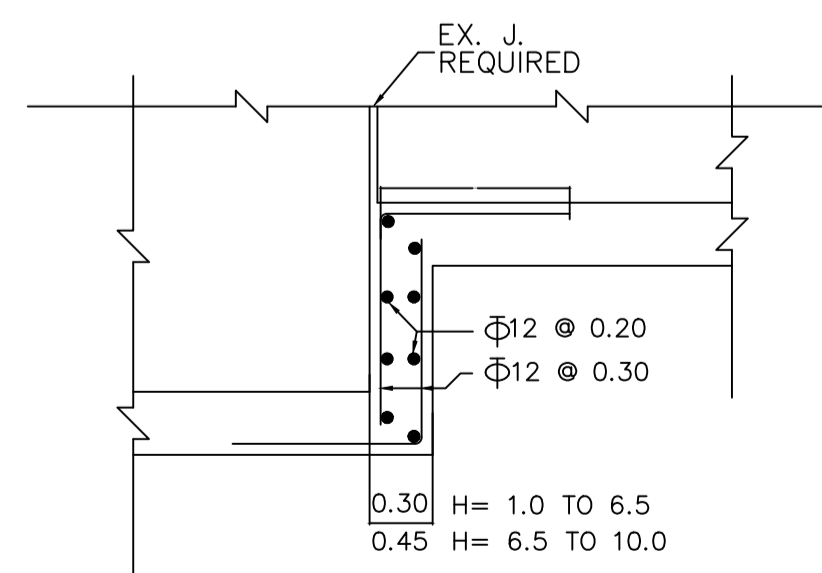


DETAIL "M" CONSTRUCTION JOINT

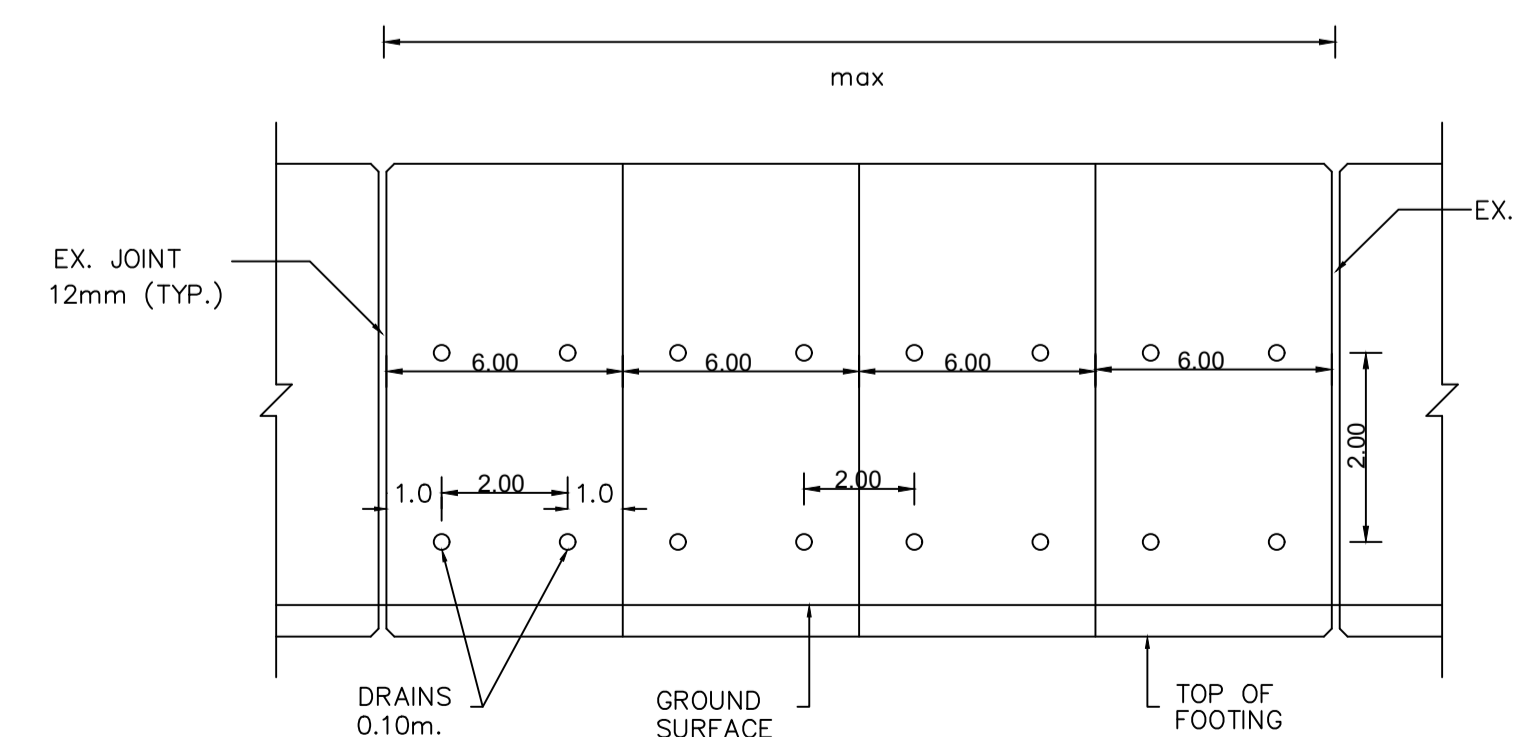
TABLE OF REINFORCING STEEL, DIMENSIONS AND DATA L-SHAPED RETAINING WALL											
H m.	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6
W m.	1.35	1.50	1.90	2.15	2.45	2.80	3.00	3.20	3.4	3.6	
B m.	0.25	0.25	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	
D m.	0.70	0.70	0.75	0.80	0.85	0.90	0.95	1.00	1.05	1.1	
M m.	0.25	0.25	0.30	0.40	0.40	0.40	0.40	0.45	0.50	0.55	
L m.	0.25	0.25	0.35	0.50	0.65	0.75	0.80	0.90	1.00	1.10	
N m.	0.20	0.20	0.20	0.30	0.30	0.30	0.30	0.35	0.40	0.45	
"a" BARS Φ	10/15	10/12.5	10/12.5	12/15	12/15	14/17.5	14/15	14/12.5	14/10	16/12.5	
"b" BARS Φ	10/15	10/12.5	10/12.5	12/15	14/15	16/17.5	16/15	16/12.5	16/10	18/12.5	
"c" BARS Φ	10/15	10/12.5	10/12.5	12/15	14/15	16/15	18/15	18/12.5	20/10	25/12.5	
"d" BARS Φ	-	-	-	10/20	10/20	12/20	12/20	14/20	16/20	16/20	
CONCRETE Cu M Per m run											



FOOTING STEP PLAN



FOOTING STEP ELEVATION



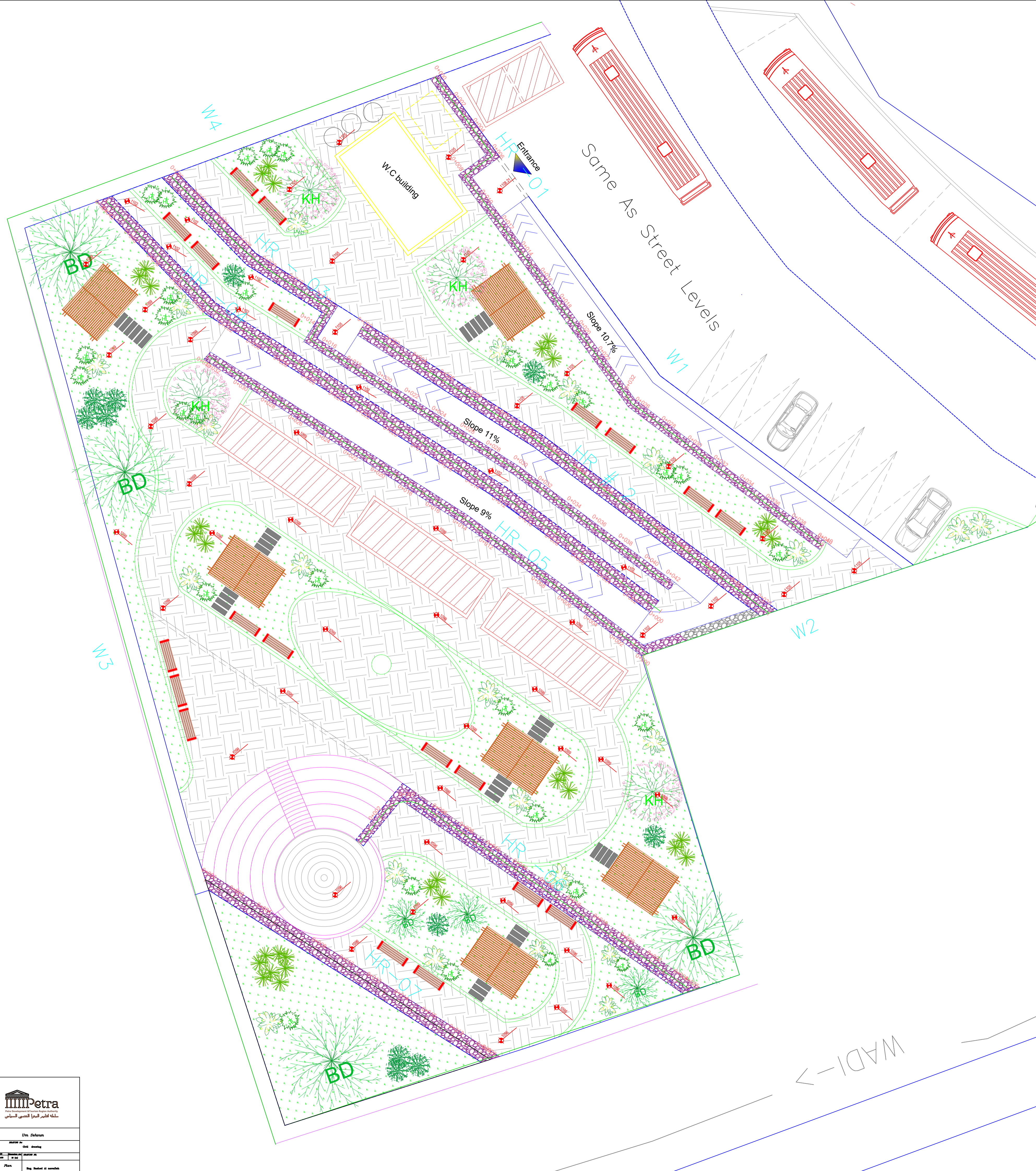
ELEVATION

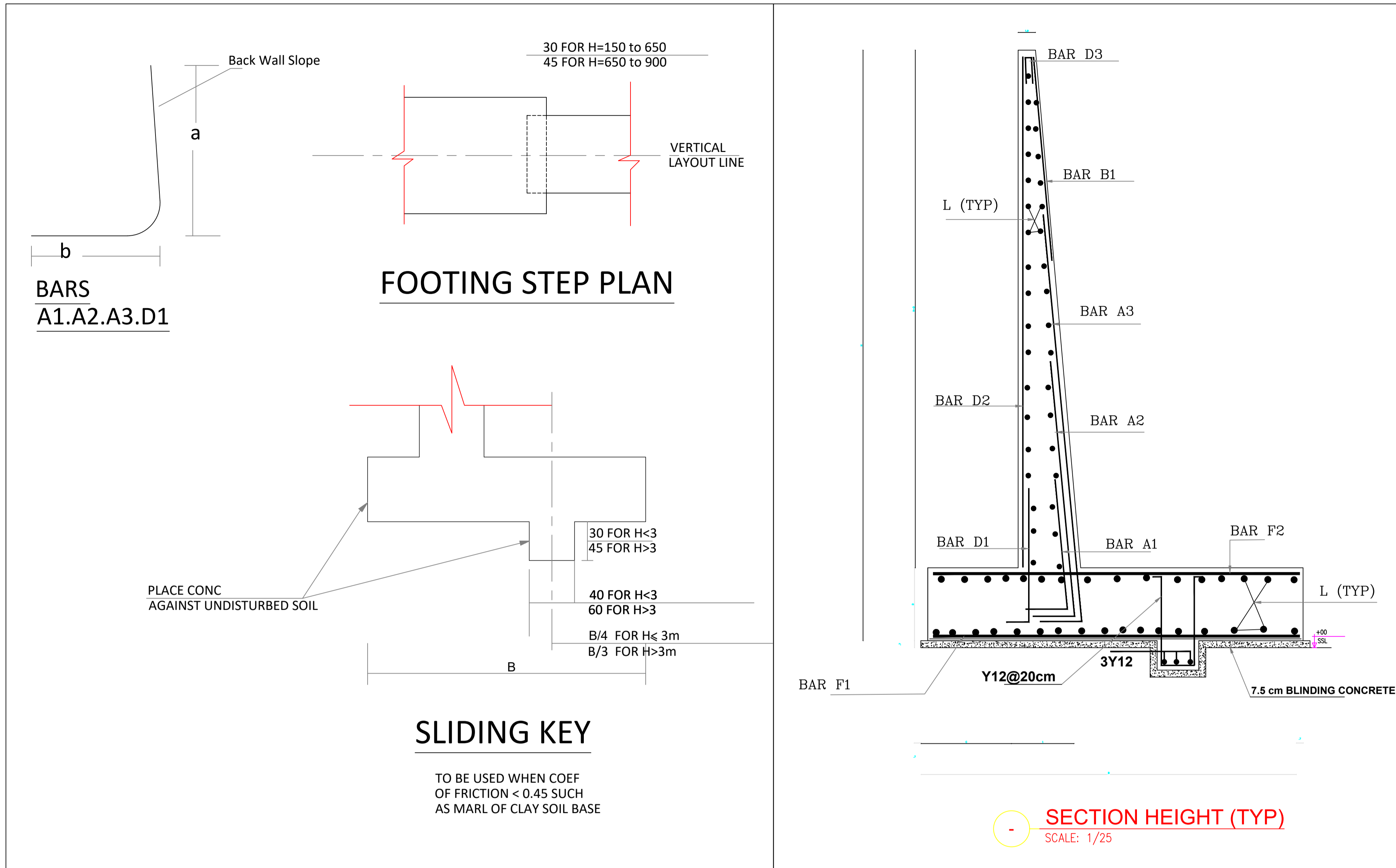
NOTES

- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE INDICATED.
- ALL BAR SIZES ARE IN MILLIMETERS.
- COST OF :
 - BITUMEN
 - FILTER MATERIAL
 - JOINTS COMPLETE
 - WATER STOP
 - DRAIN

WILL NOT BE PAID FOR SEPARATELY BUT SHOULD BE INCLUDED IN UNIT BID PRICE OF CONCRETE CLASS "30".
- COST OF REINFORCED CONCRETE INCLUDE ALL COSTS OF FORMWORK AND STEEL WITH ALL SIZES
- IF SOIL IS NOT SUITABLE TO AVERAGE PRESSURE SHOWN, MASS CONCRETE TO REQUIRED DEPTH IS TO BE CAST UNDER FOOTING AS INSTRUCTED BY THE ENGINEER
- THE CONTRACTOR MUST SUBMIT A VERY DETAILED SURVEY FOR EVERY LOCATION OF RETAINING WALLS TO DEFINE THE EXACT EXTENT AND HEIGHTS.
- DRAIN AND FILTER MATERIAL AND DRAIN PIPE ETC. TO BE INCLUDED IN UNIT RATES OF R.C. FOR ALL WALLS AND ABUTMENTS AS SHOWN

- BAR SIZES ARE IN MILLIMETERS.
 - BAR SPACINGS ARE IN CENTIMETERS.
 - ALLOWABLE BEARING SOIL PRESSURE $q_u = 2\text{Kg/cm}^2$





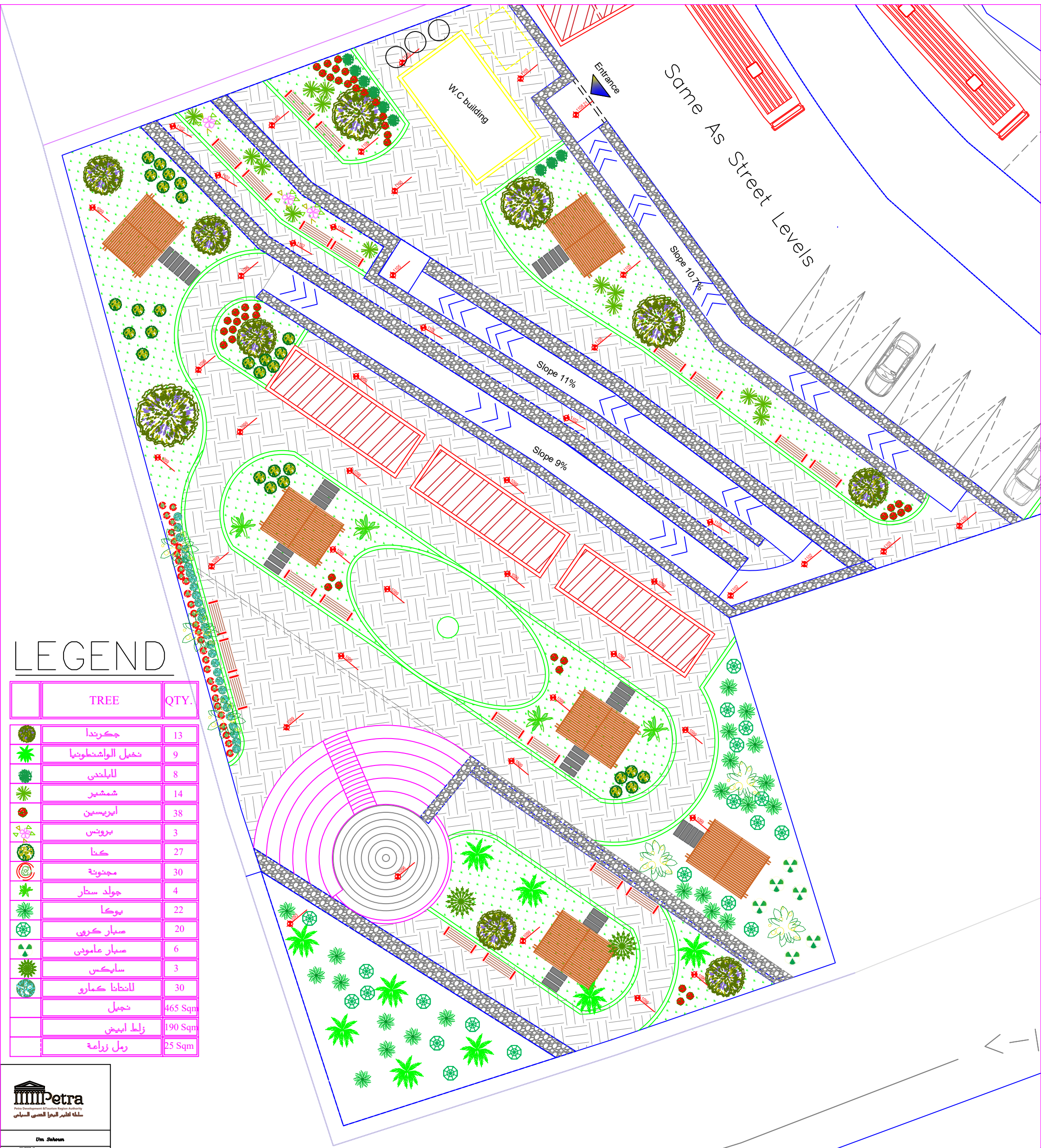
Dimension					Reinforcement															Quantities PER m RUN		MAX BEARING PRESS. kg/cm ²	MAX WALL HEIGHT																				
H	B	C	D	t	BAR A1					BAR A2					BAR A3					BAR D1					D2	B1	F1	F2	L	CON cu.m	STEEL kg												
CM	CM	CM	CM	CM	size mm	sp cm	a cm	b cm	LENG	size mm	sp cm	a cm	b cm	LENG	size mm	sp cm	a cm	b cm	LENG	size mm	sp cm	a cm	b cm	LENG	size mm	sp cm	LENG	size mm	sp cm	LENG	size mm	sp cm	NO.										
150	75	20	30	25	-	-	-	-	-	-	-	-	-	-	12	30	140	35	175	12	30	140	20	160	-	-	-	-	-	12	30	65	12	30	65	10	30	18	0.53	26.79	0.62	150	
200	110	25	30	25	-	-	-	-	-	-	-	-	-	-	12	25	190	40	230	12	25	190	20	210	-	-	-	-	-	12	25	100	12	25	100	10	30	24	0.75	39.84	0.86	200	
250	145	30	30	25	-	-	-	-	-	12	40	120	45	165	12	40	240	20	260	12	20	240	20	260	-	-	-	-	-	12	20	135	12	20	135	10	30	28	0.99	53.12	1.09	250	
300	170	40	30	30	-	-	-	-	-	12	25	135	60	195	12	25	290	20	310	12	12.5	290	20	310	-	-	-	-	-	12	12.5	160	12	12.5	160	12	30	35	1.25	98.39	1.33	300	
350	205	45	35	35	-	-	-	-	-	16	30	165	70	235	16	30	340	30	370	12	15	340	20	360	-	-	-	-	-	12	15	195	15	15	195	12	30	40	1.66	124.58	1.57	350	
400	240	50	40	40	16	45	80	80	160	16	45	175	30	205	16	45	240	30	270	12	15	75	20	95	12	15	355	16	45	355	12	15	230	20	15	230	12	30	44	2.13	155.73	1.82	400
450	275	60	45	45	16	37.5	85	95	180	16	37.5	190	30	220	16	37.5	270	30	300	12	12.5	80	20	100	12	12.5	400	16	37.5	400	12	12.5	265	20	12.5	265	12	30	50	2.66	201.96	1.99	450
500	310	70	50	45	20	45	110	105	215	20	45	200	35	235	20	45	300	35	335	12	15	85	20	105	12	15	445	20	45	445	12	15	300	25	15	300	12	30	55	3.13	247.51	2.17	500
550	340	85	55	50	20	45	115	125	240	20	45	225	35	260	20	45	330	35	365	12	15	90	20	110	12	15	490	20	45	490	12	15	330	25	15	330	12	30	60	3.73	271.25	2.31	550
600	370	100	60	55	20	37.5	120	145	265	20	37.5	245	35	280	20	37.5	360	35	395	12	12.5	95	20	115	12	12.5	535	20	37.5	535	12	12.5	360	25	12.5	360	12	30	64	4.38	341.22	2.45	600
650	405	105	65	60	25	45	160	155	315	25	45	260	40	300	25	45	390	40	430	16	15	110	30	140	16	15	580	25	45	580	16	15	395	30	15	395	16	30	71	5.12	521.60	2.69	650
700	435	110	75	65	25	45	170	165	335	25	45	280	40	320	25	45	420	40	460	16	15	120	30	150	16	15	620	25	45	620	16	15	425	30	15	425	16	30	75	6.08	556.85	2.98	700
750	470	115	85	75	25	37.5	180	180	360	25	37.5	300	40	340	25	37.5	450	40	490	16	12.5	130	30	160	16	12.5	660	25	37.5	660	16	12.5	460	30	12.5	460	16	30	79	7.32	688.95	3.24	750
800	505	120	95	80	25	37.5	190	190	380	25	37.5	325	40	365	25	37.5	480	40	520	16	12.5	140	30	170	16	12.5	700	25	37.5	700	16	12.5	495	30	12.5	495	16	30	84	8.50	734.94	3.50	800
850	540	130	105	90	25	37.5	200	210	410	25	37.5	350	40	390	25	37.5	510	40	550	16	12.5	150	30	180	16	12.5	740	25	37.5	740	16	12.5	530	32	12.5	530	16	30	89	9.95	814.38	3.69	850
900	580	140	115	100	25	37.5	215	230	445	25	37.5	370	40	410	25	37.5	540	40	580	16	12.5	165	30	195	16	12.5	775	25	37.5	775	16	12.5	565	32	12.5	565	16	30	92	11.78	859.86	3.94	900
950	630	150	130	110	25	30	225	250	475	25	30	390	40	430	25	30	570	40	610	16	10	175	30	205	16	10	815	25	30	815	16	10	620	30	10	620	16	30	98	13.73	1067.31	4.02	950
1000	700	160	140	120	25	30	235	270	505	25	30	410	40	450	25	30	600	40	640	16	10	185	30	215	16	10	855	25	30	855	16	10	690	32	10	690	16	30	105	16.04	1204.33	4.03	1000

Petra
Petra Development & Tourism Region Authority
سلطة اقليم البترا للتنمية السياحي

DRAWING TITLE:
RETAINING WALL
DETAILS

SCALE: 1/25
DRAWING NO.:

Landscape



LEGEND

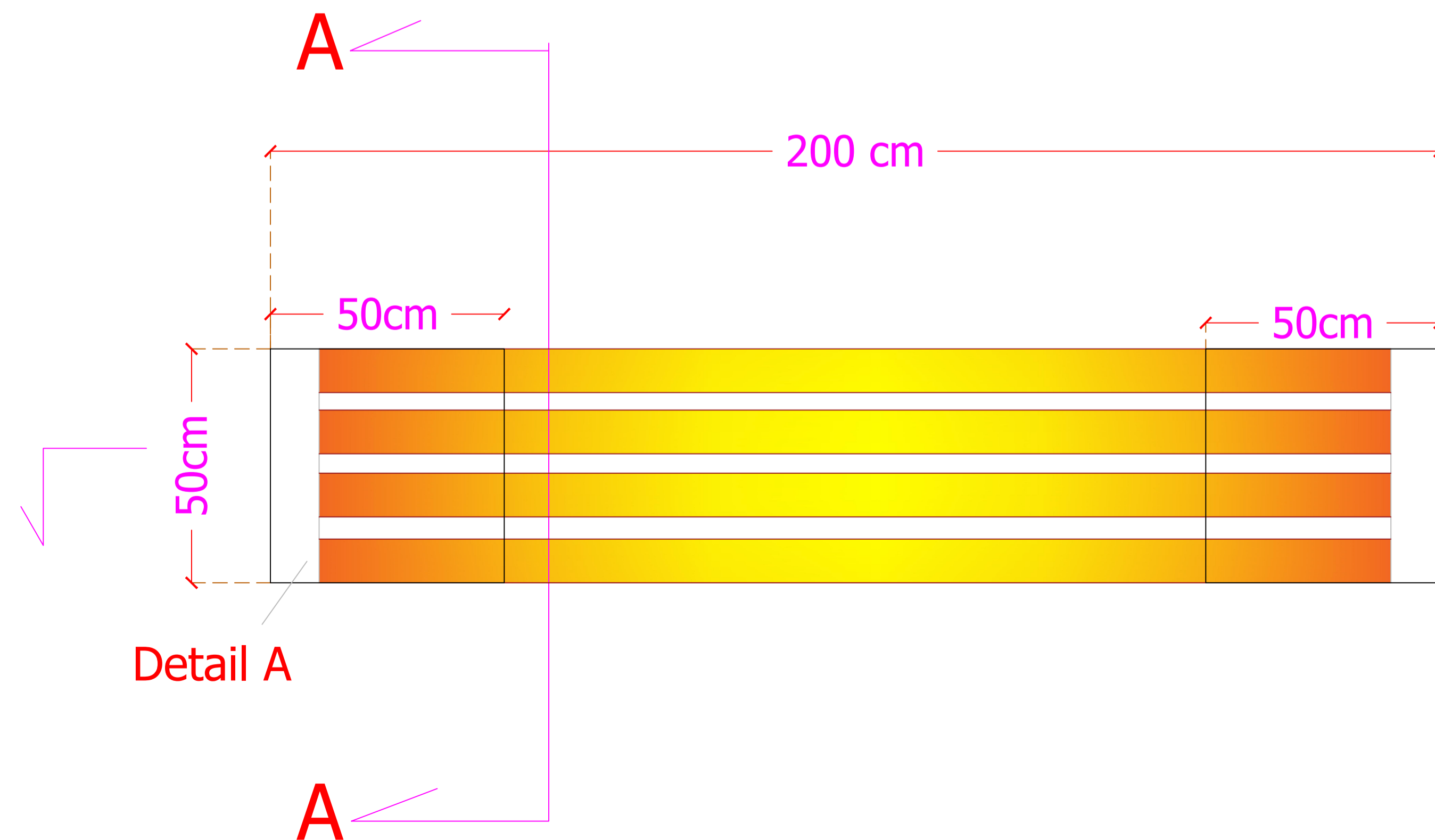
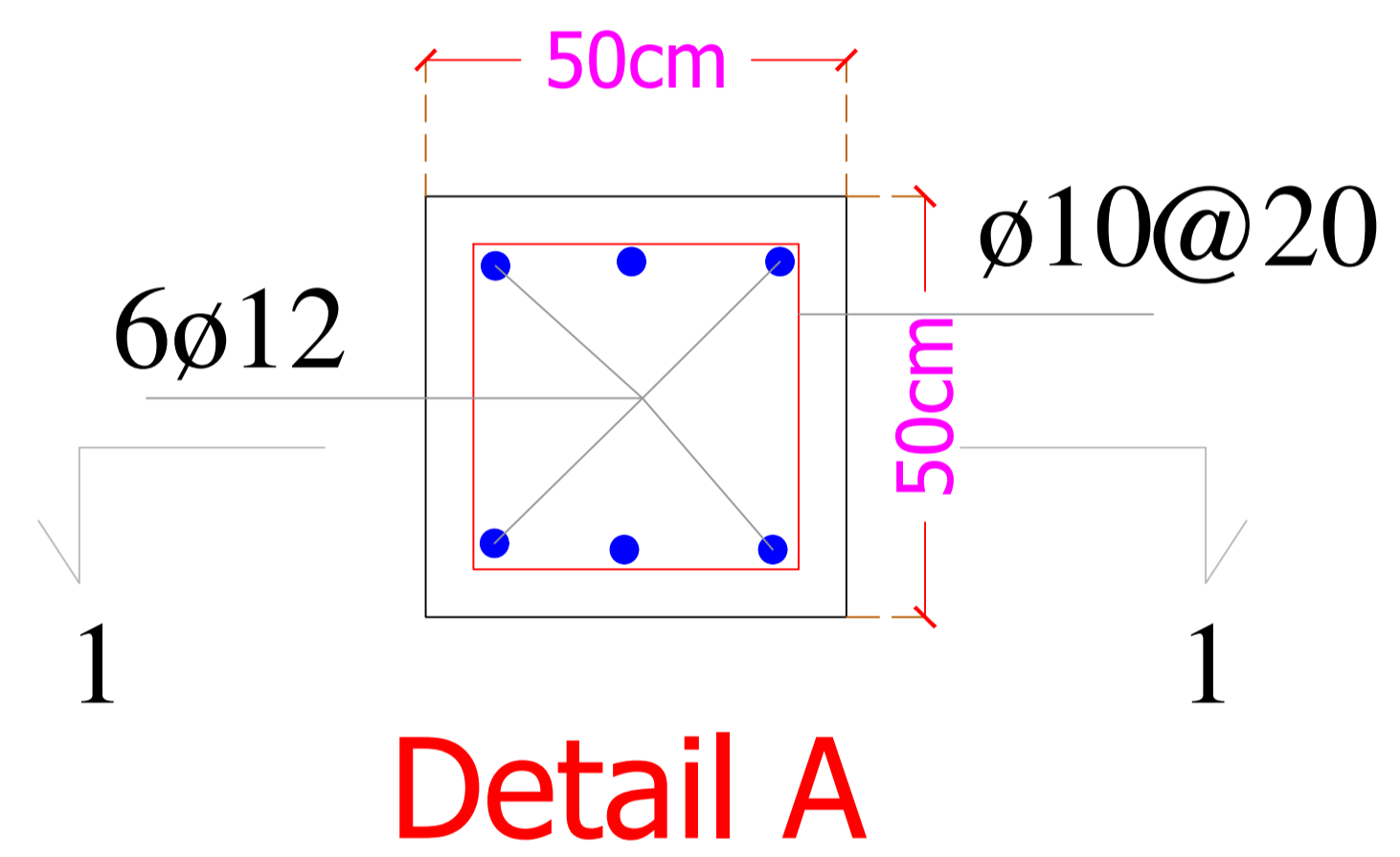
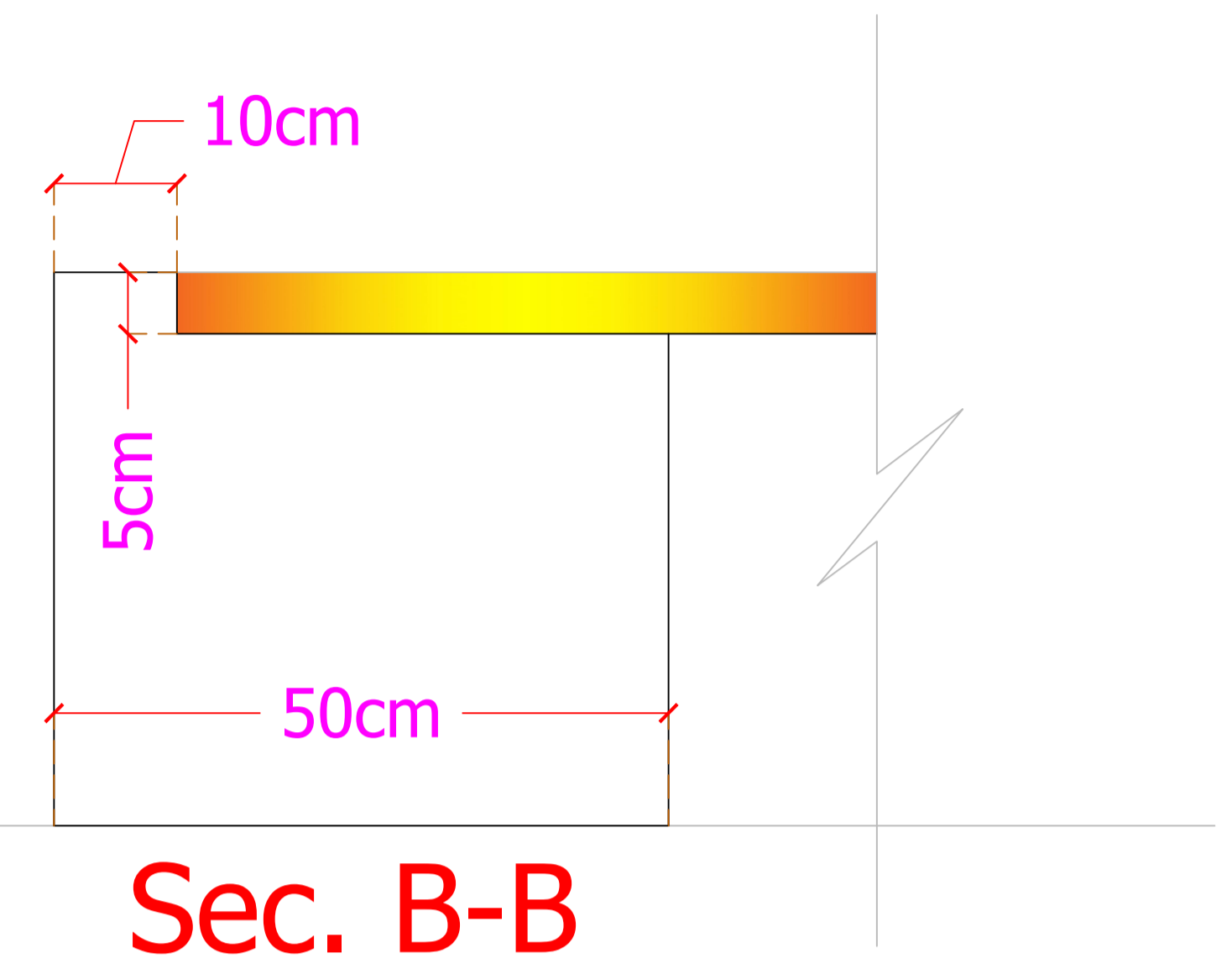
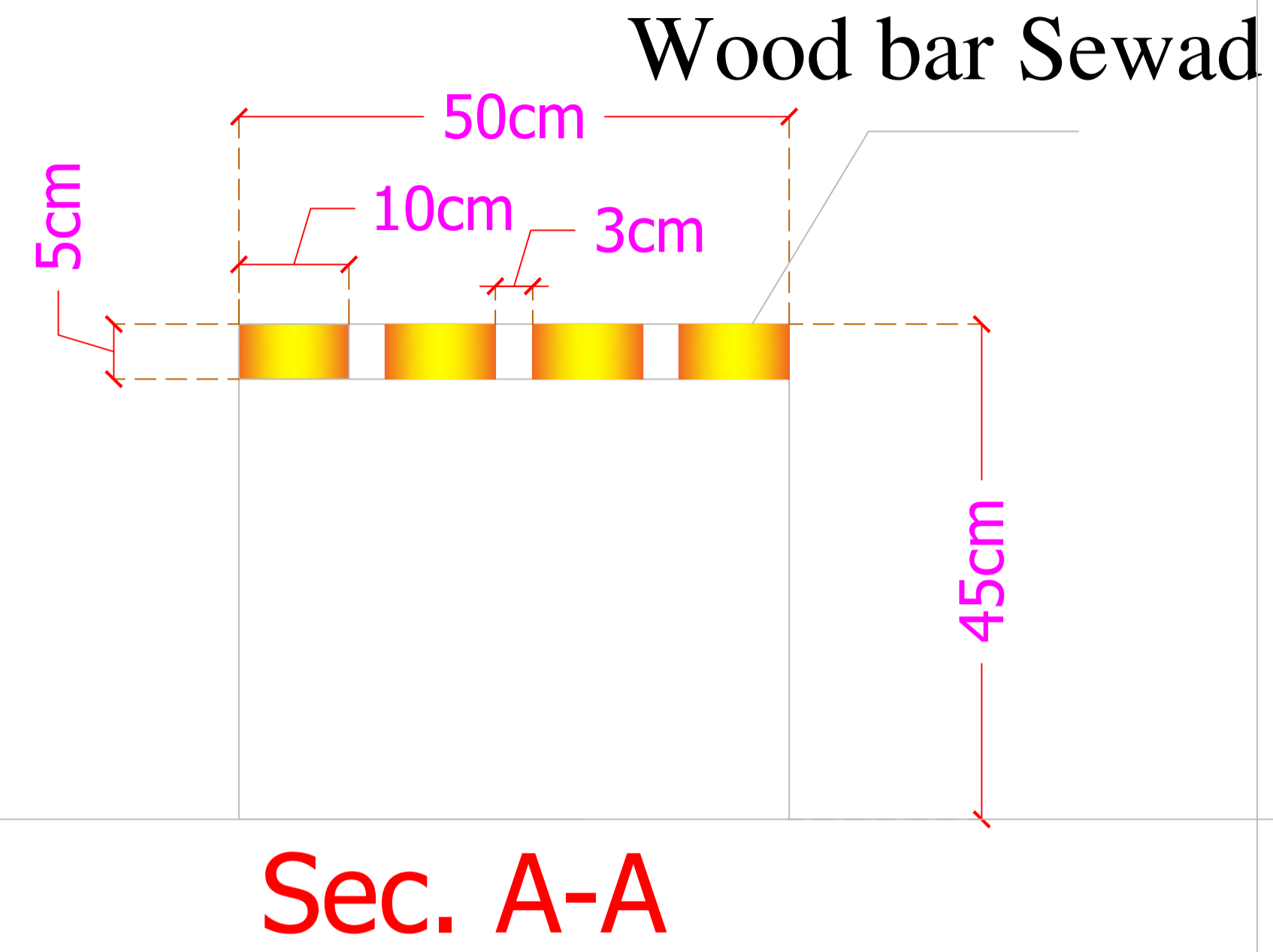
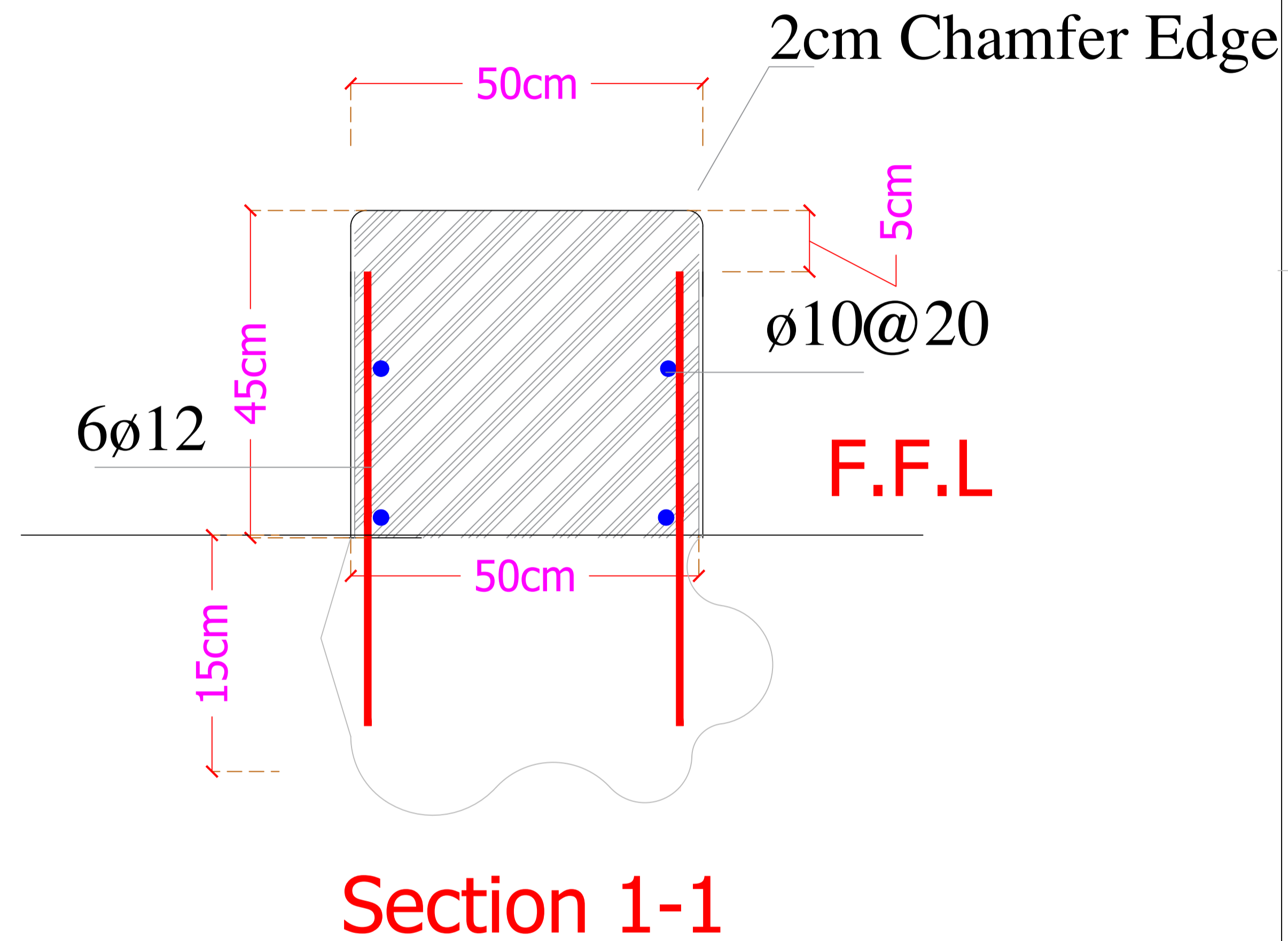
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	جكرندا 13
	تخيل الواشتطوتيا 9
	للبلندي 8
	شمشير 14
	امريسين 38
	برونس 3
	كنا 27
	مجنونة 30
	جولد ستار 4
	بوكا 22
	صبار كروي 20
	صبار عامودي 6
	سايبكس 3
	لانتانا كمارو 30
	نجيل 465 Sqm
	زلط ابيض 190 Sqm
	رمل زرامة 25 Sqm

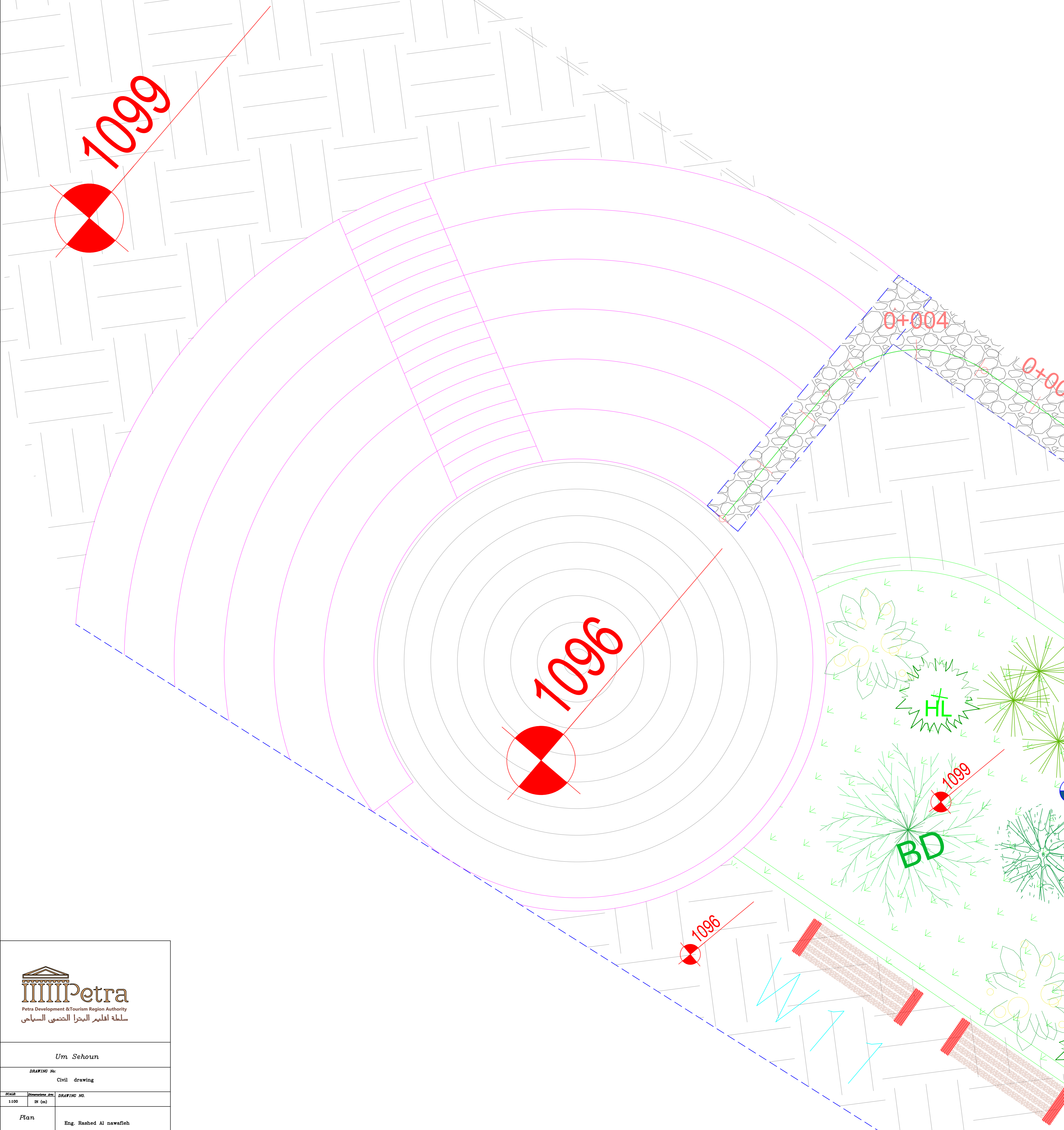
Petra
Petra Development & Tourism Region Authority
سلطة تطوير المنطقة السياحية

Dr. Saleem
Landscape Architect

Arch. - Mohamed Prift

WADI





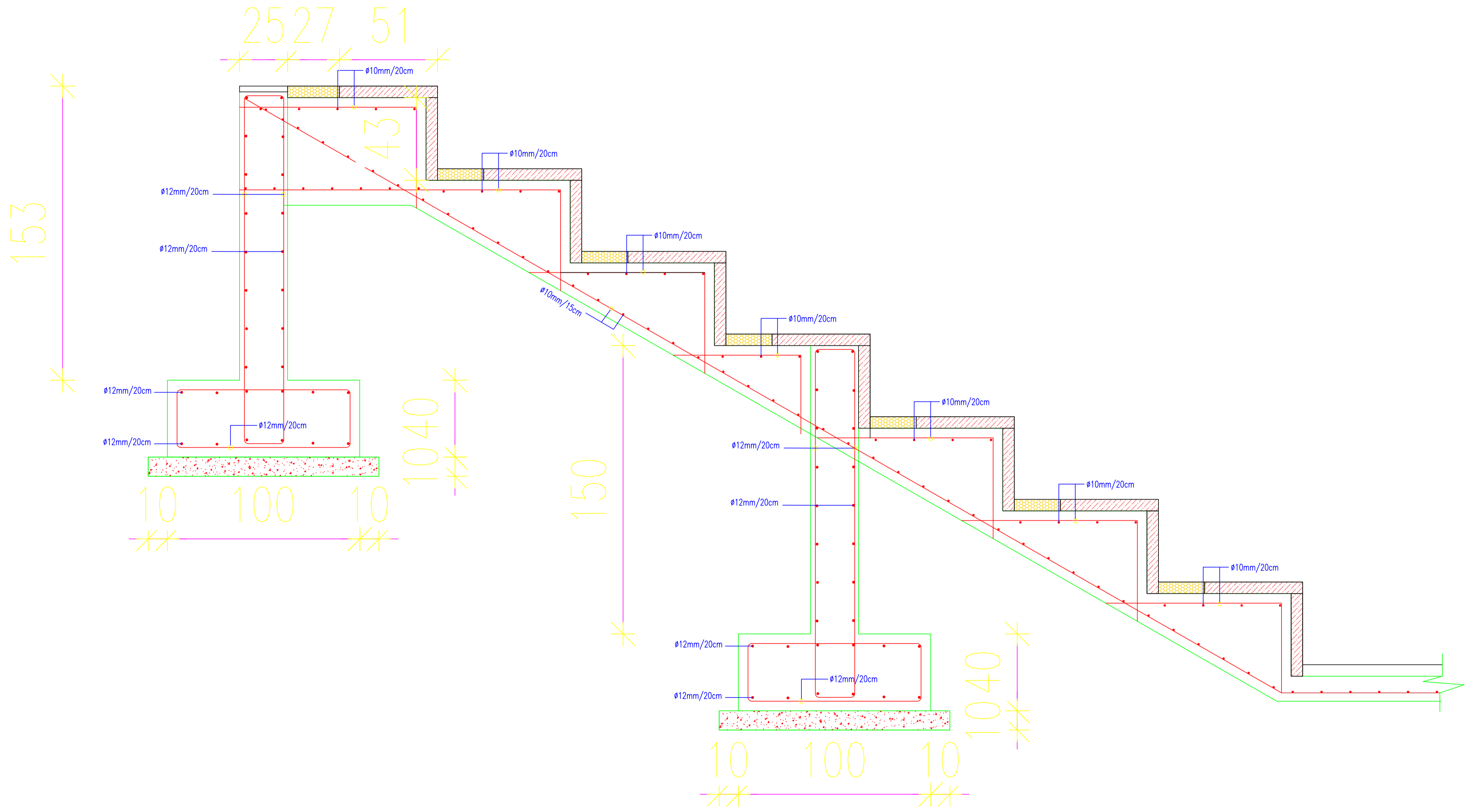
Petra Development & Tourism Region Authority
سلطة اقليم البترا للتنمية السياحي


Um Sehour

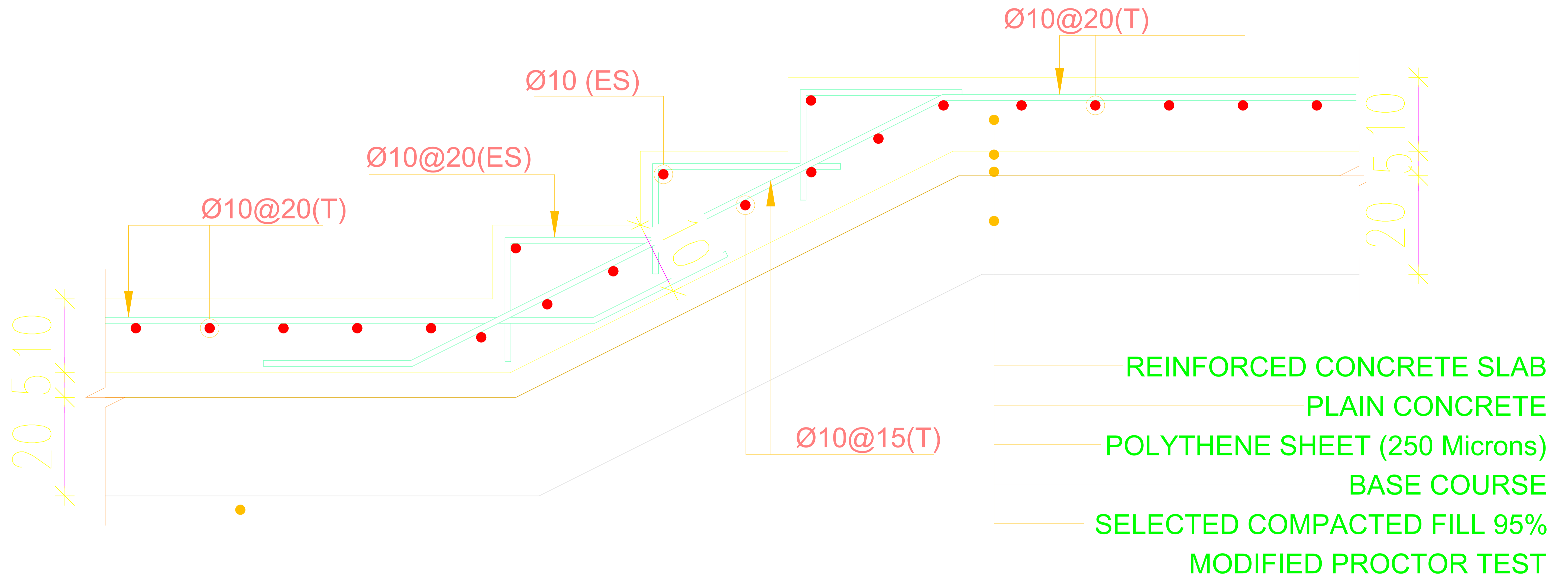
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Civil drawing

SCALE	Dimensions Unit	DRAWING NO.
1:100	IN (m)	


Plan
Eng. Rashed Al nawafleh



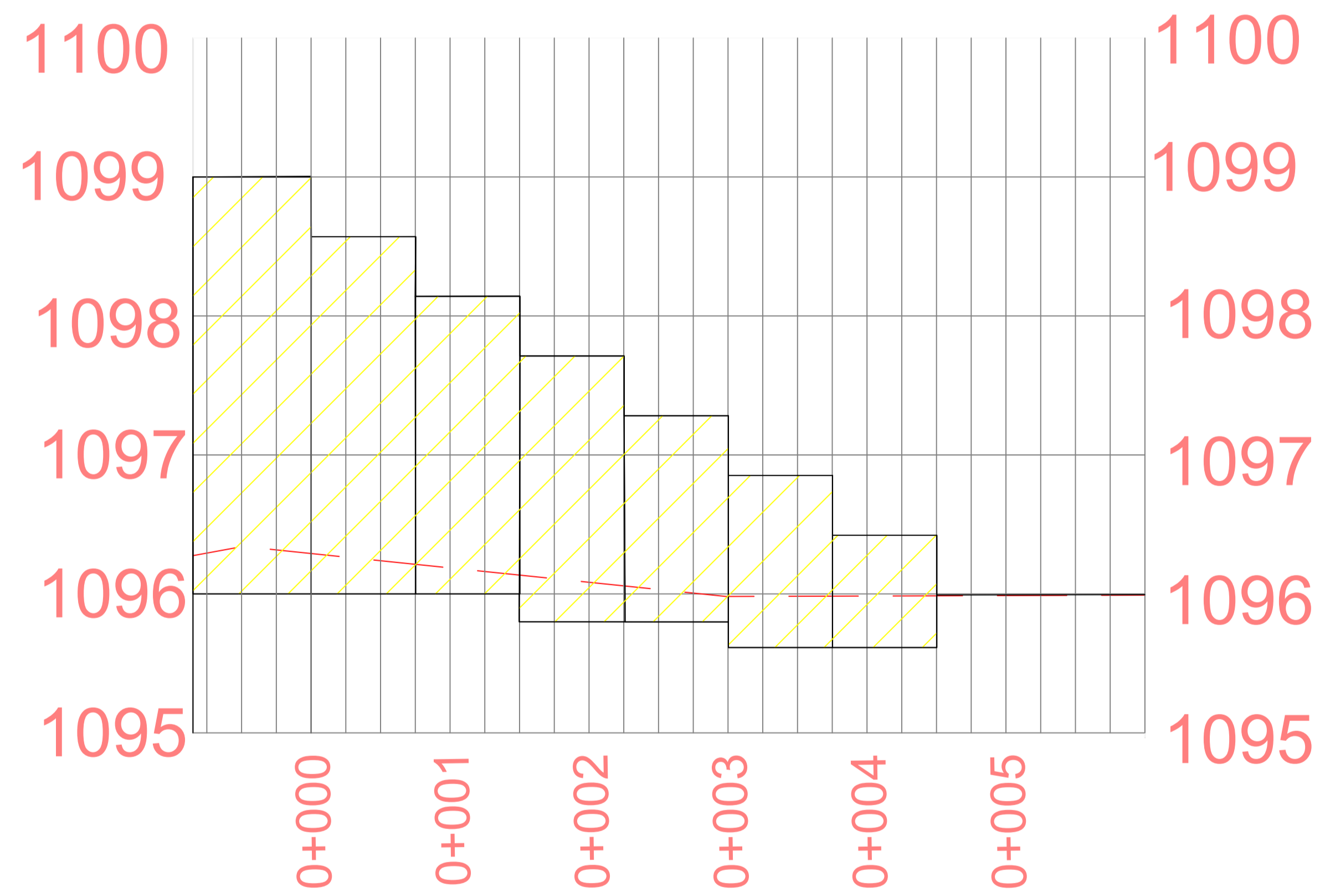
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<p>Um Sehoum</p>	
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<p>Plan</p>	
<p>Eng. Raheb Al nawafieh</p>	



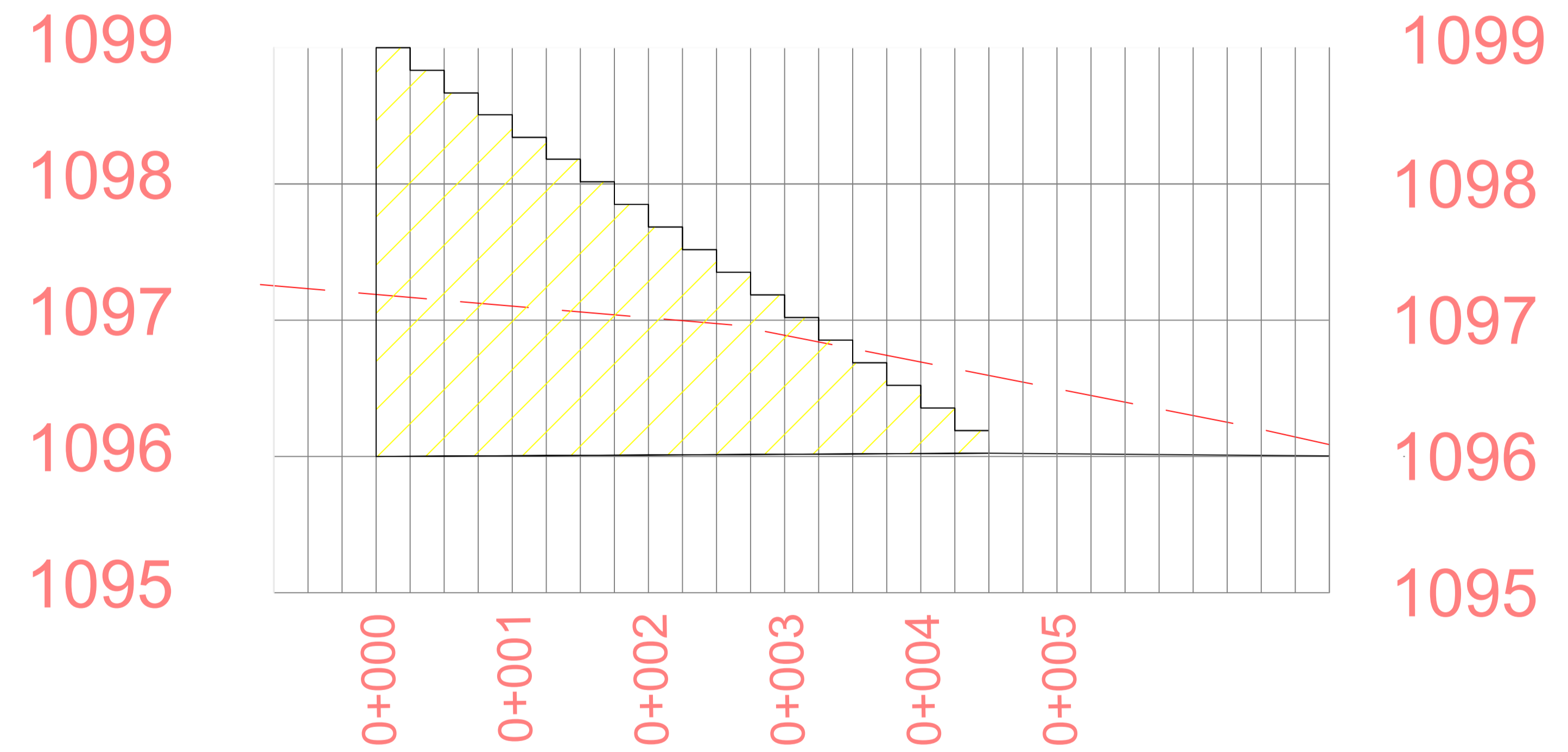
TYPICAL SECTION THROUGH STAIR ON GRADE

 Petra Development & Tourism Region Authority سلطة تطوير المنطقة السياحية	
Um Sehorun	
DRAWING No: Civil drawing	
SCALE	DRAWING No.
1:100	10
Plan	Eng. Raed Al nawafieh

Theater PROFILE



Stair PROFILE







DISTRIBUTION BOARD NAME: DLP-02																
LOCATION : PETRA_MA'AN										VOTLAGE & FREQ. : 3-PHASE, 400/230 V, 60 HZ						
Designation Load	Wire Size mm2	Phase Load in W			Trip Rating				Phase Load in W			Wire Size mm2	Designation Load			
		R	Y	B	CT NO.	CB (A)	R	Y	B	CB (A)	CT NO.			R	Y	B
Lighting	2.5	48			1	10				10	4	108			2.5	Lighting
Lighting	2.5		48		2	10				10	5		60		2.5	Lighting
Lighting	2.5			48	3	10				10	6			50	2.5	Lighting
Lighting	2.5	60			7	10				10	10	36			2.5	Lighting
Lighting	2.5		40		8	10				10	11		60		2.5	Lighting
Lighting	2.5			60	9	10				10	12		36		2.5	Lighting
Spare					13	10				20	16					Spare
Spare	-				14	10				20	17		-		-	Spare
Spare					15	10				20	18				-	Spare
Subtotal		108	88	108	32A, 3-PH MCCB				144	120	86		Subtotal			
Ø20mm PVC conduit for lighting, Ø25mm PVC conduit for socket circuits & MISC				CABLE SIZE : (5*16mm2)												
Total Connected Load W	252	208	194	Lighting			Socket Outlet	MISC	TOTAL							
CONNECTED LOAD W	654			Connected W	R	252	0	0	252							
					Y	208	0	0	208							
					B	194	0	0	194							
DEMAND LOAD W	654			DEM FACT			1	0.6	0.8							
PANEL LOAD KW	0.654			Demand W	R	252	0	0	252							
					Y	208	0	0	208							
					B	194	0	0	194							

DISTRIBUTION BOARD NAME: DLP-01																
LOCATION : PETRA_MA'AN										VOTLAGE & FREQ. : 3-PHASE, 400/230 V, 60 HZ						
Designation Load	Wire Size mm2	Phase Load in W			Trip Rating				Phase Load in W			Wire Size mm2	Designation Load			
		R	Y	B	CT NO.	CB (A)	R	Y	B	CB (A)	CT NO.			R	Y	B
DB1 (wc)	6	2000			1	30				10	4	90			2.5	Lighting
Lighting	2.5		80		2	10				10	5		70		2.5	Lighting
Lighting	2.5			72	3	10				10	6			54	2.5	Lighting
Lighting	2.5	70			7	10				10	10	54			2.5	Lighting
Lighting	2.5		70		8	10				10	11		48		2.5	Lighting
Lighting	2.5			60	9	10				10	12			42	2.5	Lighting
Spare					13	10				20	16	1000			2.5	Elec. Door
Spare	-				14	10				20	17		1000		2.5	Pump1
Spare					15	10				20	18			1000	2.5	Pump2
Subtotal		2070	150	132	32A, 3-PH MCCB				1144	1118	1096		Subtotal			
Ø25-32mm PVC conduit for lighting, Ø25-32mm PVC conduit for power circuits & MISC				CABLE SIZE : (4*10mm2+6mm2)												
Total Connected Load W	3214	1268	1228	Lighting			Socket Outlet	MISC	TOTAL							
CONNECTED LOAD W	5710			Connected W	R	252	0	2000	2252							
					Y	208	0	1000	1208							
					B	194	0	1000	1194							
DEMAND LOAD W	3854			DEM FACT			1	0.6	0.8							
PANEL LOAD KW	3.854			Demand W	R	252	0	1600	1852							
					Y	208	0	800	1008							
					B	194	0	800	994							



Um Seheron
 Mechanical Drawing
 100

