

LIST OF STRUCTURAL DRAWINGS

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NOTES:

PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
1	1-9-2024	H.S	SUPSEDE S-00
REV	MARK	DATE	MADE BY
			REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
MP CE	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	LIST OF STRUCTURAL DRAWINGS		
DRAWN BY : ST.TEAM		SCALE: N.T.S	
DESIGNED BY : ST.TEAM		DATE :DEC.-2023	
CHECKED BY : H.A.		PROJECT No.	DRAWING No.
APPROVED BY: H.A.			S-00-1

CODE OF PRACTICE

- Design of the structure is done according to the JORDANIAN CODE FOR LOADS AND FORCES & JORDANIAN CODE FOR REINFORCED CONCRETE.

DESIGN LIVE LOADS

The following loads were used in the design phase:

LIVE LOAD:
Flooring 2.5 KN/m2
Stairs 4.0 KN/m2
VRF outdoor units 2.5 KN/m2
Files Archive 5.0 KN/m2

DRAWINGS

- 1- Scaling from the drawings is not accepted.
- 2- Structural drawings shall be read in conjunction with Architectural, Mechanical and Electrical drawings.
- 3- Sleeves and openings smaller than 200×200 mm are not shown on the structural drawings. For any required openings refer to Architectural, Mechanical and Electrical drawings.
- 4- Contractor shall prepare working drawings and bar bending schedules for reinforcement in a format agreed with the engineer before construction.
- 5- Drawings are not necessarily to scale.
- 6- Chamfers for fair face concrete are not shown on Structural drawings. Reference should be made to Architectural details for such purpose.
- 7- Where conflict is noticed between structural plans and any other descipline, structural designer should be consulted.

REINFORCEMENT

- 1- All bars shall be deformed high strength steel,with Yield Strength equal to: fy = 420 MPa Except 8mm diameter bars with Yield Strength shall be fy=275 MPa.
- 2- Reinforcement shall comply with Jordanian Standards.
- 3- Reinforcement shall be placed as shown on the drawings and in the lengths needed or specified.
- 4- Where bar lengths are stated they shall be placed as shown on the practical bar length and shall be employed with staggered lap splices. Lap length shall be 55 times bar diameter.
- 5- Bar crank shall not exceed 1:12.

REINFORCED CONCRETE

The following type of reinforced concrete shall be employed:

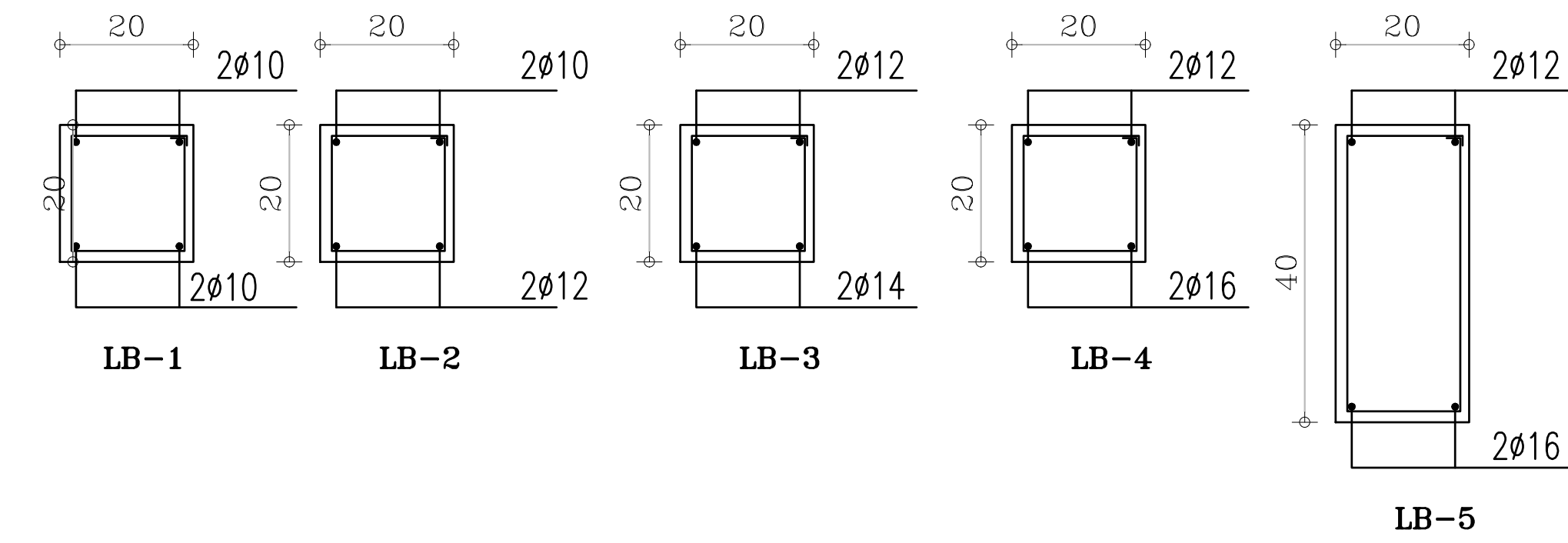
- Grade 25 concrete of characteristic cube strength equal to 25 MPa, minimum cement content of 275 kilograms per cubic meter, and a maximum Water : Cement ratio of 0.50. For Lintel Beams and Stairs on grade. Normal Portland Cement shall be use.
- Grade 35 (FAIR FACE BOTH SIDES) concrete of characteristic cube strength equal to 35 MPa, minimum cement content of 350 kilograms per cubic meter, and a maximum Water : Cement ratio of 0.50. For Fences & for all retaining walls. Normal Portland Cement shall be used. For Septic Tank, Water Tank and Rainwater Collection Tank, Sulfate Resistance Cement shall be used with additives to prevent leakage (للنشمان عه خرسانة).
- Grade 40 concrete of characteristic cube strength equal to 40 MPa, minimum cement content of 350 kilograms per cubic meter, and a maximum Water : Cement ratio of 0.45. For Slabs, Beams, Shear Walls,Columns, Stairs, Tie Beams, Slab on grade, and Foundations. Normal Portland Cement shall be used
** Characteristic Strength as defined by a 150 mm cube at age of 28 days.

PLAIN CONCRETE

The following type of plain concrete shall be employed:

- Grade 15 concrete of characteristic cube strength equal to 15 MPa, minimum cement content of 200 kilograms per cubic meter, and a maximum Water : Cement ratio of 0.45. To be used for blinding concrete under foundations.
- *Characteristic Strength as defined by a 150 mm cube at age of 28 days.

SECTIONS OF LINTEL BEAMS



SPAN (L) (mm)	NUMBER OF BLOCKS ABOVE LINTEL BEAM				
	2BLOCKS OR LESS	3 TO 4	5 TO 6	7 TO 8	9 TO 10
1200 OR LESS	LB-1	LB-1	LB-1	LB-1	LB-1
1201 – 1800	LB-1	LB-1	LB-1	LB-1	LB-2
1801 – 2400	LB-1	LB-1	LB-2	LB-2	LB-2
1401 – 3000	LB-1	LB-2	LB-4	LB-5	LB-5
3001 – 3600	LB-2	LB-4	LB-5	LB-5	LB-5

NOTE:

- 1. Lintel beams width is 10, 15 or 20 cm, according to the wall thickness.
- 2. All stirrups for lintel beams are Ø10 @ 20 cm
- 3. Bottom and top bars shall be continuous.

COVER

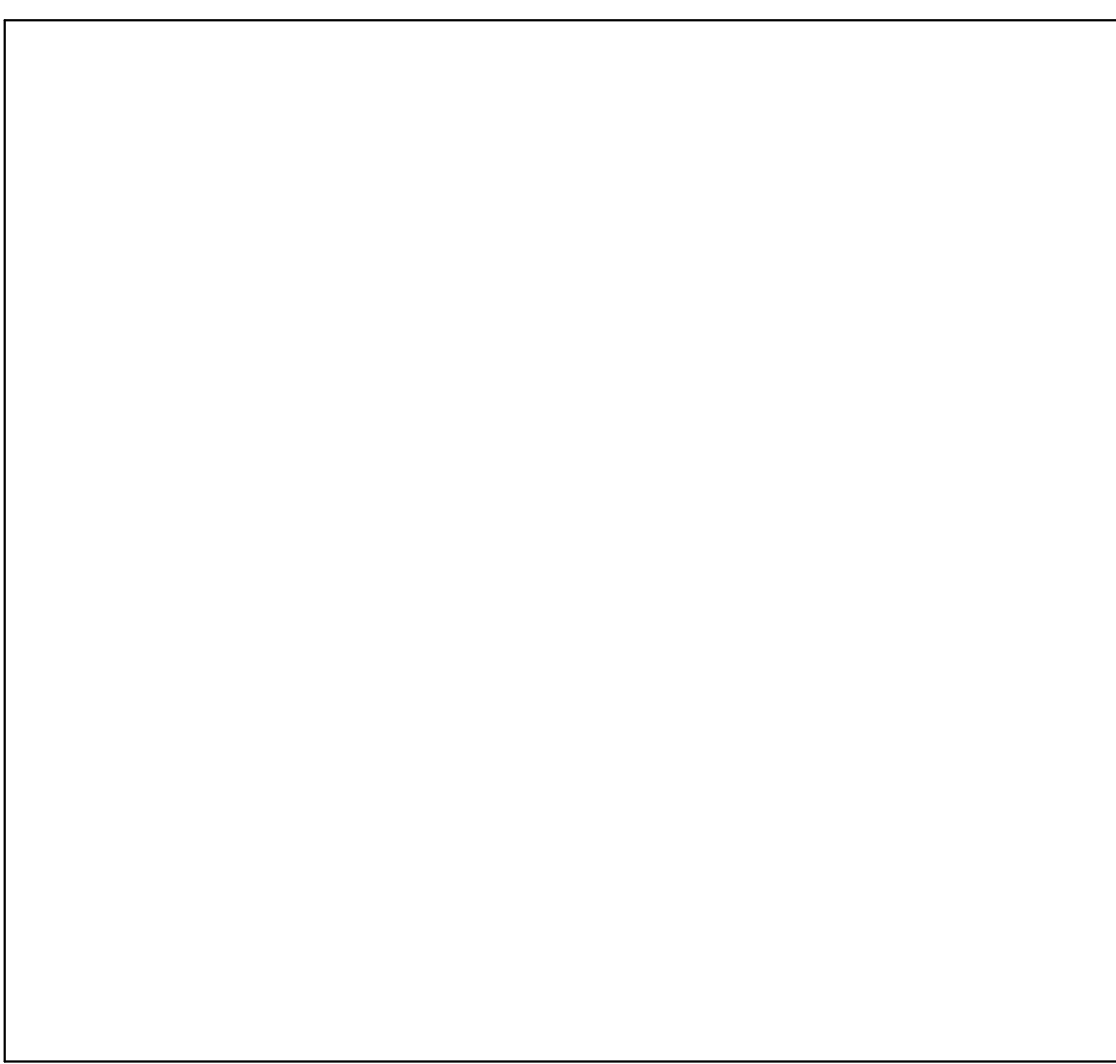
Clear concrete cover to reinforcement shall be:
70 mm for concrete below grade.
50 mm for basement walls.
20 mm for basement walls/ internal face.
20 mm for slabs & staircase
40 mm for beams
40 mm for columns

AGGREGATES

Aggregate sizes shall comply with Jordanian specifications
Aggregate shall be Chloride (Salt) free.

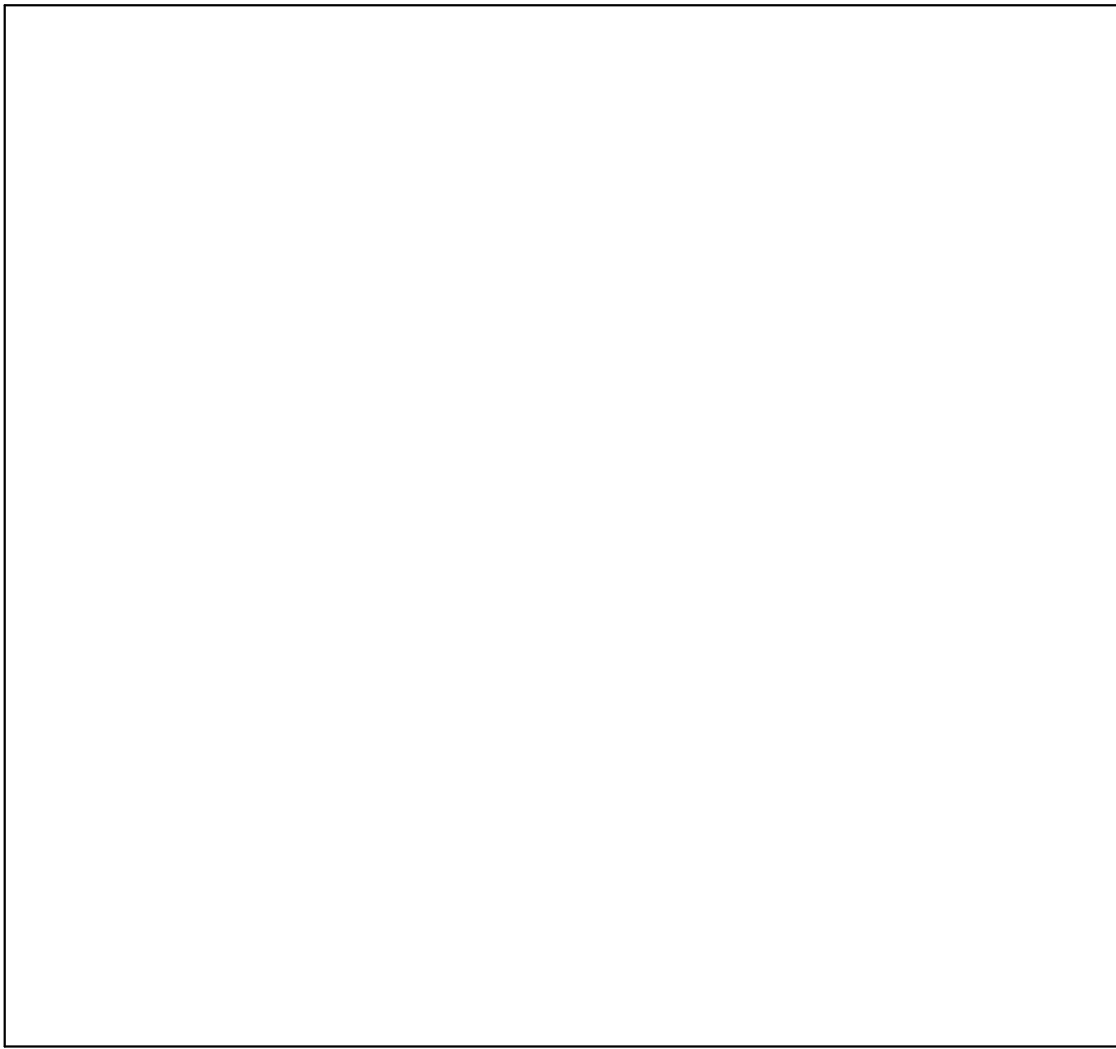
FOUNDATIONS

- With Reference to *SOUTHERN ENGINEERING LABS* Report No.ب/٢٠٢٣٠٠٢ ,dated 18/02/2023,Bearing capacity of the soil at the foundation level is **3.0 Kg/cm²**,with minimum depth of 1.0 m from the surrounding ground level around the building.
- The Geo-technical consultant should be informed after finishing the excavations to verify information stated in the soil test report and to confirm the bearing capacity at foundation levels at the contractor's cost.
- Contractor should comply with ALL recommendations stated in the soil report.
- BOTH excavation and neighbors wall are contractor responsibility.
- The foundations and columns have been designed to carry ***FIVE FLOORS***



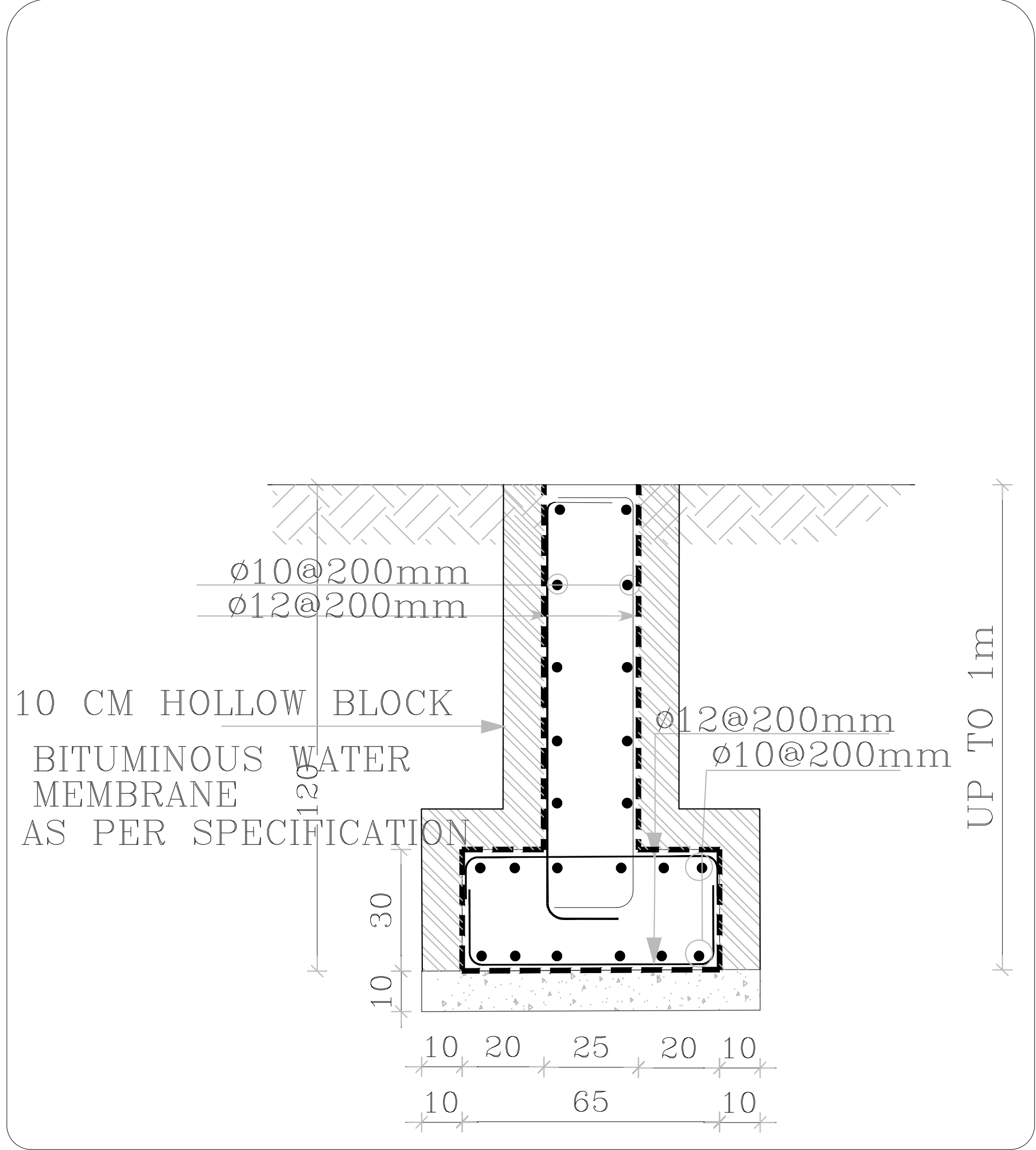
NOTES:

PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
1	1-9-2024	H.S	SUPERSEDE S-01
REV	MARK	DATE	MADE BY
REMARKS			
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	GENERAL STRUCTURAL NOTES		
DRAWN BY : ST.TEAM		SCALE : N.T.S	
DESIGNED BY : ST.TEAM		DATE : DEC.-2023	
CHECKED BY : H.A.		PROJECT No.	DRAWING No.
APPROVED BY: H.A.			S-01-1

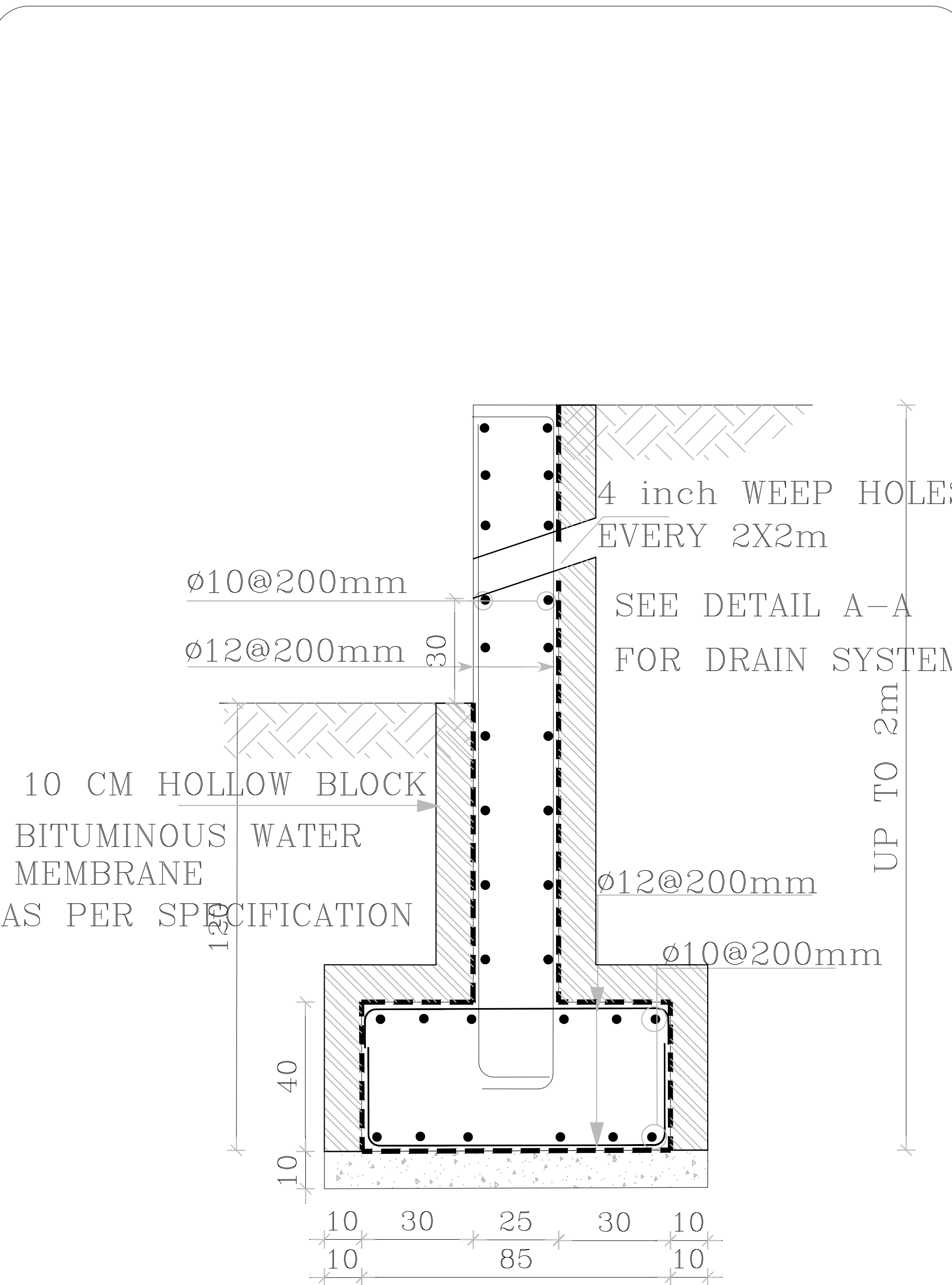


NOTES:

PLOT NO		1	
DISTRICT		KARAK	
BASIN		14 TALAT EAWAHAD	
1	1-9-2024	H.S	SUPERSEDE S-03
REV. MARK	DATE	MADE BY	REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL 5829640-5829641 FAX 5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	SITE PLAN STRUCTURAL PLAN		
DRAWN BY : ST.TEAM		SCALE:1:200	
DESIGNED BY : ST.TEAM		DATE : DEC.-2023	
CHECKED BY : H.A.		PROJECT No.	DRAWING No.
APPROVED BY: H.A.			S-03-1

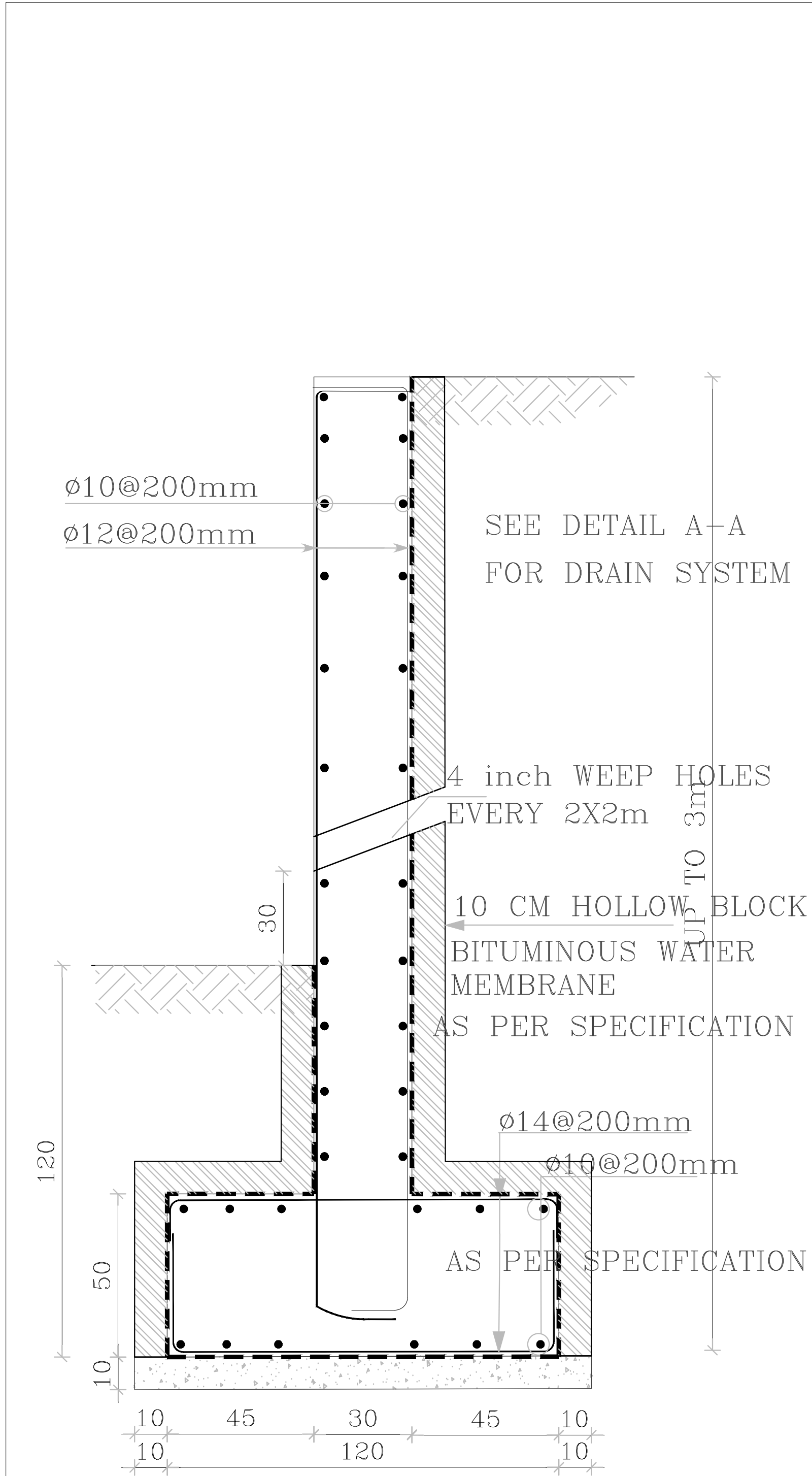


RW1
SCALE 1:25

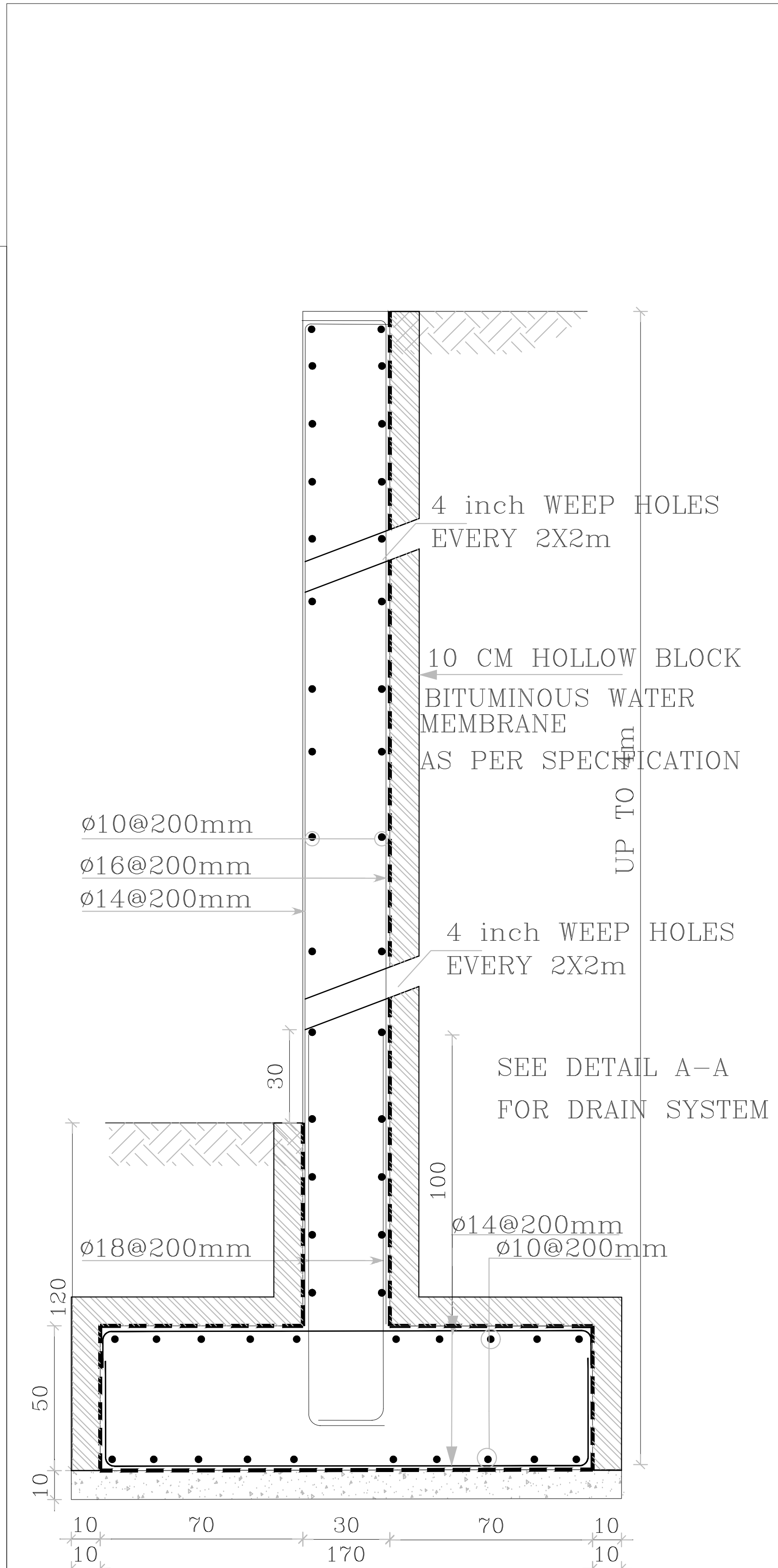


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SCALE 1:25

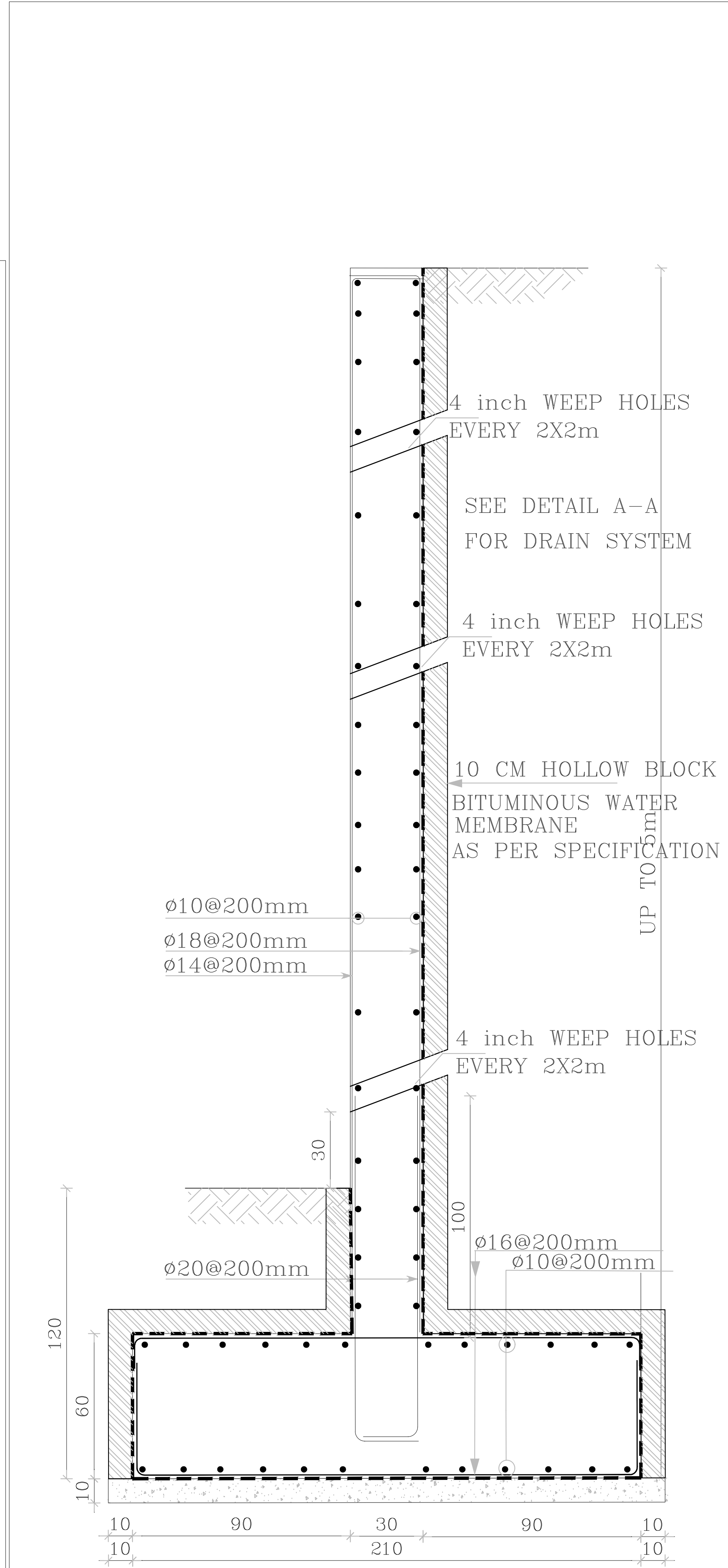
RETAINING WALLS DESIGN PARAMETERS:
Bearing Capacity = 1.80 Kg/cm²
fcu = 30 MPa
Ko = 0.5
Ka = 0.33



RW3
SCALE 1:25



RW4
SCALE 1:25

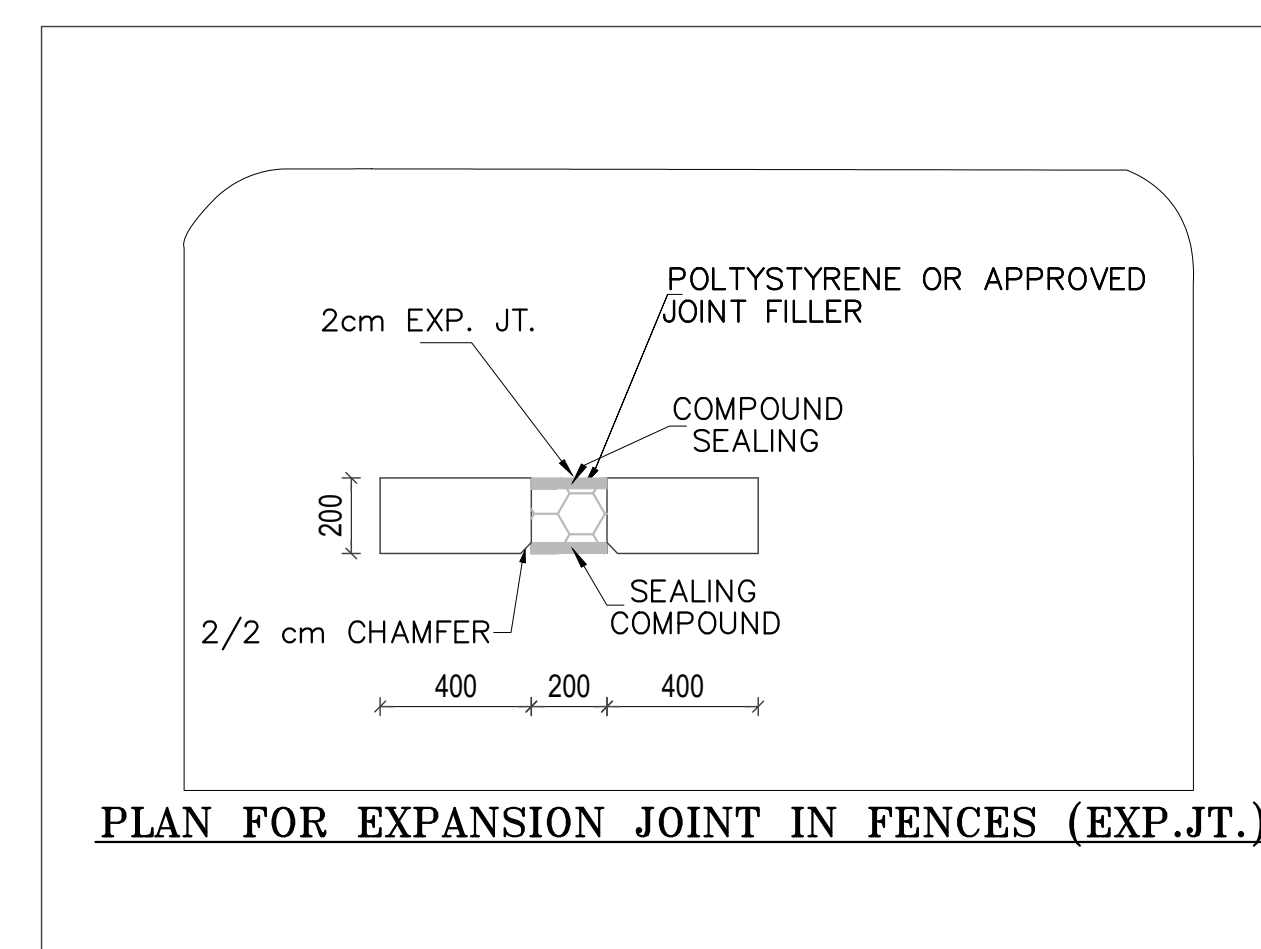
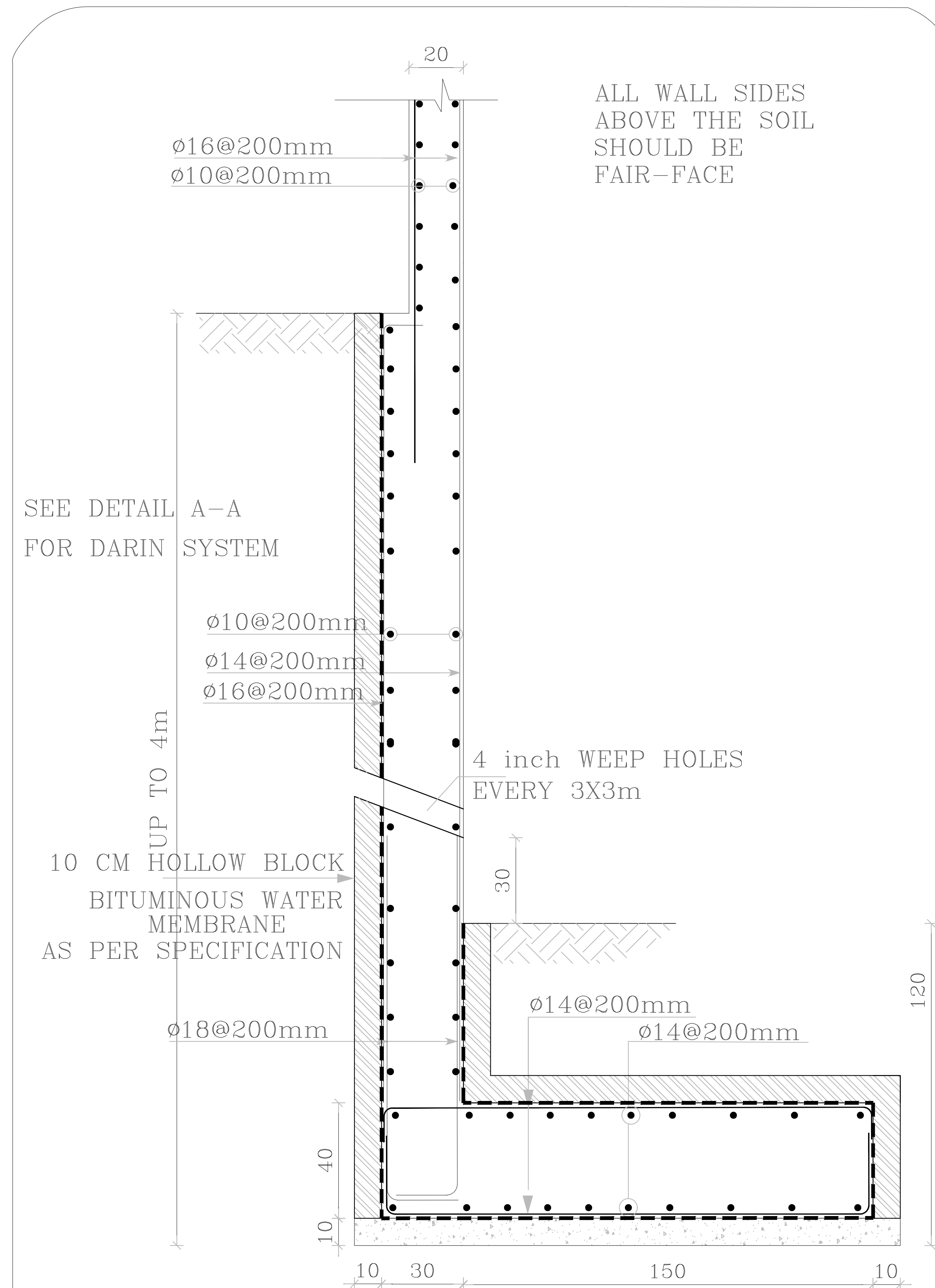
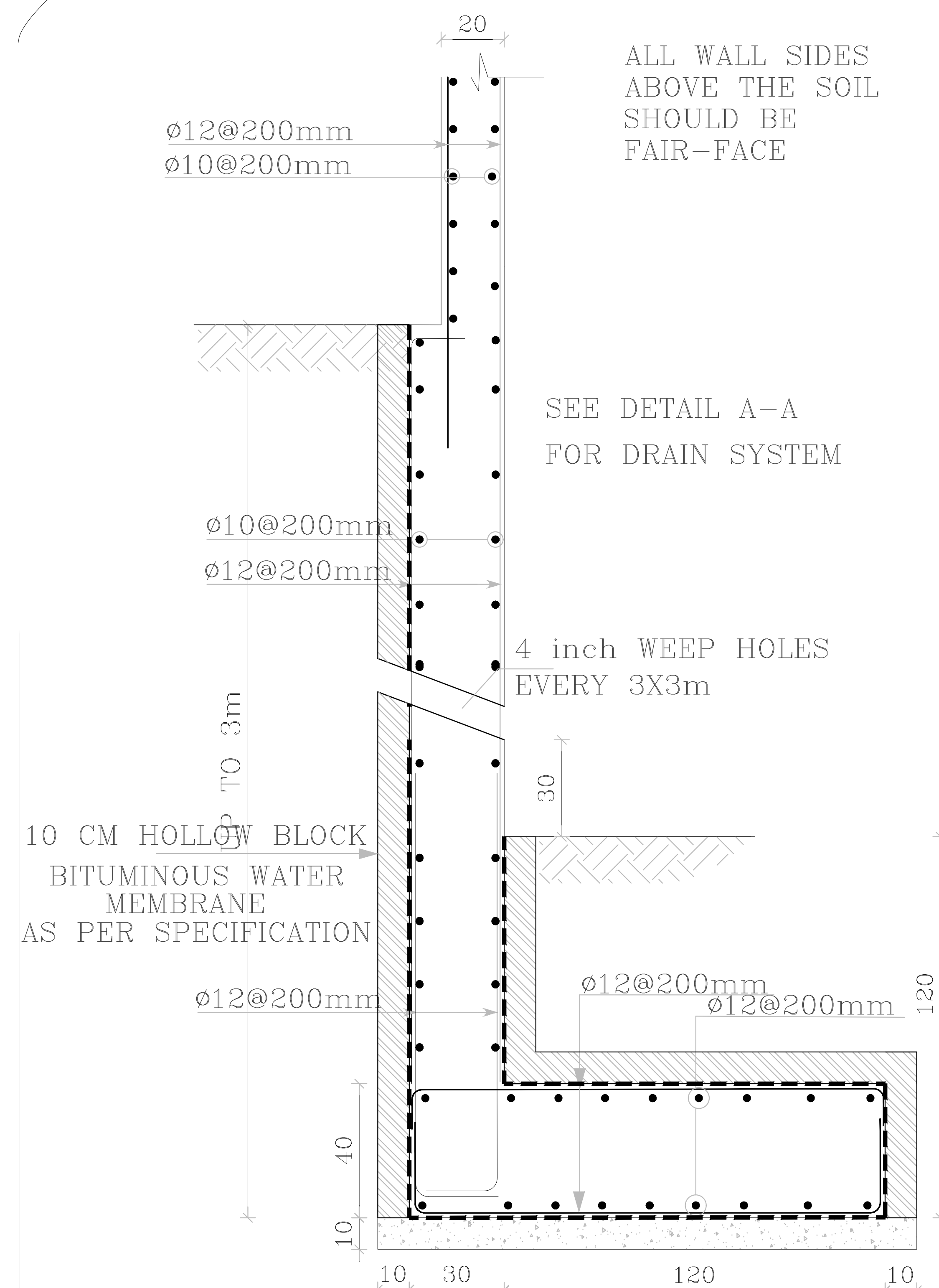
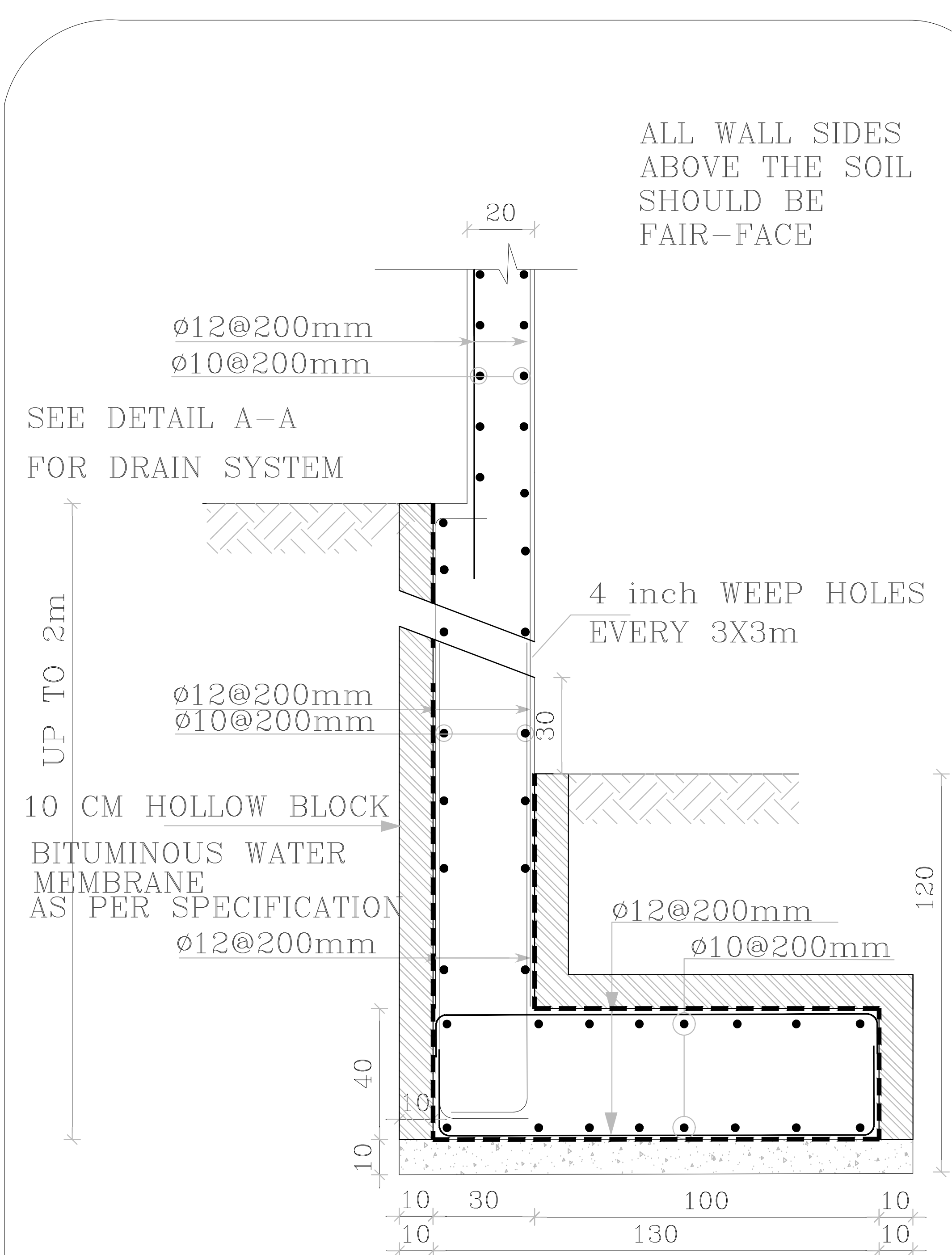
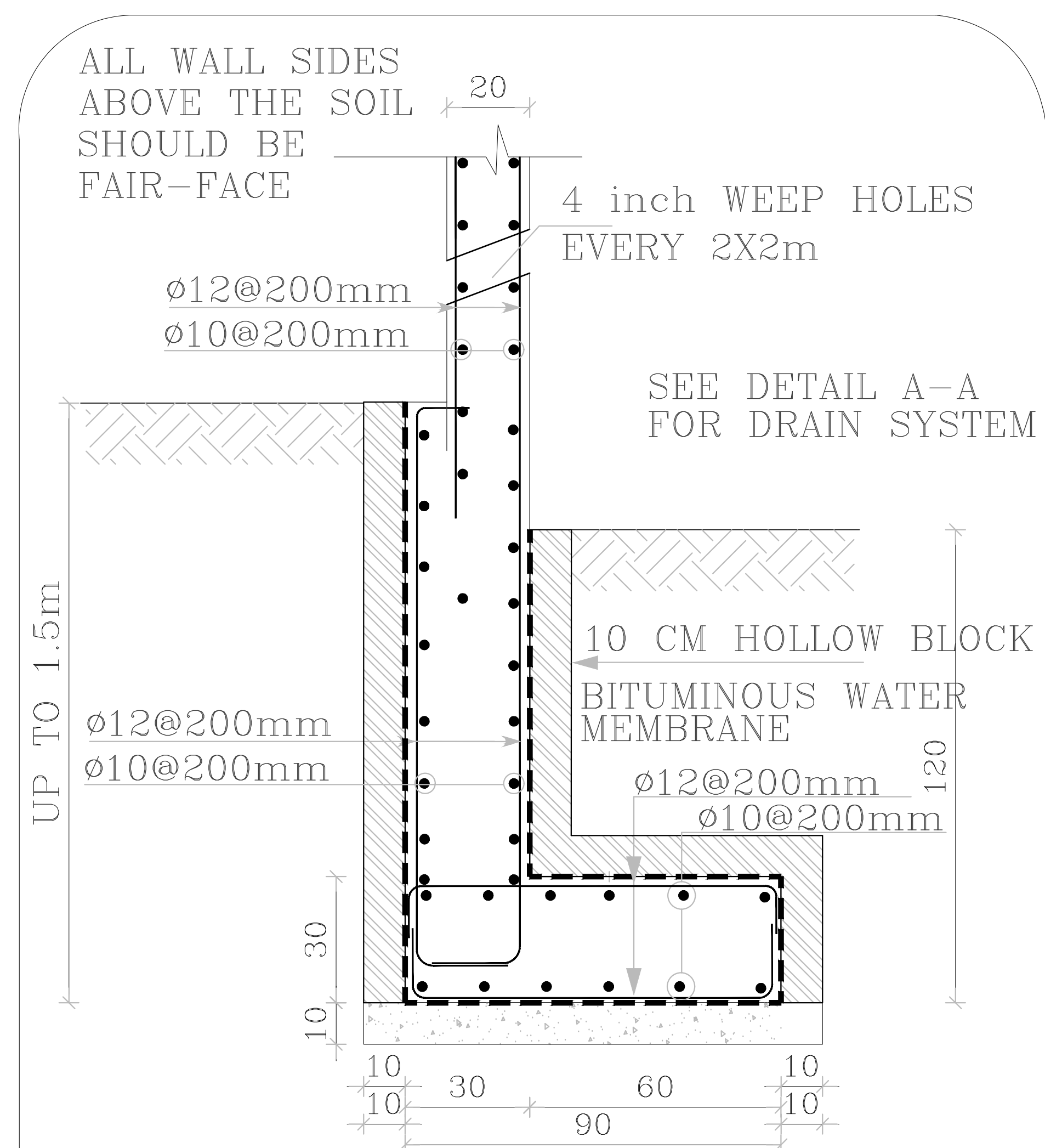


RW5
SCALE 1:25



NOTES:

PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY		REMARKS	
CLIENT		THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
M P C E		MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo			
PROJECT		NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY			
DRG. TITLE		SITE STRUCTURAL DETAILS-01			
DRAWN BY : STRUC.T				SCALE: 1:100	
DESIGNED BY : H.S				DATE : DEC.-2023	
CHECKED BY : H.S				PROJECT No.	
APPROVED BY : H.S				DRAWING No. S-04	



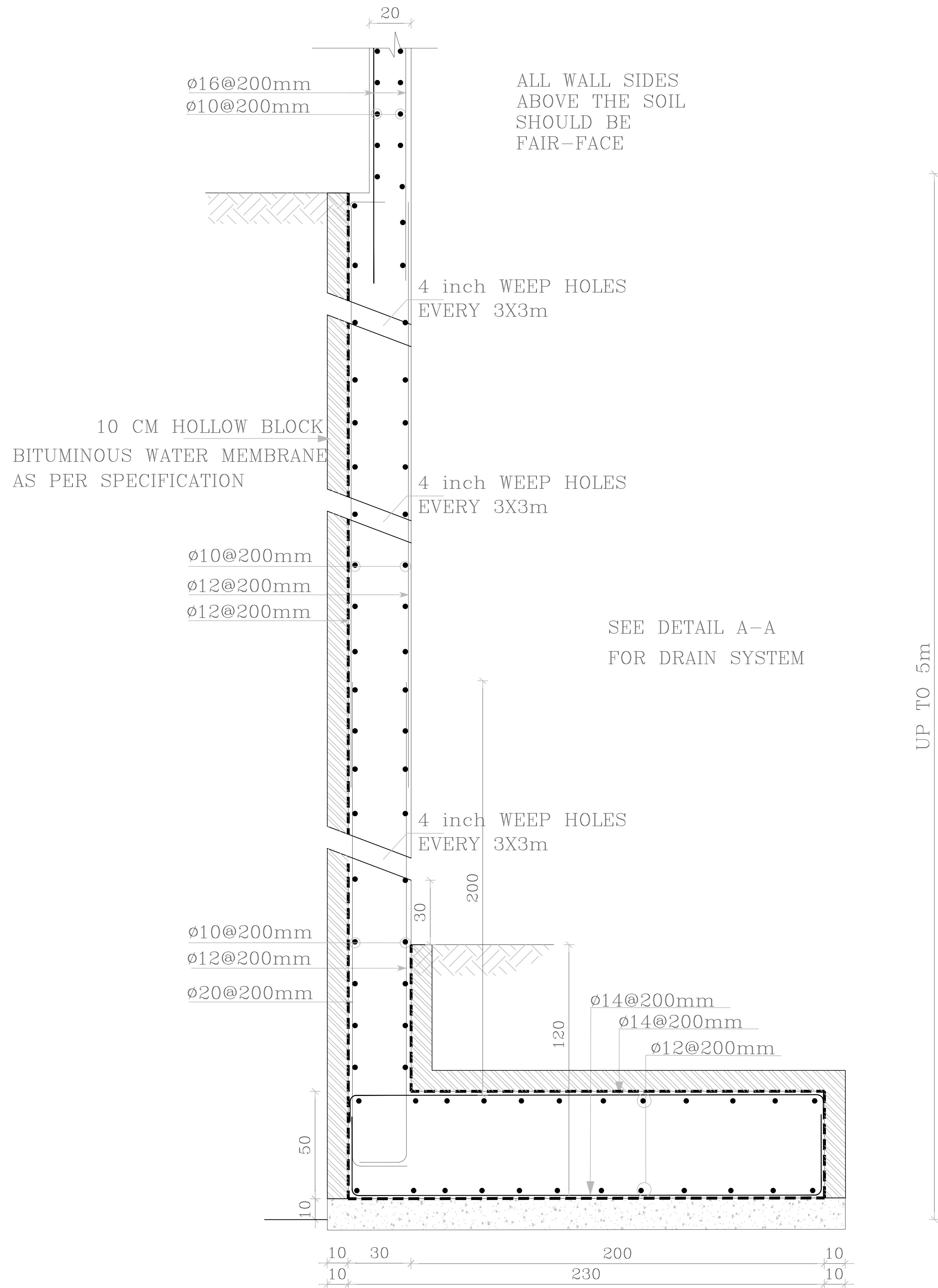
NOTES:

PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS		
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS				
M P C E	MAD1 & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo				
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY				
DRG. TITLE	SITE STRUCTURAL DETAILS-02				
DRAWN BY : STRUC.T			SCALE: 1:100		
DESIGNED BY : H.S			DATE : DEC.-2023		
CHECKED BY : H.S			PROJECT No.		DRAWING No.
APPROVED BY : H.S					S-05



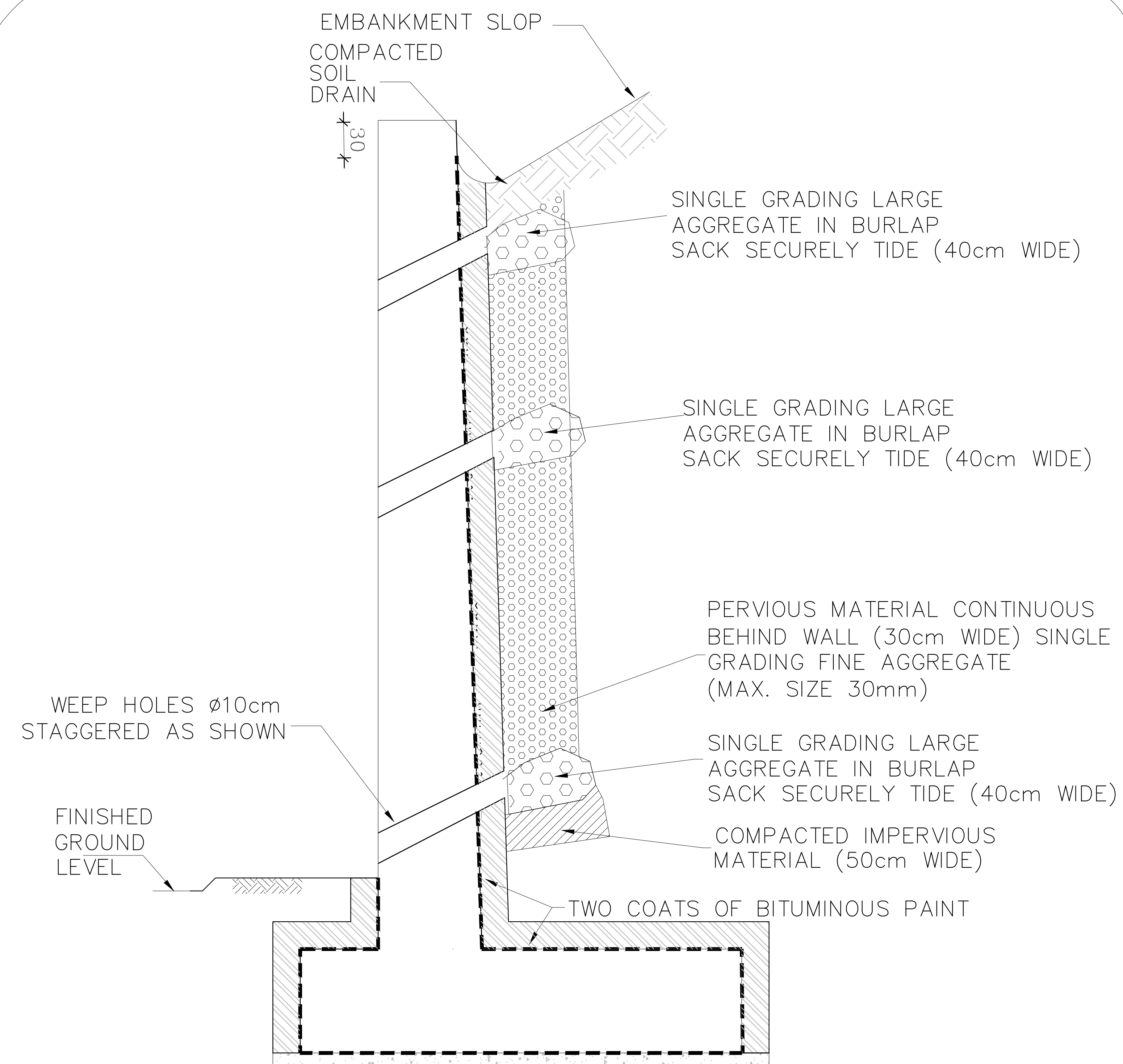
NOTES:

PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY		REMARKS	
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS				
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo				
	PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY			
DRG. TITLE	SITE STRUCTURAL DETAILS-03				
DRAWN BY		:		SCALE: 1:100	
DESIGNED BY		:		DATE : DEC.-2023	
CHECKED BY		:		PROJECT No. DRAWING No.	
APPROVED BY		:		S-05a	



SECTION IN RW5A

SCALE 1:25



TYPICAL BACK FILL DRAIN SECTION (R.W)

RETAINING WALLS DESIGN PARAMETERS:

Bearing Capacity = 1.80 Kg/cm²

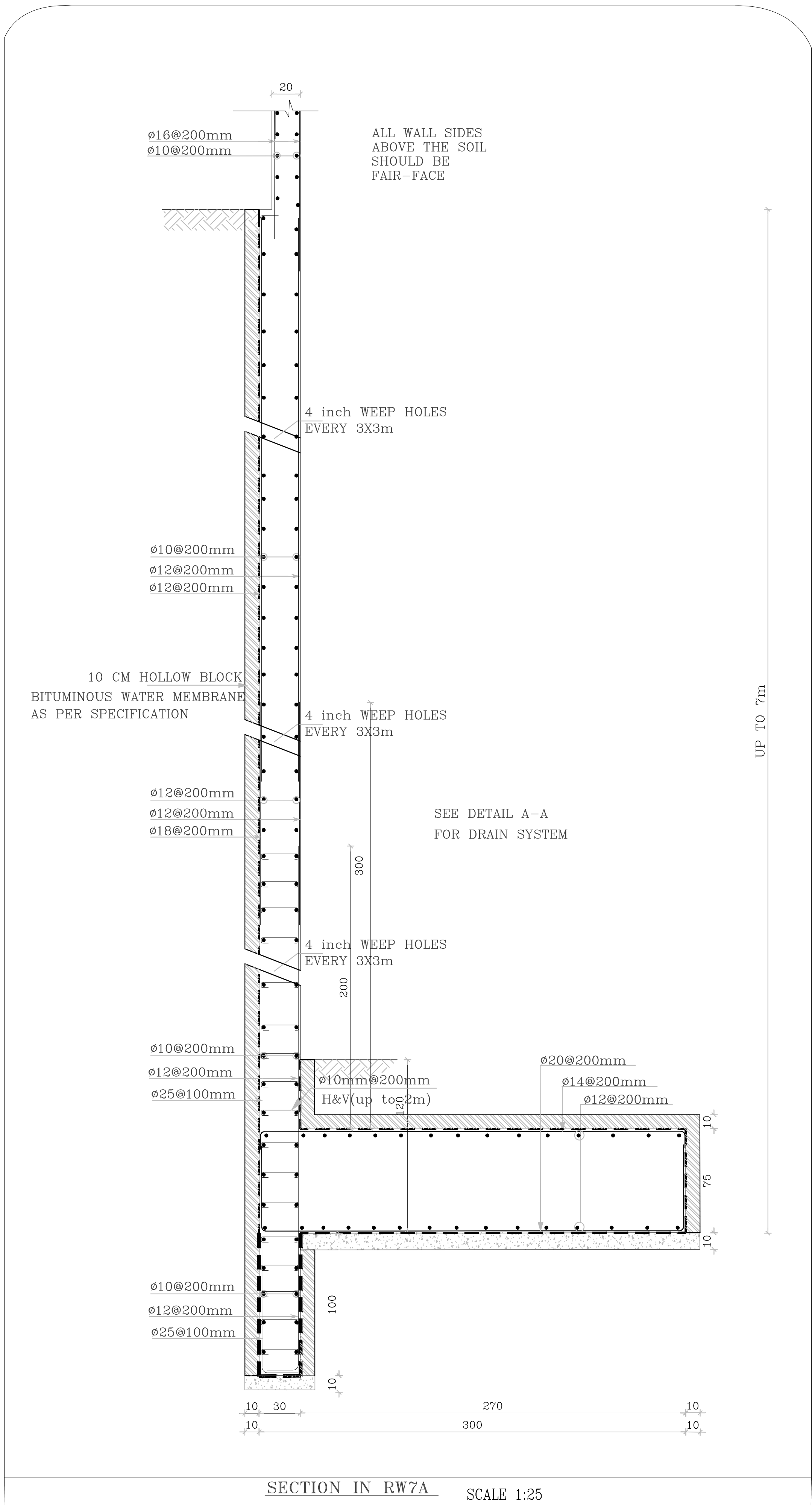
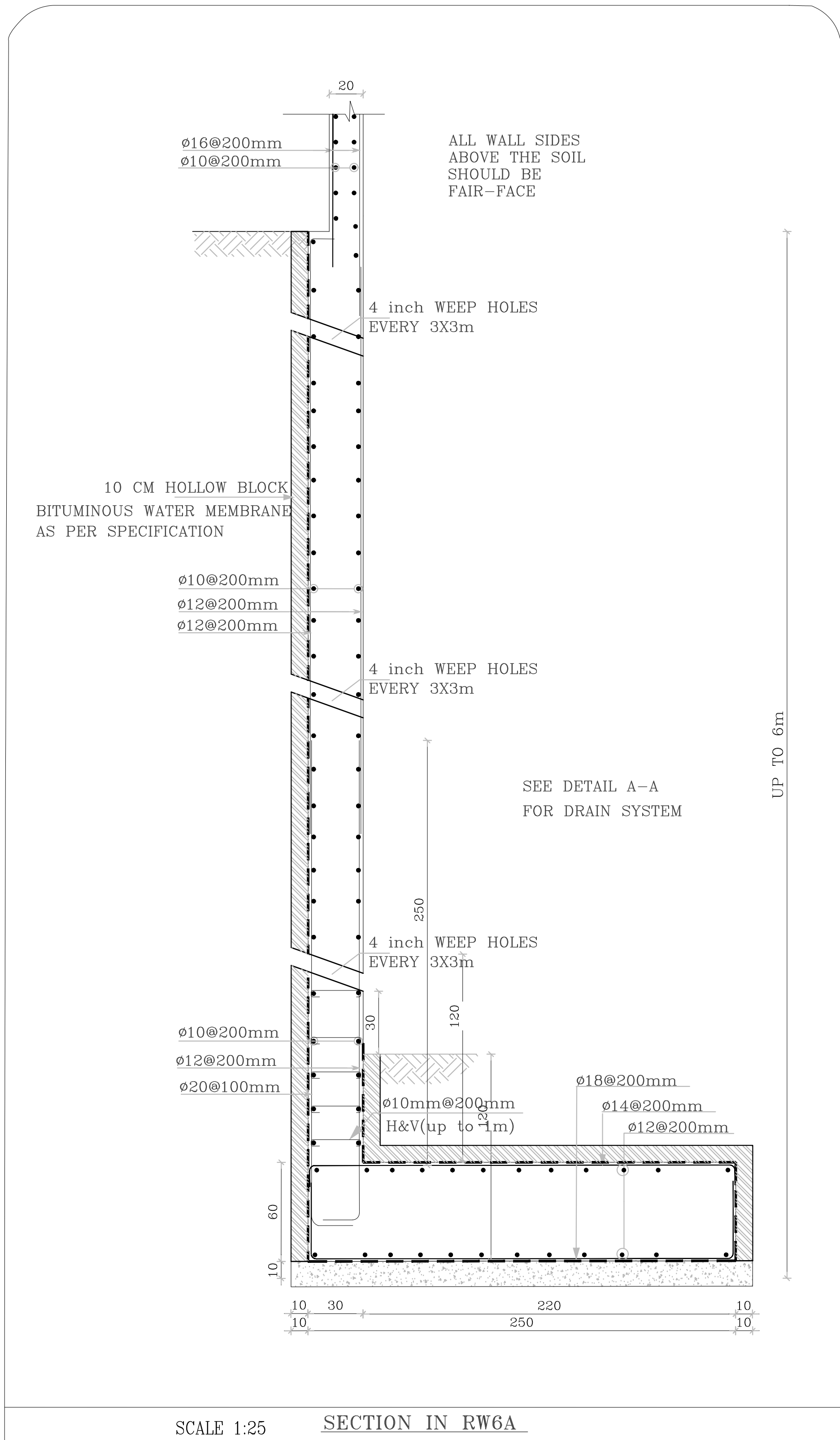
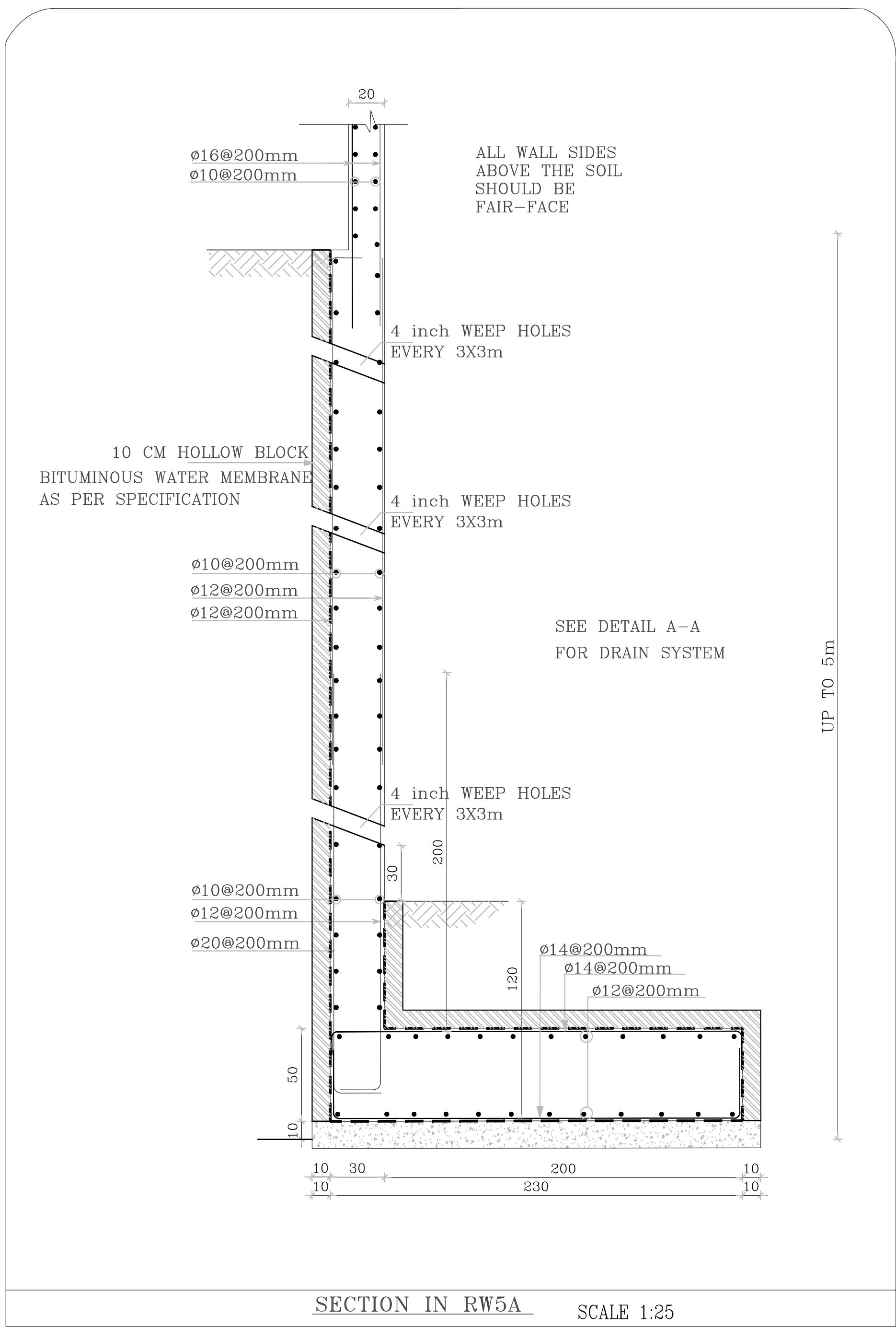
fcu = 30 MPa

Ko = 0.5

Ka = 0.33



NOTES:



PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
1	1-9-2024	H.S	NEW SHEET
REV	MARK	DATE	MADE BY
REMARKS			
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
MPC E	MADI & PARTNERS CONSULTING ENGINEERS		
	TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	SITE STRUCTURAL DETAILS-04		
DRAWN BY : STRUC.T			SCALE: 1:100
DESIGNED BY: H.S			DATE : DEC.-2023
CHECKED BY: H.S			PROJECT No. DRAWING No.
APPROVED BY: H.S			
			S-05b



NOTES:

PLOT NO : 1

DISTRICT : KARAK

BASIN : 14 TALAT EAWAHAD

1	1-9-2024	H.S	SUPERSEDE S-06
REV	MARK	DATE	MADE BY
			REMARKS

CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

M P C E	MADI & PARTNERS CONSULTING ENGINEERS
	TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

DRG.
TITLE COLUMN AXES PLAN

DRAWN BY : STRUC.T

SCALE: 1:100

DESIGNED BY : H.S

DATE :DEC.-2023

CHECKED BY : H.S

PROJECT No. DRAWING No.

APPROVED BY: H.S

S-06-1



NOTES:

PLOT NO : 1

DISTRICT : KARAK

BASIN : 14 TALAT EAWAHAD

1 1-9-2024 H.S SUPERSEDE S-07A & S-07B

REV MARK DATE MADE BY REMARKS

CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

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C E TEL:5829640-5829641 FAX:5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

DRG. TITLE FOUNDATION PLAN

DRAWN BY : ST.TEAM SCALE: 1:50

DESIGNED BY : ST.TEAM DATE :DEC.-2023

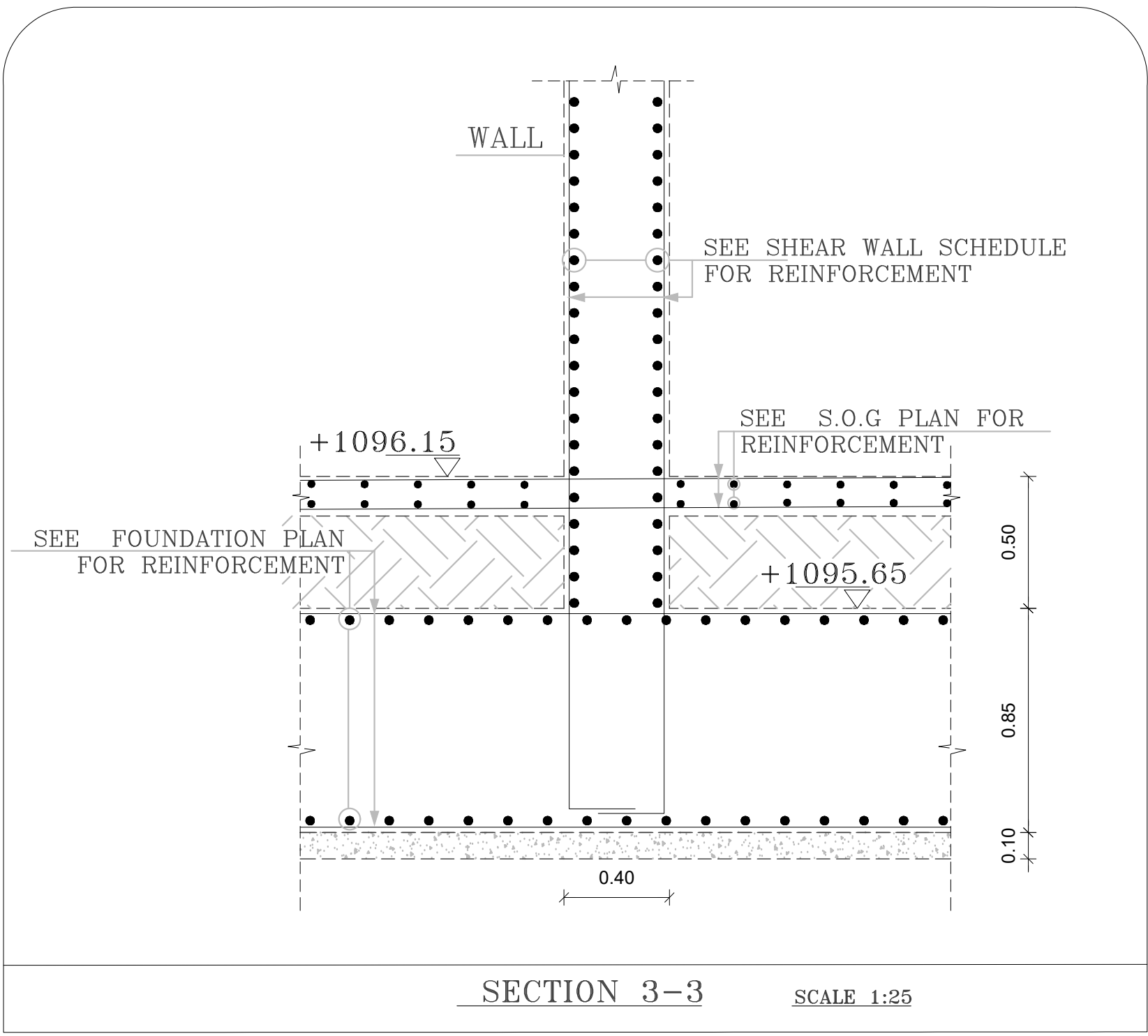
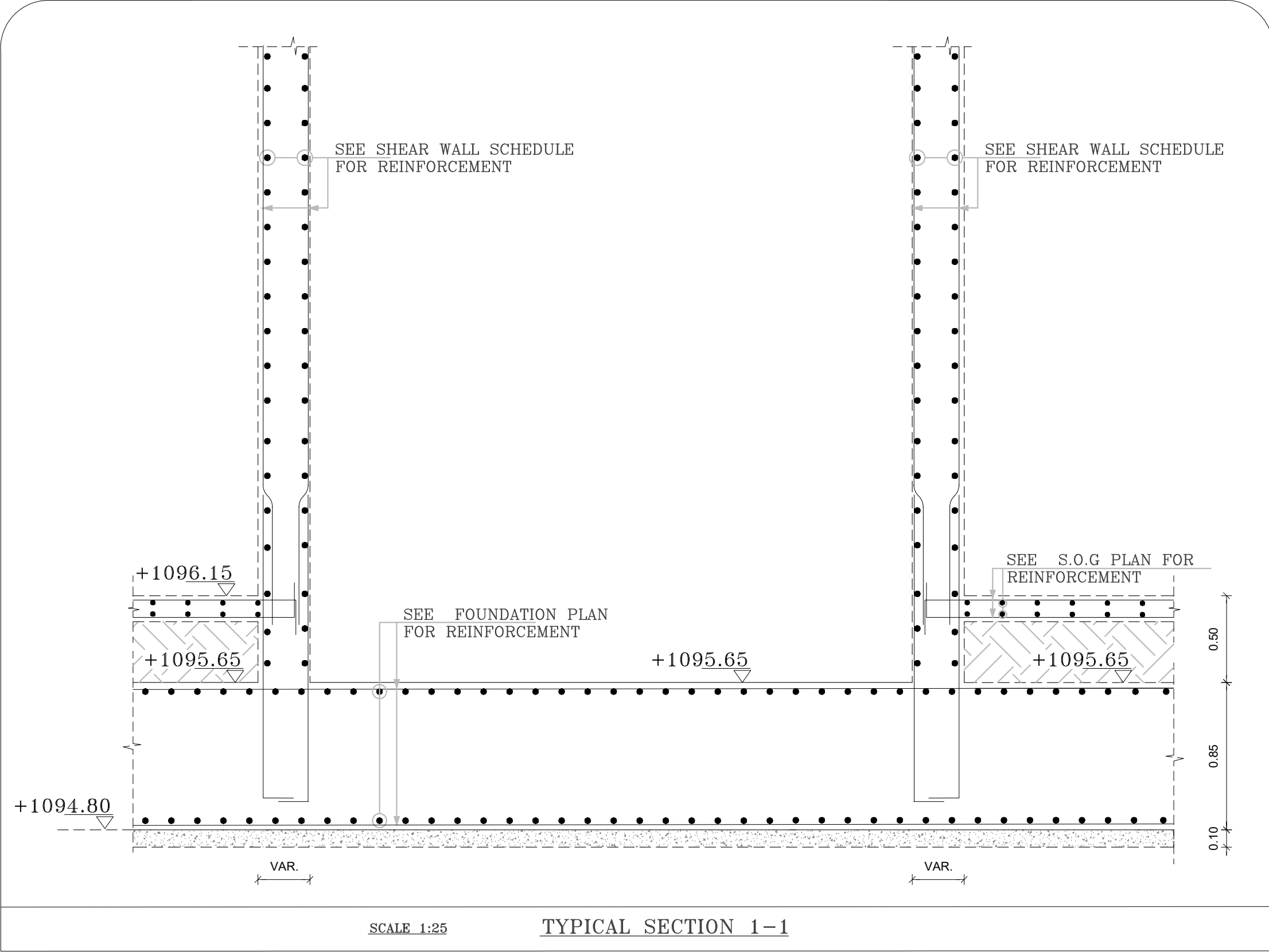
CHECKED BY : H.A.

APPROVED BY: H.A.

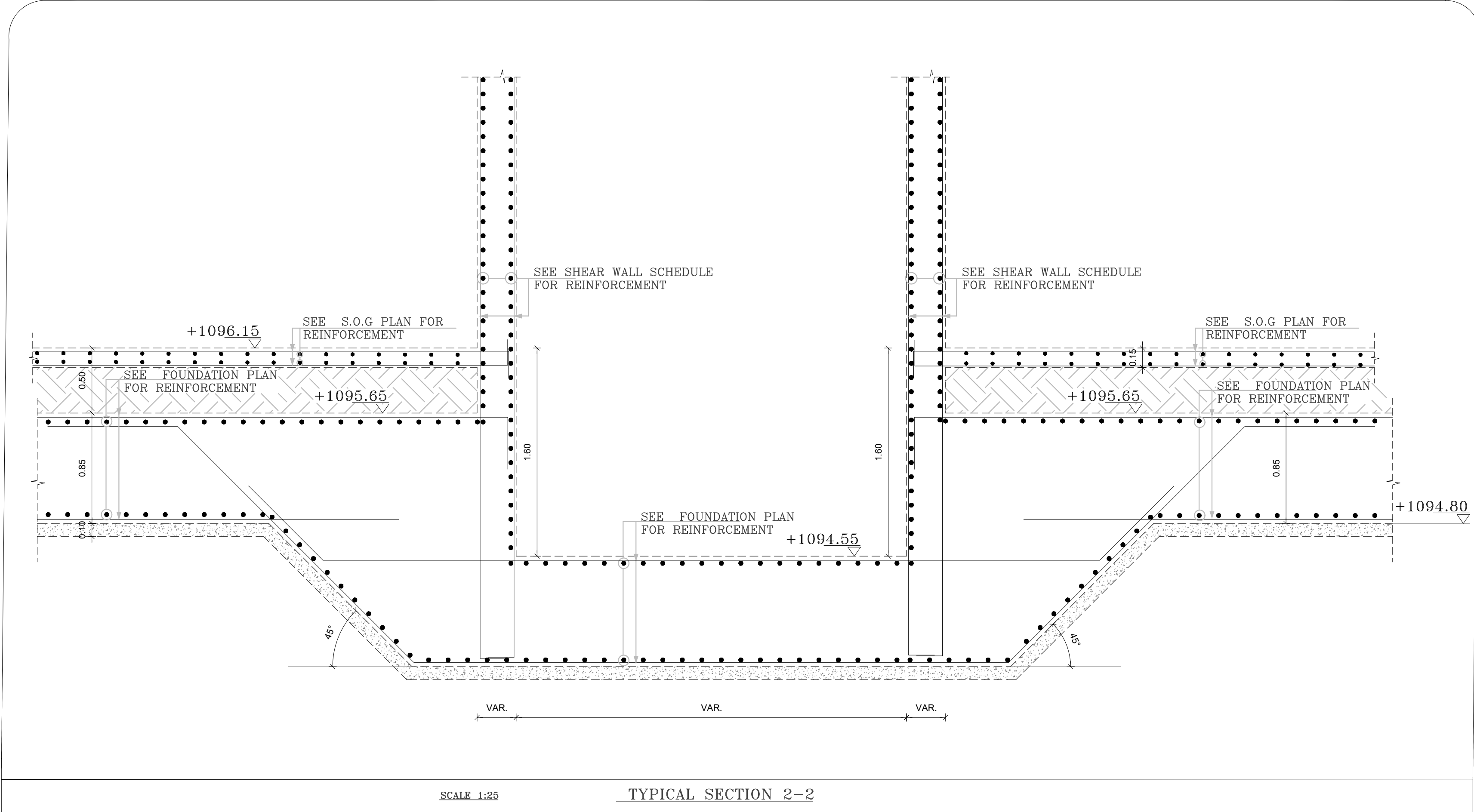
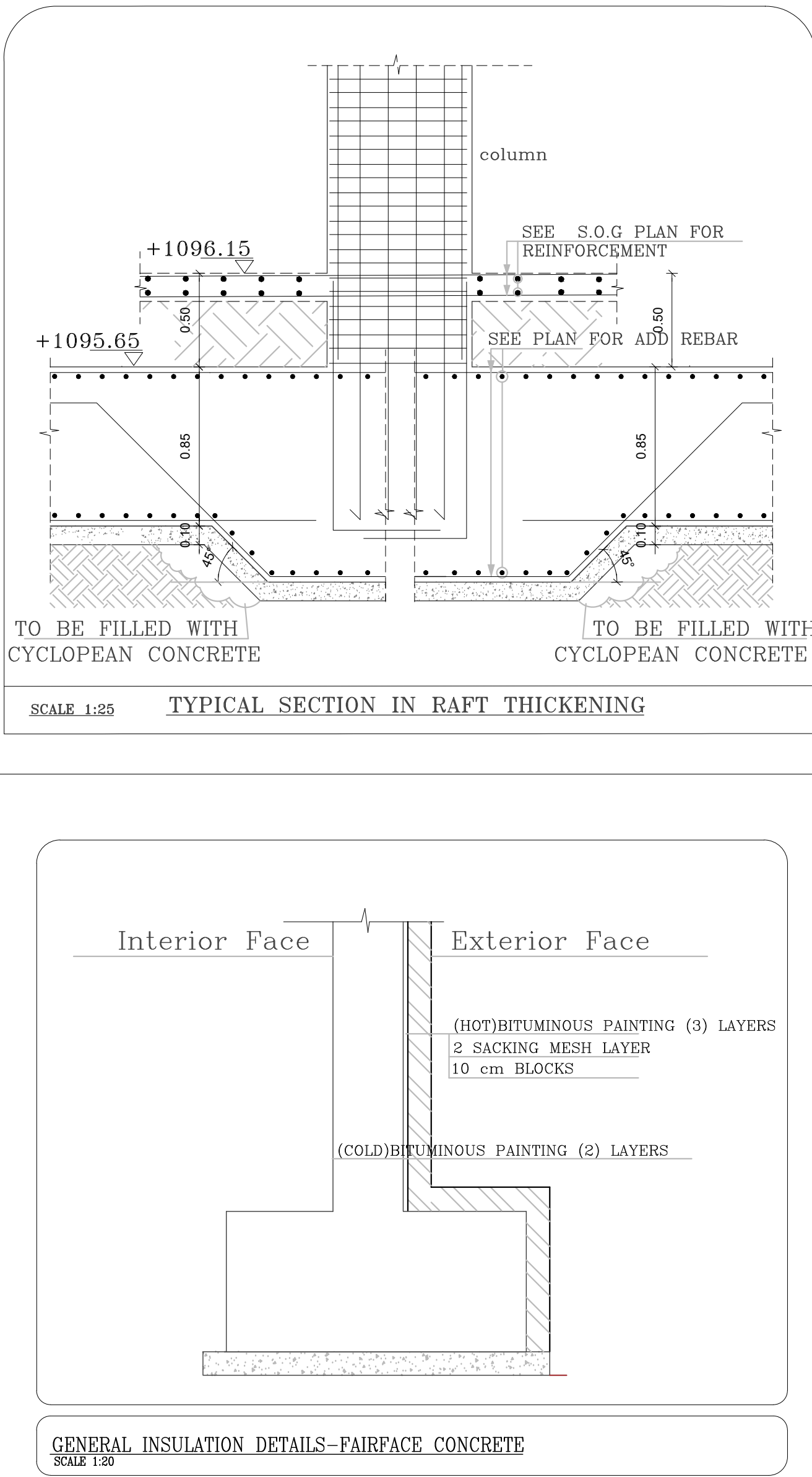
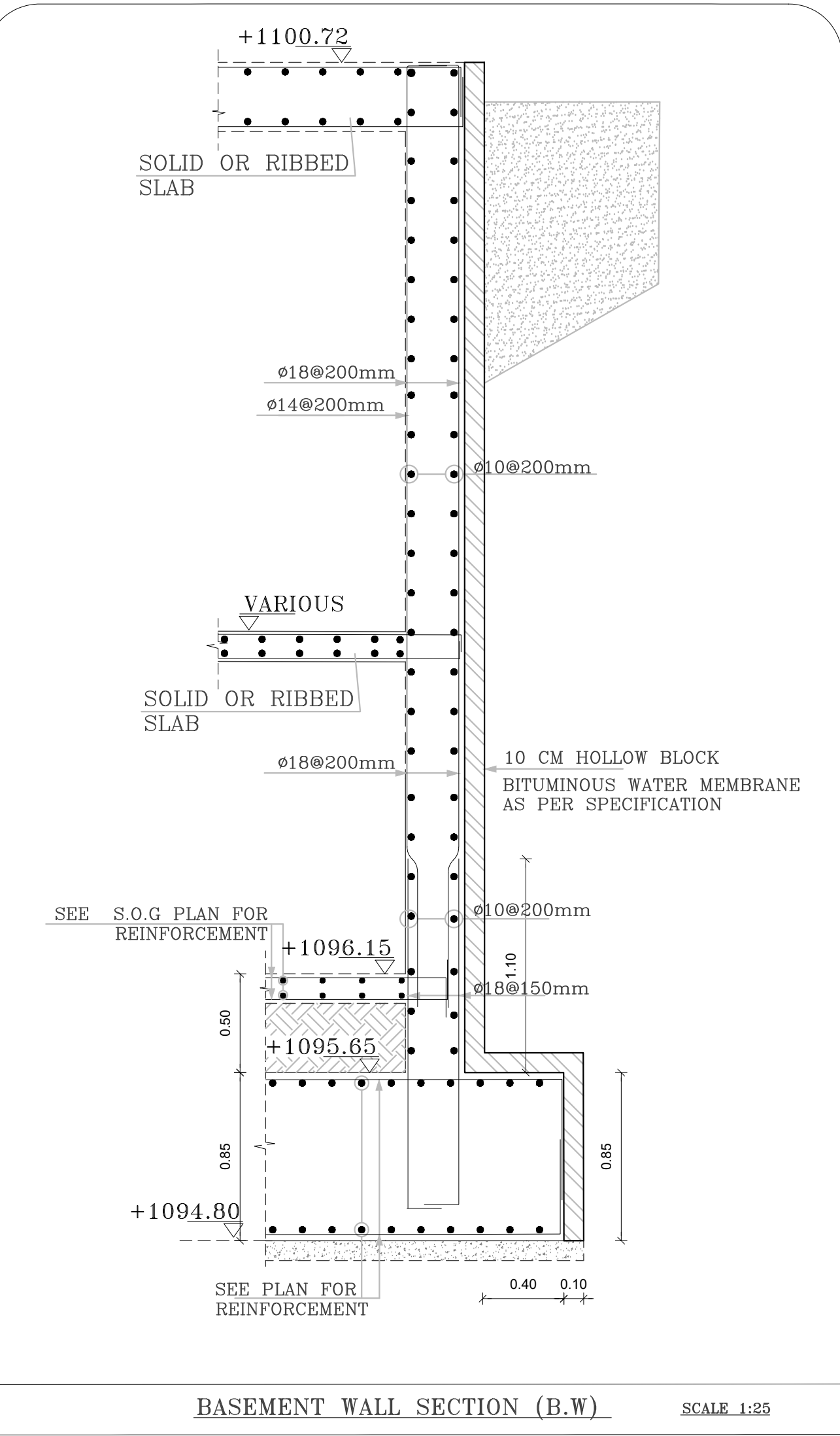
PROJECT No. DRAWING No.

S-07-1

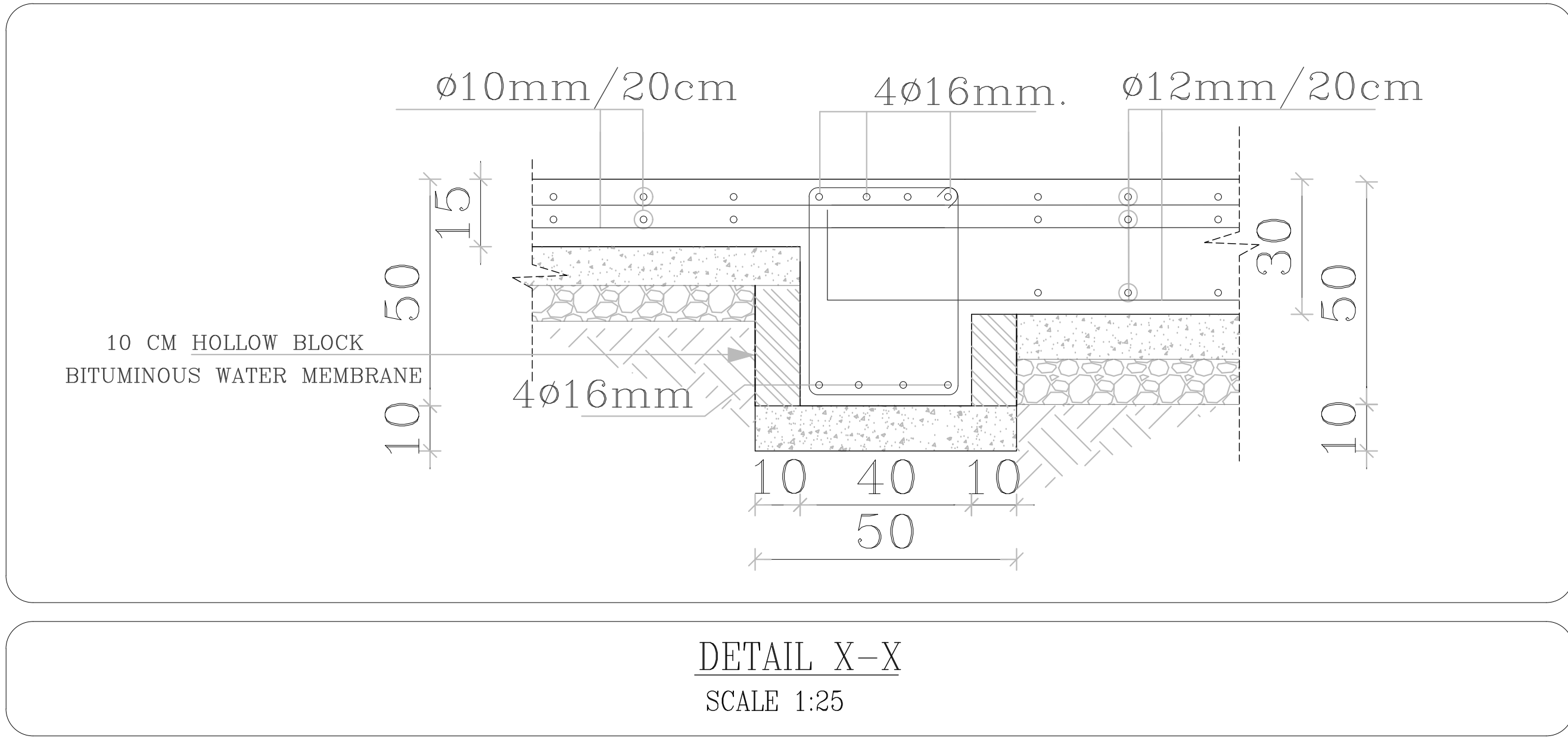
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COLUMN No.	COLUMN SECTIONS
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COLUMN # 3	
COLUMN # 13	
COLUMN # 14	
COLUMN # 15	
COLUMN # 4	
COLUMN # 5	
COLUMN # 7	
COLUMN # 8	
COLUMN # 9	
COLUMN # 10	
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COLUMN # 12	
COLUMN # 16	
COLUMN # P.C.1	
COLUMN # P.C.2	
COLUMN # 18	



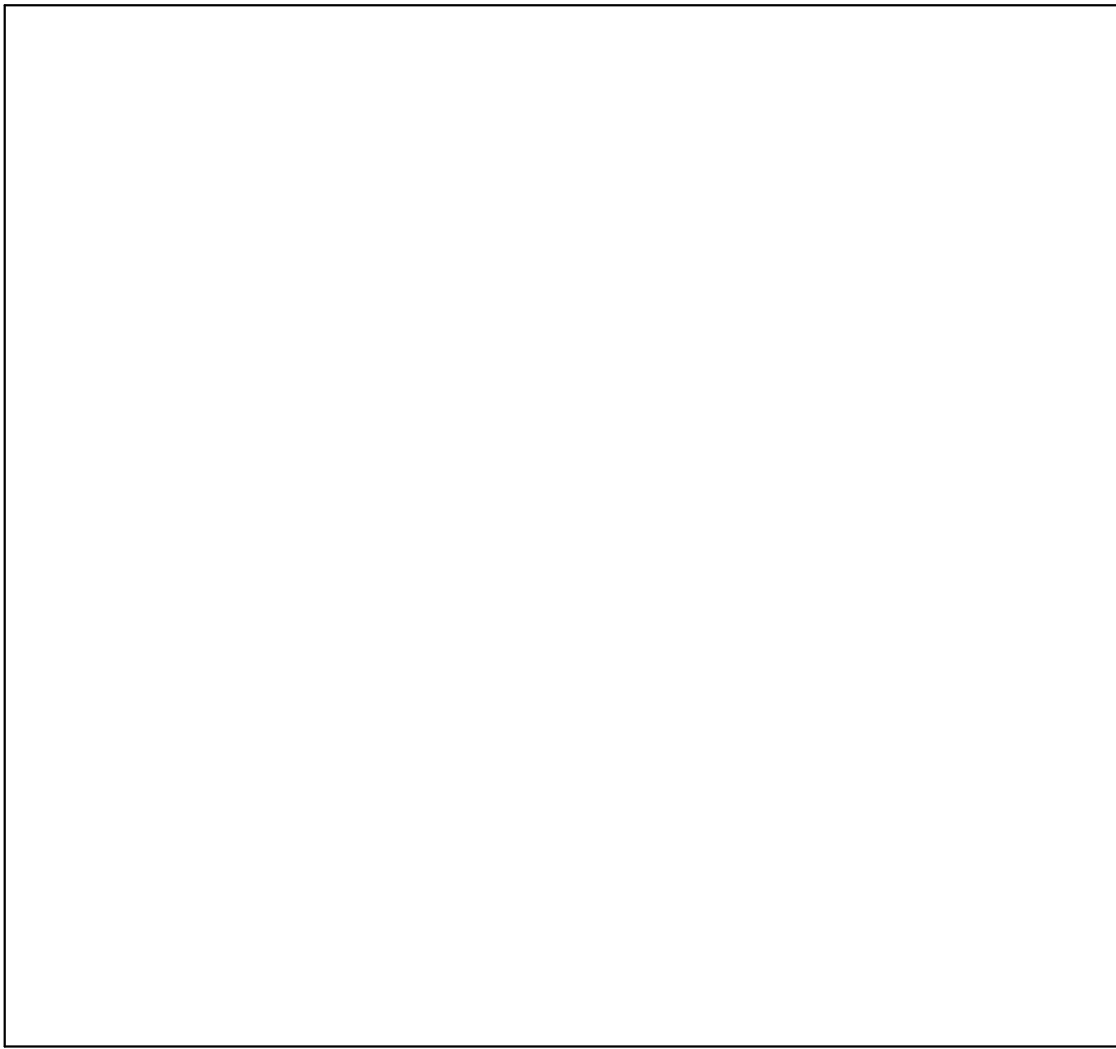
NOTES:



PLOT NO		:	1	
DISTRICT		:	KARAK	
BASIN		:	14 TALAT EAWAHAD	
1	1-9-2024	H.S	SUPERSEDE S-08 & S-10	
REV. MARK	DATE	MADE BY	REMARKS	
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
MPCE	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo			
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY			
DRG. TITLE	COLUMN & FOUNDATION REINFORCEMENT DETAILS			
DRAWN BY : STRUC.T			SCALE: AS SHOWN	
DESIGNED BY: H.S			DATE : DEC.-2023	
CHECKED BY: H.S			PROJECT No.	DRAWING No.
APPROVED BY: H.S				S-08-1



PLOT NO		1	
DISTRICT		KARAK	
BASIN		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
M P C E	MADANI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
	PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	SLAB ON GRADE		
DRAWN BY : STRUC.T		SCALE: 1:100	
DESIGNED BY: H.S		DATE : DEC. - 2023	
CHECKED BY : H.S		PROJECT No.	DRAWING No. S-09
APPROVED BY: H.S			



NOTES:

PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
REV. MARK	DATE	MADE BY	REMARKS
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
MP CE	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	SHEAR WALL SCHEDULES		
DRAWN BY : STRUC.T			SCALE: 1:100
DESIGNED BY : H.S			DATE : DEC.-2023
CHECKED BY : H.S			PROJECT No. DRAWING No.
APPROVED BY: H.S			S-11



NOTES:

PLOT NO : 1

DISTRICT : KARAK

BASIN : 14 TALAT EAWAHAD

REV. MARK. DATE. MADE BY. REMARKS.

CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

M P MADI & PARTNERS CONSULTING ENGINEERS
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e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

DRG. TITLE GROUND FLOOR
SLAB REINFORCEMENT PLAN

DRAWN BY : STRUC.T SCALE: 1:100

DESIGNED BY : H.S DATE :DEC.-2023

CHECKED BY : H.S

APPROVED BY: H.S

PROJECT No. DRAWING No.
S-12



NOTES:

PLOT NO : 1

DISTRICT : KARAK

BASIN : 14 TALAT EAWAHAD

REV. MARK DATE MADE BY REMARKS

CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

MP MADI & PARTNERS CONSULTING ENGINEERS
CE TEL:5829640-5829641 FAX:5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

DRG. TITLE FIRST FLOOR
SLAB REINFORCEMENT PLAN

DRAWN BY : STRUC.T

SCALE: 1:100

DESIGNED BY : H.S

DATE :DEC.-2023

CHECKED BY : H.S

PROJECT No. DRAWING No.

APPROVED BY: H.S

S-13



NOTES:

PLOT NO : 1

DISTRICT : KARAK

BASIN : 14 TALAT EAWAHAD

REV MARK DATE MADE BY REMARKS

CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

MP MADI & PARTNERS CONSULTING ENGINEERS
CE TEL:5829640-5829641 FAX:5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

DRG. SECOND FLOOR
TITLE SLAB REINFORCEMENT PLAN

DRAWN BY : STRUC.T

SCALE: 1:100

DESIGNED BY : H.S

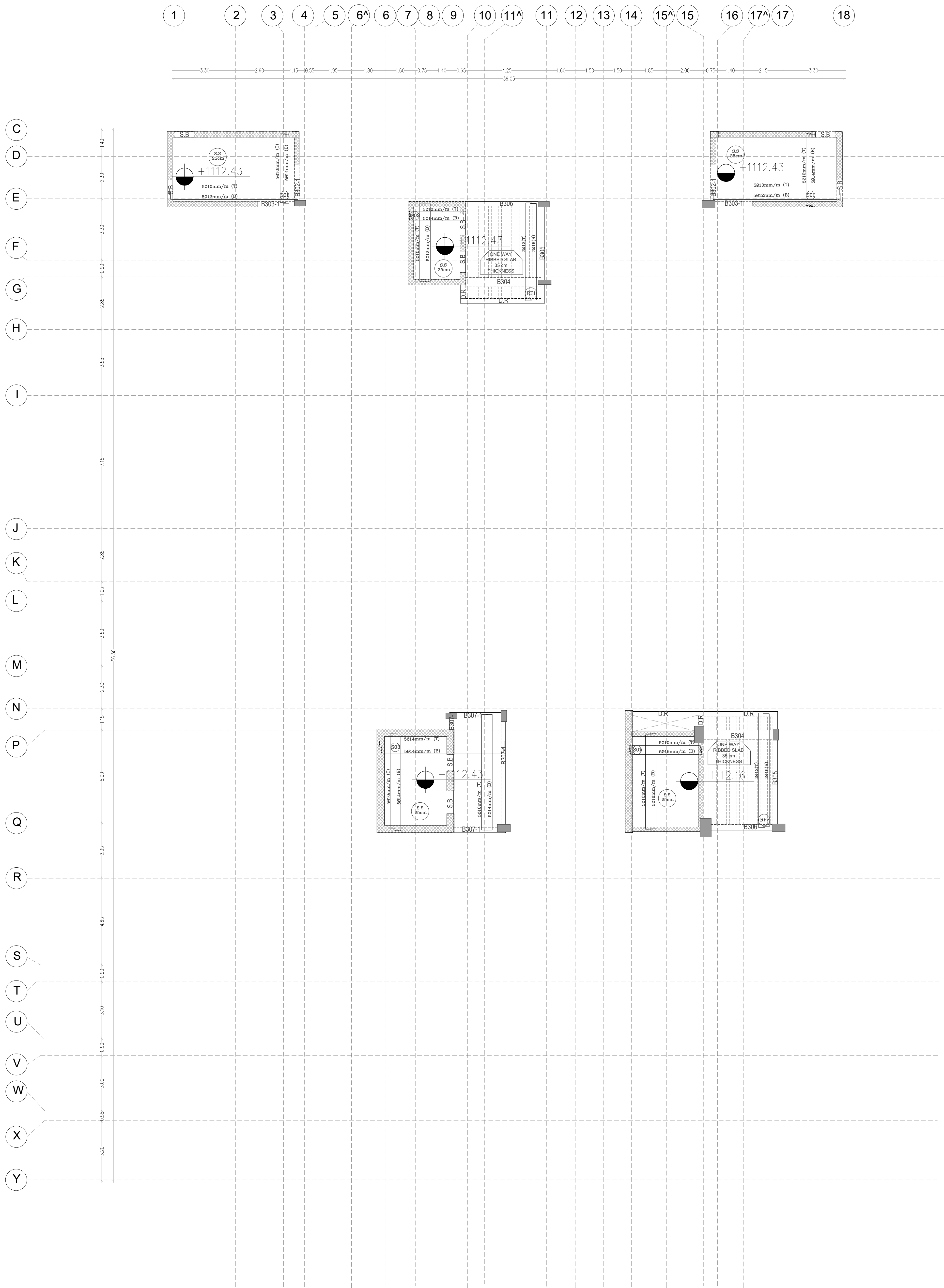
DATE :DEC.-2023

CHECKED BY : H.S

PROJECT No. DRAWING No.

APPROVED BY: H.S

S-14



NOTES:

PLOT NO : 1

DISTRICT : KARAK

BASIN : 14 TALAT EAWAHAD

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ENDOCRINOLOGY AND GENETICS

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NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

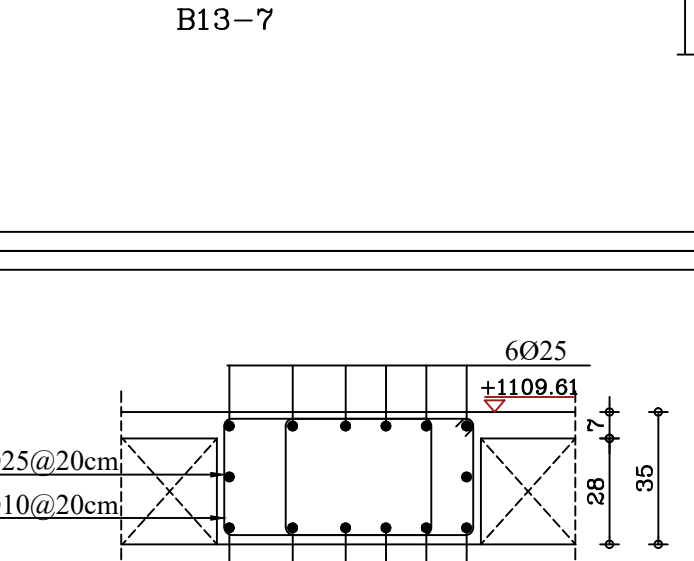
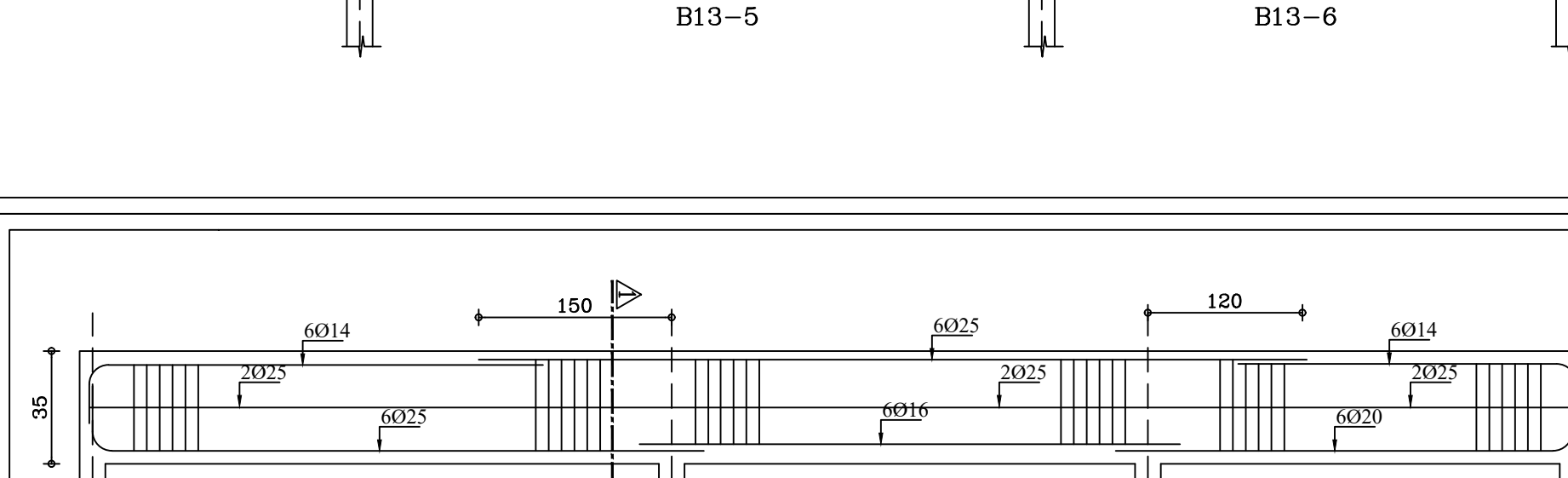
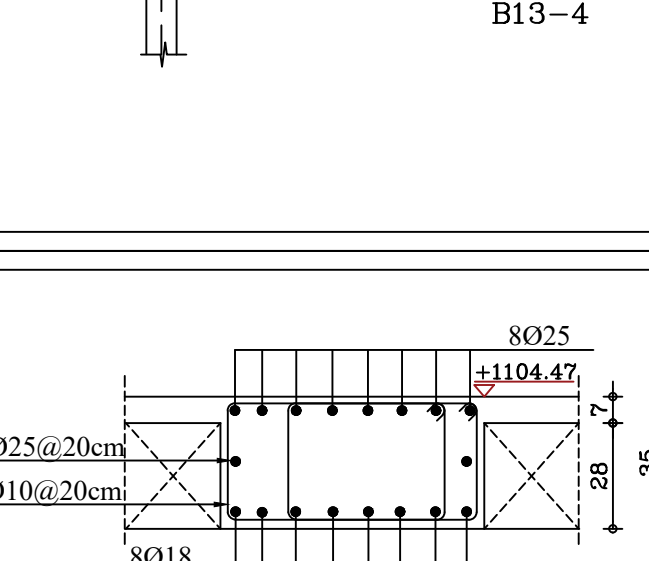
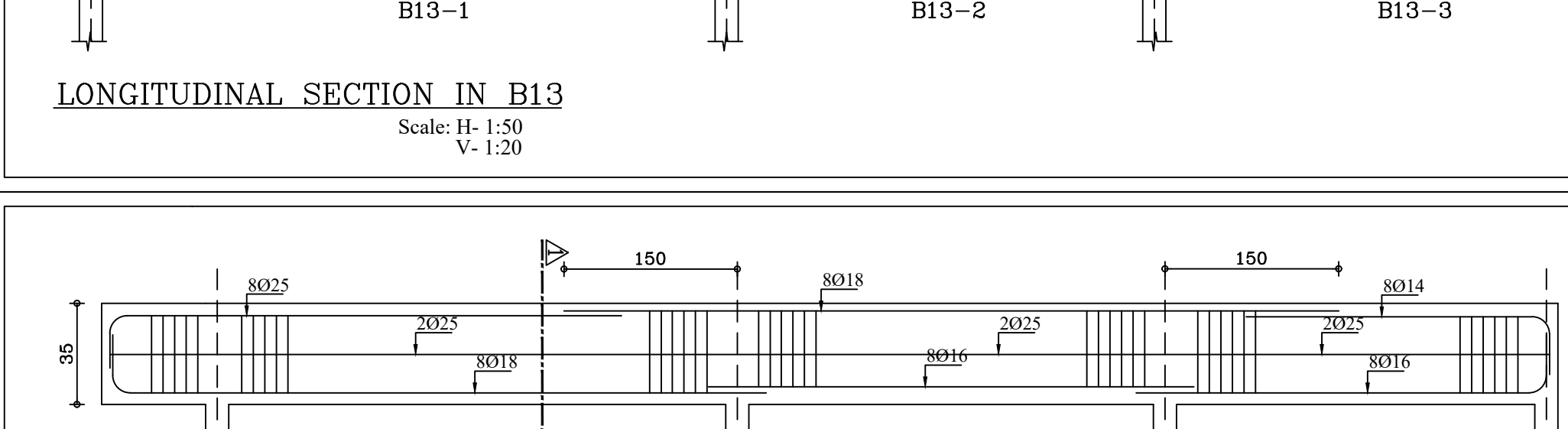
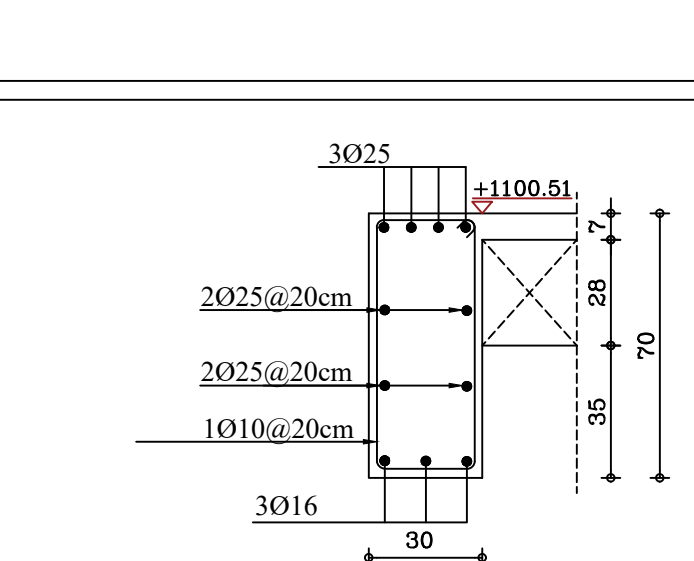
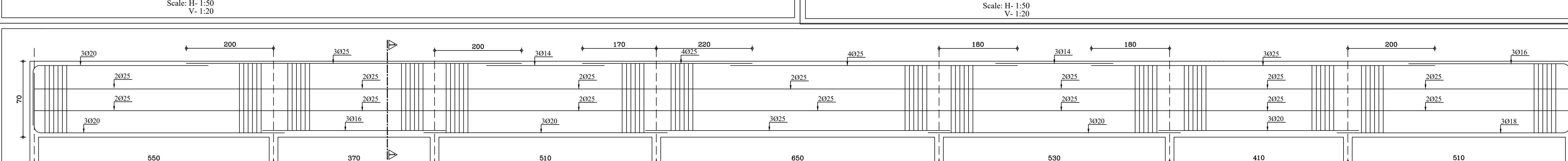
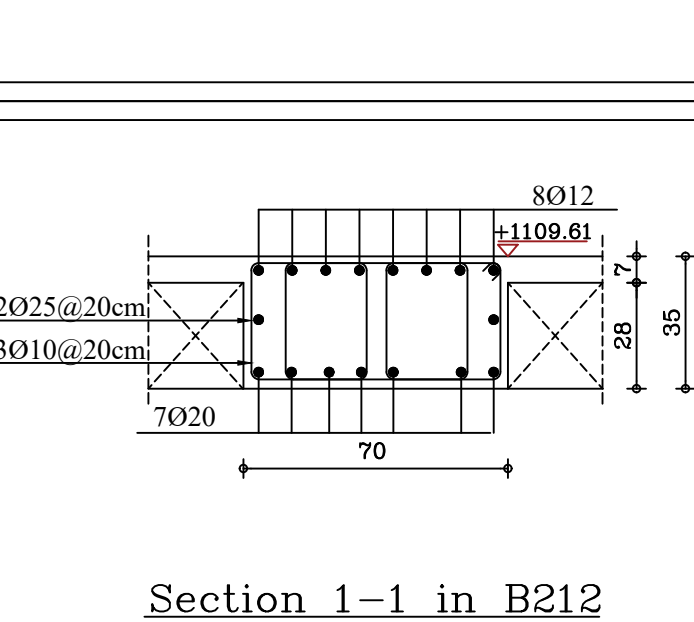
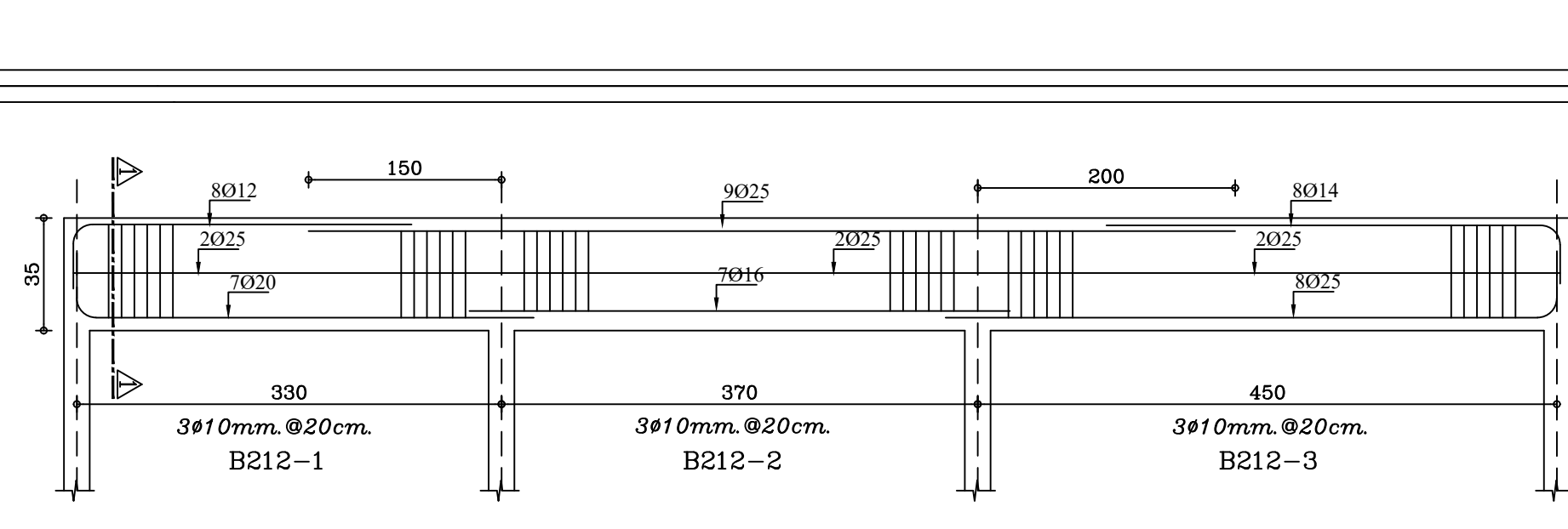
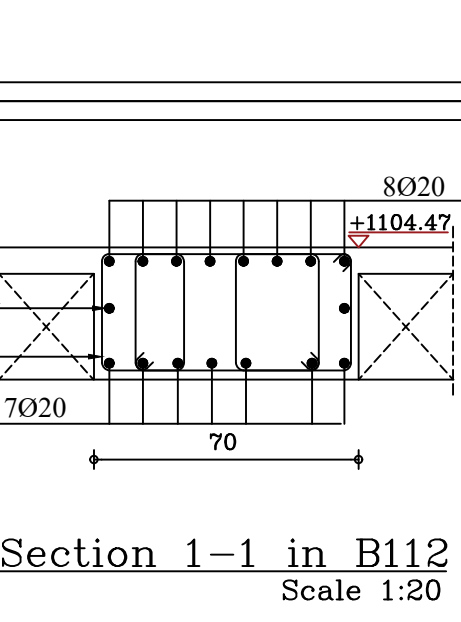
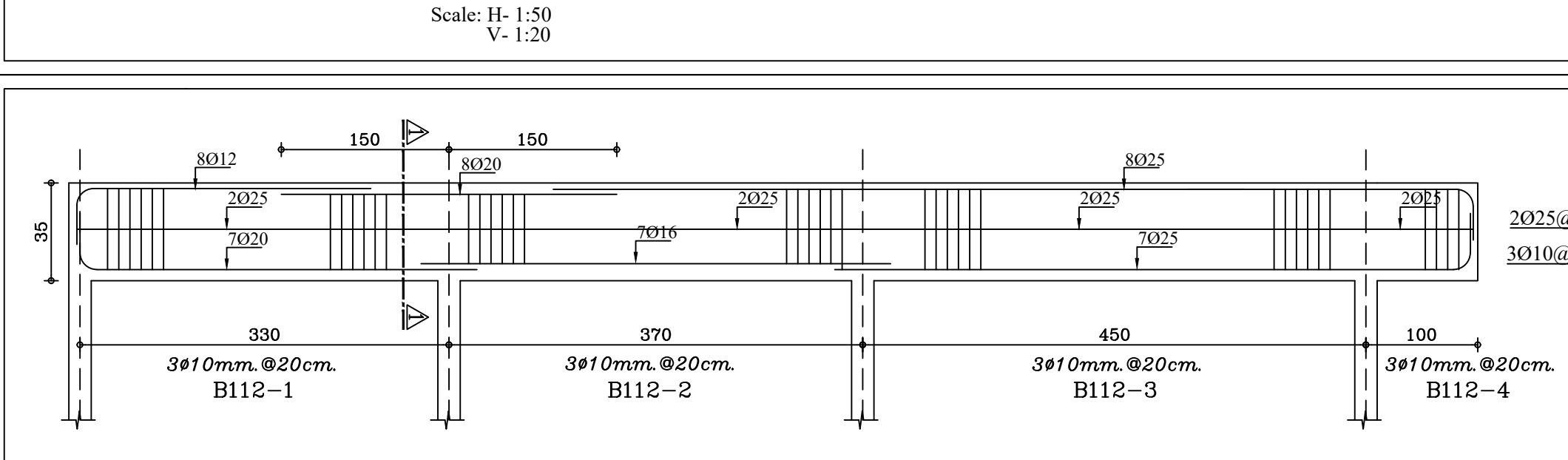
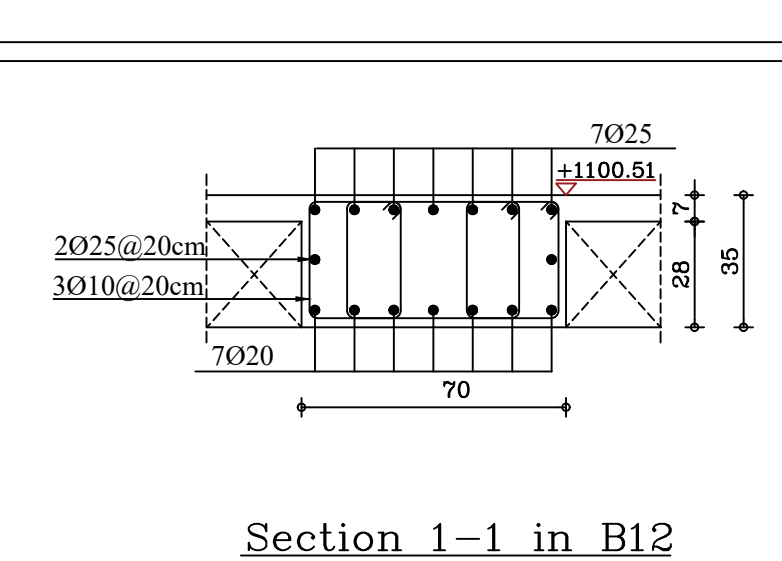
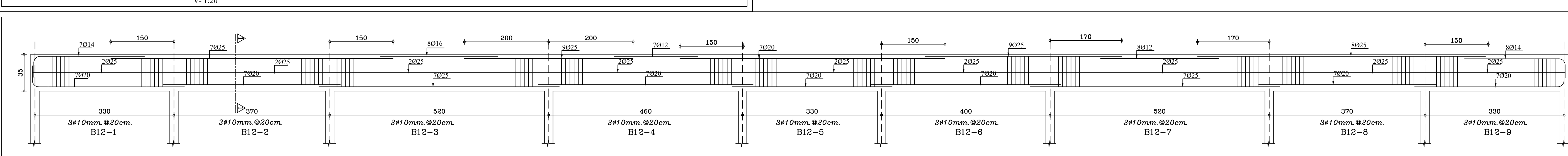
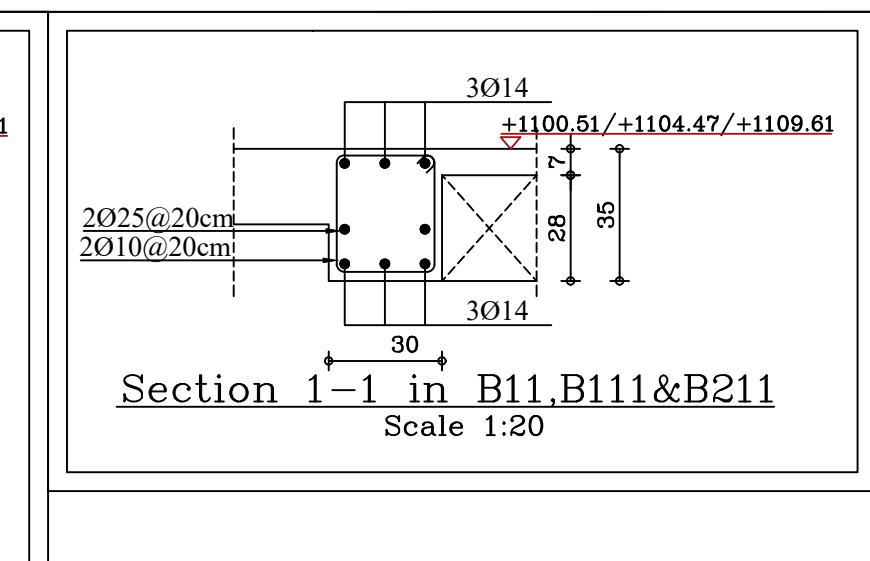
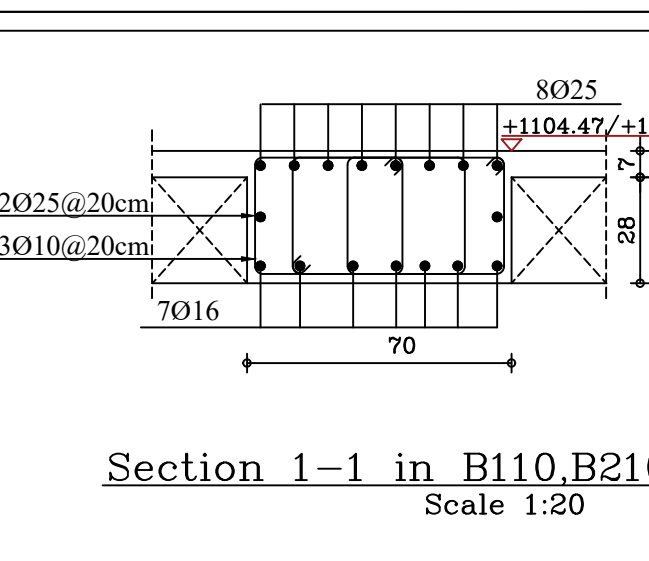
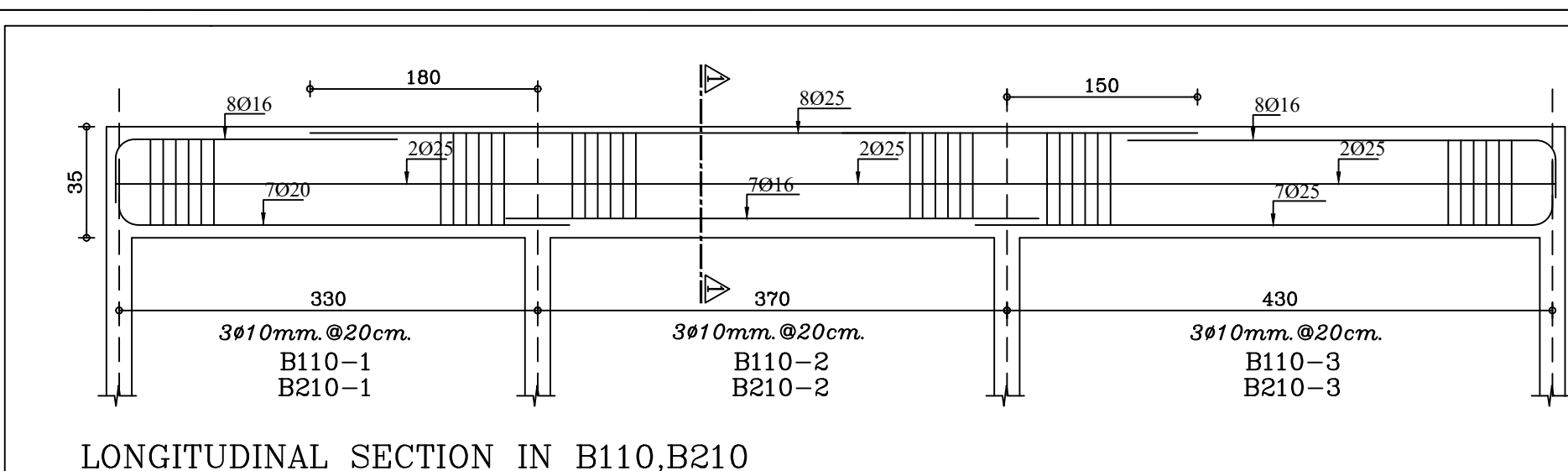
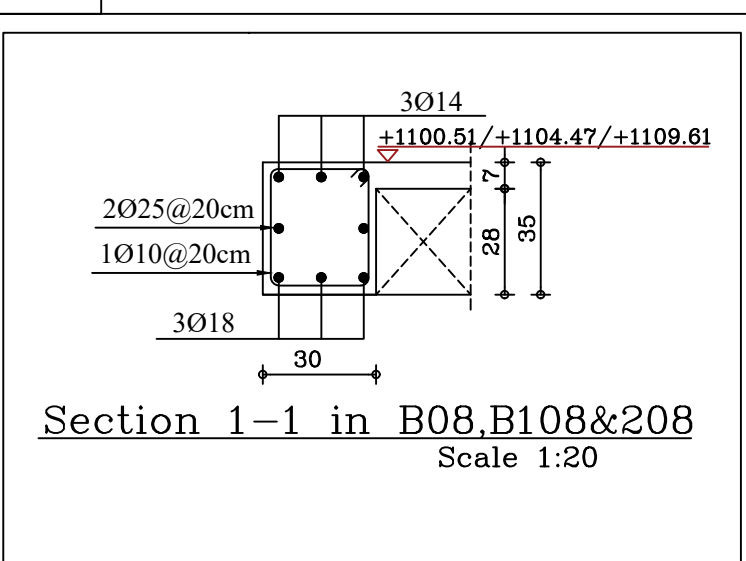
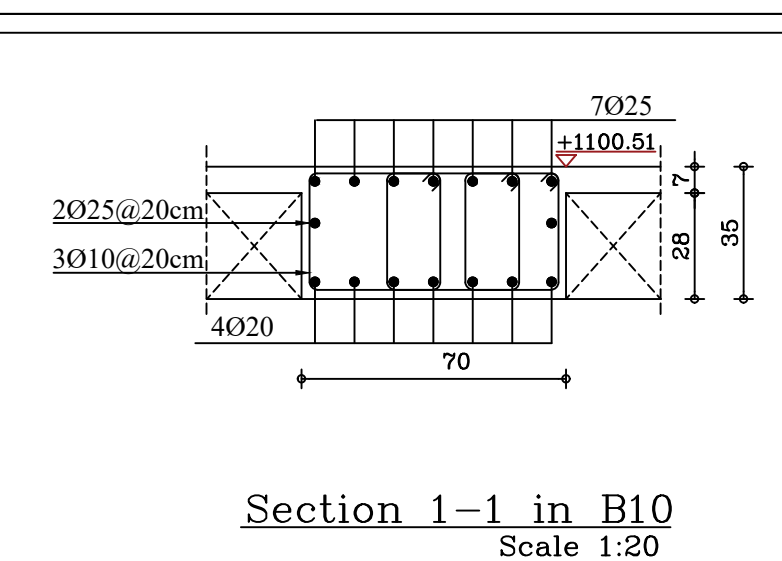
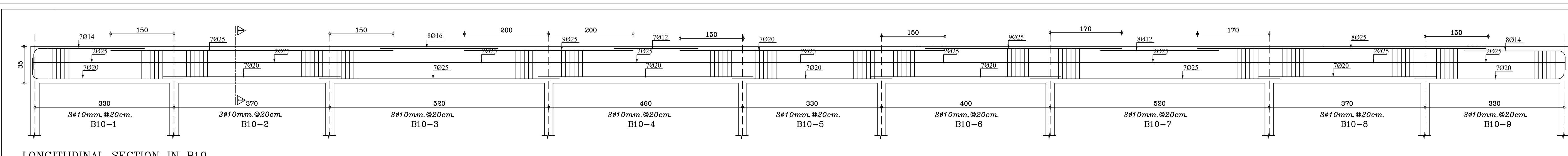
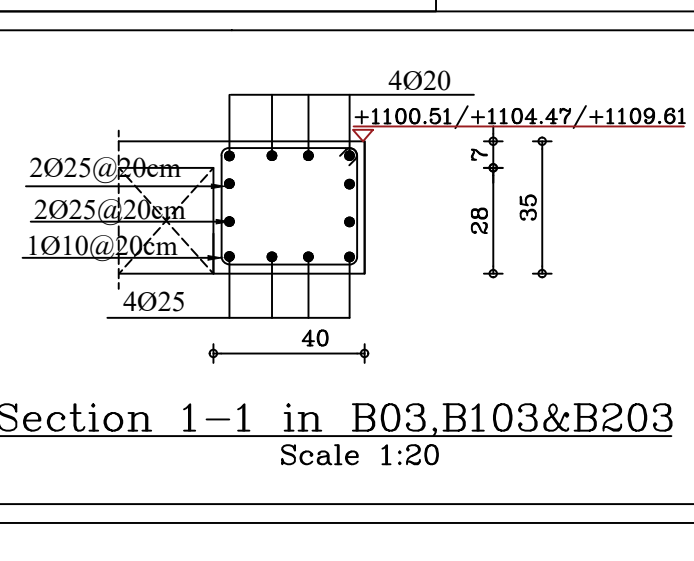
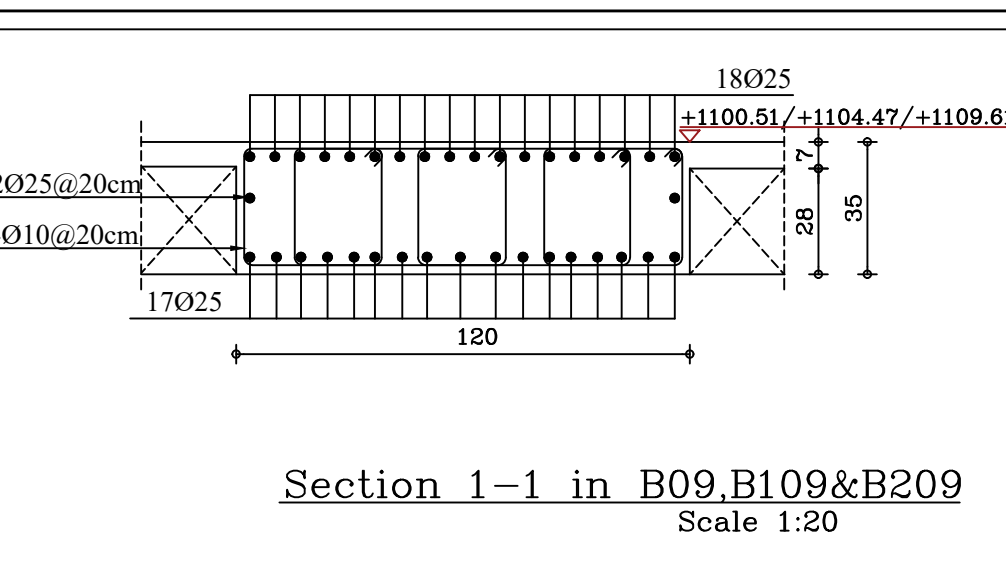
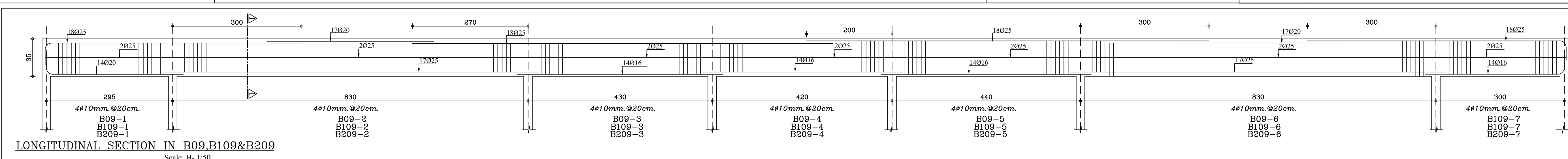
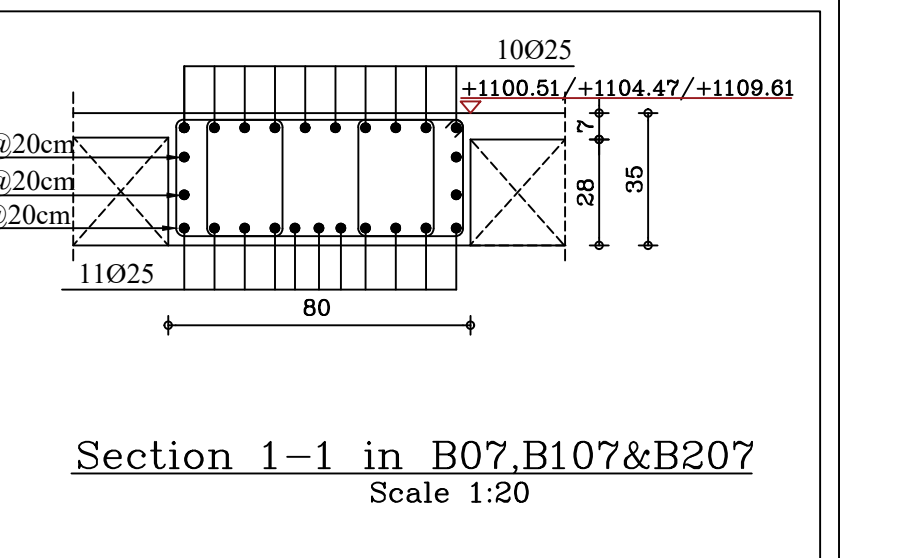
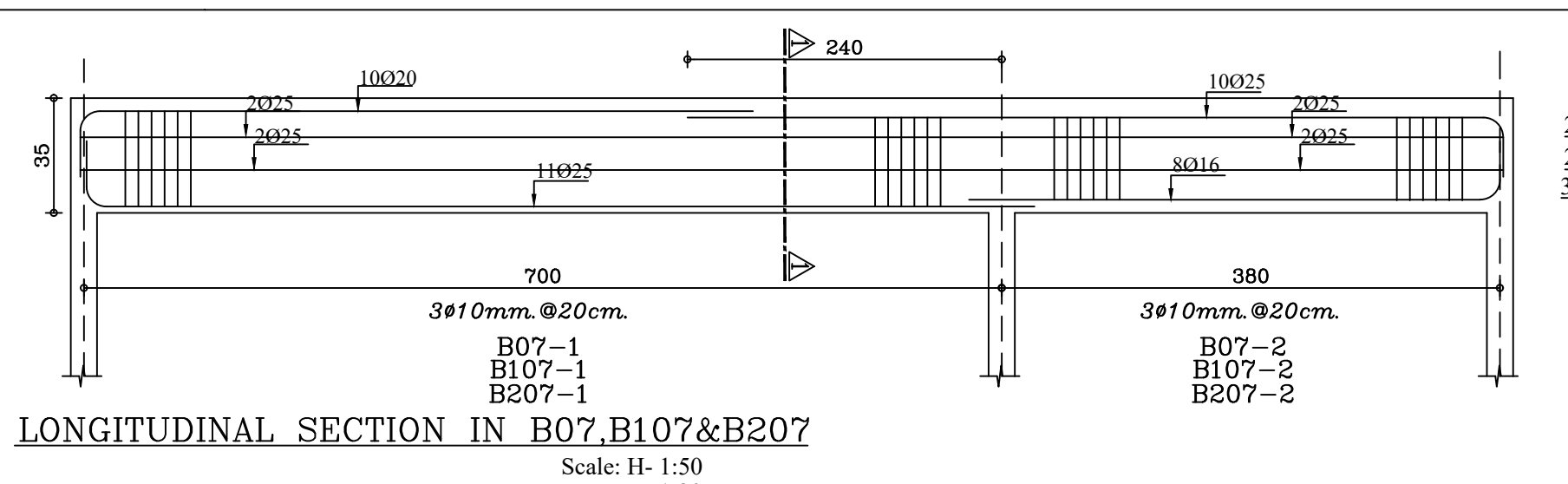
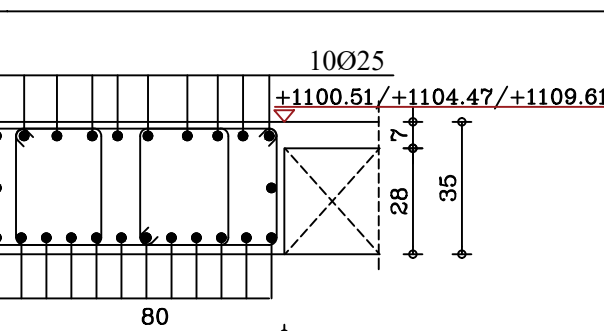
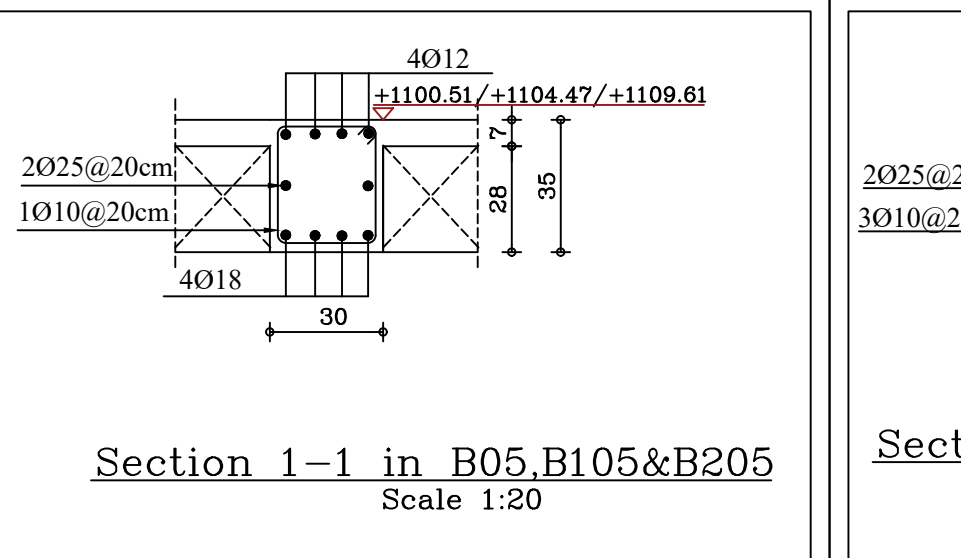
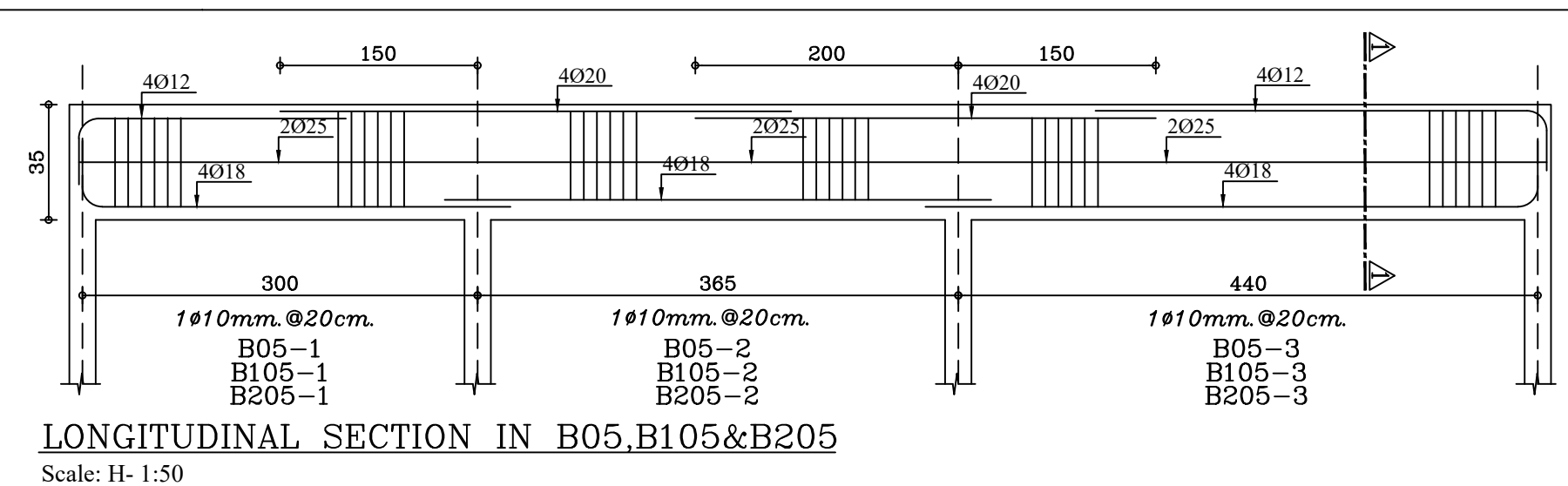
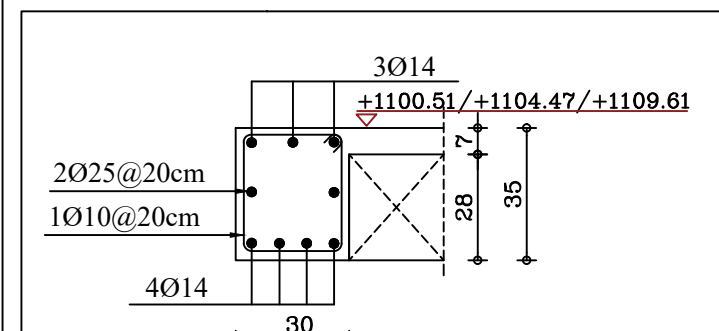
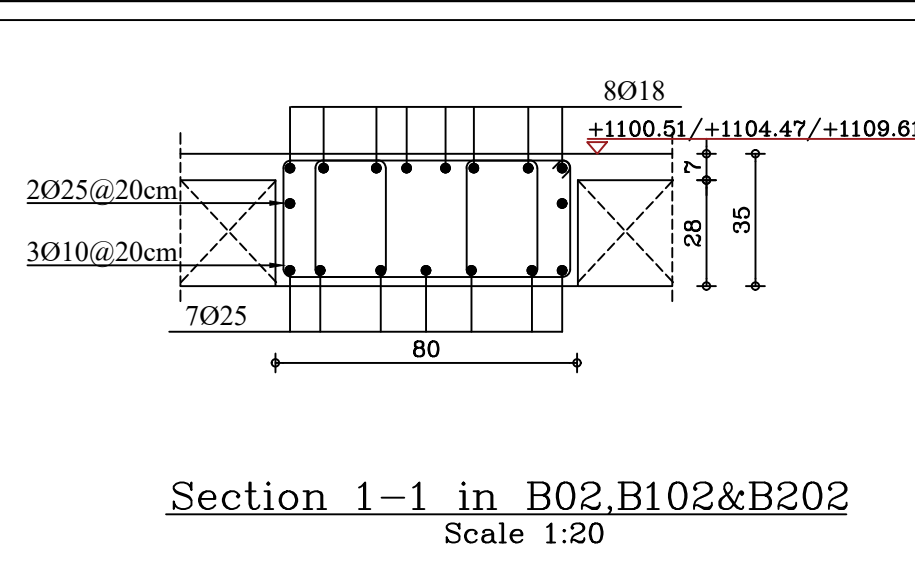
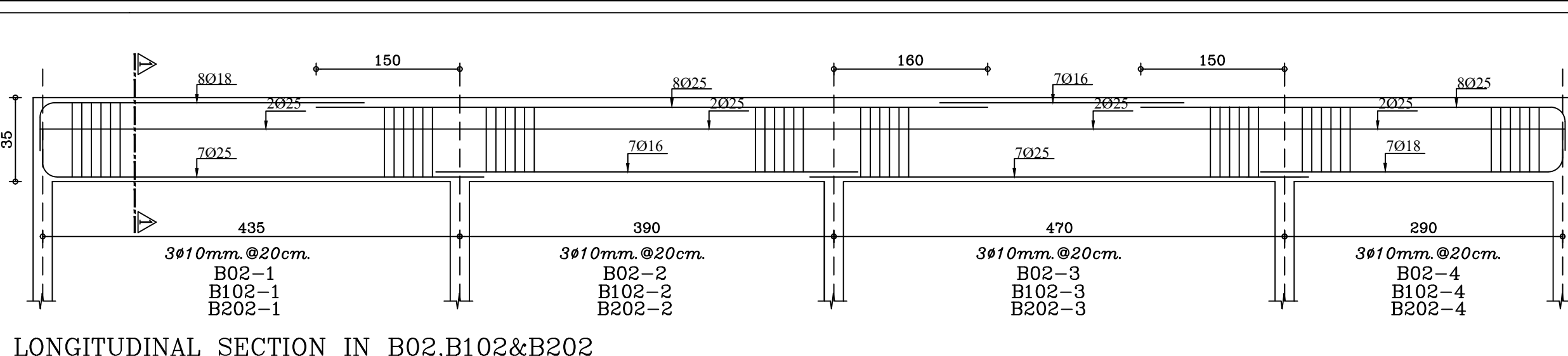
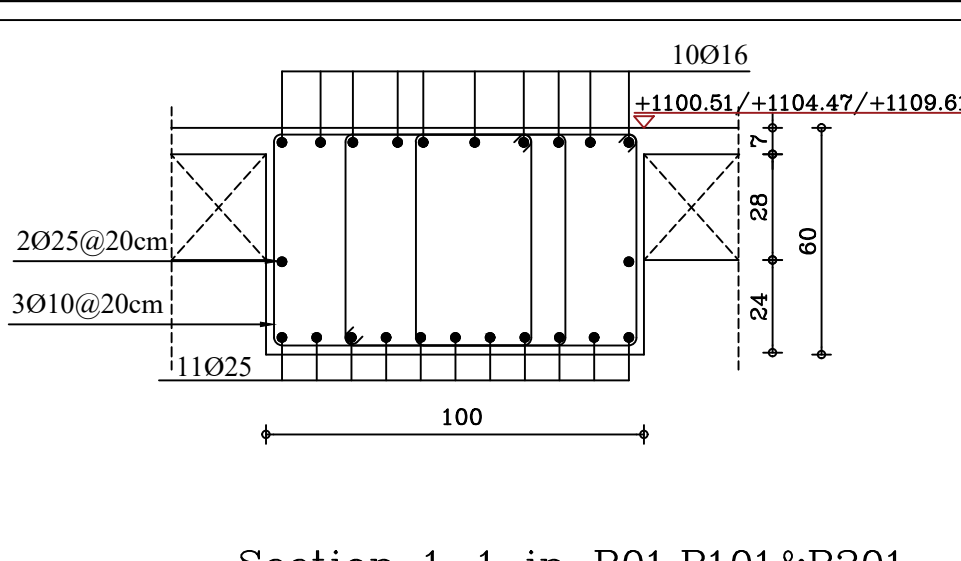
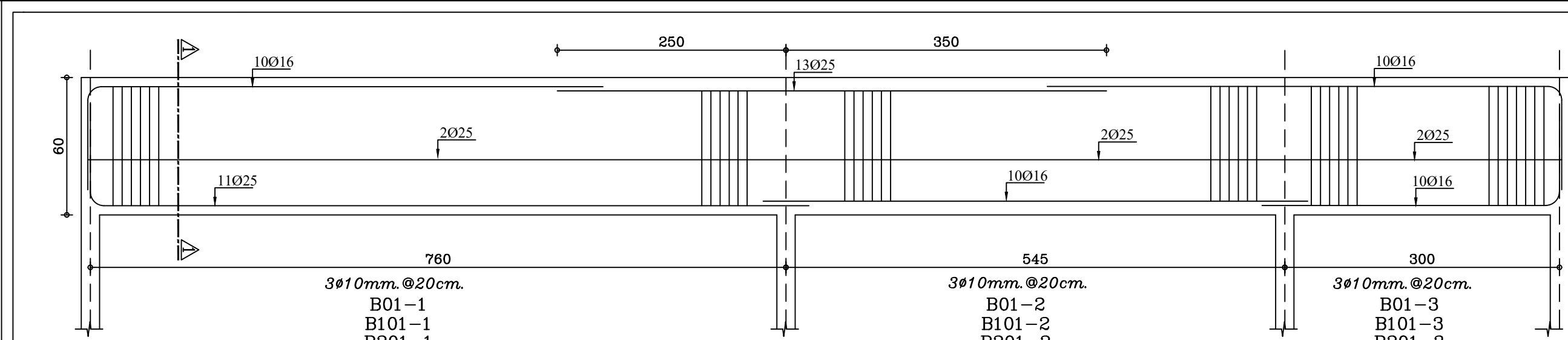
ROOF FLOOR
SLAB REINFORCEMENT PLAN

DRAWN BY : STRUC.T SCALE: 1:100

DESIGNED BY : H.S DATE : DEC.-2023

CHECKED BY : H.S PROJECT No. DRAWING No.

APPROVED BY: H.S S-15



NOTES:

PLOT NO : 1
DISTRICT : KARAK
BASIN : 14 TALAT EAWAHAD

REV. MARK DATE MADE BY REMARKS
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MADI & PARTNERS CONSULTING ENGINEERS
TEL:5829640-5829641 FAX:5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

DRG. TITLE BEAM DETAILS-01

DRAWN BY : STRUC.T SCALE: 1:100
DESIGNED BY : H.S DATE : DEC.-2023

CHECKED BY : H.S PROJECT No. DRAWING No.
APPROVED BY: H.S S-16



NOTES:

PLOT NO : 1
DISTRICT : KARAK
BASIN : 14 TALAT EAWAHAD

REV. MARK DATE MADE BY REMARKS
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C E TEL:5829640-5829641 FAX:5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

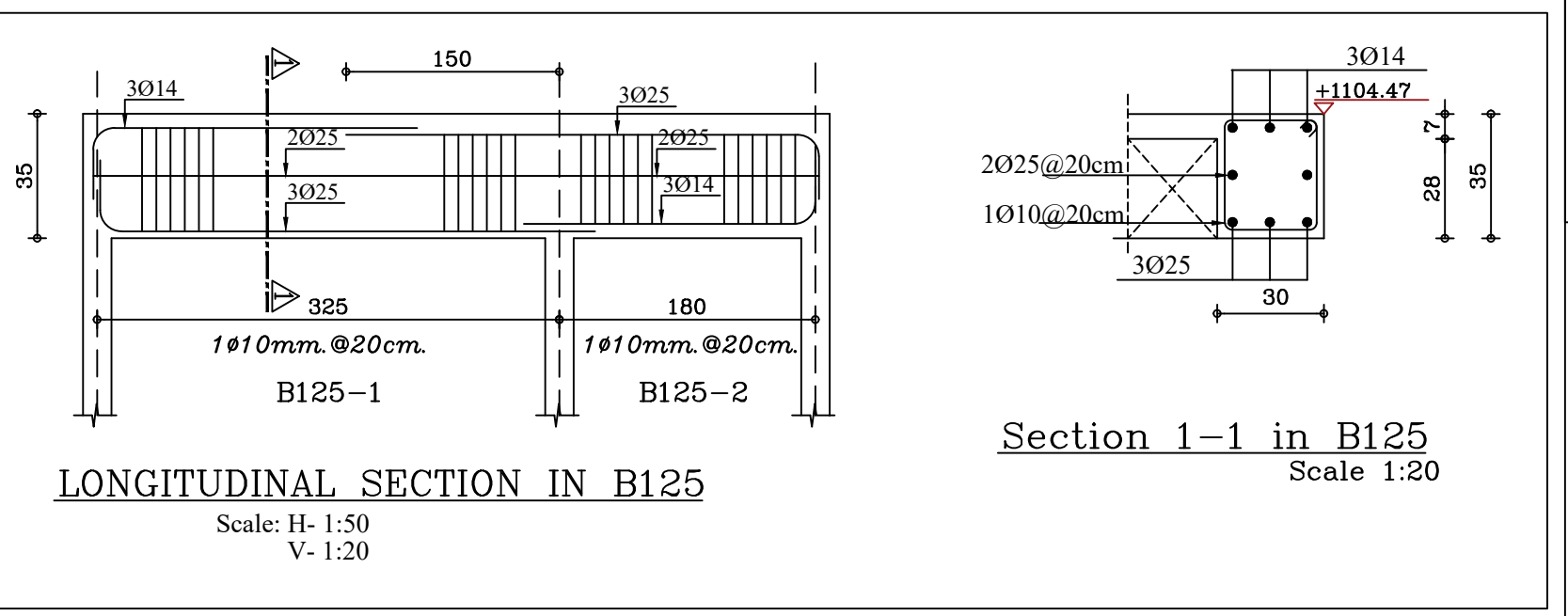
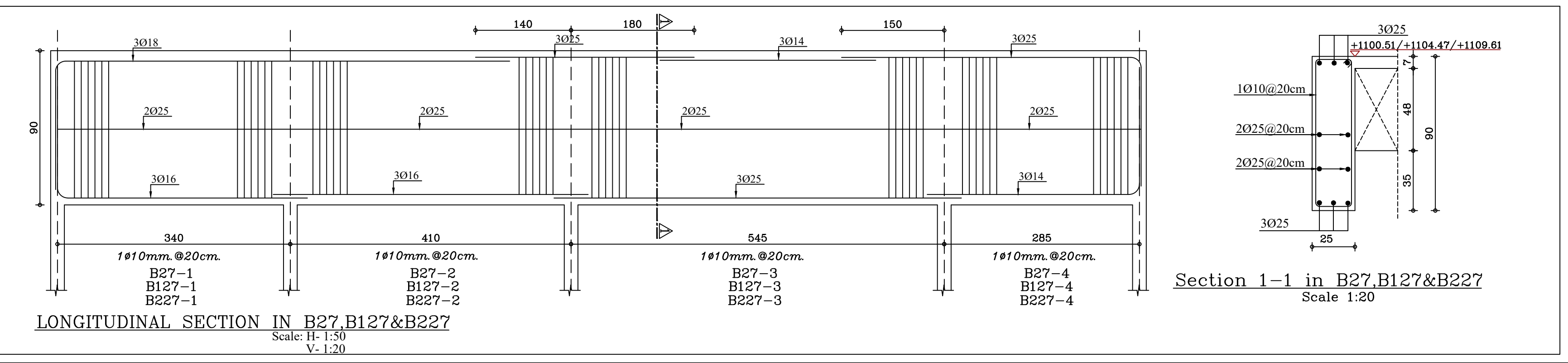
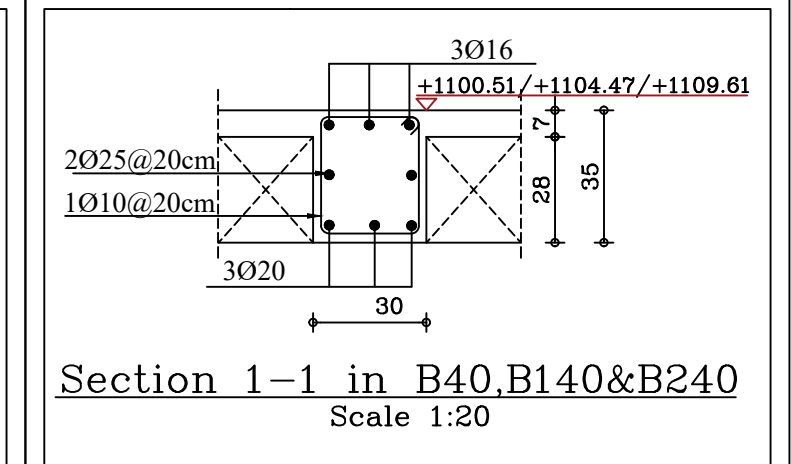
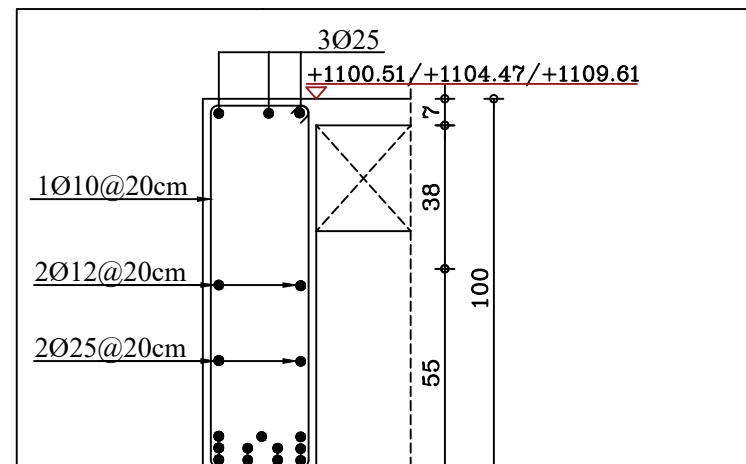
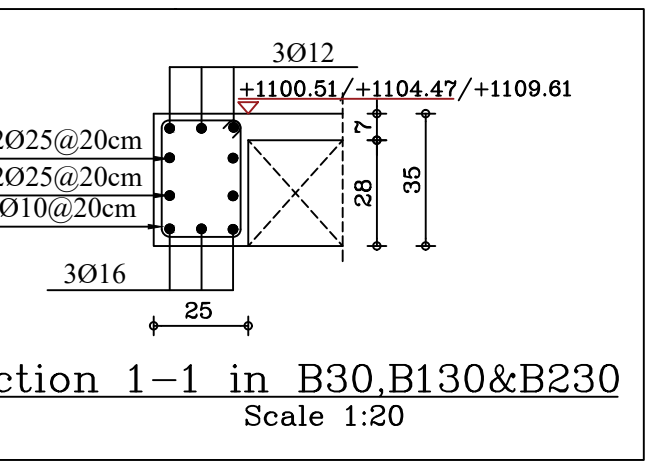
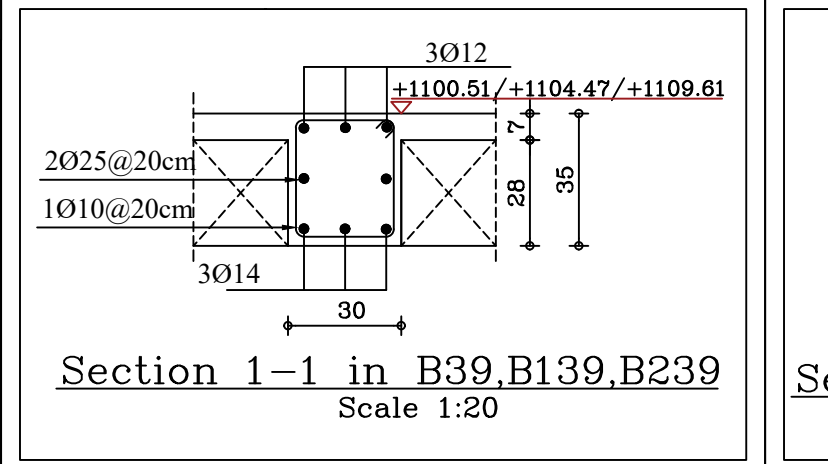
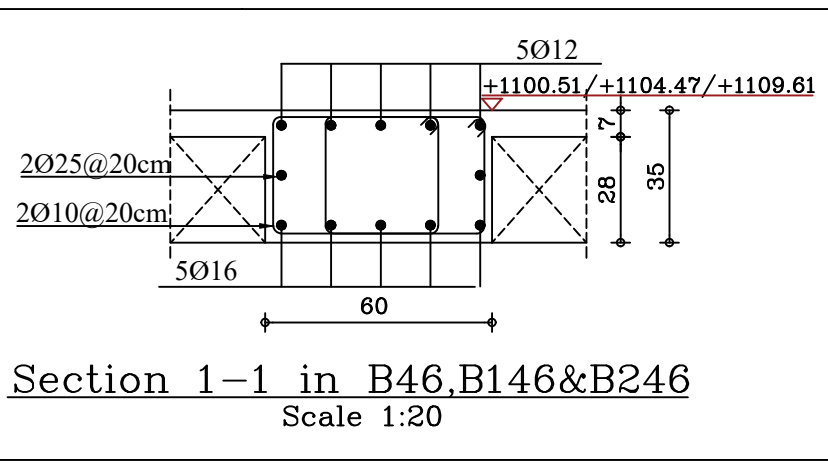
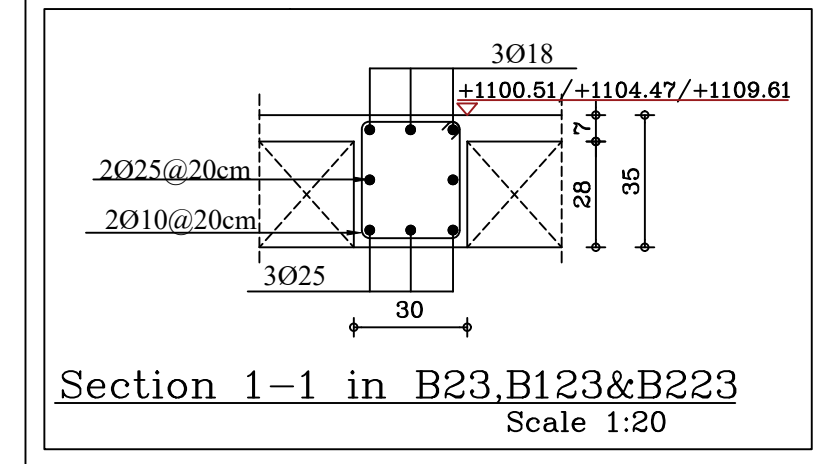
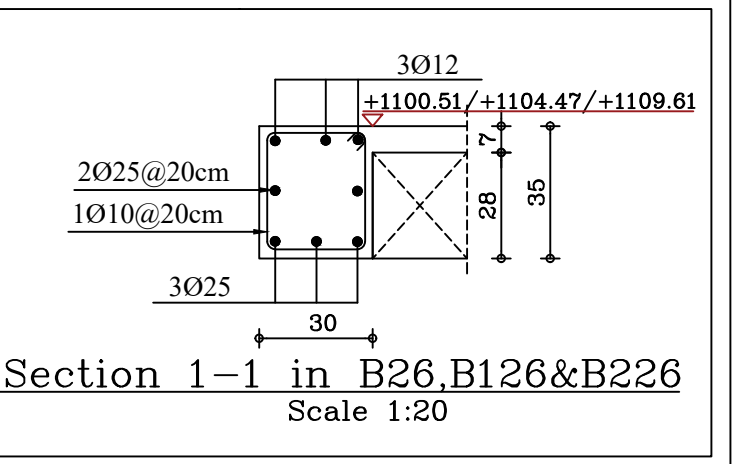
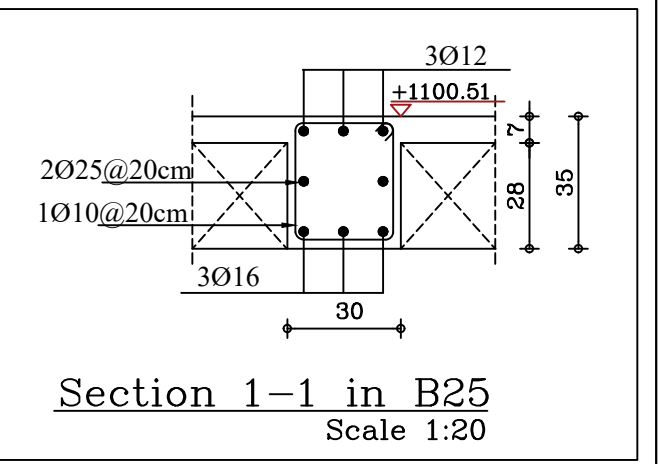
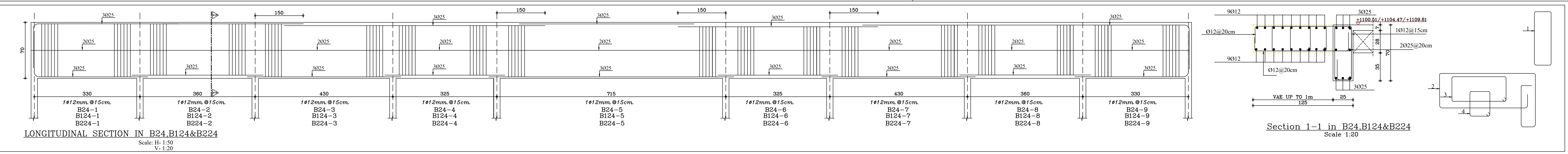
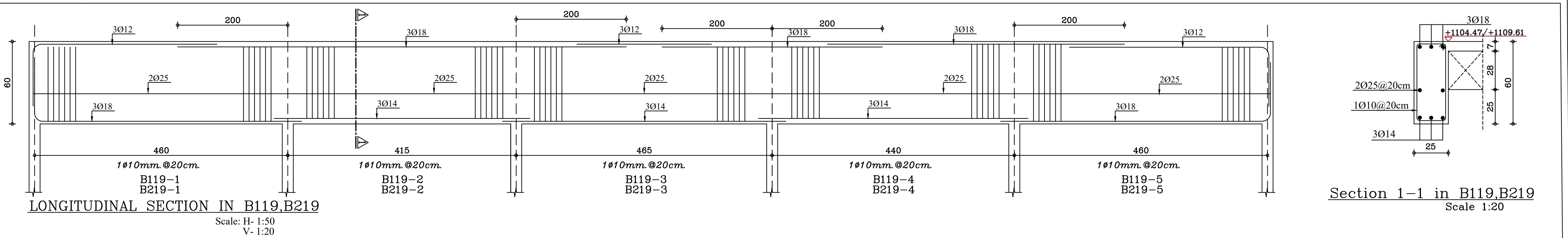
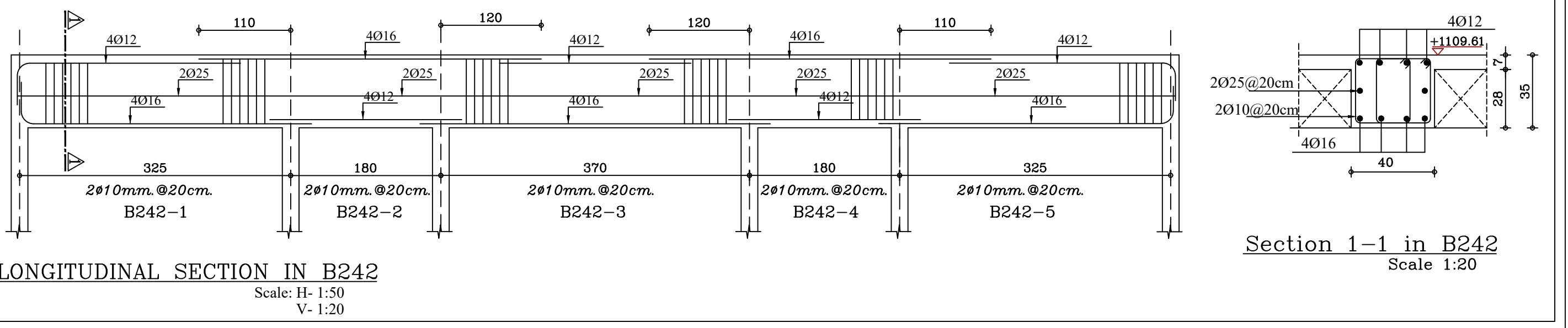
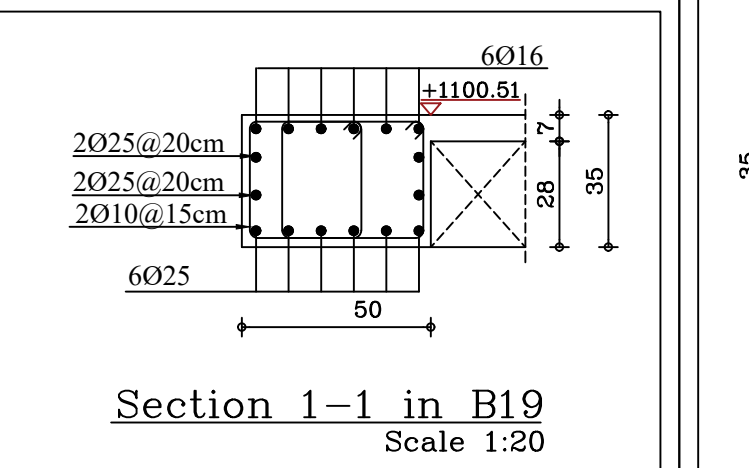
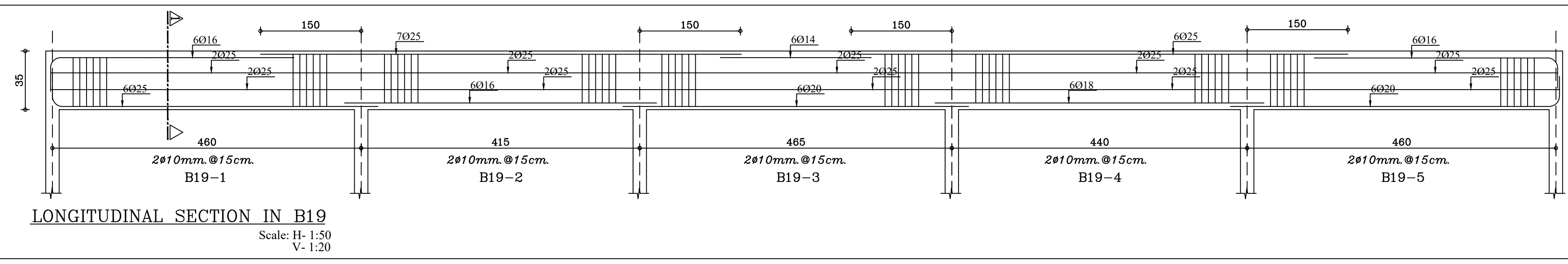
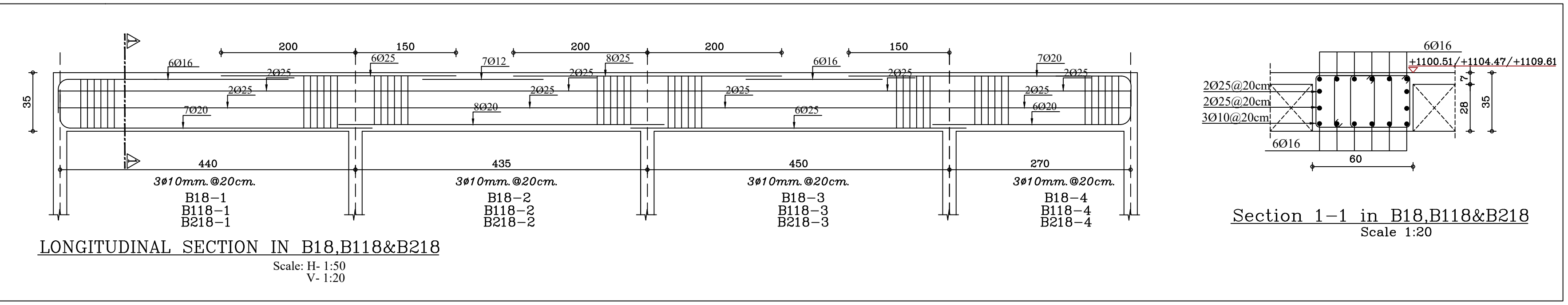
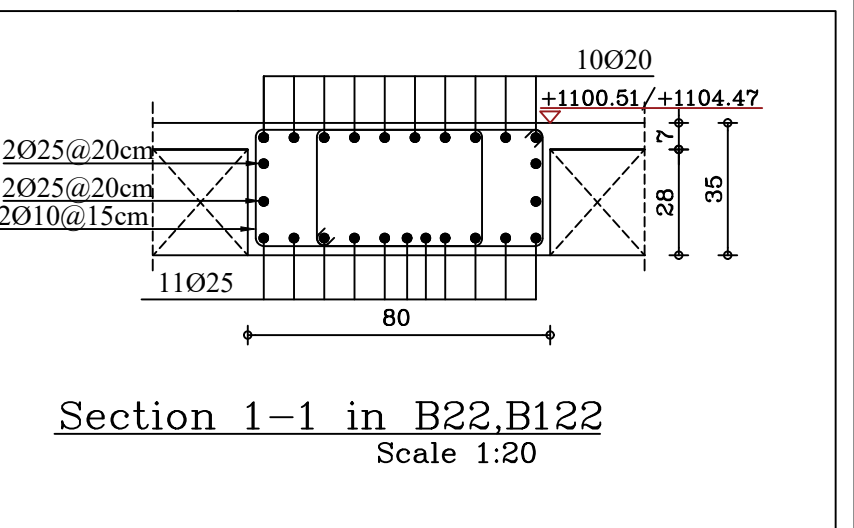
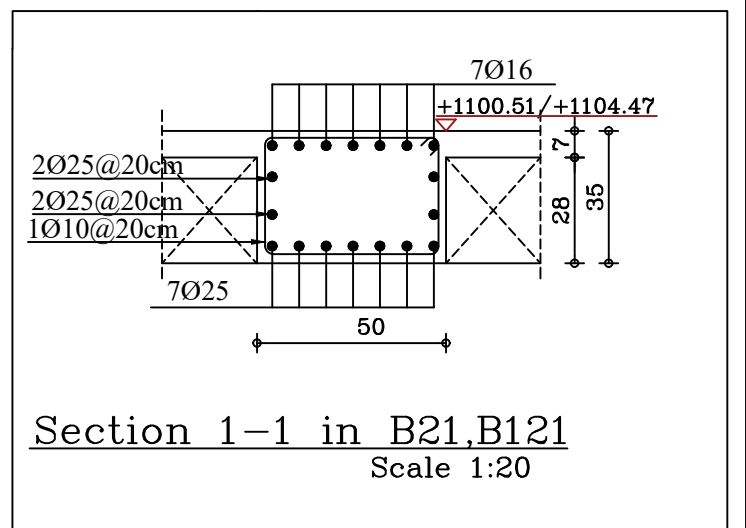
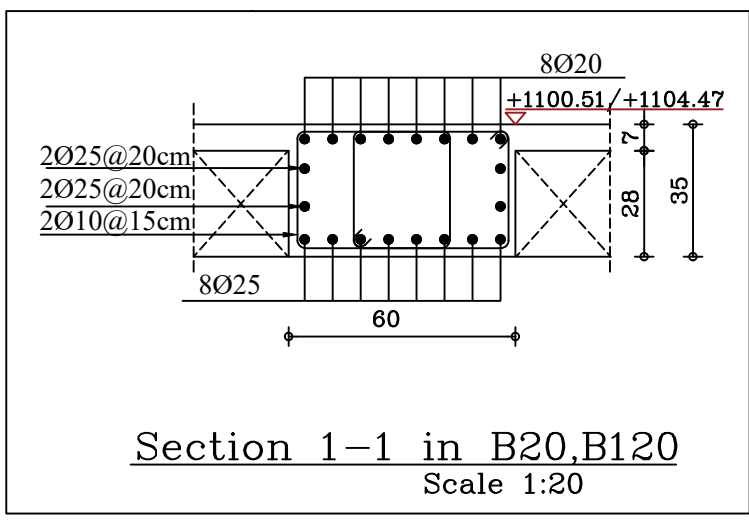
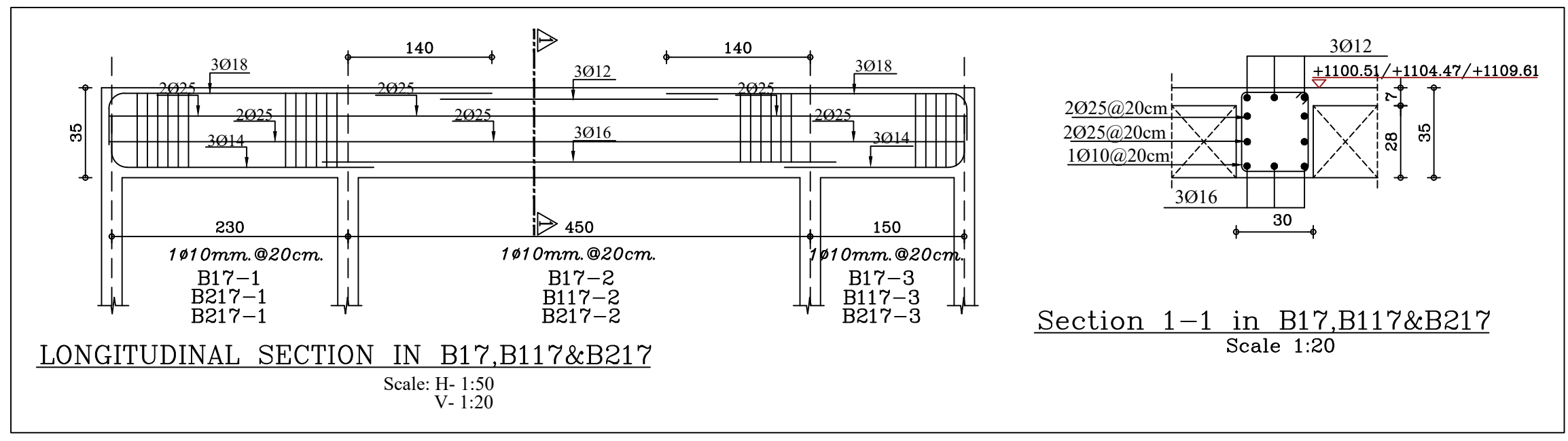
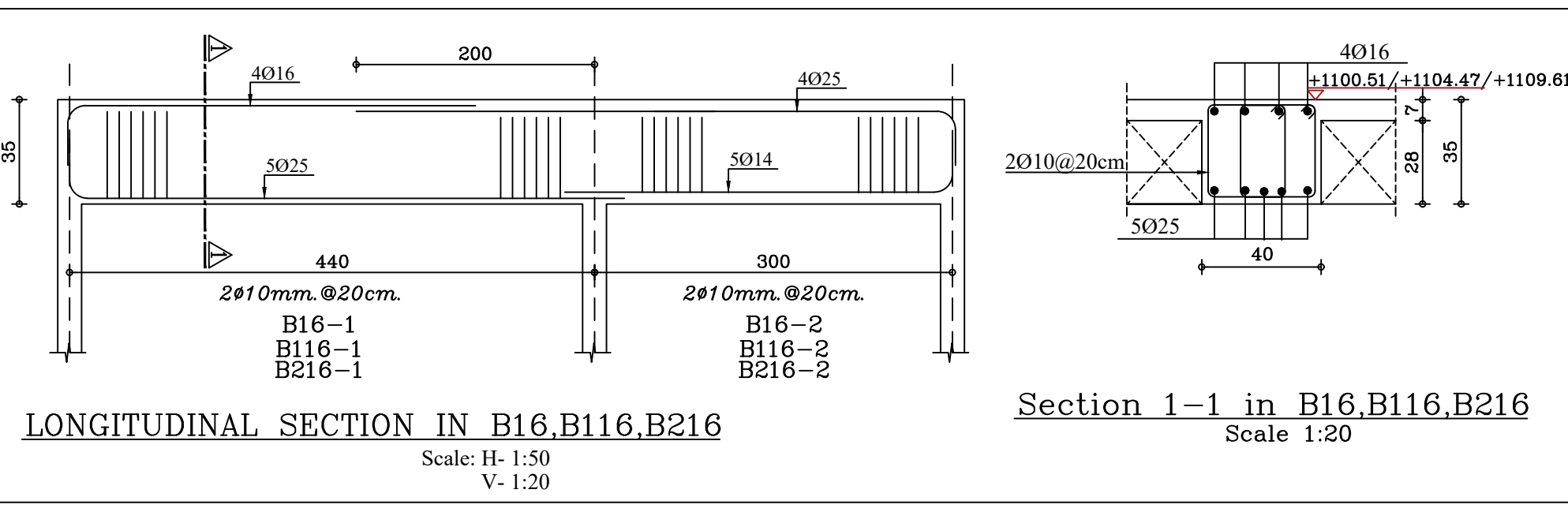
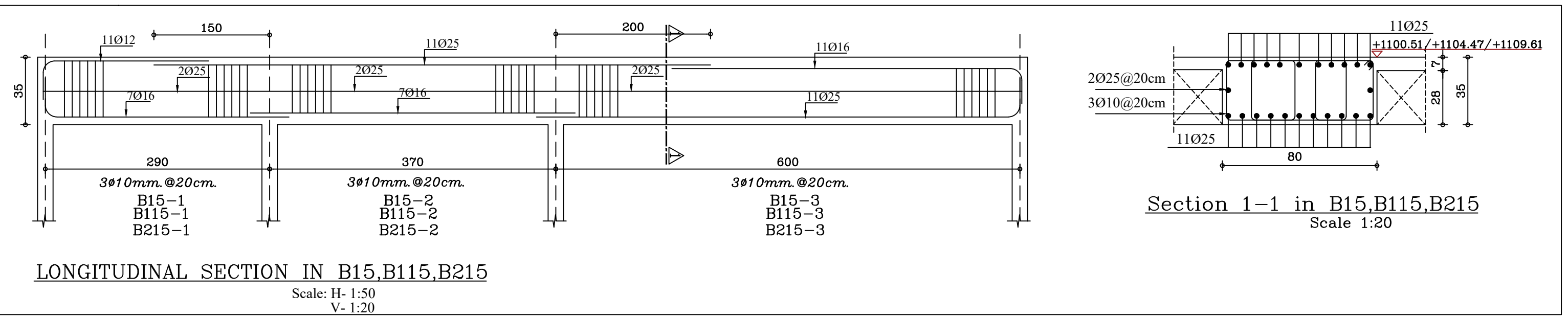
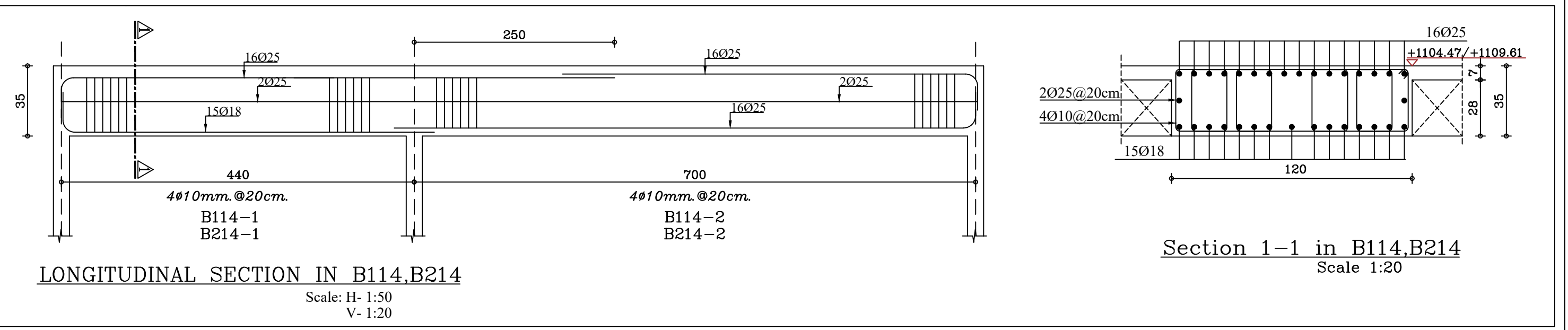
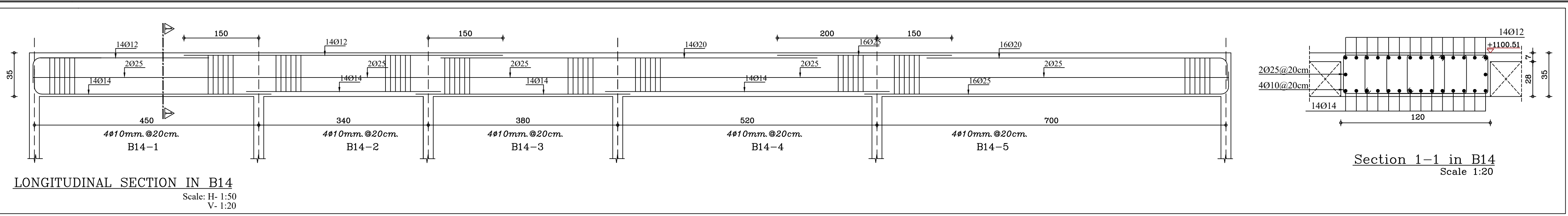
DRG. TITLE BEAM DETAILS-02

DRAWN BY : STRUC.T SCALE: 1:100

DESIGNED BY : H.S DATE : DEC.-2023

CHECKED BY : H.S PROJECT No. DRAWING No.

APPROVED BY: H.S S-17





NOTES:

PLOT NO : 1
DISTRICT : KARAK
BASIN : 14 TALAT EAWAHAD

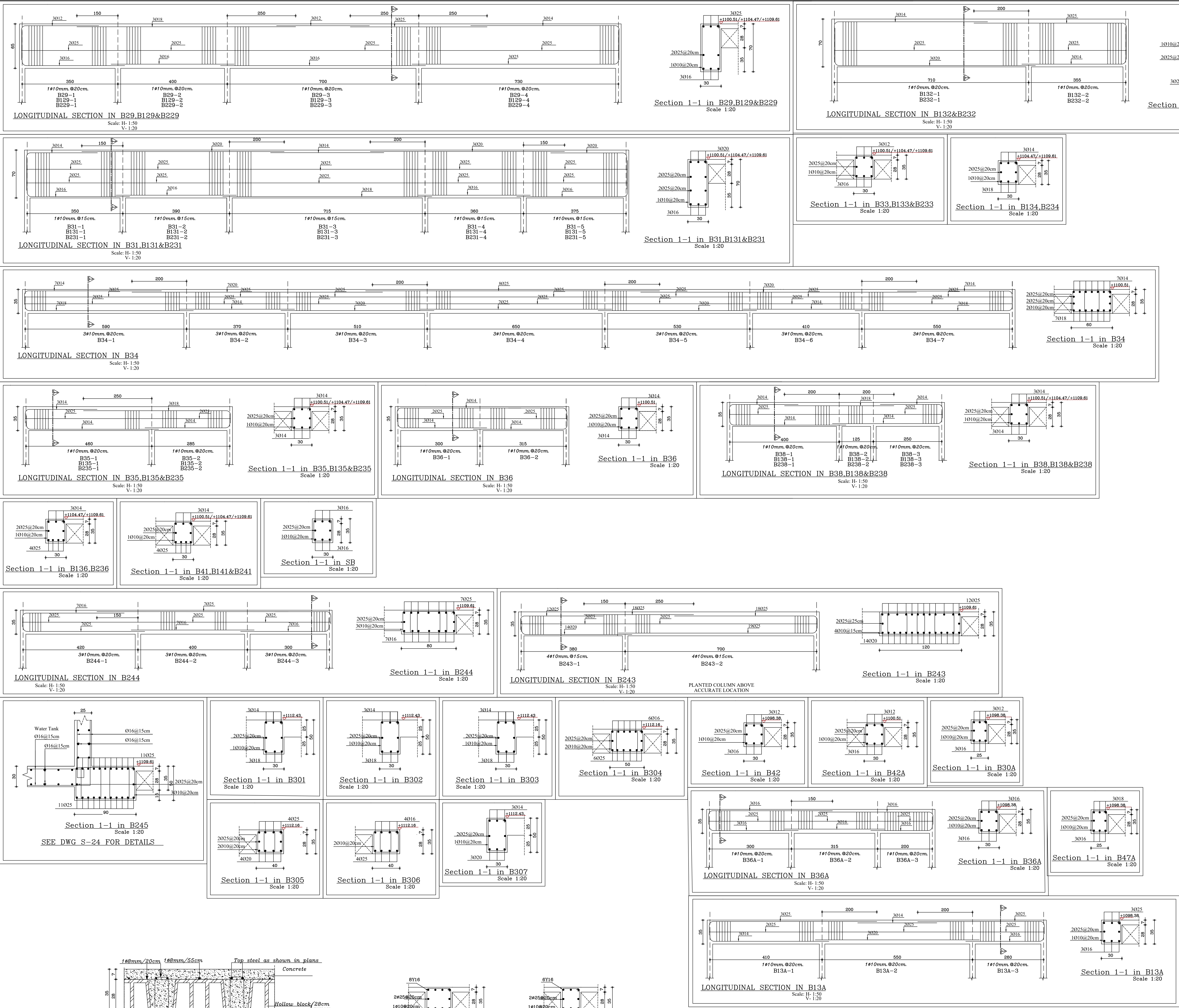
REV. MARK DATE MADE BY REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

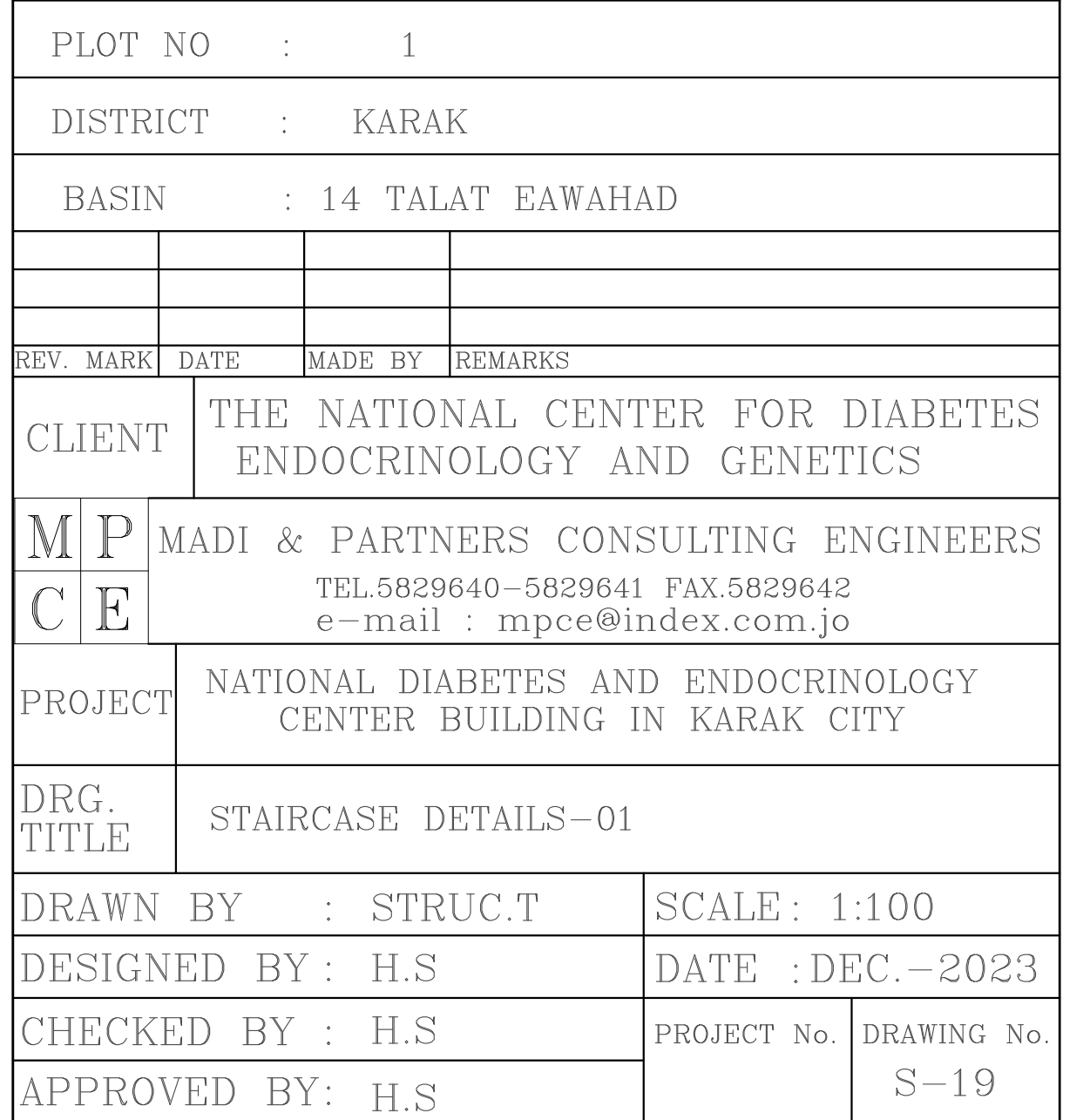
M P MADI & PARTNERS CONSULTING ENGINEERS
C E TEL:5829640-5829641 FAX:5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN KARAK CITY

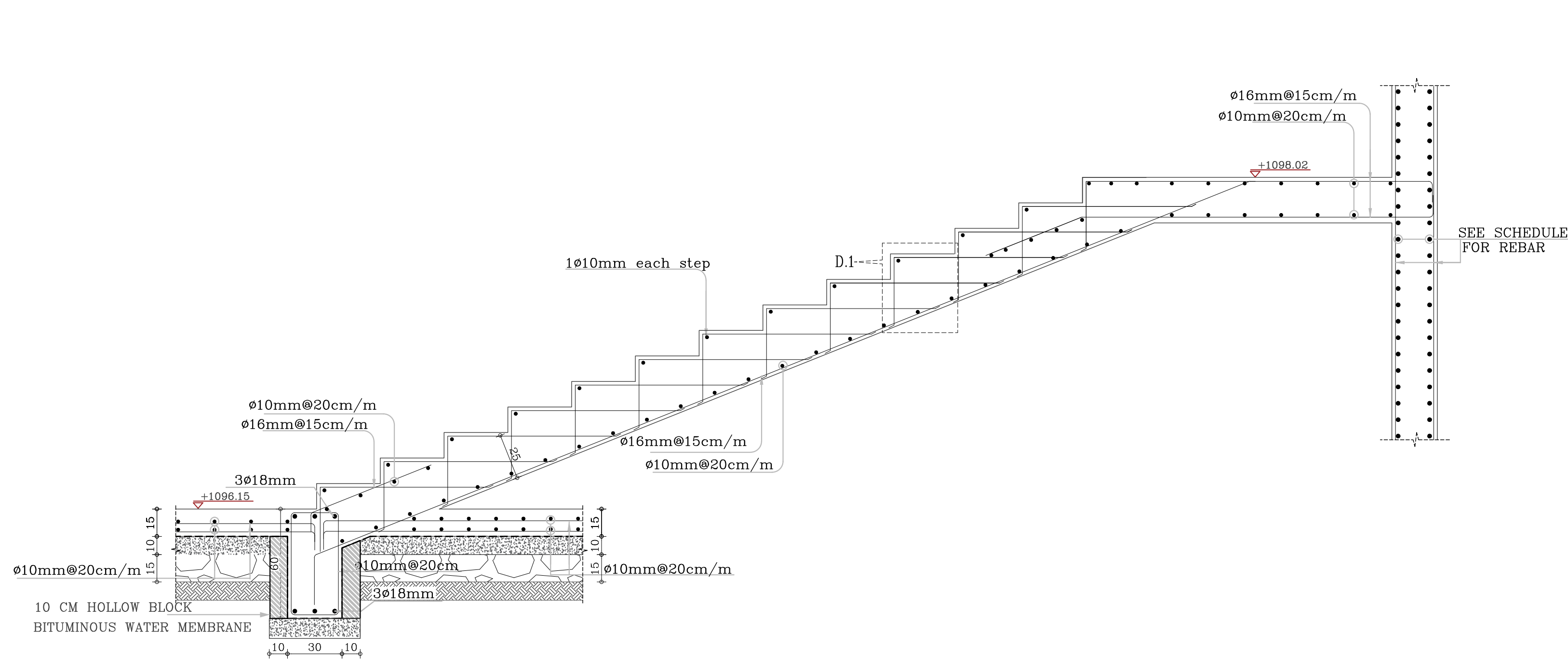
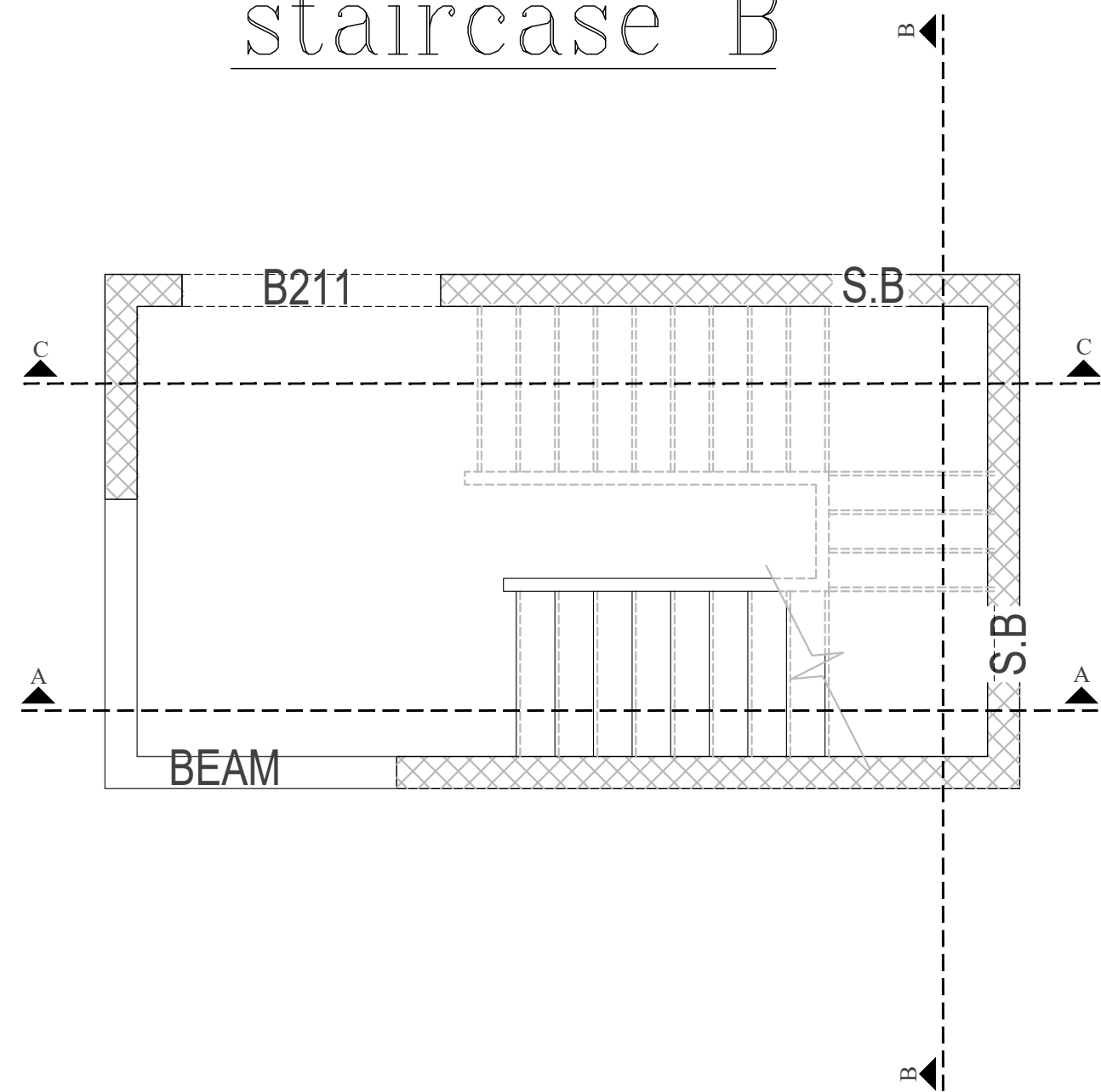
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DRAWN BY : STRUC.T SCALE: 1:100
DESIGNED BY : H.S DATE :DEC.-2023
CHECKED BY : H.S PROJECT No. S-18
APPROVED BY: H.S

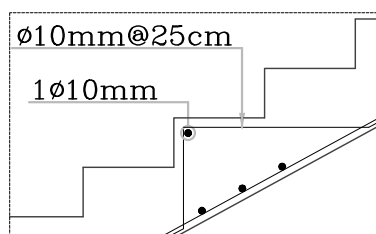




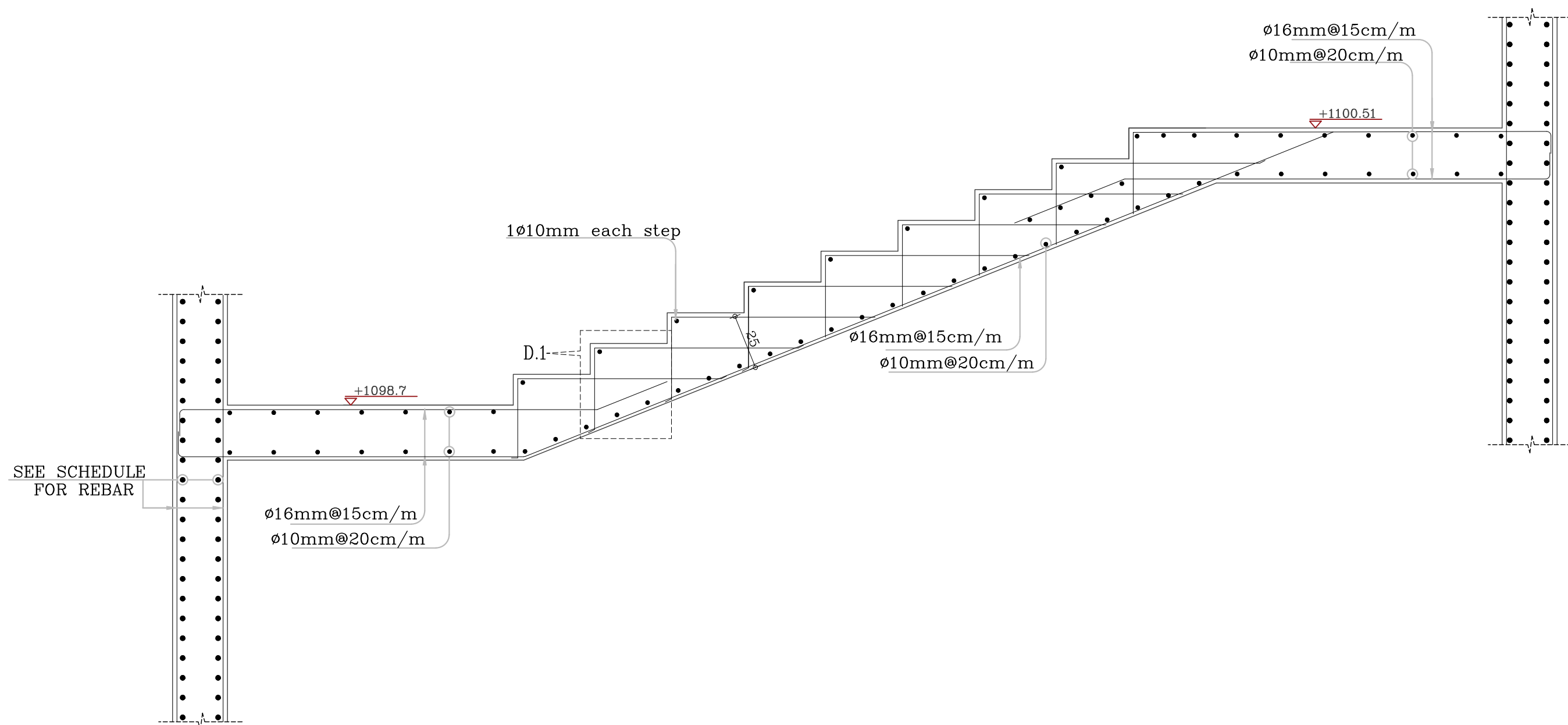
staircase B



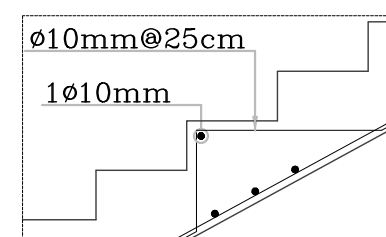
Section A-A in staircase
SCALE 1:20



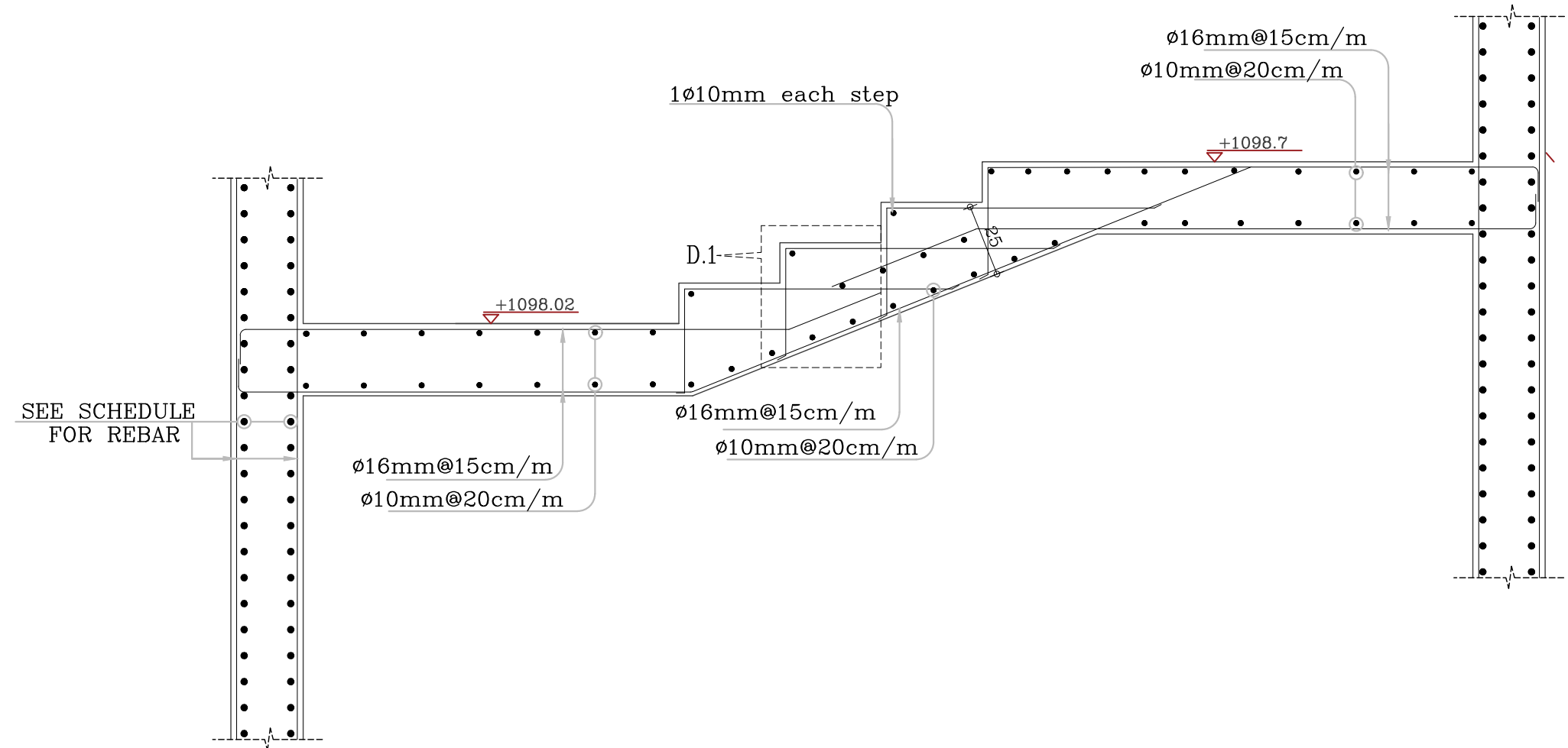
STAIRS DETAIL (D.1)
SCALE 1:20



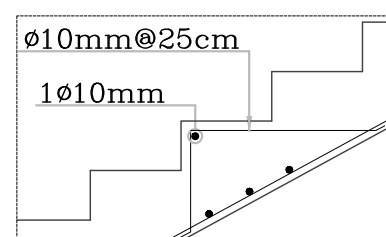
Section C-C in staircase
SCALE 1:20



STAIRS DETAIL (D.1)
SCALE 1:20



Section B-B in staircase
SCALE 1:20

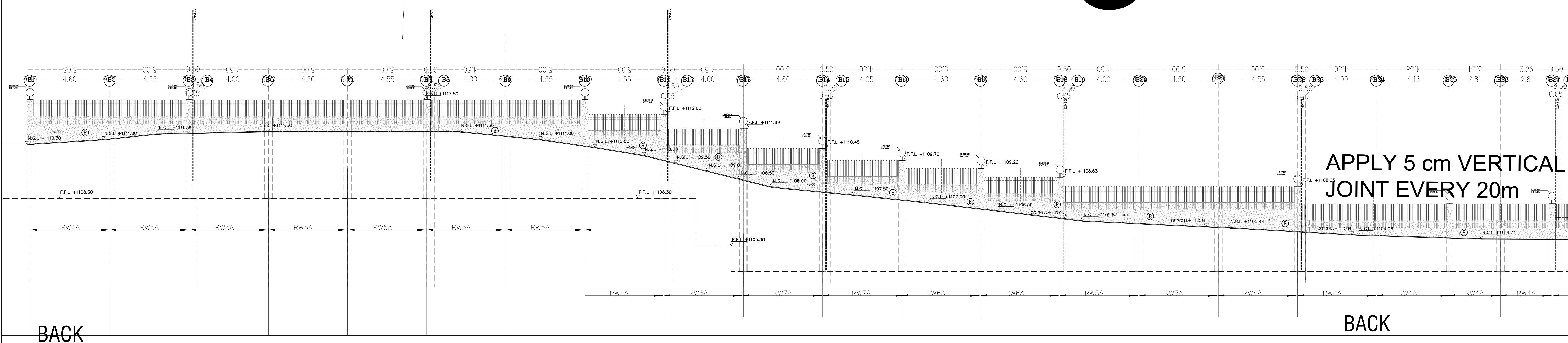
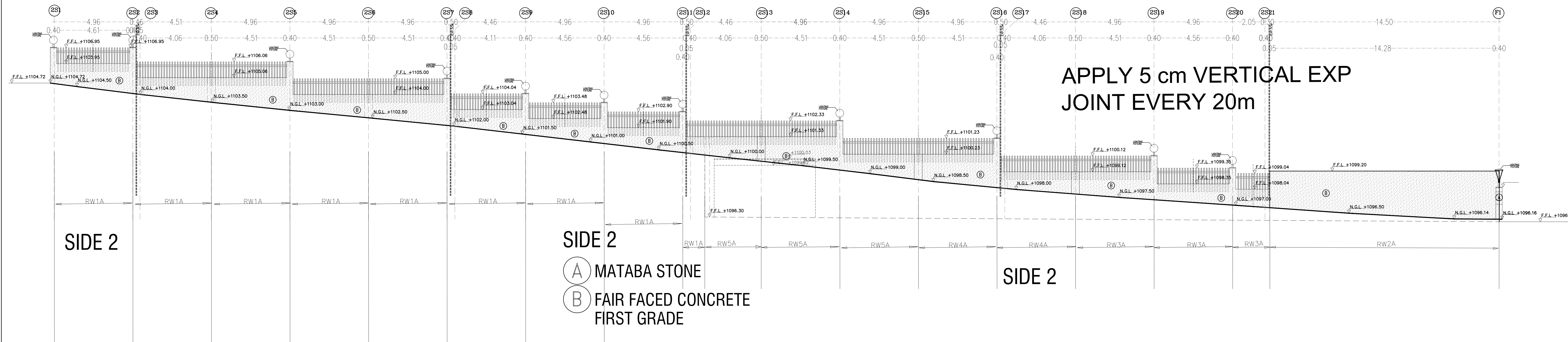
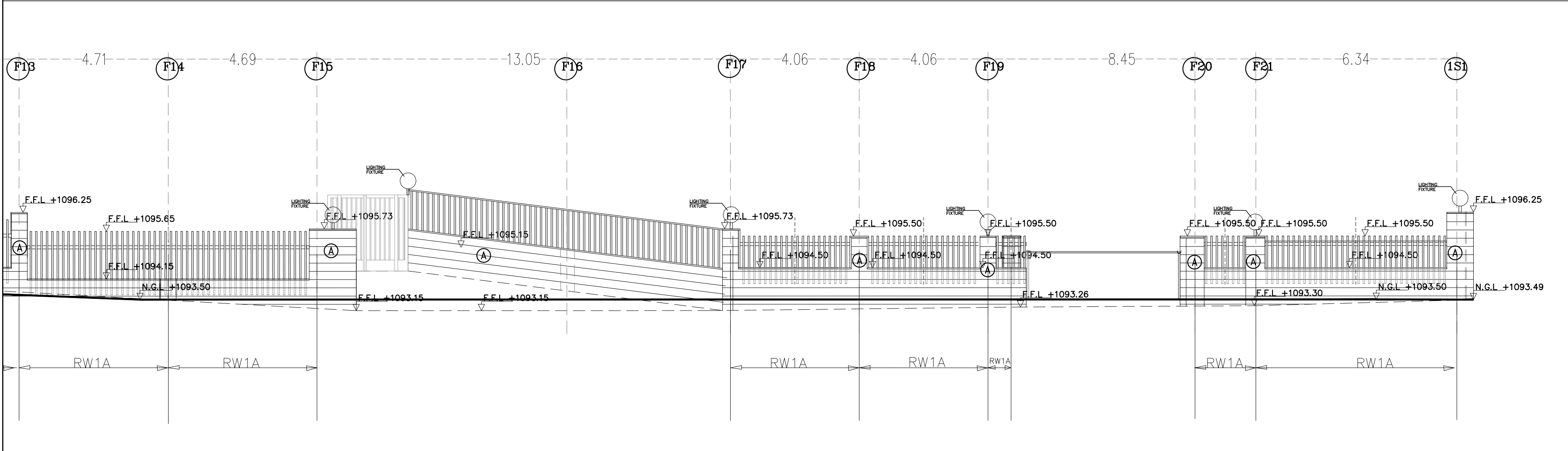
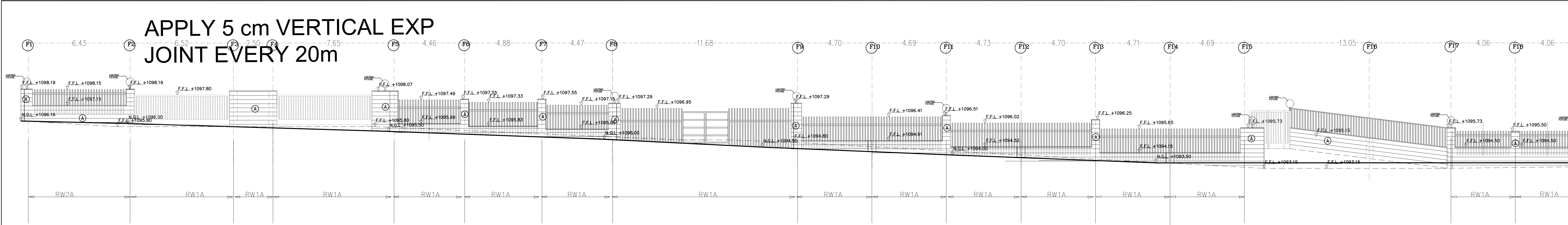


STAIRS DETAIL (D.1)
SCALE 1:20



NOTES:

PLOT NO		1	
DISTRICT		KARAK	
BASIN		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
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M P C E		MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo	
PROJECT		NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY	
DRG. TITLE		STAIRCASE DETAILS-02	
DRAWN BY : STRUC.T		SCALE: 1:100	
DESIGNED BY : H.S		DATE : DEC.-2023	
CHECKED BY : H.S		PROJECT No.	DRAWING No. S-20
APPROVED BY: H.S			



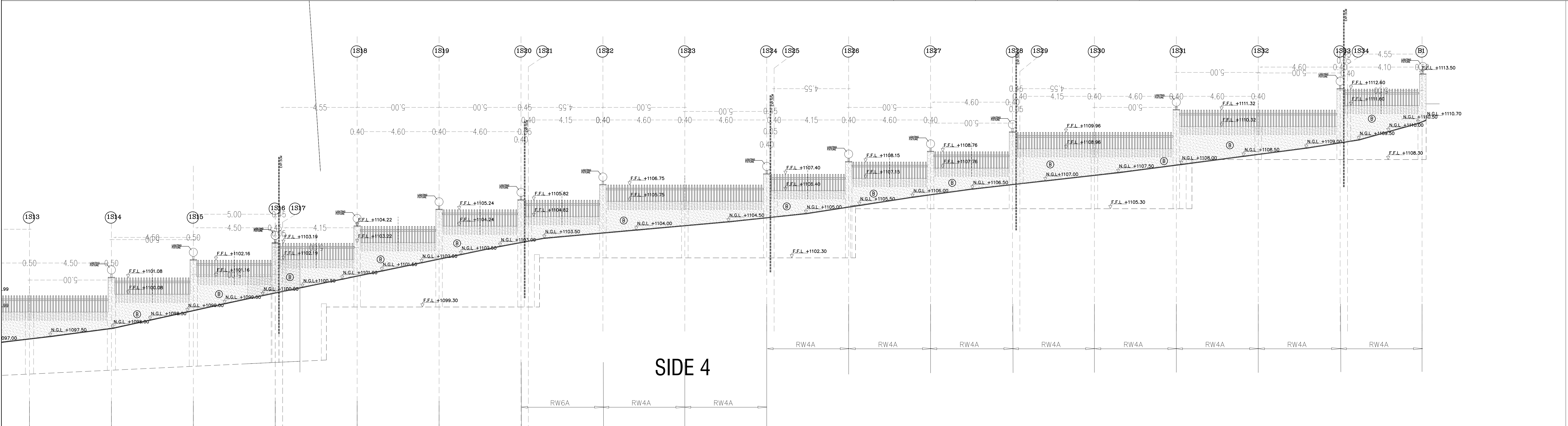
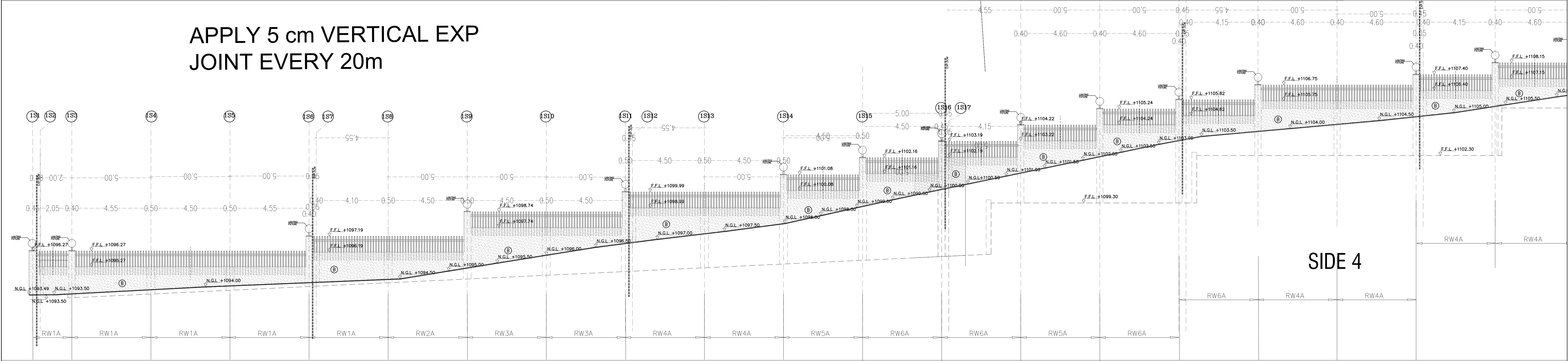
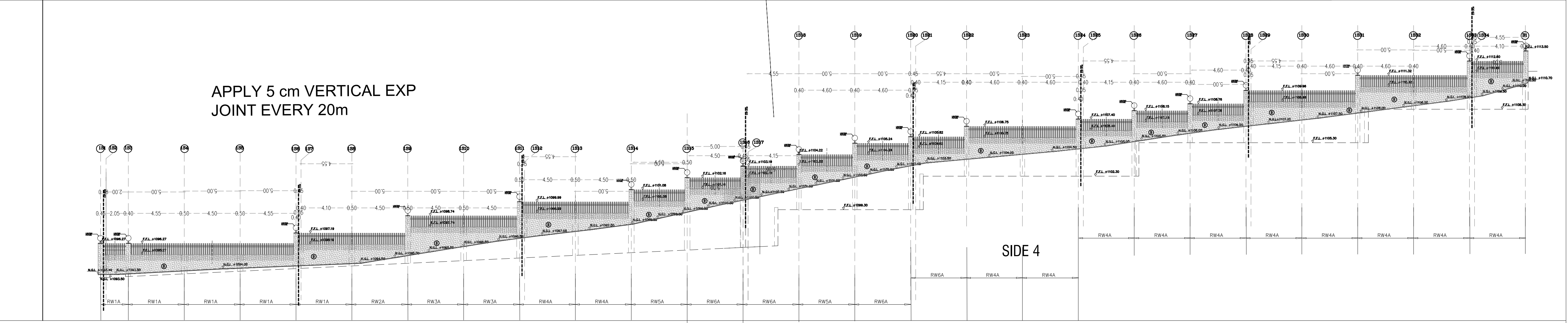
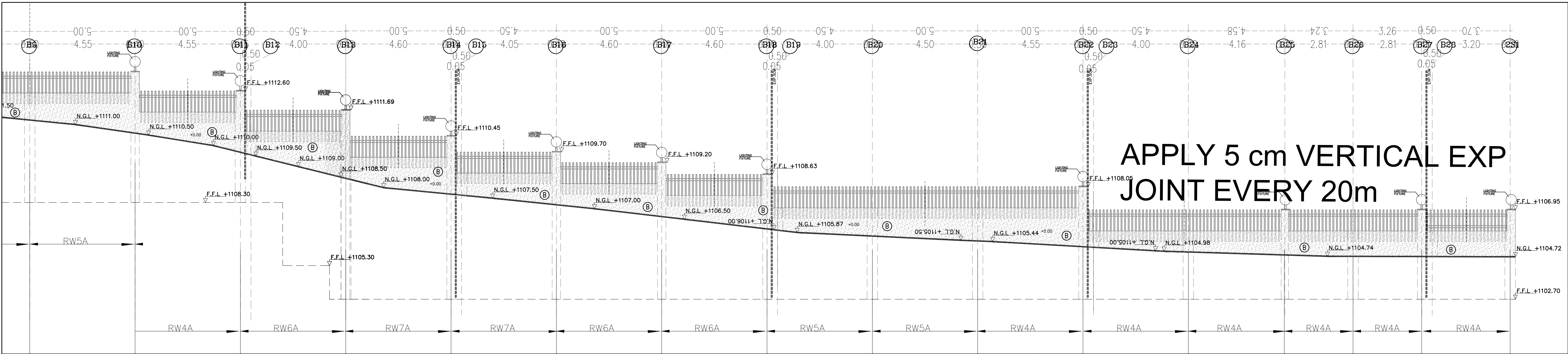
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PLOT NO		:	1	
DISTRICT		:	KARAK	
BASIN		:	14 TALAT EAWAHAD	
1	1-9-2024	H.S	SUPERSEDE S-21	
REV. MARK	DATE	MADE BY	REMARKS	
CLIENT		THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo			
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY			
DRG. TITLE	FENCES DETAILS-01			
DRAWN BY : STRUC.T			SCALE: AS SHOWN	
DESIGNED BY : H.S			DATE : DEC.-2023	
CHECKED BY : H.S			PROJECT No.	DRAWING No. S-21-1
APPROVED BY : H.S				



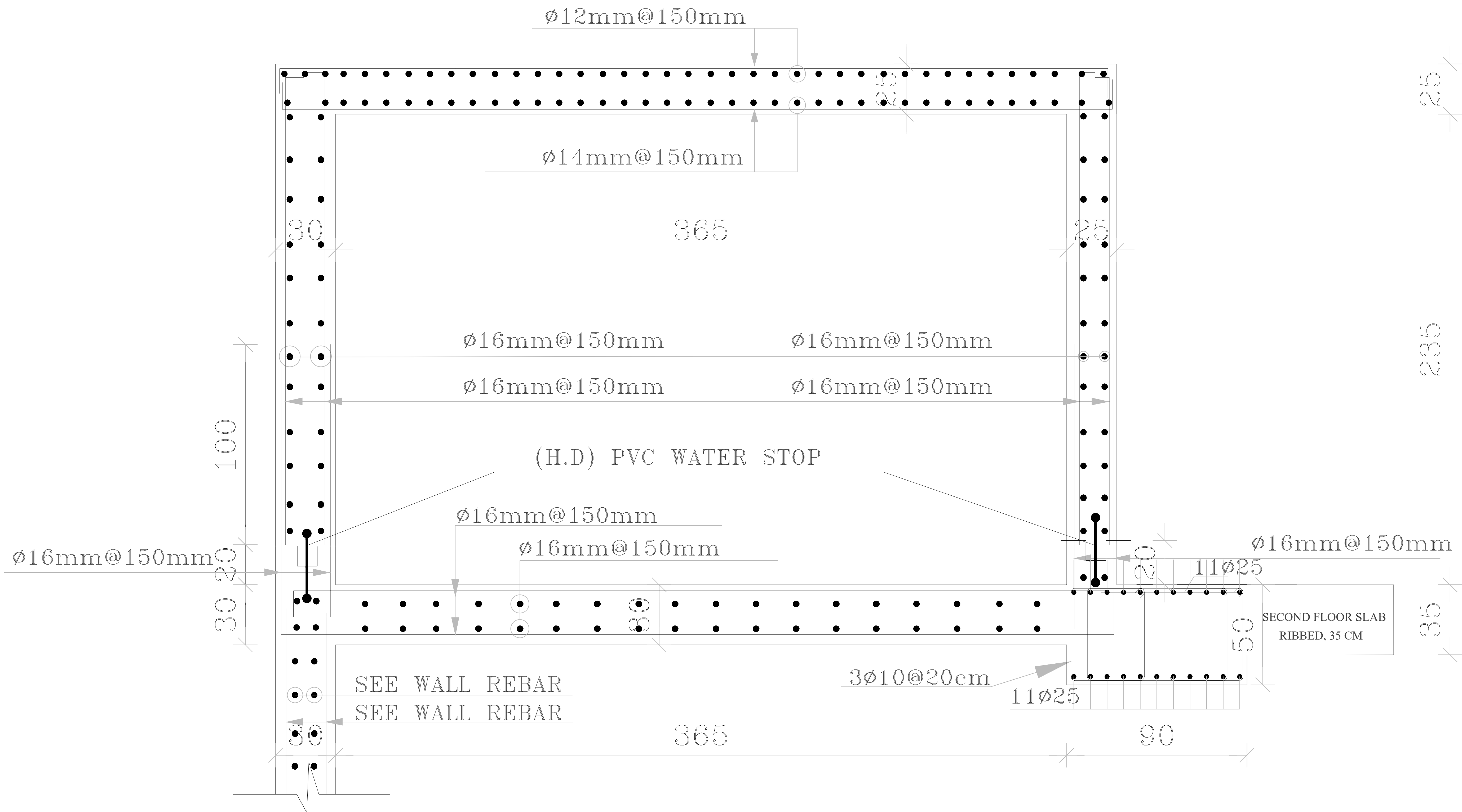
NOTES:

PLOT NO : 1			
DISTRICT : KARAK			
BASIN : 14 TALAT EAWAHAD			
1	1-9-2024	H.S	SUPERSEDE S-22
REV	MARK	DATE	MADE BY
1	1-9-2024	H.S	SUPERSEDE S-22
CLIENT THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
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PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY			
DRG. TITLE FENCES DETAILS-02			
DRAWN BY : STRUC.T		SCALE: AS SHOWN	
DESIGNED BY : H.S		DATE :DEC.-2023	
CHECKED BY : H.S		PROJECT No.	DRAWING No.
APPROVED BY: H.S			S-22-1





NOTES:



PLOT NO : 1

DISTRICT : KARAK

BASIN : 14 TALAT EAWAHAD

REV.	MARK	DATE	MADE BY	REMARKS
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CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
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M P C E	MADI & PARTNERS CONSULTING ENGINEERS			
	TEL.5829640-5829641 FAX.5829642			
	e-mail : mpce@index.com.jo			

PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY			
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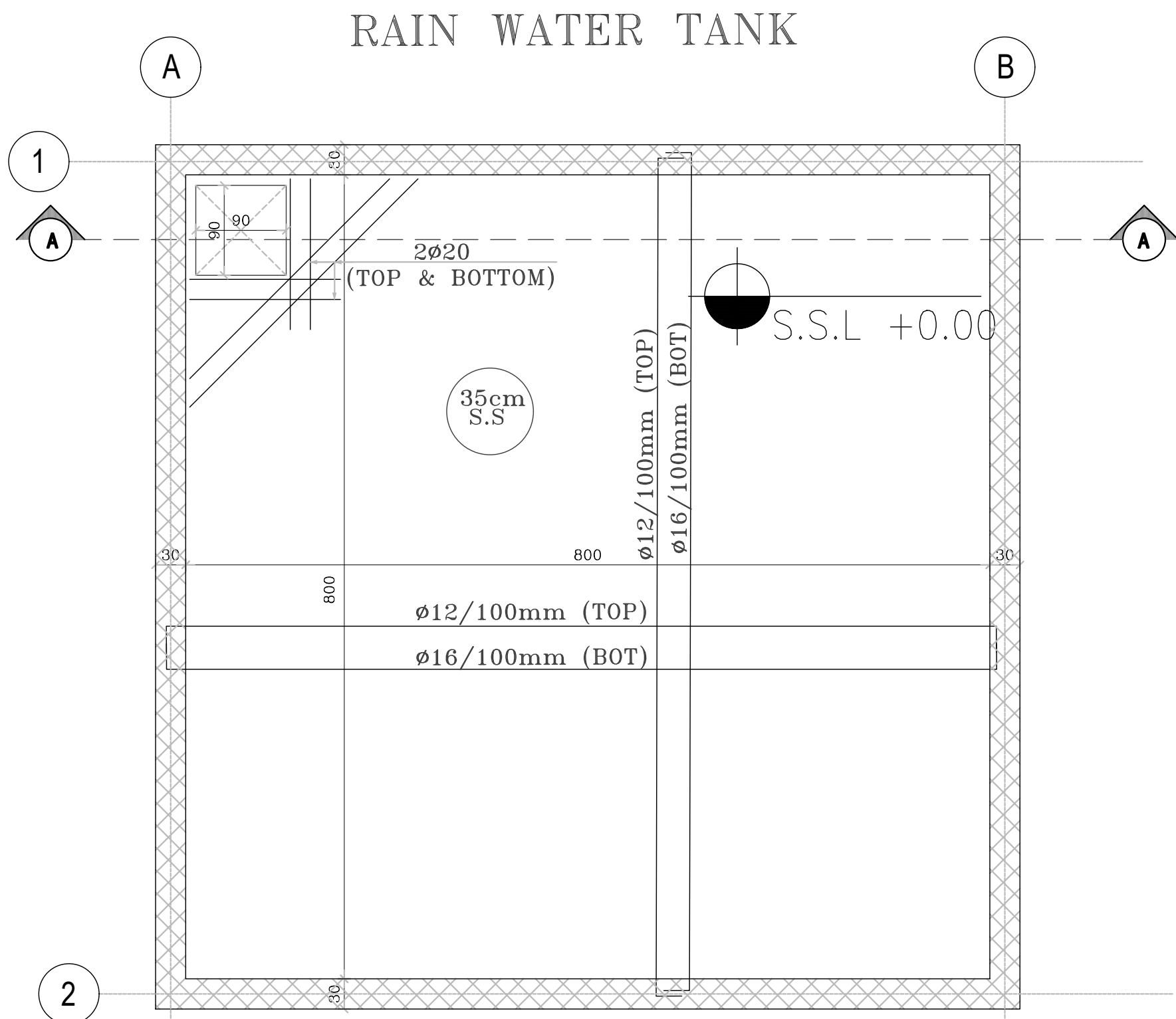
DRG. TITLE	ROOF WATER TANK STRUCTURAL DETAILS			
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DRAWN BY	: ST.TEAM	SCALE	:AS SHOWN
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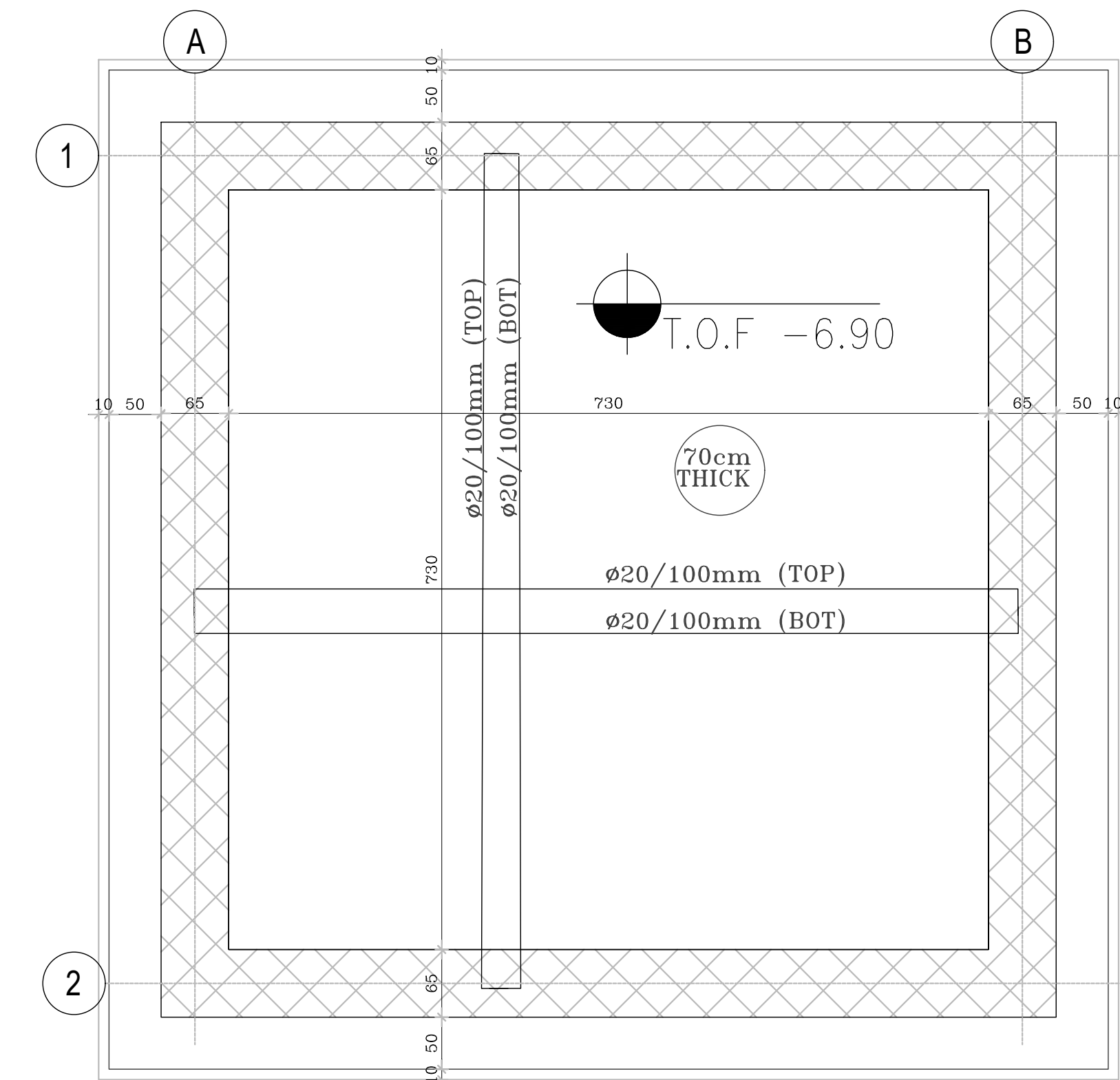
DESIGNED BY	: ST.TEAM	DATE	:DEC.-2023
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CHECKED BY	: H.A.	PROJECT No.	DRAWING No.
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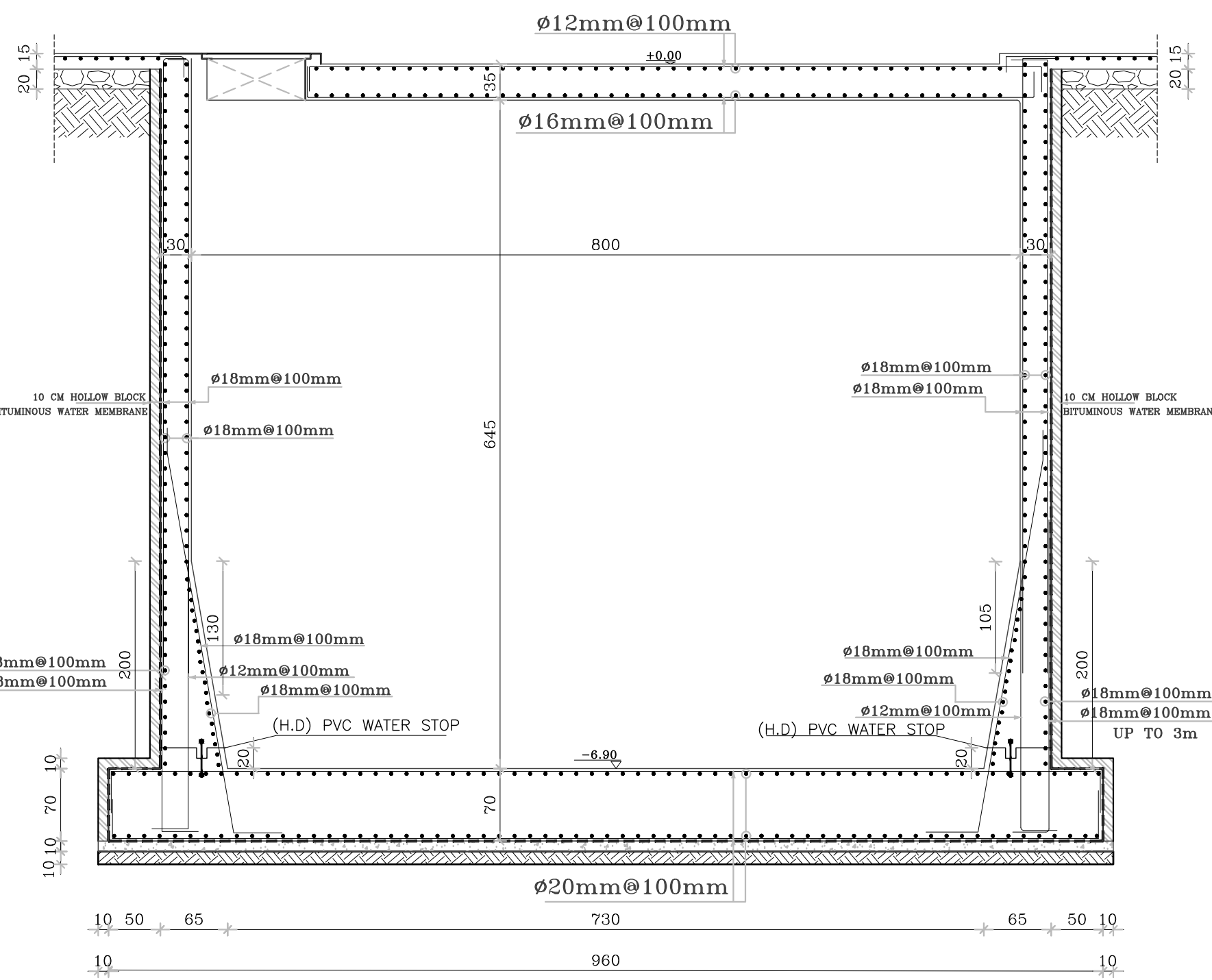
APPROVED BY	: H.A.		S-23
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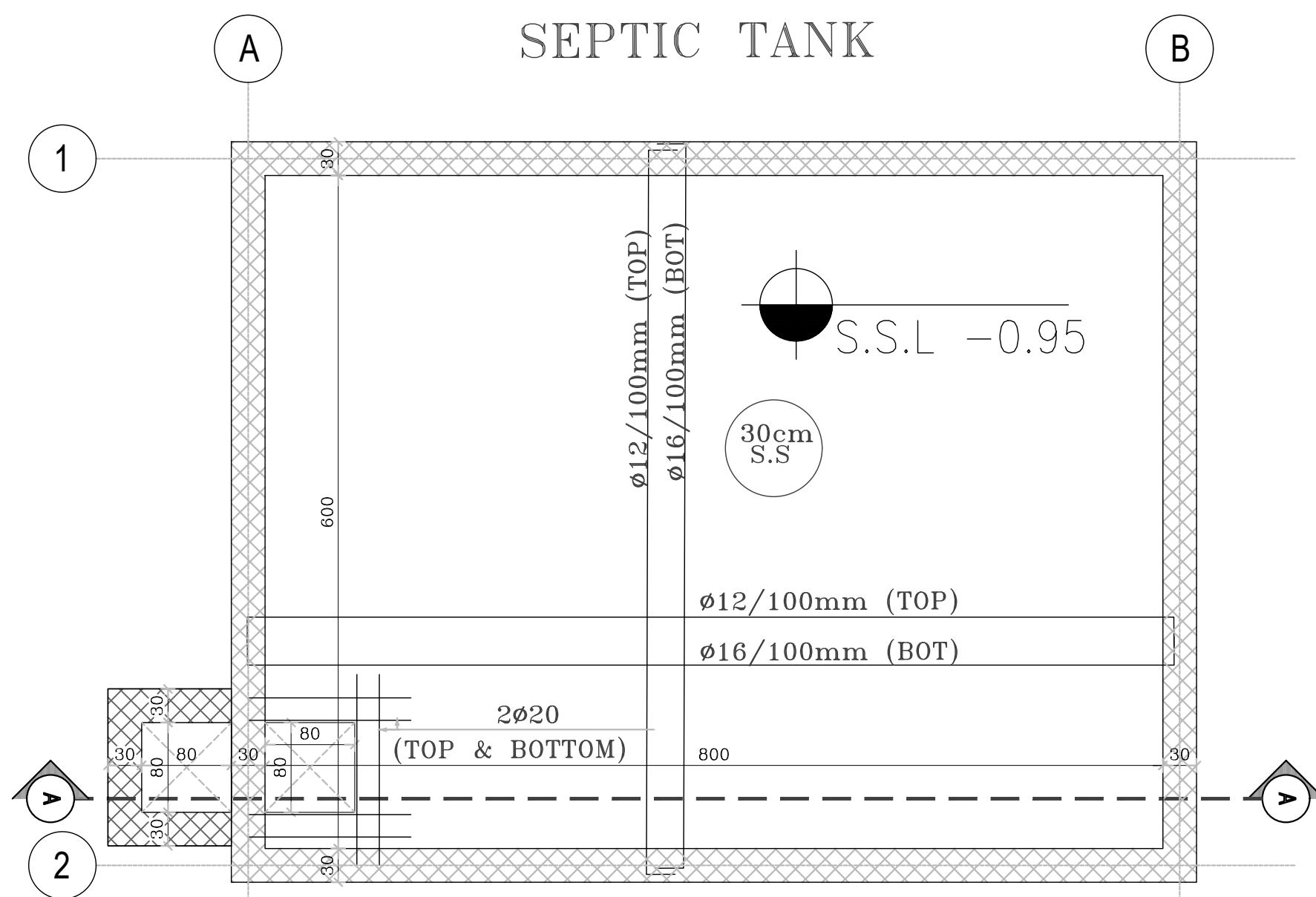
UNDER GROUND RAIN WATER TANK - TOP SLAB REINFORCEMENT PLAN
SCALE 1:50



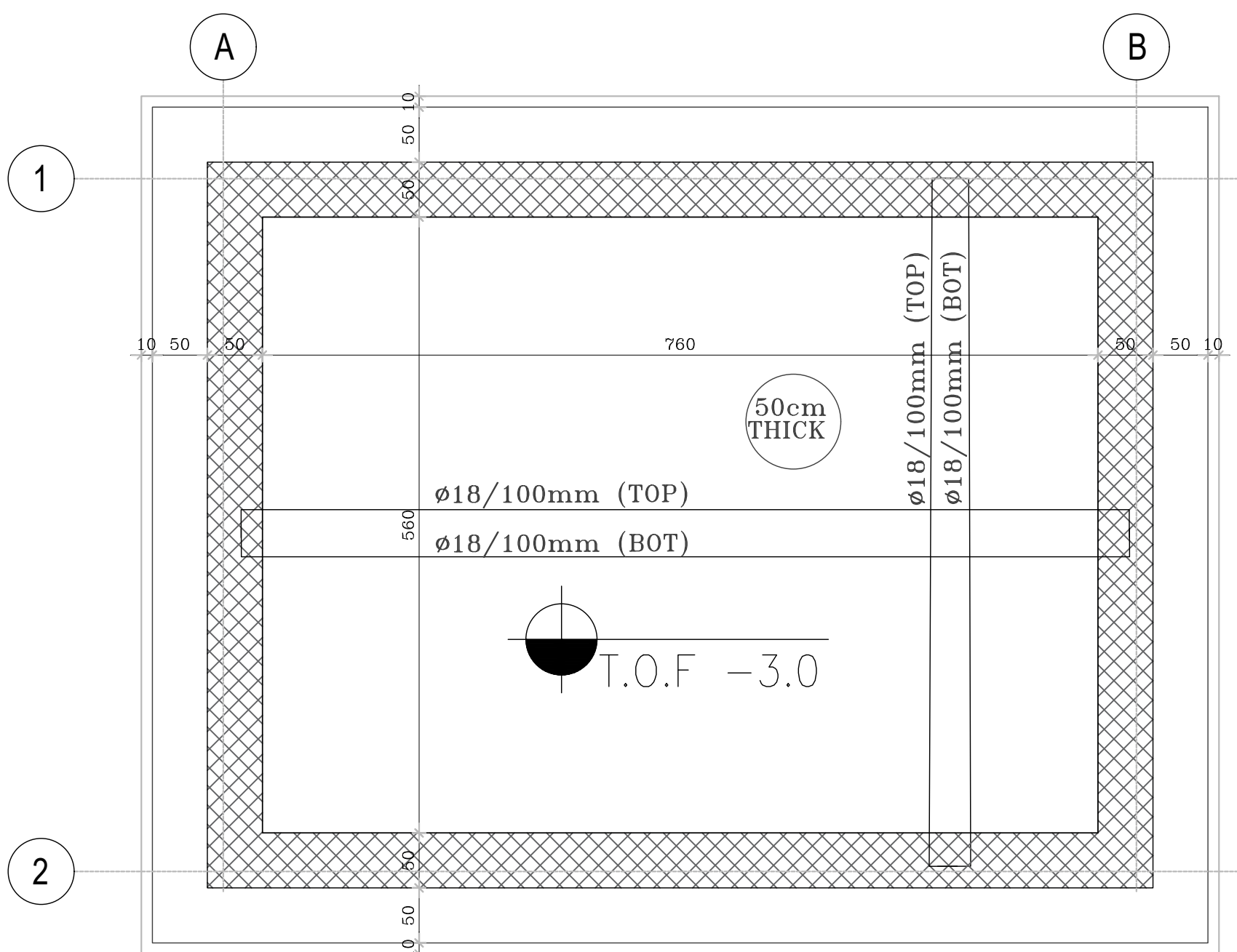
UNDER GROUND RAIN WATER TANK - FOUNDATION PLAN
SCALE 1:50



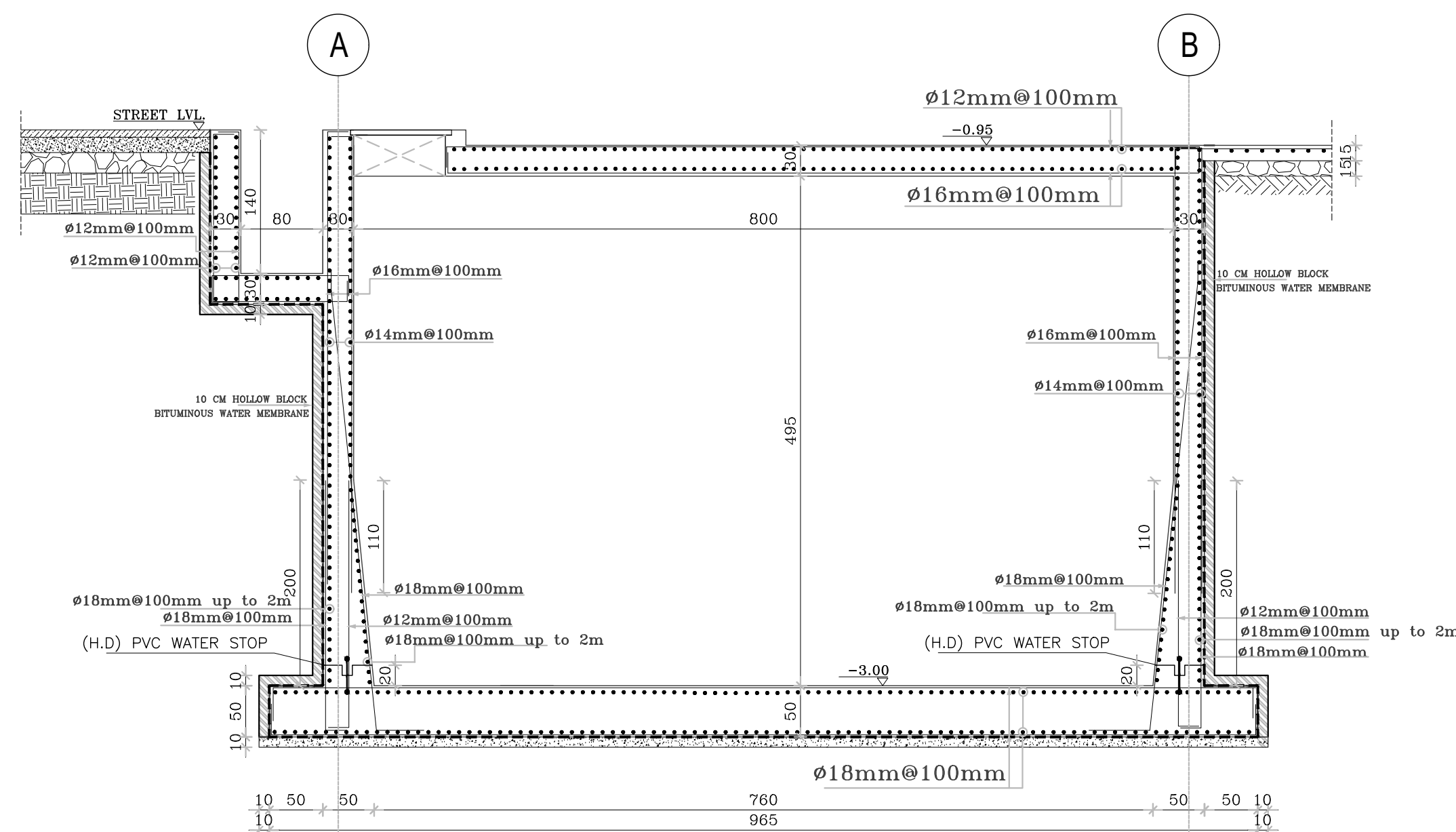
SECTION A-A
SCALE 1:50



SEPTIC TANK - TOP SLAB REINFORCEMENT PLAN
SCALE 1:50

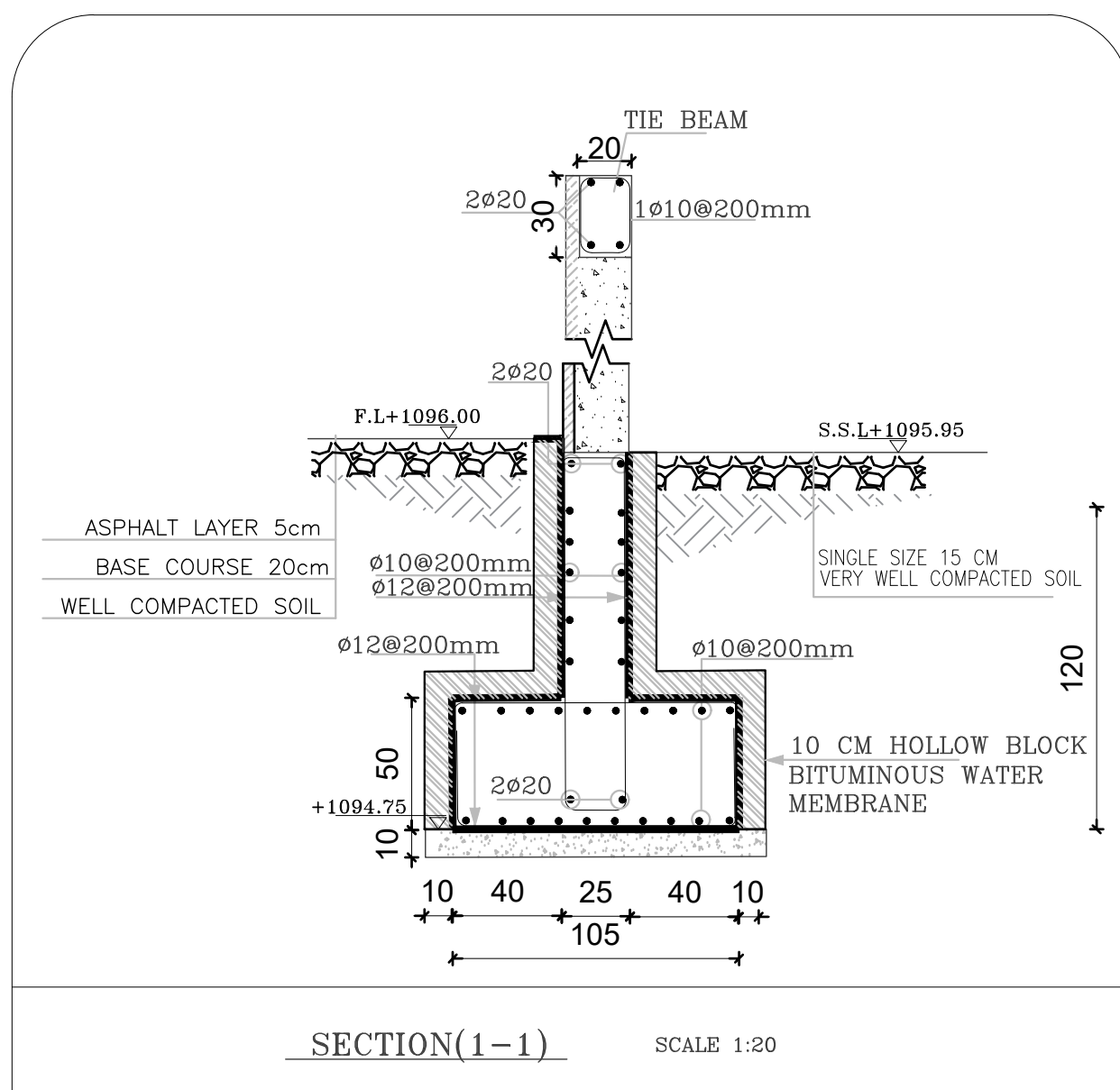


SEPTIC TANK - FOUNDATION PLAN
SCALE 1:50

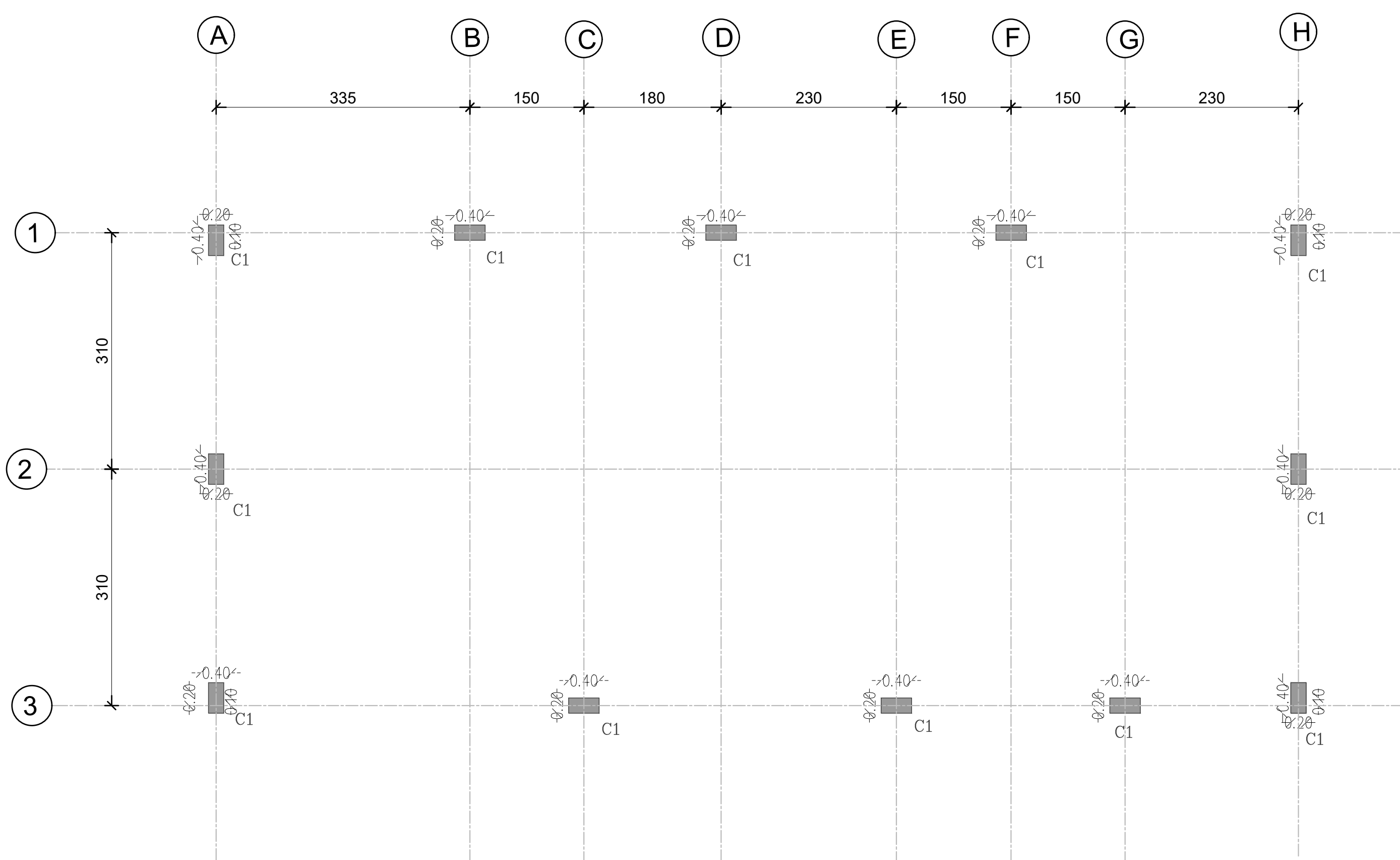


SECTION A-A
SCALE 1:50

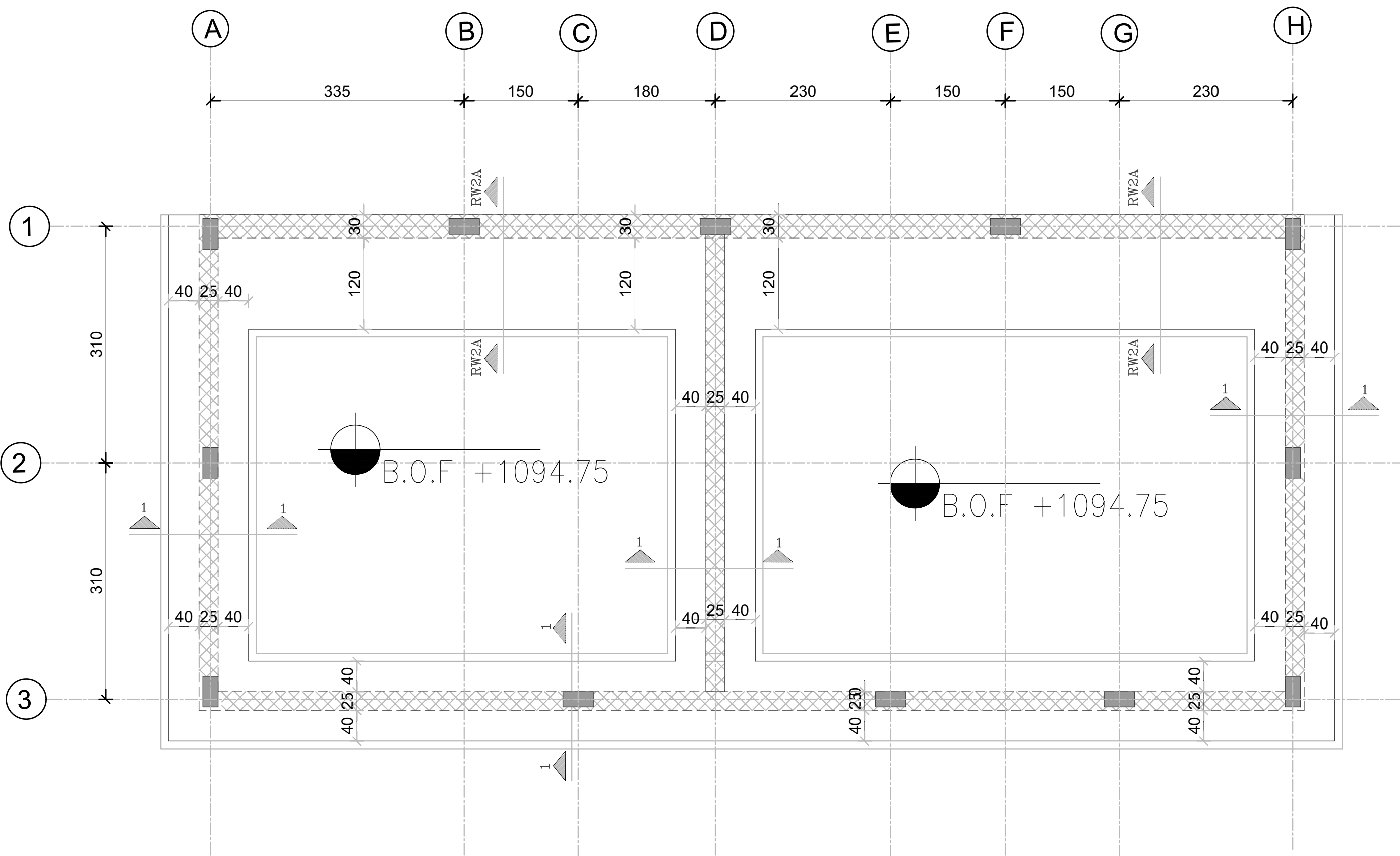
COLUMN DETAILS	
COLUMN No.	COLUMN SECTIONS
C1	SECTION IN (C1) BARS 8ø12mm STIRRUPS 2ø10 @20 cm. SCALE 1:20



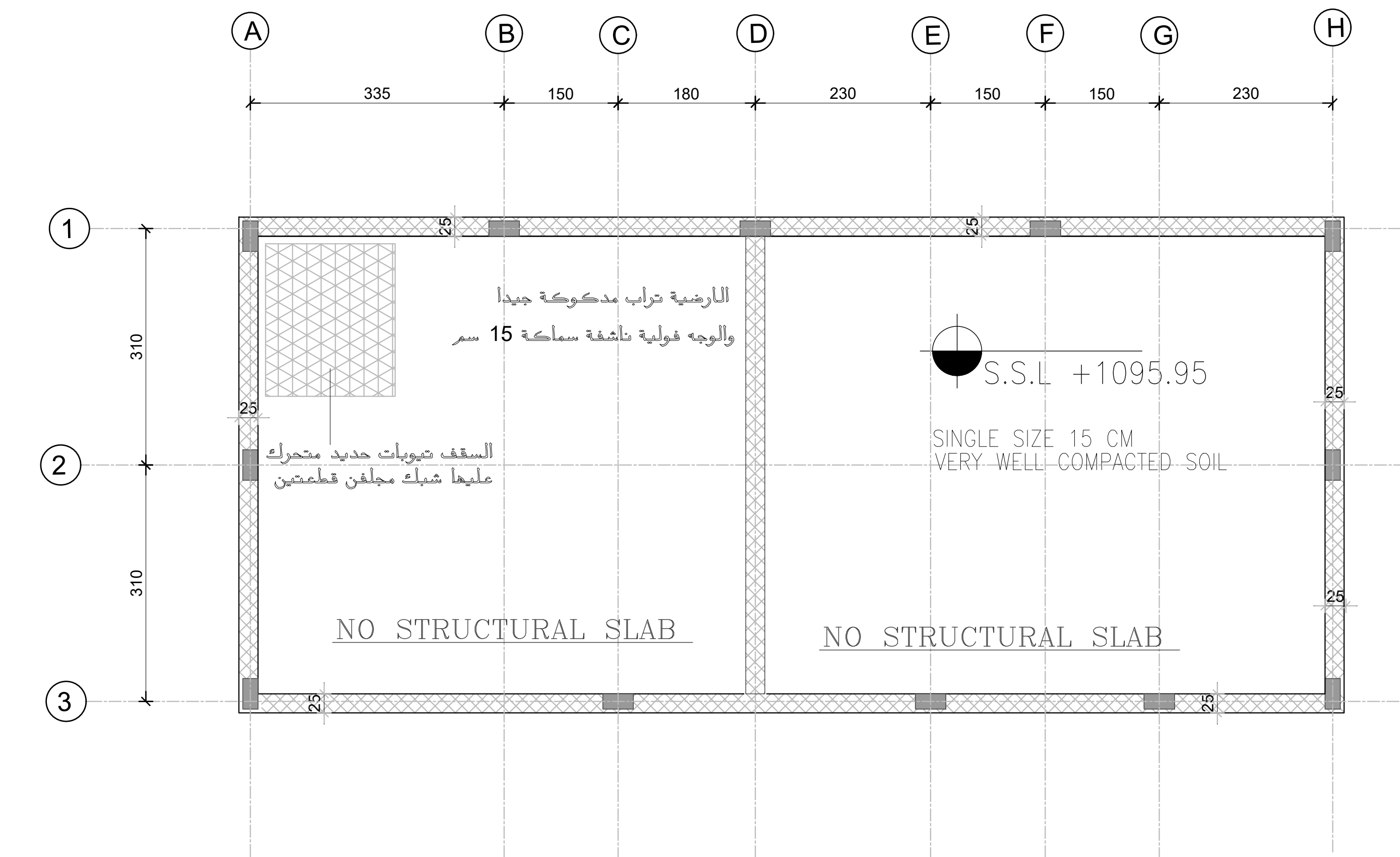
SECTION (1-1)
SCALE 1:20



COLUMNS AXIS PLAN
Scale 1:50



FOUNDATION PLAN
Scale 1:50

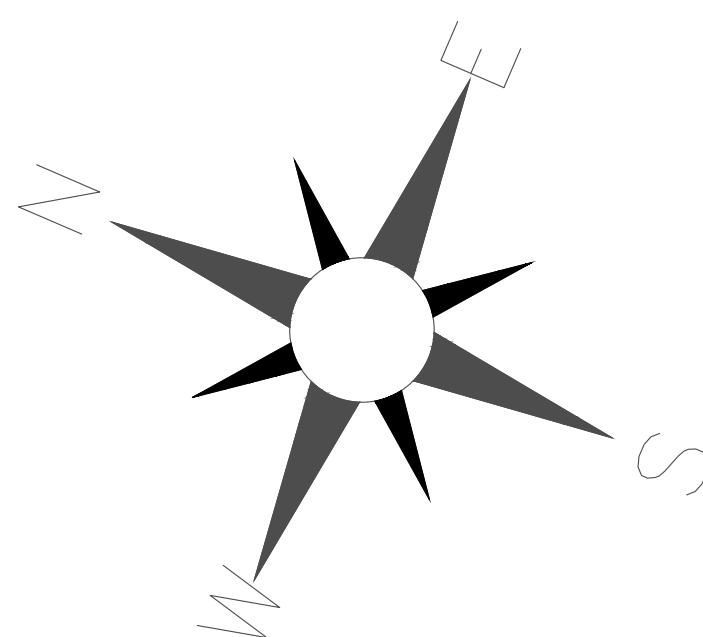


SLAB ON GRADE
Scale 1:50

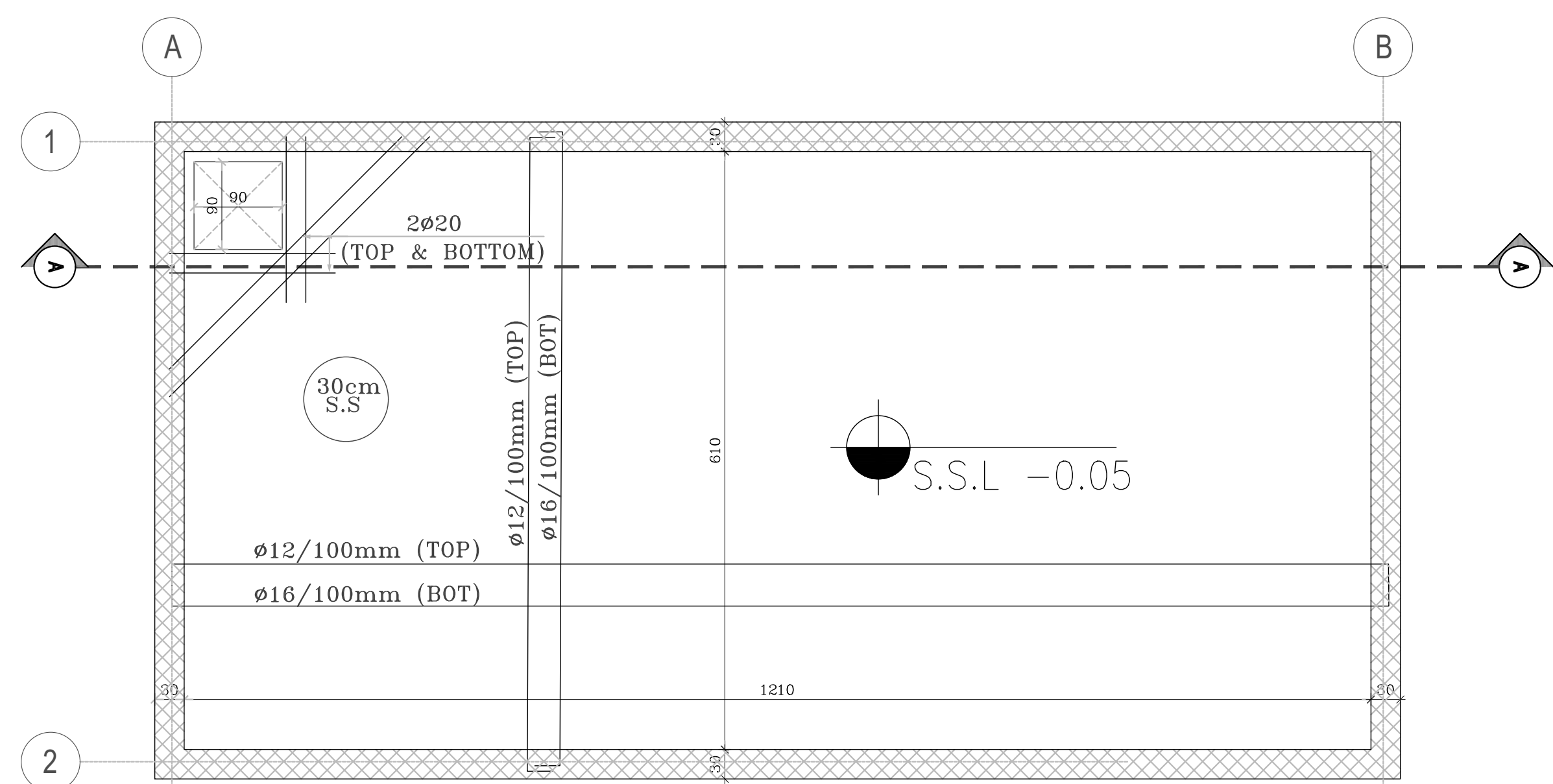


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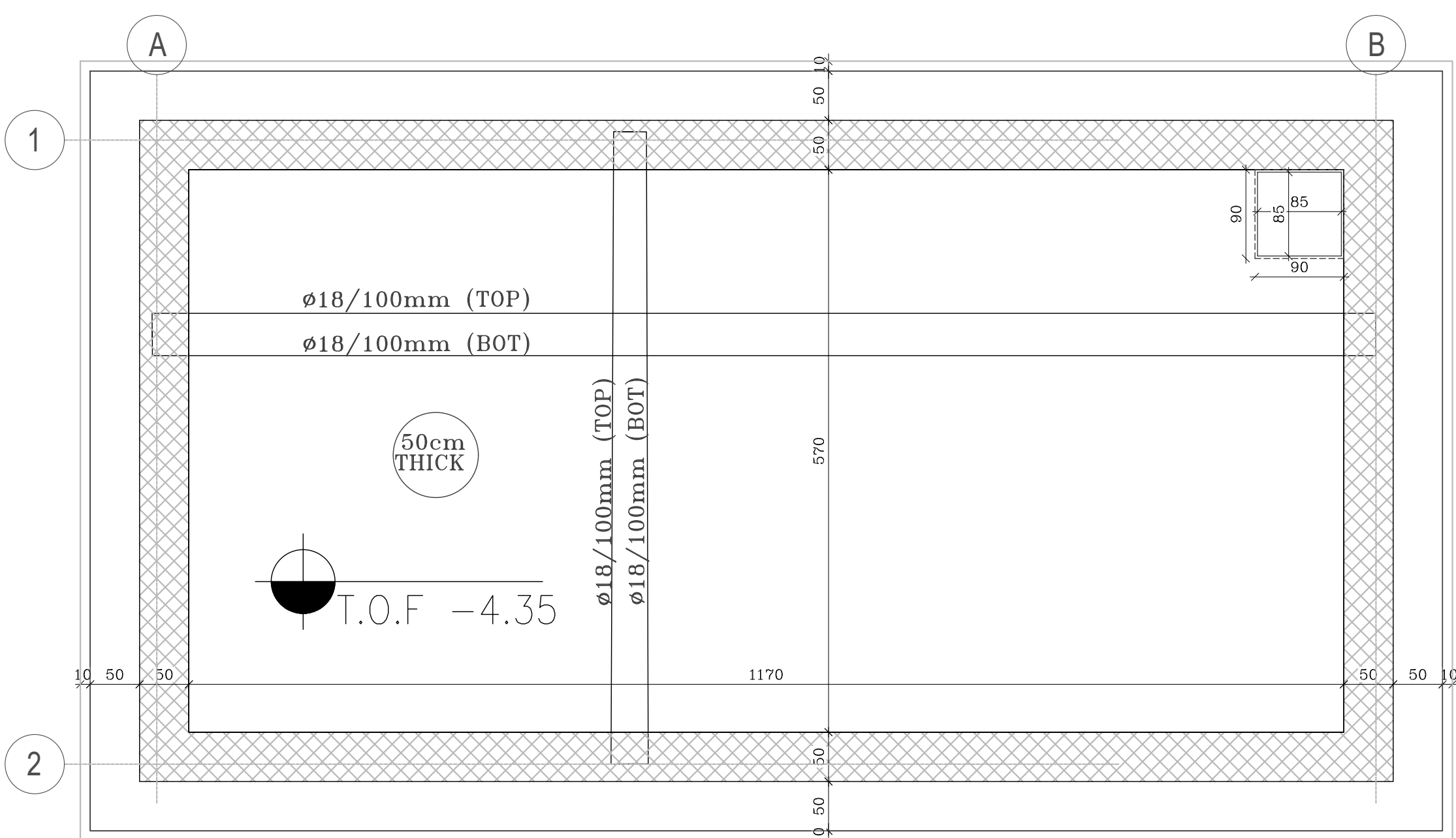
PLOT NO		1		
DISTRICT		KARAK		
BASIN		14 TALAT EAWAHAD		
I	1-9-2024	H.S	SUPERSEDE S-24 & S-26 & S-27	
REV	MARK	DATE	MADE BY	REMARKS
CLIENT		THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS		
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo			
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY			
DRG. TITLE	RAIN WATER & SEPTIC TANK STRUCTURAL DETAILS &GENERATOR AND TRANSFORMER STR DETAILS			
DRAWN BY		ST.TEAM	SCALE: 1:50	
DESIGNED BY		ST.TEAM	DATE :DEC.-2023	
CHECKED BY		H.A.	PROJECT No. DRAWING No.	
APPROVED BY:		H.A.	S-24-1	



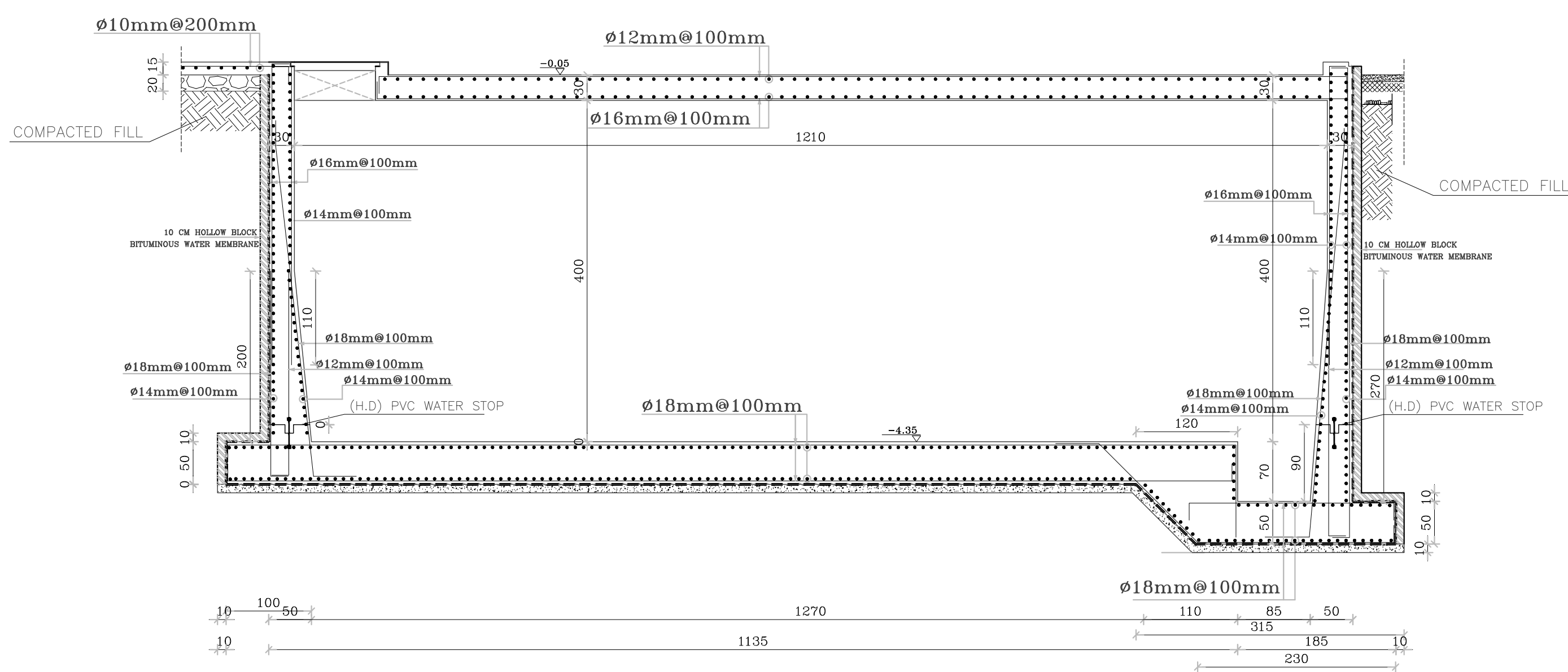
NOTES:



UNDER GROUND WATER TANK – TOP SLAB REINFORCEMENT PLAN
SCALE 1:50



UNDER GROUND WATER TANK – FOUNDATION PLAN
SCALE 1:50



SECTION A-A
SCALE 1:50

PLOT NO : 413

DISTRICT : IRBID

BASIN : 40 ALMUSRIB ALSHAMALI

REV. MARK DATE MADE BY REMARKS

CLIENT NATIONAL CENTER FOR DIABETES
ENDOCRINOLOGY AND GENETICS

MP MADI & PARTNERS CONSULTING ENGINEERS
CE TEL:5829640-5829641 FAX:5829642
e-mail : mpce@index.com.jo

PROJECT NATIONAL DIABETES AND ENDOCRINOLOGY
CENTER BUILDING IN IRBID CITY

DRG. TITLE WATER TANK STRUCTURAL DETAILS

DRAWN BY : ST.TEAM

SCALE: 1:50

DESIGNED BY : H.S

DATE : DEC.-2023

CHECKED BY : H.S

PROJECT No. DRAWING No.

APPROVED BY: H.S

S-25

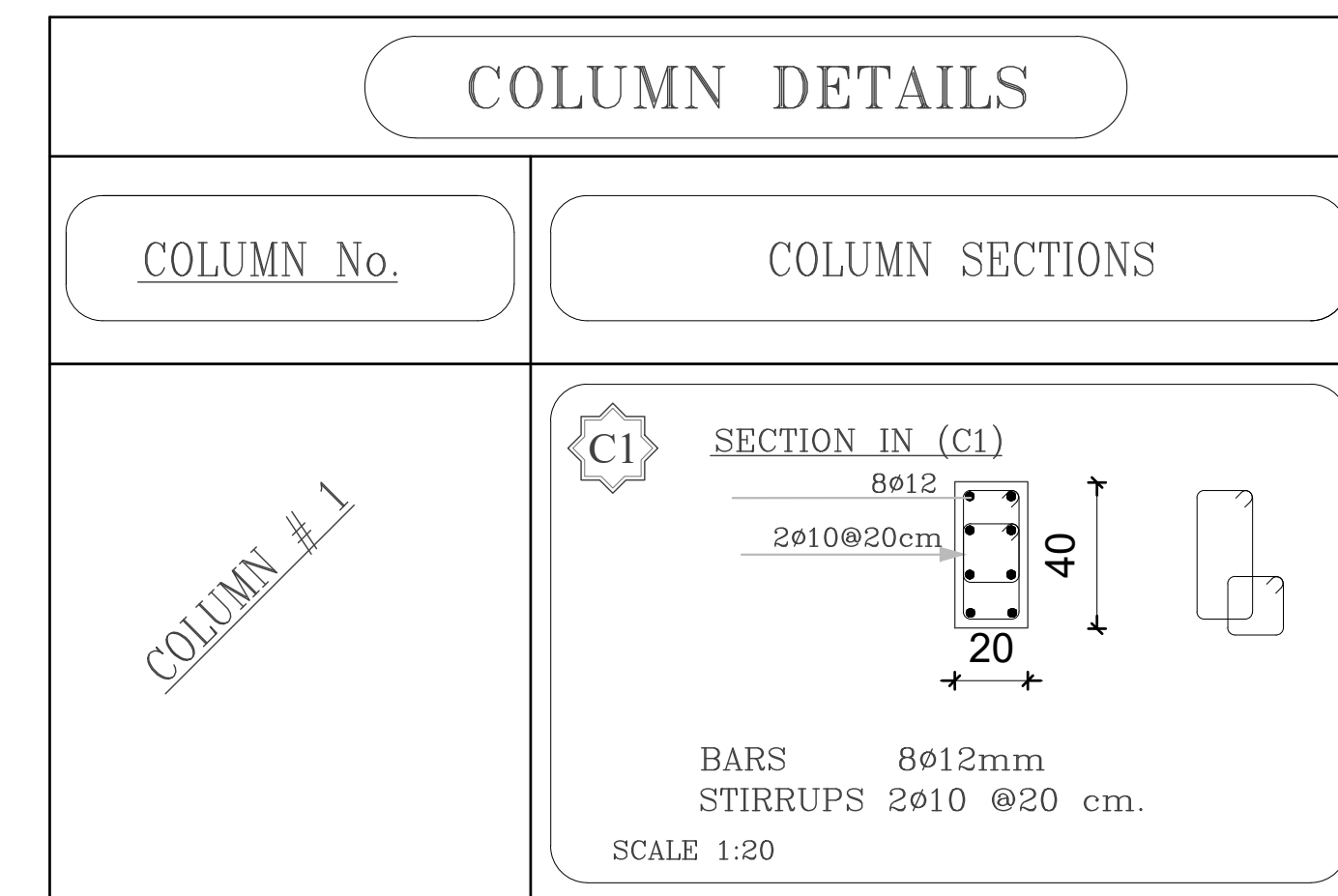
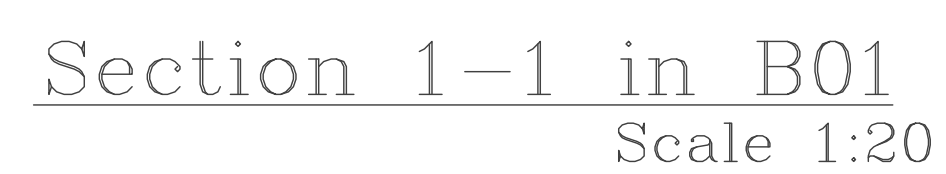
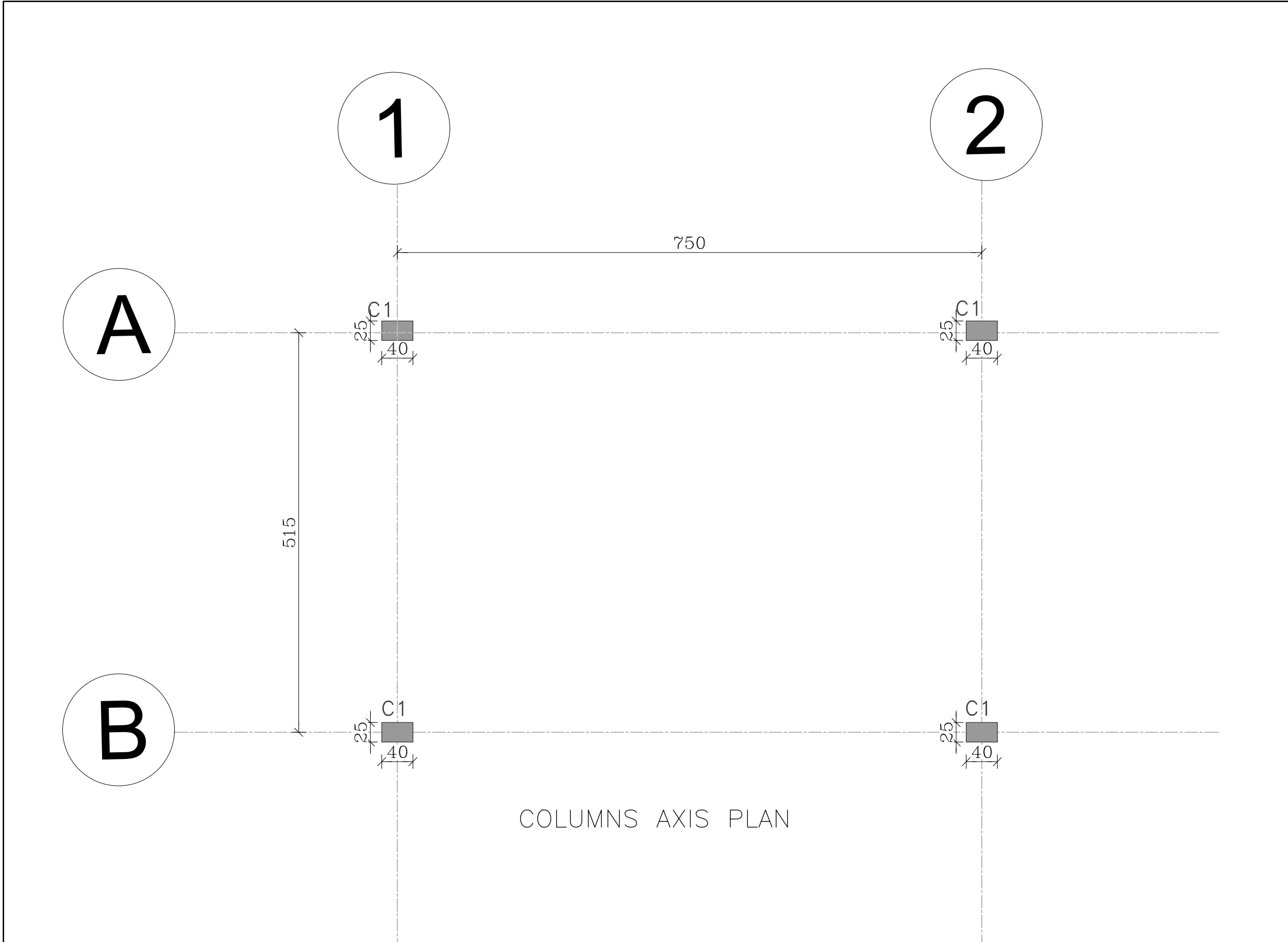


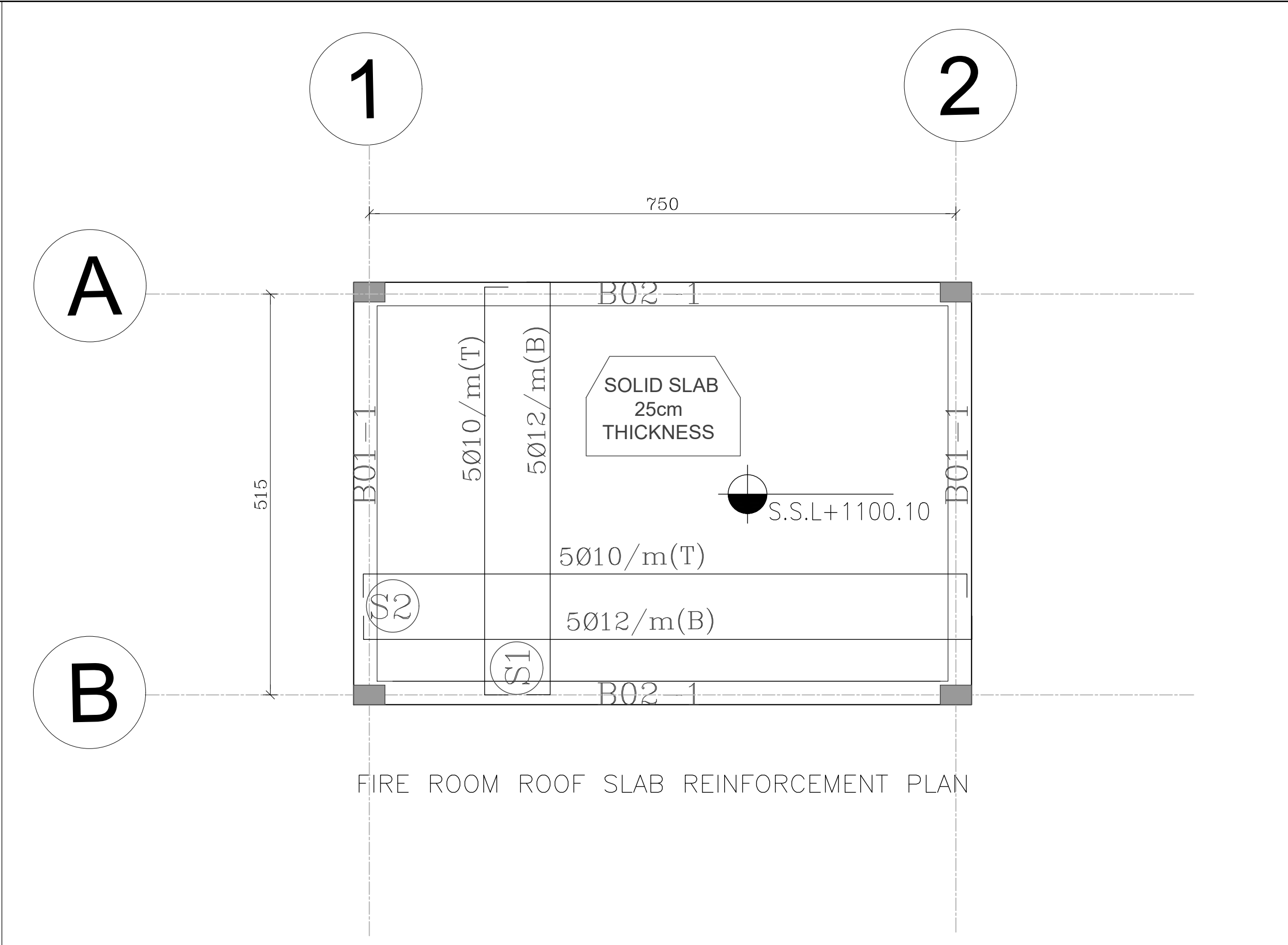
TABLE OF ISOLATED FOOTINGS DESIGN (BEARING CAPACITY=300 KN/m ²)							
FOOTING NO.	RIENF. CONC. DIMENSIONS(cm)			REINFORCEMENT IN TWO DIRECTIONS		REINFORCEMENT IN TWO DIRECTIONS	
	WIDTH	LENGTH	DEPTH	BOTTOM		TOP	
				LONG DIRECTIONS	SHORT DIRECTIONS	LONG DIRECTIONS	SHORT DIRECTIONS
F1	180	140	50	ø14mm@200mm	ø14mm@200mm	-	-



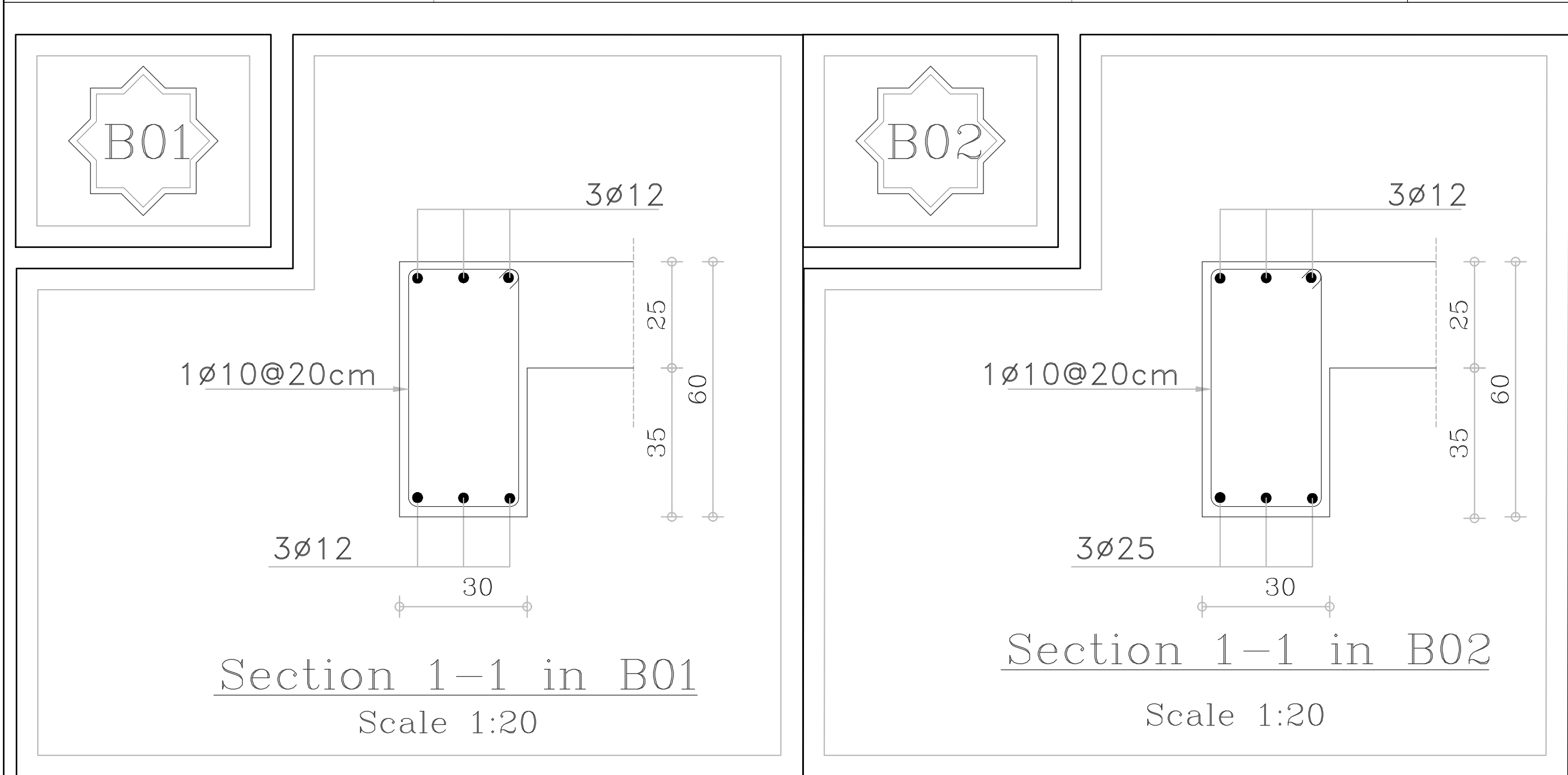
PLOT NO :		1	
DISTRICT :		KARAK	
BASIN :		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY	REMARKS
CLIENT THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
M P	MADI & PARTNERS CONSULTING ENGINEERS		
C E	TEL:5829640-5829641 FAX:5829642 e-mail : mpjee@index.com.jo		
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY		
DRG. TITLE	WASTE ROOM: STRUCTURAL DETAILS		
DRAWN BY : ST.TEAM		SCALE: 1:50	
DESIGNED BY : ST.TEAM		DATE : DEC. - 2023	
CHECKED BY : H.A.		PROJECT No.	DRAWING No
APPROVED BY : H.A.		S- 28	



COLUMNS AXIS PLAN

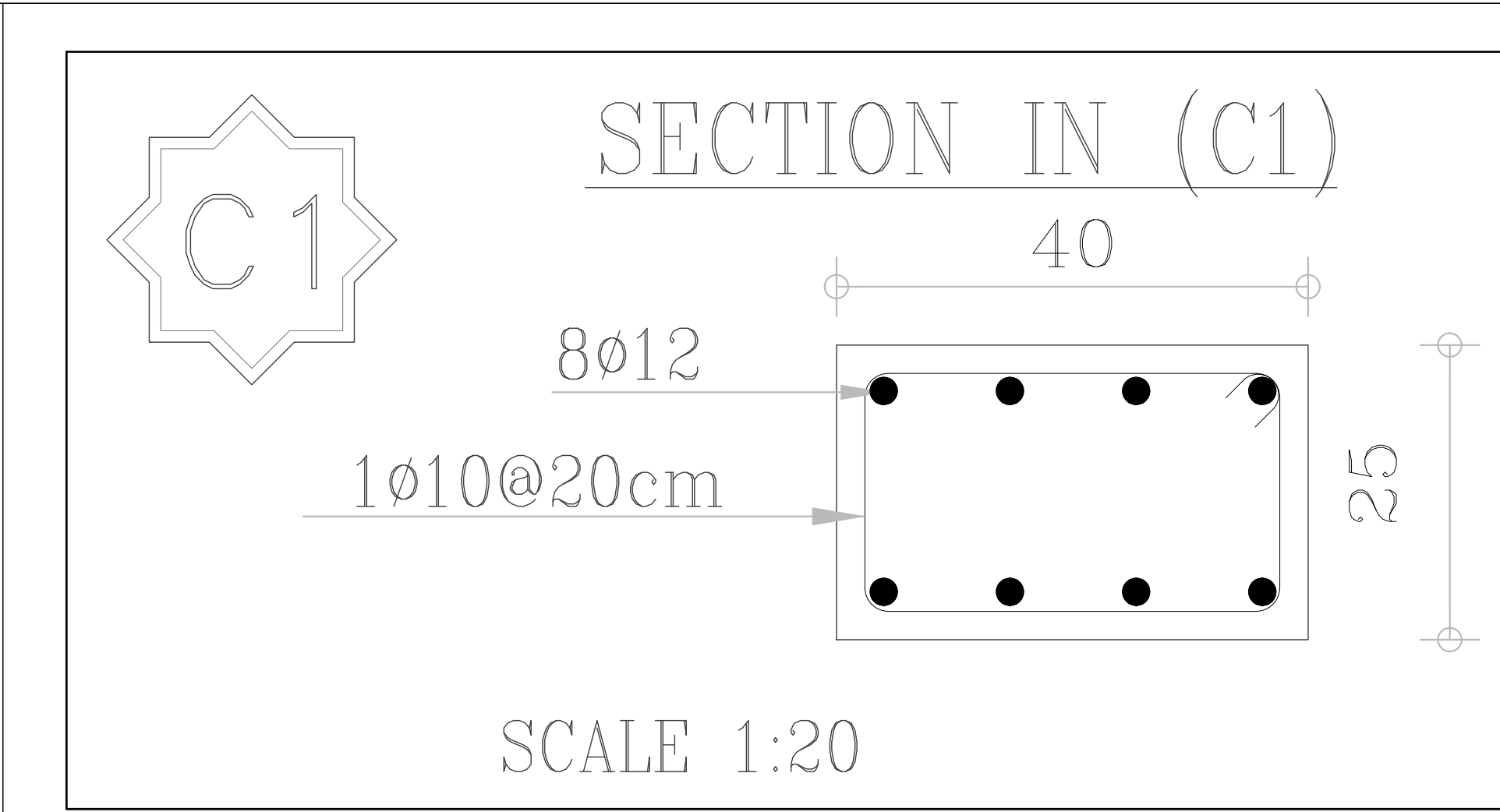


FIRE ROOM ROOF SLAB REINFORCEMENT PLAN

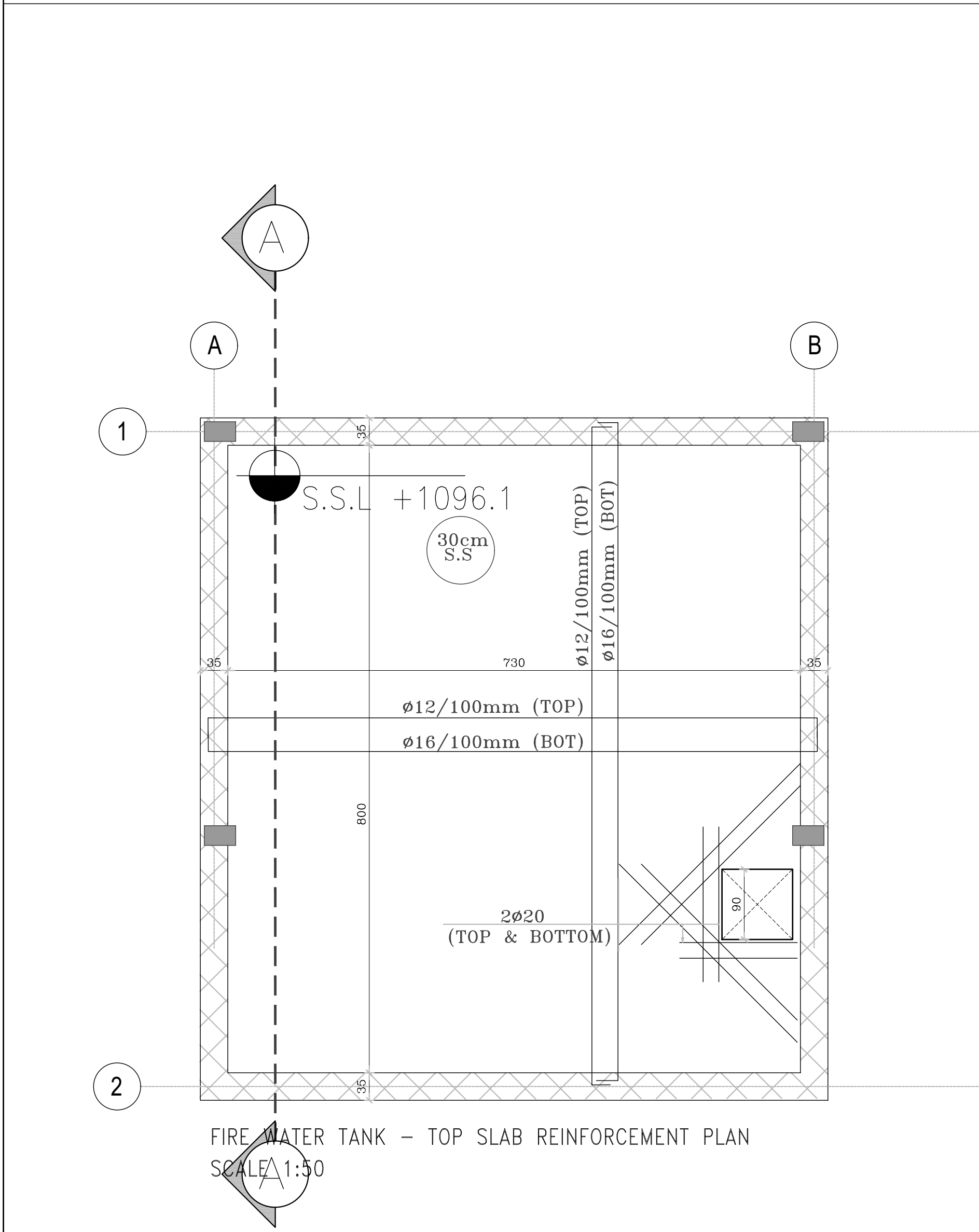


Section 1-1 in B01
Scale 1:20

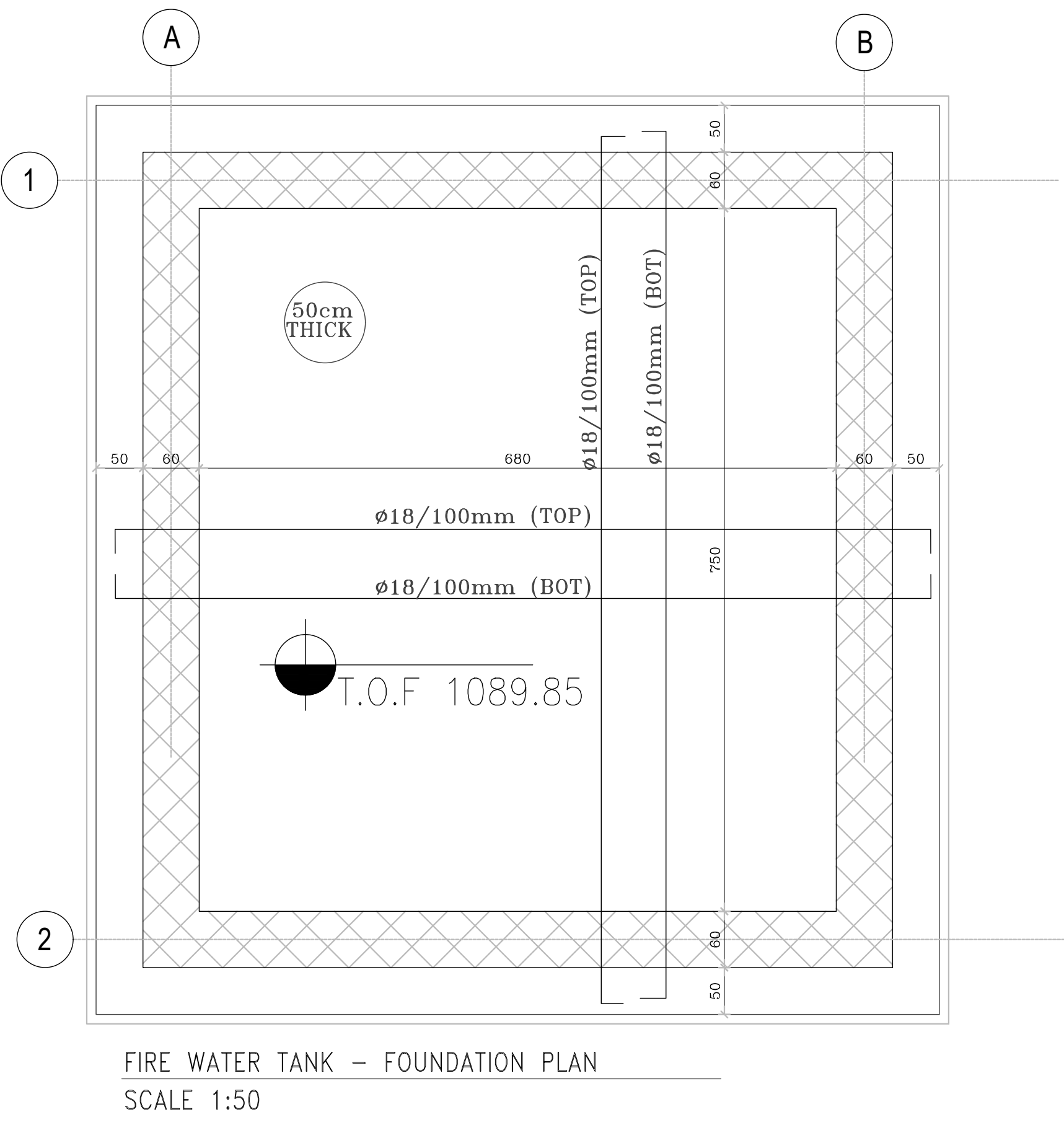
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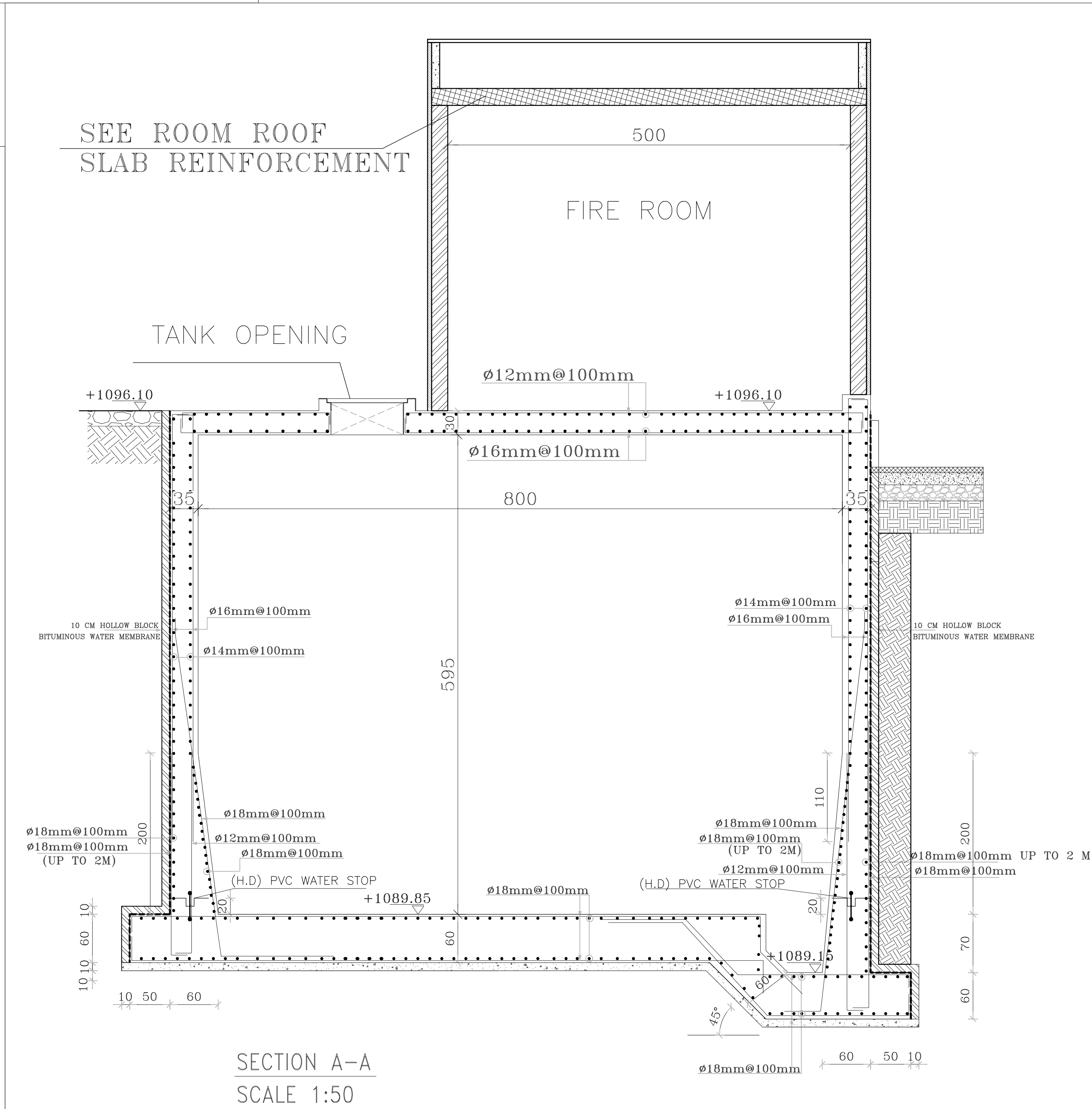
SCALE 1:20



FIRE WATER TANK - TOP SLAB REINFORCEMENT PLAN
SCALE 1:50



FIRE WATER TANK - FOUNDATION PLAN
SCALE 1:50



SECTION A-A
SCALE 1:50

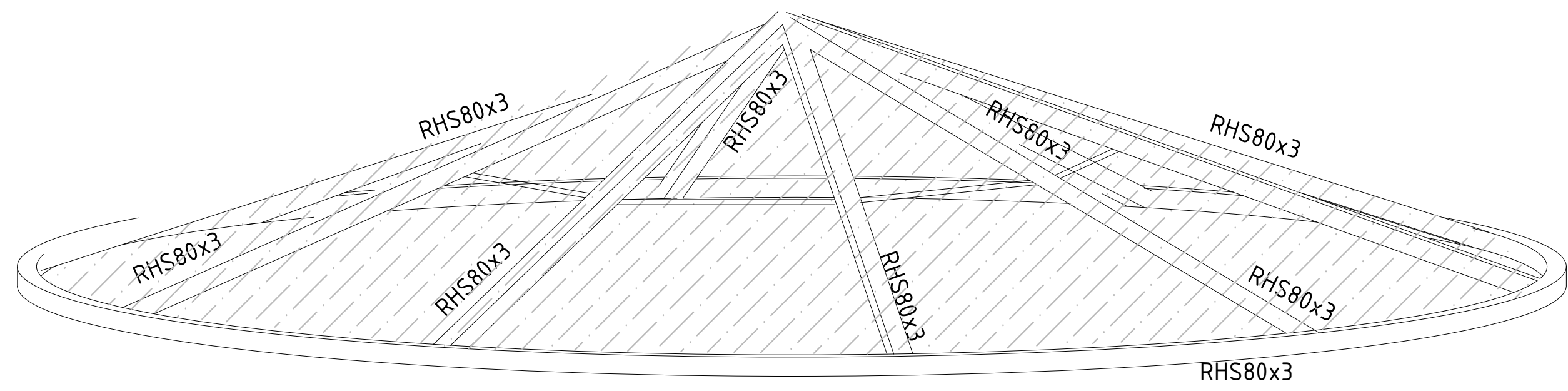


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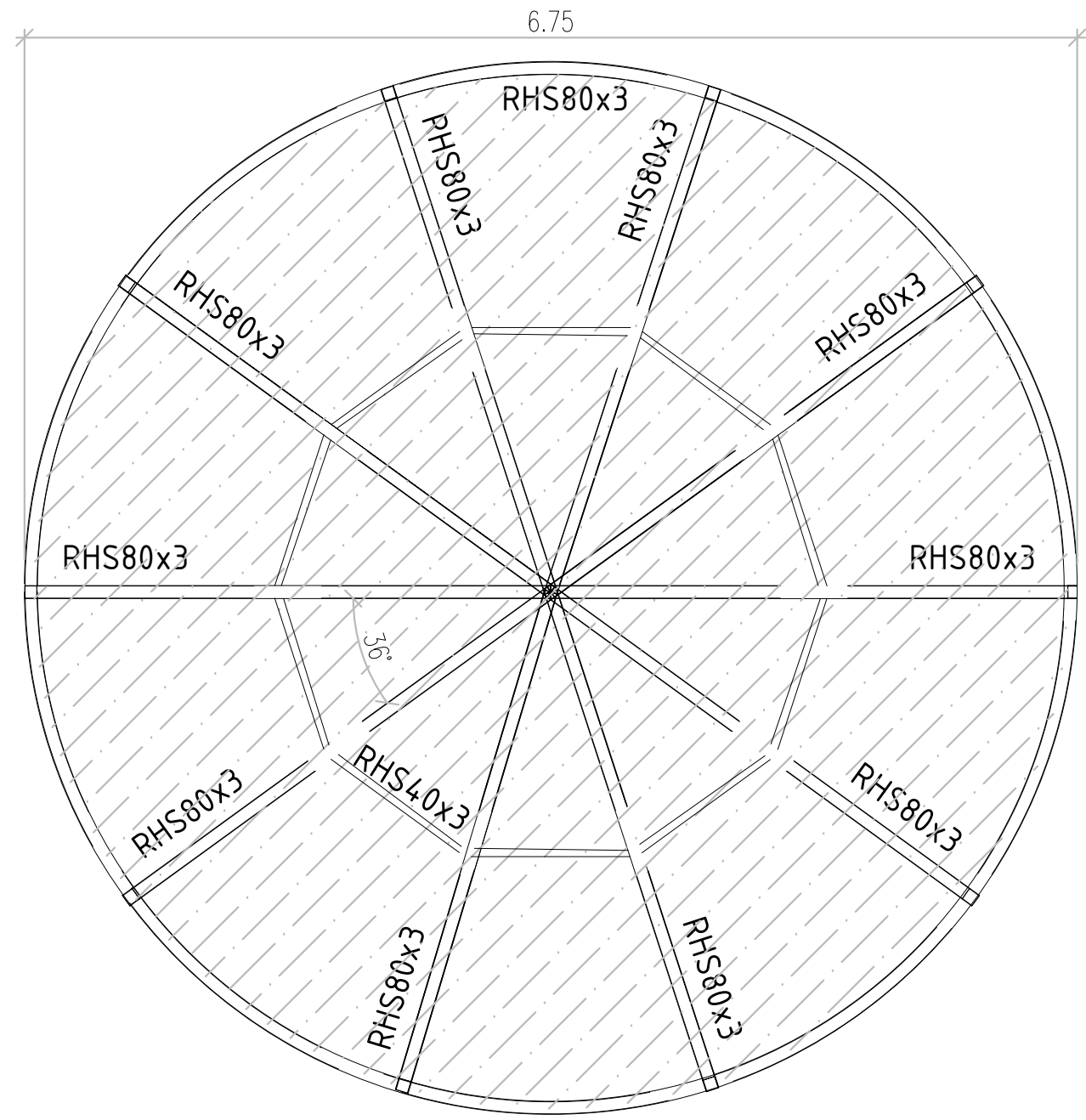
PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
1	1-9-2024	H.S	SUPERSEDE S-29		
REV.	MARK	DATE	MADE BY	REMARKS	
CLIENT		THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS			
M P C E	MADI & PARTNERS CONSULTING ENGINEERS				
	TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo				
PROJECT		NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY			
DRG. TITLE		FIRE ROOM AND FIRE TANK STRUCTURAL DETAILS			
DRAWN BY			:	ST.TEAM	SCALE : 1:50
DESIGNED BY			:	ST.TEAM	DATE : DEC.-2023
CHECKED BY			:	H.A.	PROJECT No. _____ DRAWING No. S-29-1
APPROVED BY			:	H.A.	

NOTES:
-STEEL S235
-ALL WELD SHALL NOT BE LESS THAN 4mm
OR MINIMUM.
-ALL DIMENSIONS ARE APPROXIMATE AND
ACTUAL DIMENSION SHALL FIT OPENINGS.
-ALL CONNECTIONS AND FIXATIONS SHALL BE
SEALED AND WATER TIGHT.
LEXAN CONNECTIONS AND FIXATIONS ARE
INDICATIVE.

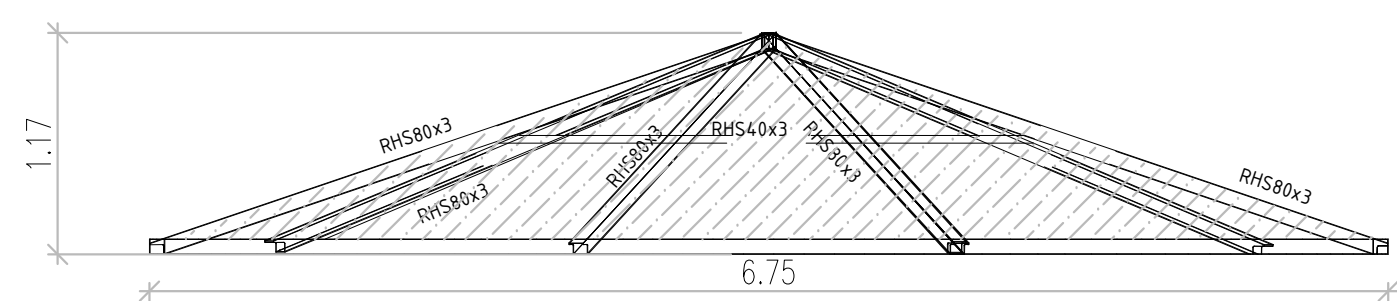
THE CONTRACTOR SHOULD CHECK THE
STRUCTURAL DESIGN AND SUBMIT SHOP
DRAWINGS SHOWING ALL DETAILS AND WELDING
SIZE TO BE APPROVED BY THE ENGINEER.



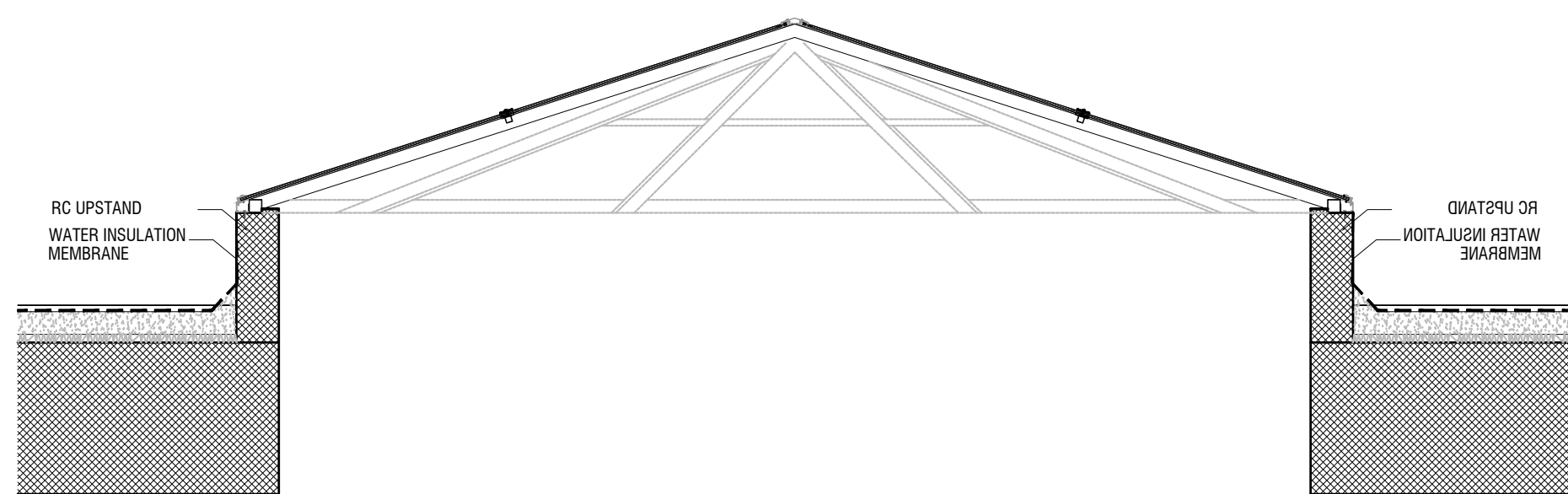
3D view



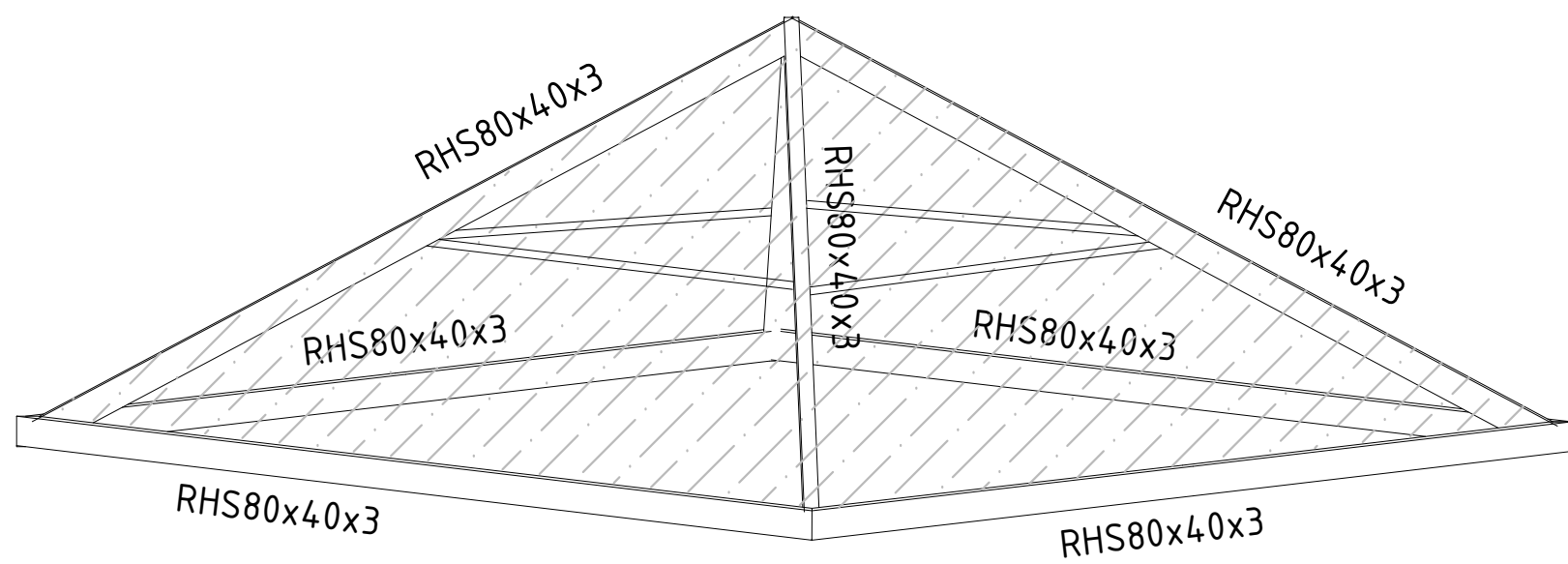
PLAN



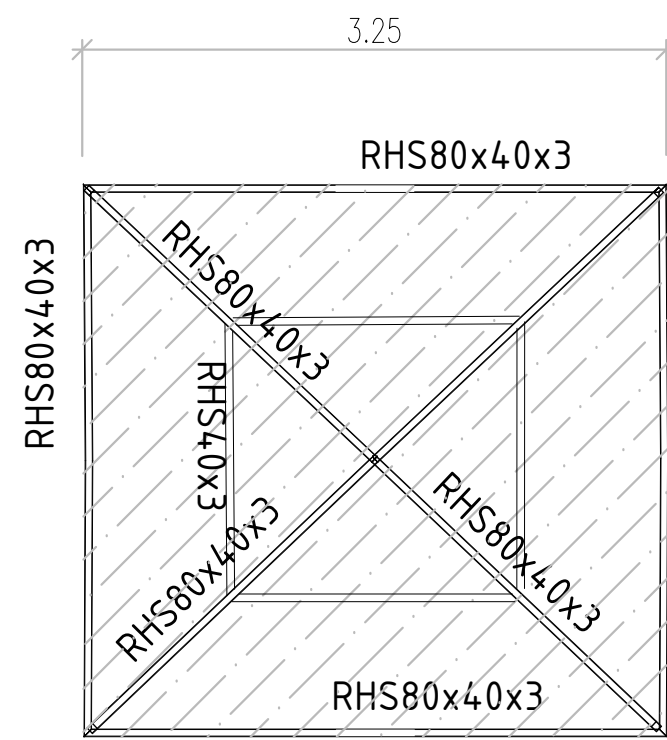
ELEVATION



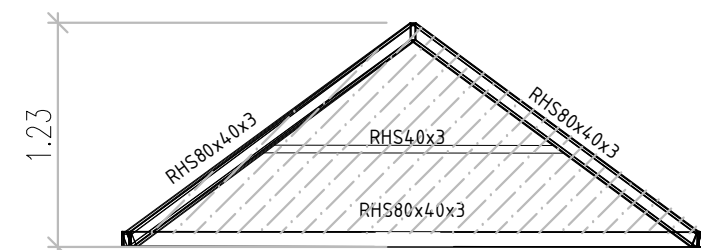
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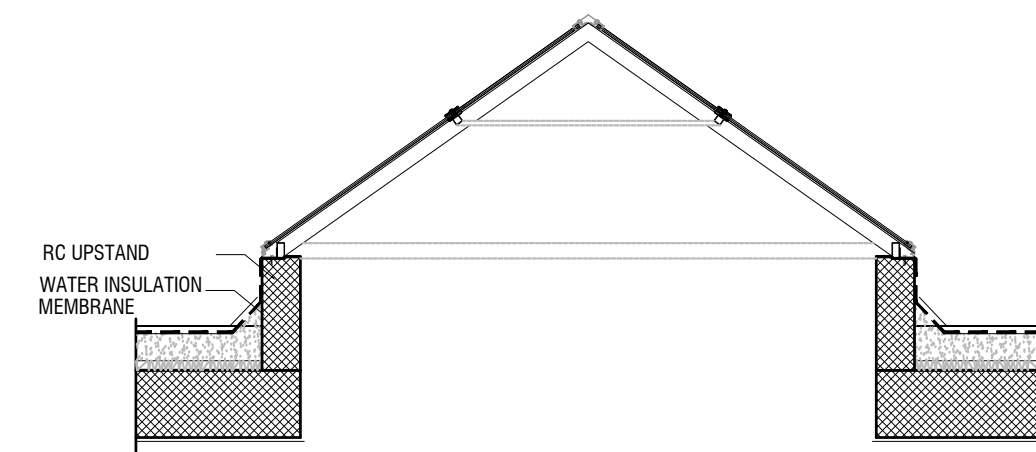
3D view



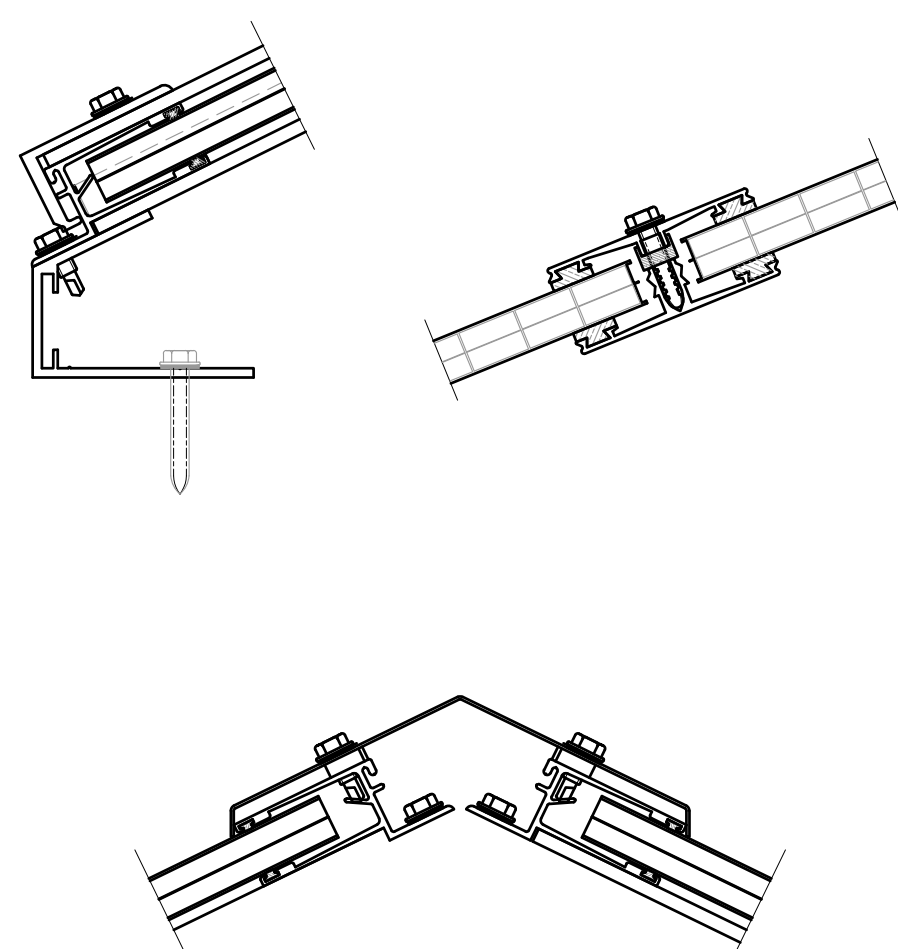
PLAN



ELEVATION



ELEVATION



GENERAL LEXAN FIXATION DETAILS



NOTES:

PLOT NO		:		1	
DISTRICT		:		KARAK	
BASIN		:		14 TALAT EAWAHAD	
REV. MARK	DATE	MADE BY		REMARKS	
CLIENT	THE NATIONAL CENTER FOR DIABETES ENDOCRINOLOGY AND GENETICS				
M P C E	MADI & PARTNERS CONSULTING ENGINEERS TEL.5829640-5829641 FAX.5829642 e-mail : mpce@index.com.jo				
PROJECT	NATIONAL DIABETES AND ENDOCRINOLOGY CENTER BUILDING IN KARAK CITY				
DRG. TITLE	SKYLIGHT DETAILS				
DRAWN BY			:	ST.TEAM	
SCALE:			N.T.S		
DESIGNED BY			:	ST.TEAM	
DATE			: DEC.-2023		
CHECKED BY			:	H.A.	
PROJECT No.			DRAWING No.		
APPROVED BY			:	H.A.	
			S-30		