

EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES

DETAILED DESIGN PACKAGE

STRUCTURAL DRAWINGS

Key Map:

General Legend:

Drawing Notes:

1	2023.12.14	TENDERING ONLY	APV
0	2023.09.22	PROPOSED	APV
Rev.	Date	Description	Approved


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Project Name:

EMERGENCY CONSTRUCTION OF
PATIENT WARDS AT
KULHUDHUFFUSHI ISLAND IN
MALDIVES


Client:

MINISTRY OF HEALTH,
KULHUDHUFFUSHI REGIONAL HOSPITAL
MALDIVES


Ministry of Health
Republic of Maldives

Supported & Funded By:

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Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA


2, DON CARLOS RD,
COLOMBO 00700,
SRI LANKA

UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA
RAJAGIRIYA, PC 10107,
COLOMBO, SRI LANKA

URO
STRUCTURAL CONSULTANTS

Drawing Title:

COVER SHEET - STRUCTURAL

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	ST	CV	0001
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
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Issue Date:	2023.12.14
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TENDERING ONLY

		DRAWING LIST - STRUCTURAL	
NO.	DRAWING NO.	DRAWING NAME	REVISION
01	23553-01-TN-ST-CV-0001	COVER SHEET - STRUCTURAL	R1
02	23553-01-TN-ST-DL-0002	DRAWING LIST - STRUCTURAL	R3
03	23553-01-TN-ST-GN-3000	GENERAL NOTES & TYPICAL DETAILS (SHEET 01)	R2
04	235583-01-TN-ST-GN-3001	GENERAL NOTES & TYPICAL DETAILS (SHEET 02)	R1
05	23553-01-TN-ST-GN-3002	GENERAL NOTES & TYPICAL DETAILS (SHEET 03)	R1
06	23553-01-TN-ST-FP-3200	FOUNDATION LAYOUT& DETAILS	R2
07	23553-01-TN-ST-FP-3201	GENERAL ARRANGEMENT OF COLUMN LAYOUT & GROUND FLOOR, FLOOR JOINT LAYOUT	R1
08	23553-01-TN-ST-CD-3400	COLUMN DETAILS	R1
09	23553-01-TN-ST-FR-3500	GENERAL ARRANGEMENT OF FIRST FLOOR LAYOUT & DETAILS	R1
10	23553-01-TN-ST-FR-3501	GENERAL ARRANGEMENT OF ROOF SLAB LAYOUT (+ 7590 LEVEL) & sTAIRCASE COVER SLAB LAYOUT (+ 10590 LEVEL)	R2
11	23553-01-TN-ST-SD-3600	R/F DETAIL OF FIRST FLOOR SLAB (+ 4275 LEVEL) (PART 01)	R1
12	23553-01-TN-ST-SD-3601	R/F DETAIL OF FIRST FLOOR SLAB (+ 4275 LEVEL) (PART 02)	R1
13	23553-01-TN-ST-SD-3602	R/F DETAIL OF ROOF TERRACE SLAB (+ 7590 LEVEL) & R/F DETAIL OF STAIRCASE COVER SLAB (+ 10590 LEVEL)	R1
14	23553-01-TN-ST-SD-3603	ROOF SECTION & DETAILS	R2
15	23553-01-TN-ST-SD-3604	ROOF DETAILS	R2
16	23553-01-TN-ST-BE-3605	BEAM DETAILS OF FIRST FLOOR, ROOF TERRACE & COVER SLAB (SHEET 1)	R3
17	23553-01-TN-ST-BE-3606	BEAM DETAILS OF FIRST FLOOR, ROOF TERRACE & COVER SLAB (SHEET 2)	R1
18	23553-01-TN-ST-BE-3607	BEAM DETAILS OF FIRST FLOOR, ROOF TERRACE & COVER SLAB (SHEET 3)	R2
19	23553-01-TN-ST-BE-3608	BEAM DETAILS OF FIRST FLOOR, ROOF TERRACE & COVER SLAB (SHEET 4)	R1
20	23553-01-TN-ST-BE-3609	BEAM DETAILS OF FIRST FLOOR, ROOF TERRACE & COVER SLAB (SHEET 5)	R2
20	23553-01-TN-ST-SD-3610	SOLAR PANEL SUPPORTING DETAIL	R1
21	23583-01-TN-ST-SR-3900	EXTERNAL STAIRCASE ST-A ,ST-B DETAILS	R1
22	23583-01-TN-ST-SR-3901	INTERNAL STAIRCASE DETAILS	R1
23	23583-01-TN-ST-BE-3905	LIFT DETAILS	R2

Key Map:

General Legend:

Drawing Notes:

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2	2023.11.27	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	APV
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	APV
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NOTE:
IN CASE OF DISCREPANCIES BETWEEN THIS GENERAL
NOTES AND ANY NOTES ON INDIVIDUAL DRAWINGS, THE
NOTES ON EACH DRAWING TAKE PRECEDENCE.

GENERAL NOTES	
1. ALL DIMENSIONS ARE IN MILLIMETRES. DIMENSIONS ARE NOT TO BE SCALED FROM THE DRAWINGS. FOLLOW WRITTEN DIMENSIONS ONLY	
2. ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ARCHITECTURAL / ELECTROMECHANICAL DRAWINGS AND ANY DISCREPANCIES FOUND SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER PRIOR TO COMMENCEMENTS OF WORKS.	
3. ALL MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE SPECIFICATIONS AND RELEVANT SRI LANKAN AND BRITISH STANDARDS / CODES OF PRACTICE.	

CONCRETE WORK	
ALL STRUCTURAL CONCRETE	C30
CONCRETE FOR WATER RETAINING STRUCTURES	C35 A
MINIMUM CEMENT CONTENT	300 Kg/m ³
MAXIMUM CEMENT CONTENT	400 Kg/m ³
MAXIMUM WATER / CEMENT RATIO	0.55
MASS CONCRETE	C15
BLINDING CONCRETE	C15
MAXIMUM AGGREGATE SIZE	20mm
REINFORCEMENTS: HIGH YIELD STEEL, f _y	460 N/mm ²
MILD STEEL f _y	250 N/mm ²
LAP LENGTH (UNLESS OTHERWISE STATED)	50 DIA.

REINFORCING STEEL SHOULD BE LAPPED AS FOLLOWS IN THE DRAWINGS. IF IT IS NOT SPECIFIED IN THE DRAWINGS LAP LENGTH SHALL BE AS SPECIFIED BELOW,AS IN BS 8110:1997.

TENSION AND COMPRESSION LAP = 38 X SMALLER DIAMETER OF BAR

TENSION ANCHORAGE LENGTH = 38 X DIAMETER OF BAR

COMPRESSION ANCHORAGE LENGTH = 30 X DIAMETER OF BAR

a. WHERE A LAP OCCURS AT THE TOP OF A SECTION AS CAST AND THE MINIMUM COVER TO EITHER FACE IS LESS THAN TWICE THE SIZE OF THE LAPPED REINFORCEMENT, THE LAP LENGTH SHOULD BE INCREASED BY A FACTOR 1.4.

b. WHERE A LAP OCCURS AT THE CORNER OF A SECTION AS CAST AND THE MINIMUM COVER TO EITHER FACE IS LESS THAN TWICE THE SIZE OF THE LAPPED REINFORCEMENT OR, WHERE THE CLEAR DISTANCE BETWEEN ADJACENT LAPS IS LESS THAN 75MM OR

1.4.

THE SIZE OF THE LAPPED REINFORCEMENT OR, WHERE THE CLEAR DISTANCE BETWEEN ADJACENT LAPS IS LESS THAN 75MM OR

6 X SIZE OF THE LAPPED REINFORCEMENT,WHICHEVER IS THE GREATER,THE LAP LENGTH SHOULD BE INCREASED BY A FACTOR

c. IN CASE WHERE BOTH A. AND B. APPLY, THE LAP LENGTH SHOULD BE INCREASED BY A FACTOR OF 2.0.

CURING OF CONCRETE	
EXPOSED CONCRETE SURFACES SHOULD BE COVERED WITH DAMP ABSORBENT MATERIAL AFTER PLACING CONCRETE. THEY SHOULD BE KEPT CONTINUOUSLY WET BY FREQUENT SPRING OF WATER.	
IN COLUMNS CURING SHOULD START IMMEDIATELY AFTER REMOVAL OF FORM WORK	
MINIMUM PERIOD OF CURING : 4 DAYS	

REMOVAL OF SHUTTERING MINIMUM PERIOD	
VERTICAL FORMWORK	12 HOURS
SOFFIT FORMWORK TO BEAMS AND SLABS	10 DAYS
PROPS TO BEAMS	14 DAYS

NOTATION	
EGL	EXISTING GROUND LEVEL
FFL	FINISHED FLOOR LEVEL
GFL	GROUND FLOOR LEVEL
B/W	BOTH WAYS
EF	EACH FACE
NF	NEAR FACE
FF	FAR FACE
B	BOTTOM B1 - BOTTOM LAYER 1 B2 - BOTTOM LAYER 2
T	TOP T1 - TOP LAYER 1 T2 - TOP LAYER 2
R	ROUND MILD STEEL
T	HIGH YIELD STEEL
CRS	CENTERS
PB	PLINTH BEAM
T16-150T	HIGH YIELD STEEL 16 mm DIAMETER BAR AT 150 mm CENTERS ON TOP

SPECIAL NOTE
FOR LOCATION OF OPENINGS REQUIRED FOR M & E INSTALLATION REFER RELEVANT M & E DRAWINGS

ELECTRICAL CONDUITS
ELECTRICAL CONDUITS SHOULD NOT BE PROVIDED WITHIN THE COVER TO REINFORCEMENT OF STRUCTURAL ELEMENTS

WALL STIFFENERS
ALL WALLS TO BE STIFFENED WITH STIFFENER COLUMNS AND BEAMS OF 100 AND TO THE WALL WIDTH KEEPING THE STIFFEN SPACING TO MAXIMUM OF 1500 FOR100mm THK WALLS AND2400 FOR 200mmTHK WALLS.

SPACES / COVER BLOCKS AND CHAIRS
SPACES OR COVER BLOCKS, TIES AND CHAIRS SHOULD BE PROVIDED TO COMPLY WITH STANDARD PROVISIONS GIVEN IN SECTIONS 3, 4, 5, 6 AND 7 OF CONCRETE SOCIETY REPORT CS 101, NOVEMBER 1989. COVER BLOCKS SHOULD BE OF THE SAME CONSTITUENT OF THE CONCRETE AND THE TIE WIRE SHOULD BE OF 16 GAUGE BLACK ANNEALED WIRE.

DOORS AND WINDOWS
ALL DOORS AND WINDOWS TO BE FRAMED WITH STIFFNER COLUMNS AND LINTOLS.

WATER PROOFING MATERIAL
WATER PROOFING MATERIALS PERMITTED IN BS 8102:1990 CLAUSE 4 SHALL BE USED
*MASTIC ASPHALT TO BS 6925 OR BS 6577
*PREFORMED BITUMEN SHEETS TO BS 743 OR BS 747
**OTHER PROPRIETARY IMPERVIOUS SHEETING
**CEMENT BASED WATER PROOFING COMPOUND
**RESINS OF POLYURETHANE
FOR MATERIAL (**) NOT COVERED BY BS 8102, CERTIFICATION DOCUMENTS FROM BRITISH BOARD OF AGREEMENT, OR NATIONAL BODIES AND PROOF OF ESTABLISHED PERFORMANCE OVER A PERIOD OF TIME SHOULD BE FURNISHED.

NOMINAL COVER TO REINFORCEMENT	
FOUNDATION AND FOUNDATION BEAM	50 mm
GROUND SUPPORTED FLOOR SLAB (TOP)	50 mm
FLOOR SLABS	30 mm
BEAMS (TO STIRRUPS)	30 mm
COLUMNS (TO STIRRUPS)	30 mm
STAIRCASES	20 mm
RC EARTH RETAINING WALLS EARTH FACE INNER FACE	75 mm 30 mm
RC WALLS INSIDE THE BUILDING	50 mm
WATER SUMP EARTH FACE INNER FACE	50 mm 50 mm
WATER TANKS	30 mm
MANHOLES AND SEWERAGE TANKS	75 mm

** - ALL EXTERNAL CONCRETE STRUCTURES TO BE PAINTED WITH CEMENTATIOUS WATER PROOFING TO SEAL THE SURFACE FOR PROTECTION FROM SALT.

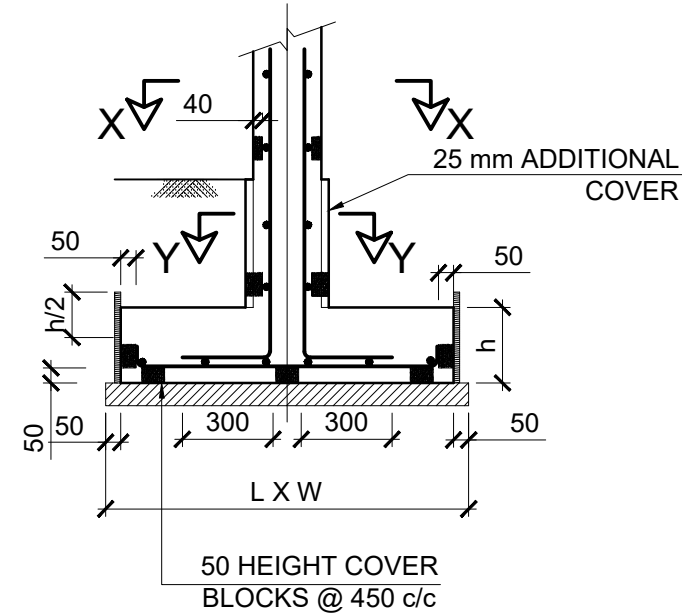
FOUNDATION
1. FOUNDATIONS ARE DESIGNED FOR ALLOWABLE BEARING CAPACITY OF 150 KN/m ²
2. DEPTH OF FOUNDATION GIVEN ON MINIMUM AND SHOULD GO DOWN AS PER ENGINEERS GUIDANCE.
3. GROUND IMPROVEMENT SHALL BE DONE PRIOR TO FOUNDATION CONSTRUCTION WHERE NECESSARY.
4. EXCAVATION FOR FOUNDATIONS TO BE APPROVED BY THE ENGINEER, BEFORE CONSTRUCTION OF FOUNDATIONS.

HOLES AND FIXINGS
NO HOLES OR FIXINGS SHALL BE FORMED IN STRUCTURAL ELEMENTS UNLESS SHOWN IN STRUCTURAL DRAWINGS. DETAILS OF HOLES, FIXING ETC. WHICH ARE REQUIRED AS PER OTHER DRAWINGS SHALL BE FORWARDED TO THE STRUCTURAL ENGINEER FOR APPROVAL.

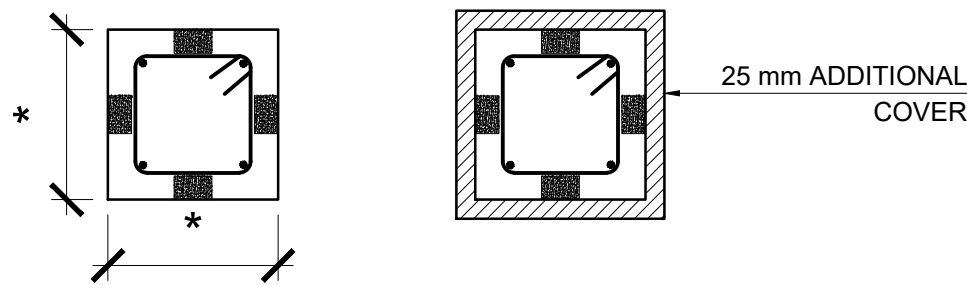
STRUCTURAL STEEL
1. ALL STRUCTURAL KEY PLANS AND DETAILS ARE TO BE READ IN CONJUNCTION WITH THE RELEVANT DRAWINGS, SPECIFICATIONS, BILL OF QUANTITIES AND ALL OTHER RELEVANT DOCUMENTS. DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO THE ENGINEER.
2. THE STRUCTURAL STEEL WORK SHOWN ON THE DRAWINGS AND DESCRIBED IN THIS SPECIFICATION HAS BEEN DESIGN TO BS 5950:2000.
3. ALL STEEL SHALL BE MILD STEEL TO BS 4360, GRADE 43A UNLESS OTHERWISE STATED.
4. ALL WELDS ARE 10mm FILLETS WELDS TO FULL LENGTH, UNLESS OTHERWISE STATED.
5. ALL BOLTS SHALL BE GRADE 8.8 BOLTS UNLESS OTHERWISE NOTED. ALL BOLTS, NUTS, WASHERS SHALL BE HOT DIP GALVANIZED TO CONFIRM TO BS 729:1971 / BS EN ISO 1461:209
6.a. SURFACE PREPARATION ALL STRUCTURAL STEEL MEMBERS (INCLUDING BOTH PRIMARY & SECONDARY) SHALL BE CLEANED WITH SAND BLASTING TO SA 2.5.
6.b. SURFACE TREATMENT ALL STRUCTURAL STEEL MEMBERS (INCLUDING BOTH PRIMARY & SECONDARY) SHALL BE ADEQUATELY TREATED WITH A PROTECTION SUITABLE AND RECOMMENDED FOR C5M ENVIRONMENT / CORROSIVELY CATEGORY.
7. CONTACT SURFACES IN CONNECTIONS WHERE HSFG BOLTS ARE USED SHALL BE LEFT UNPAINTED
8. CAMBER OF STRUCTURAL STEEL ROOF BEAMS, TRUSSES, PORTALS ETC. TO BE 5mm FOR EVERY 2000mm OF SPAN UNLESS OTHERWISE NOTED.
9. ALL DIMENSIONS AND DETAILS TO BE VERIFIED ON SITE AND CHECK BY THE CONTRACTOR AGAINST ARCHITECTS DRAWINGS.
10. HOLE FOR BOLTS SHALL NOT EXCEED THE DIAMETER OF THE BOLT BY NOT MORE THAN 2mm.
11. PROPRIETARY NON SHRINK GROUT WITH A MINIMUM COMPRESSIVE STRENGTH OF 60 N/mm ² AT 28 DAYS SHOULD BE USED UNDER THE BASE PLATE AFTER ERECTION AND ALIGNMENT OF THE STEEL FRAME.
12. CONTRACTOR TO PREPARE SHOP DRAWINGS AND FORWARD TO STRUCTURAL ENGINEER FOR VERIFICATION AND APPROVED PRIOR TO FABRICATION OF STRUCTURAL STEEL WORKS.

PURLINS
ALL ROOF PURLINS SHOULD BE HIGH TENSILE (f _y =450Mpa) PRE GALVANIZED (Z350-350g/m ² ZINC COATING) LIPPED CHANNEL PURLINS. 12mm Ø SAG RODS SHOULD BE PROVIDED AS PER THE DRAWINGS

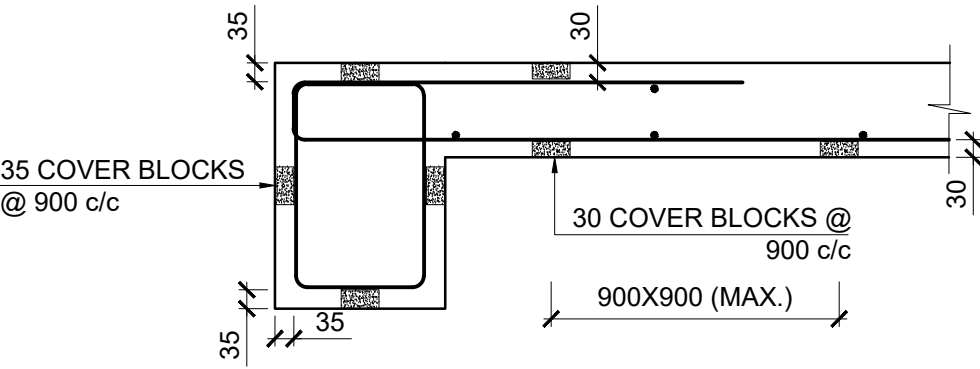
JOINTS
EXPANSION JOINTS IN CONCRETE GROUND SUPPORTED SLABS SHALL BE CONSTRUCTED AT LOCATIONS AND AS DETAILED ON THE DRAWINGS OR IF NOT DETAILED AT INTERVALS OF NOT MORE THAN 7500 IN ANY DIRECTION. PRE MOULDED 10 THICK EXPANSION JOINT FILLER SHALL BE INSTALLED AND SET 10 BELOW FINISHED SLAB AND SPACE FILLED WITH APPROVED SEALING MATERIAL.



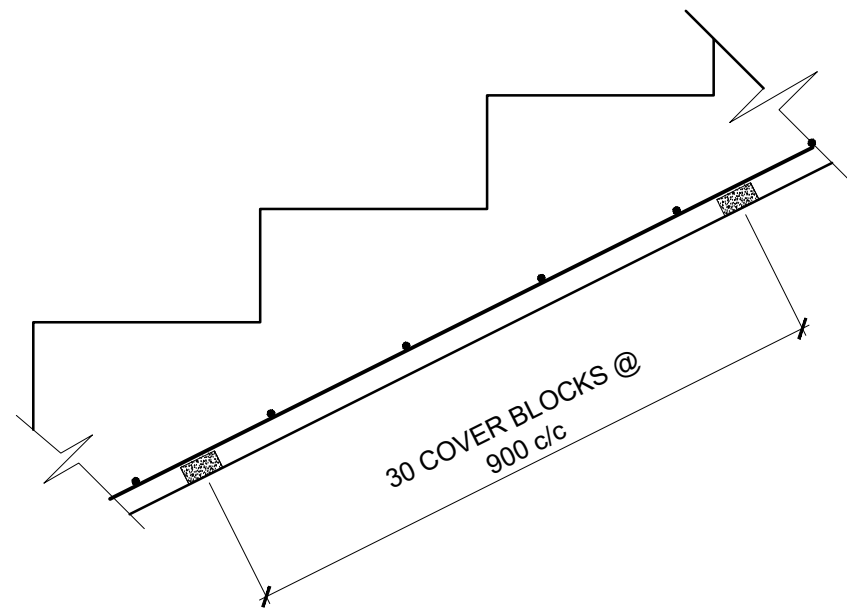
TYPICAL COLUMN FOUNDATION DETAIL
SCALE 1:25



SECTION X-X
SCALE 1:10
SECTION Y-Y
SCALE 1:10
NOTE:
* REFER DETAILS DRAWING

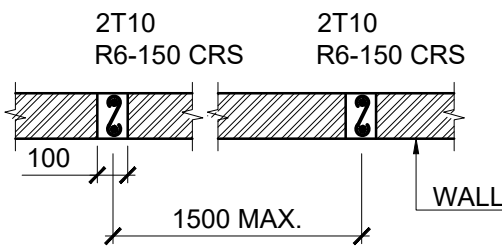


TYPICAL R/F DETAILS OF SLAB & BEAM



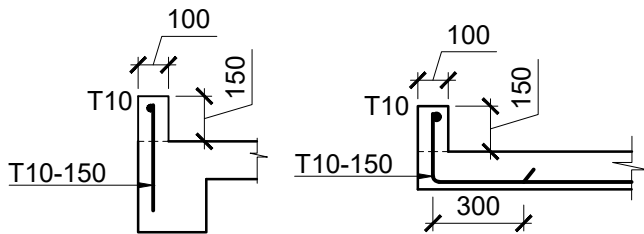
TYPICAL R/F STAIRCASE DETAILS

COVER ARRANGEMENT
SCALE 1:10

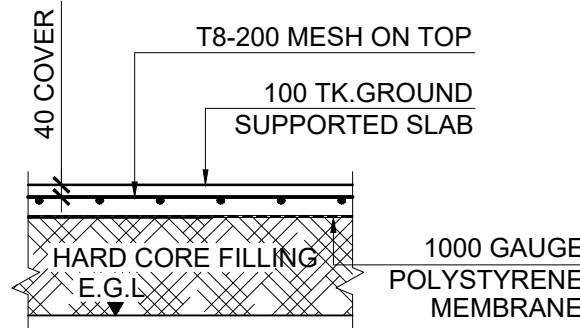


TYPICAL WALL STIFFNER DETAIL FOR 100mm WALLS






(VERTICAL & HORIZONTAL AND /OR AROUND DOOR/WINDOW OPENINGS)
SCALE 1:25



ROOF EDGE DETAIL
SCALE 1:25



TYPICAL DETAIL OF GROUND SLAB
SCALE 1:25

Key Map:					
General Legend:					
Drawing Notes:					
2	2023 12 14	TENDERING ONLY	APV		
1	2023 11 27	AS SHOWN IN CLOUD	APV		
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GENERAL NOTES & TYPICAL DETAILS (SHEET 1)					
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23553	01	TN	ST	GN	3000
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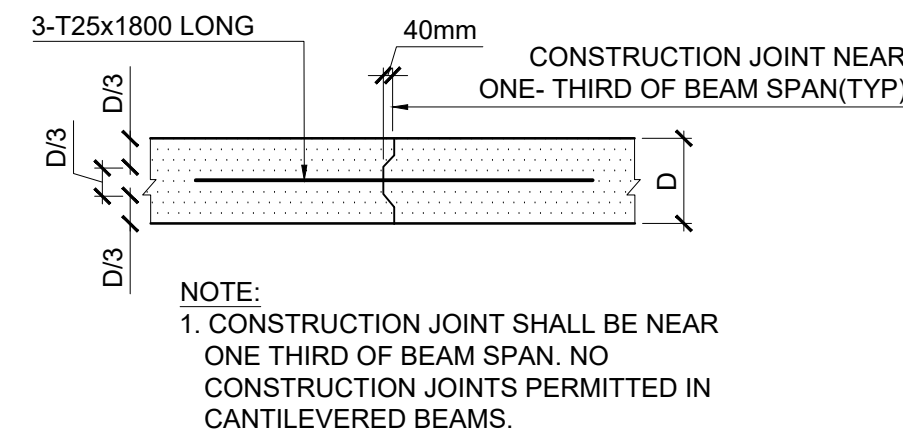
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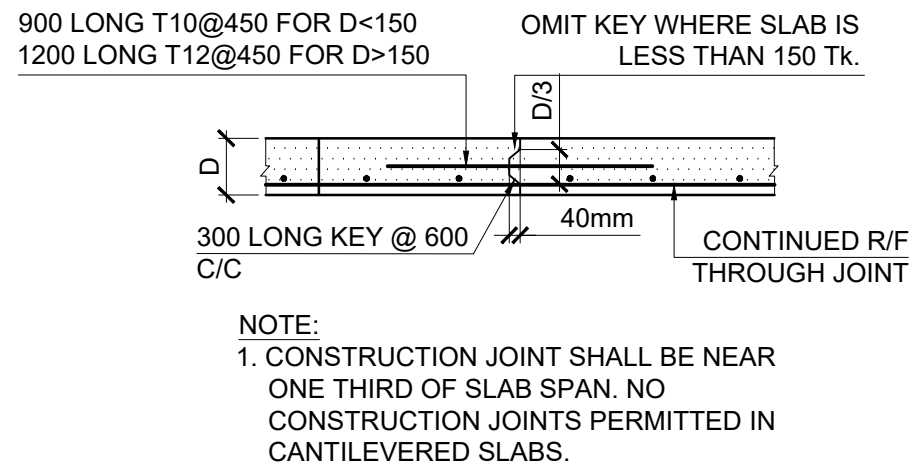
Drawing Title:

GENERAL NOTES & TYPICAL DETAILS
(SHEET 2)

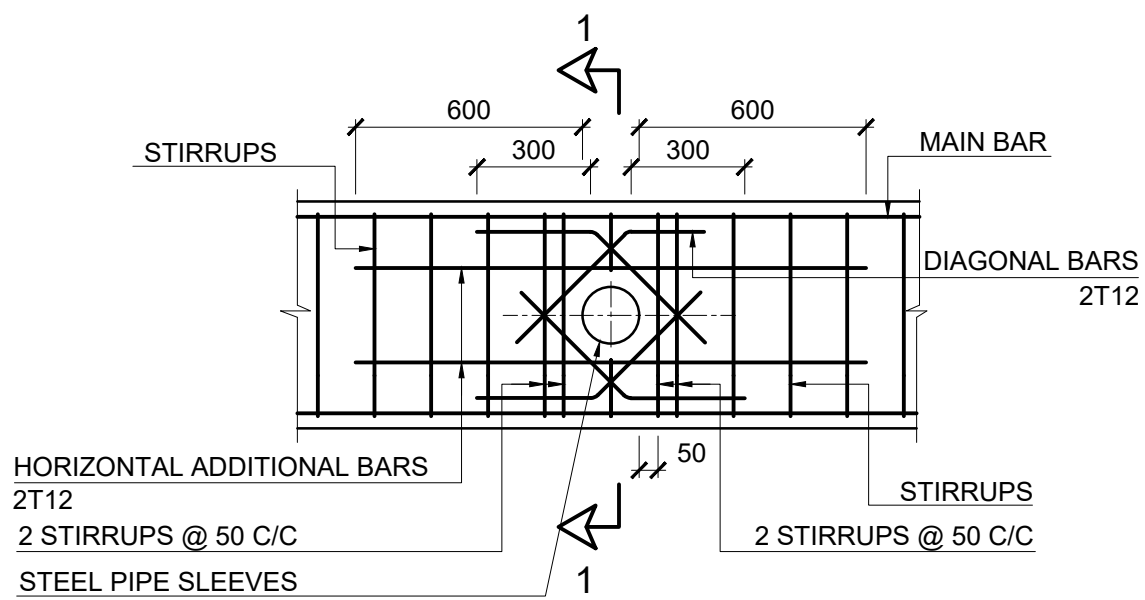
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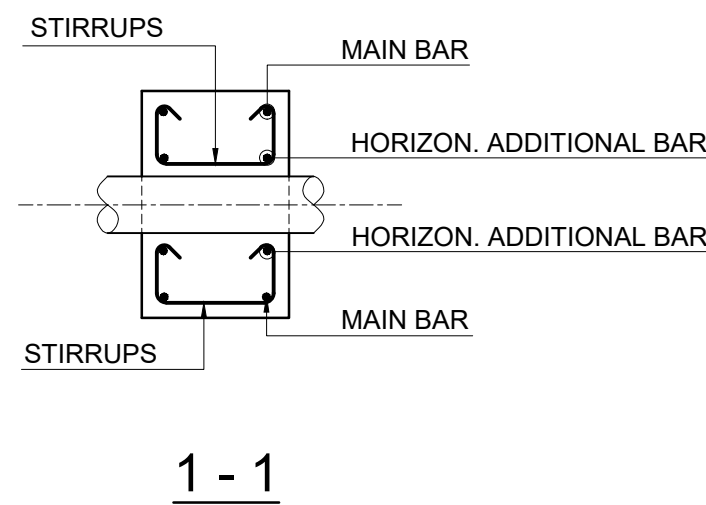
TYPICAL BEAM CONSTRUCTION JOINT
SCALE 1:20



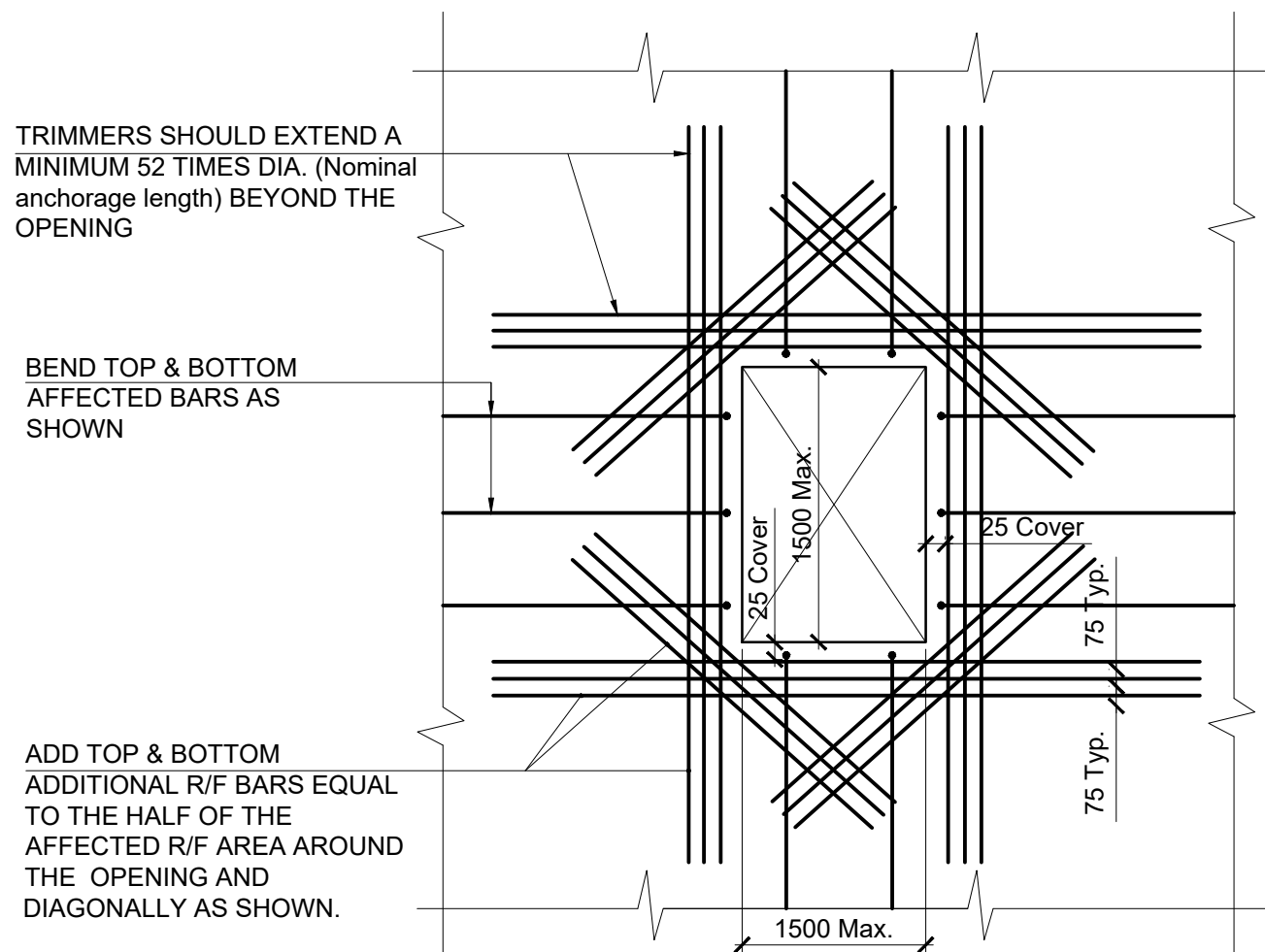
**TYPICAL CONSTRUCTION
JOINT FOR STRUCTURAL SLABS**
SCALE 1:20



**TYPICAL DETAIL FOR HORIZONTAL
SLEEVES THROUGH CONCRETE BEAM**
SCALE 1:20



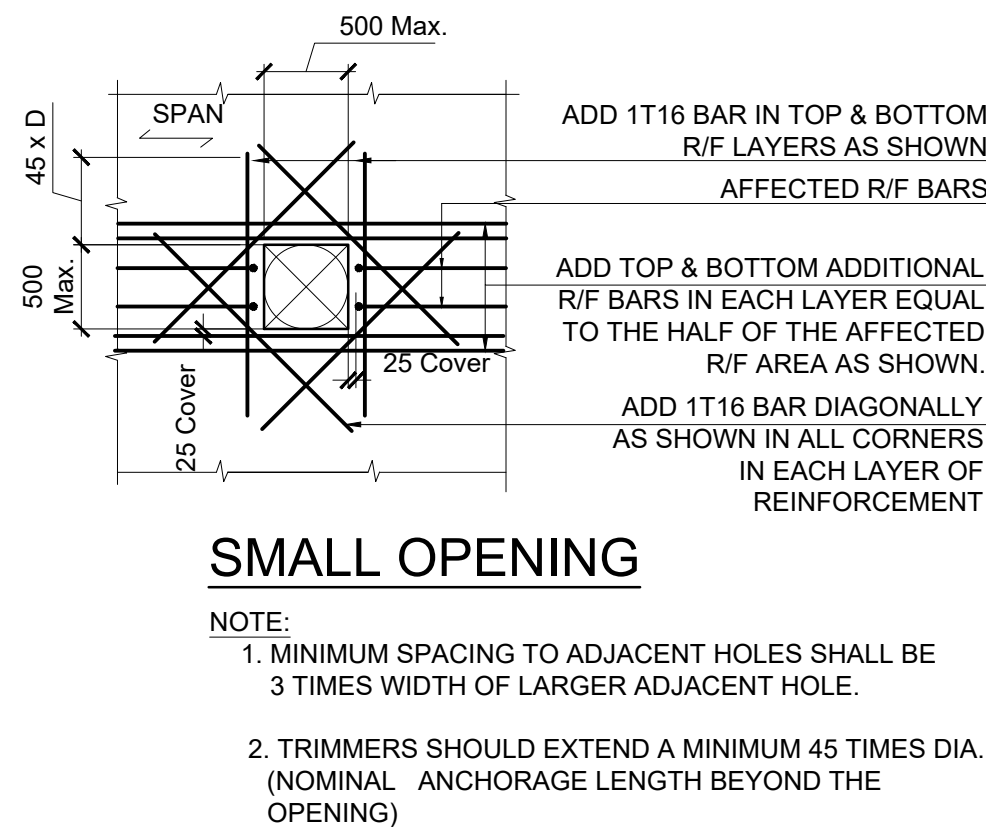
**(THIS DETAIL TO BE USED
UP TO 750 DEPTH)**
SCALE 1:20



OPENINGS SMALLER THAN 1500mm

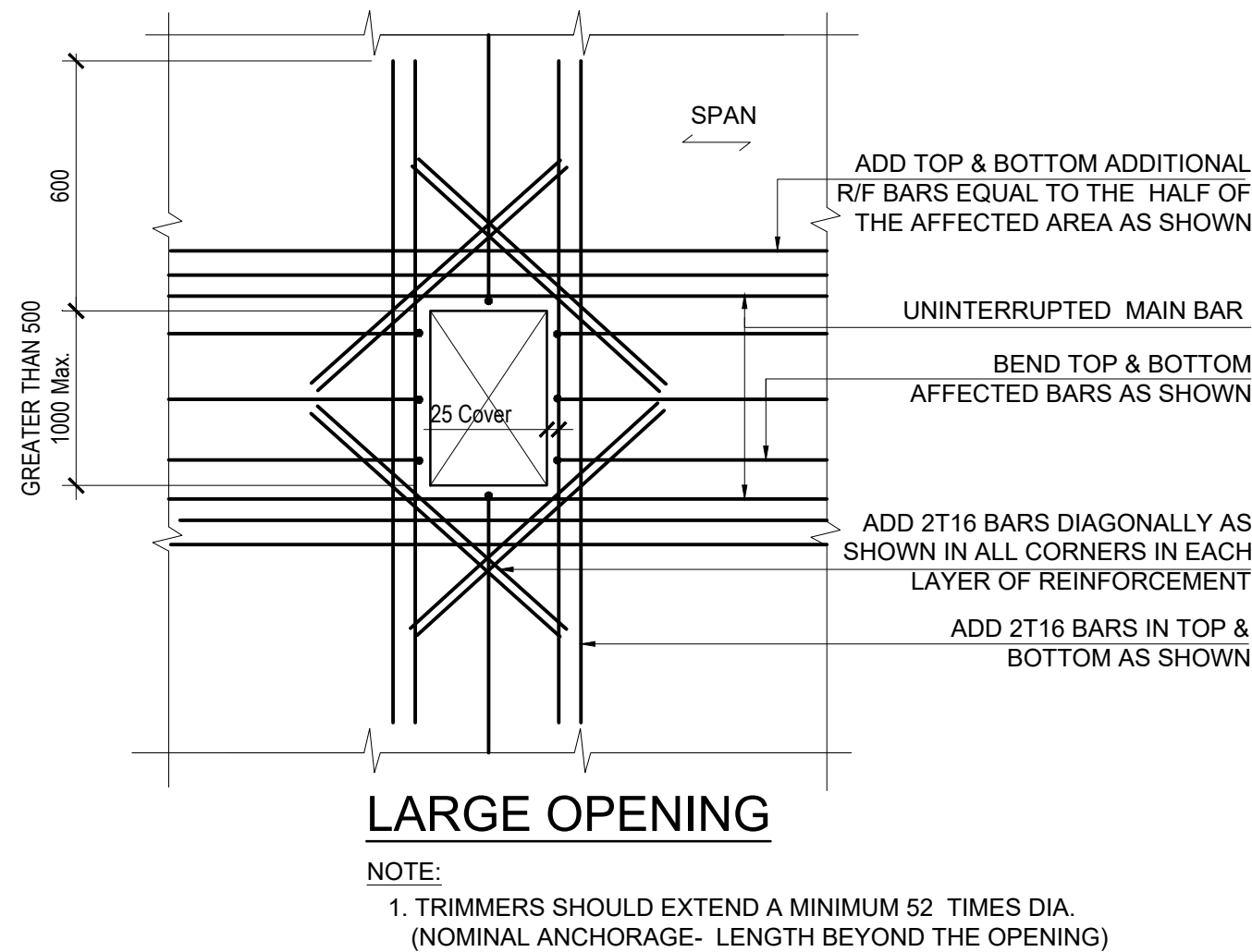
**TYPICAL TWO-WAY SLAB &
FLAT SLAB OPENING REINFORCEMENT**
SCALE 1:40

NOTE:
THIS DETAIL APPLIES WHEN REINFORCEMENT TO BE TERMINATED AT THE OPENING



SMALL OPENING

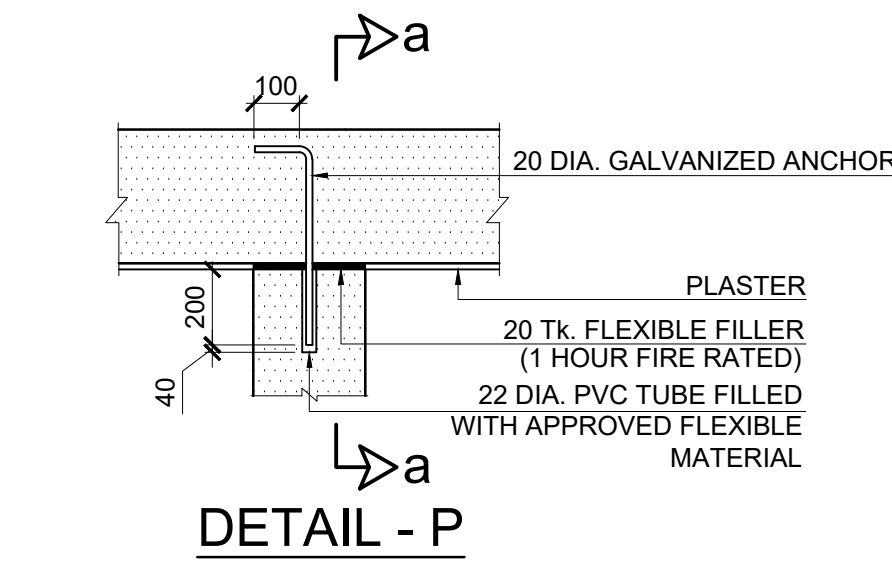
NOTE:
1. MINIMUM SPACING TO ADJACENT HOLES SHALL BE 3 TIMES WIDTH OF LARGER ADJACENT HOLE.
2. TRIMMERS SHOULD EXTEND A MINIMUM 45 TIMES DIA. (NOMINAL ANCHORAGE LENGTH BEYOND THE OPENING)



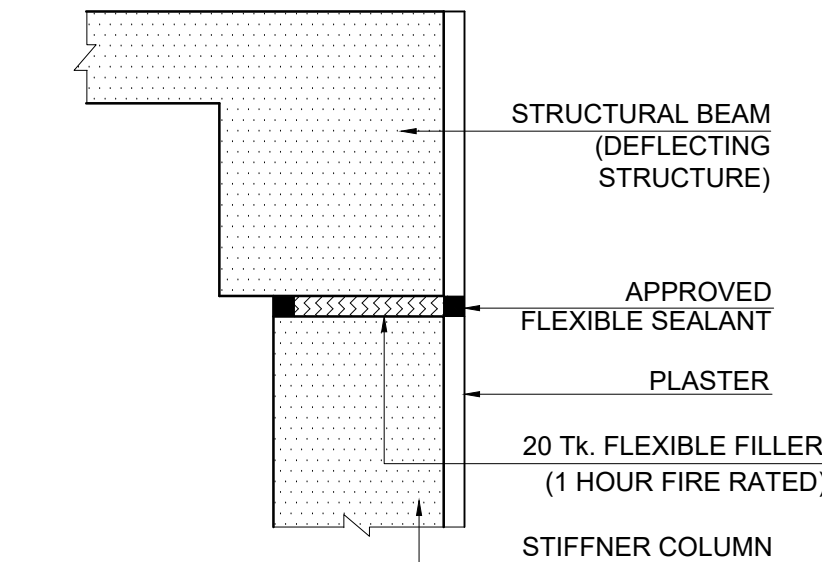
LARGE OPENING

NOTE:
1. TRIMMERS SHOULD EXTEND A MINIMUM 52 TIMES DIA. (NOMINAL ANCHORAGE- LENGTH BEYOND THE OPENING)

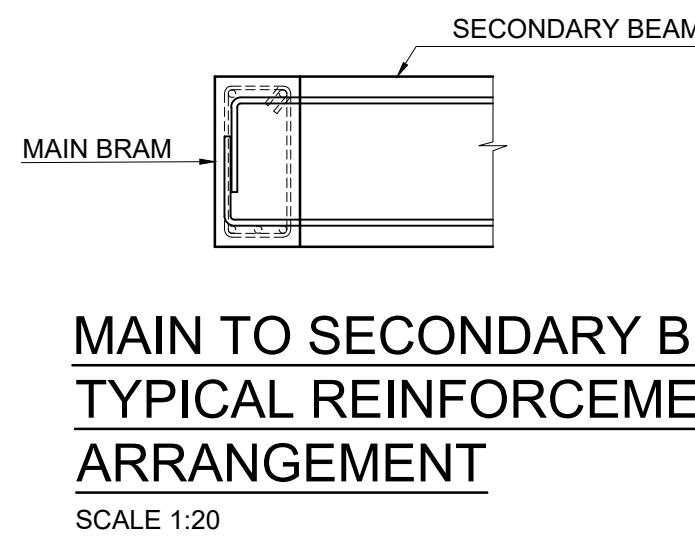
TYPICAL ONE- WAY SLAB OPENING REINFORCEMENT
SCALE 1:40



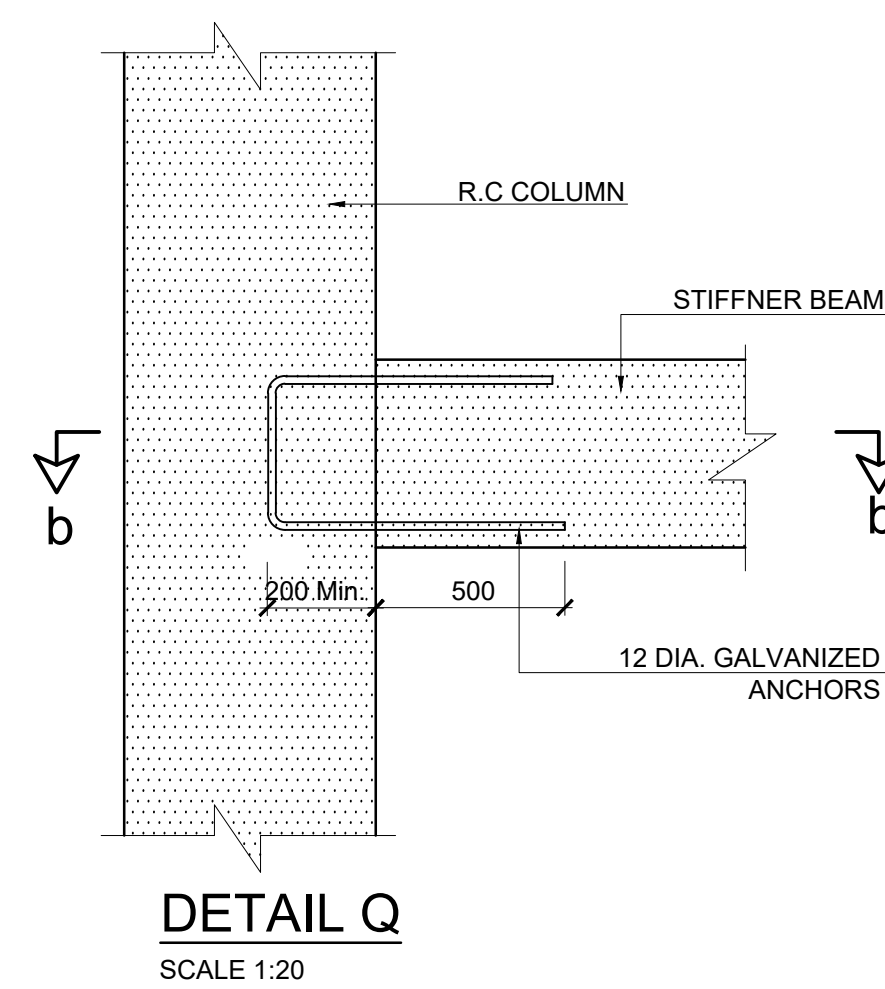
DETAIL - P



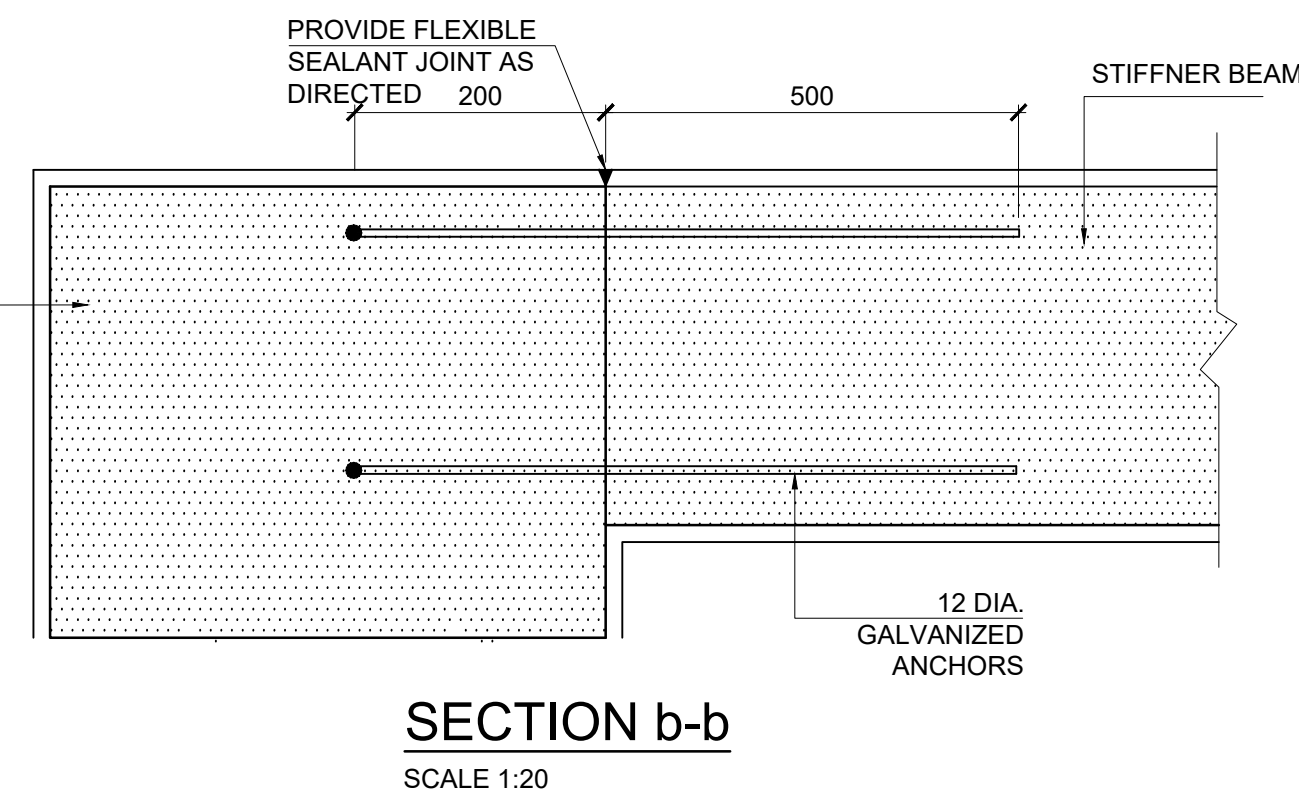
SECTION a-a



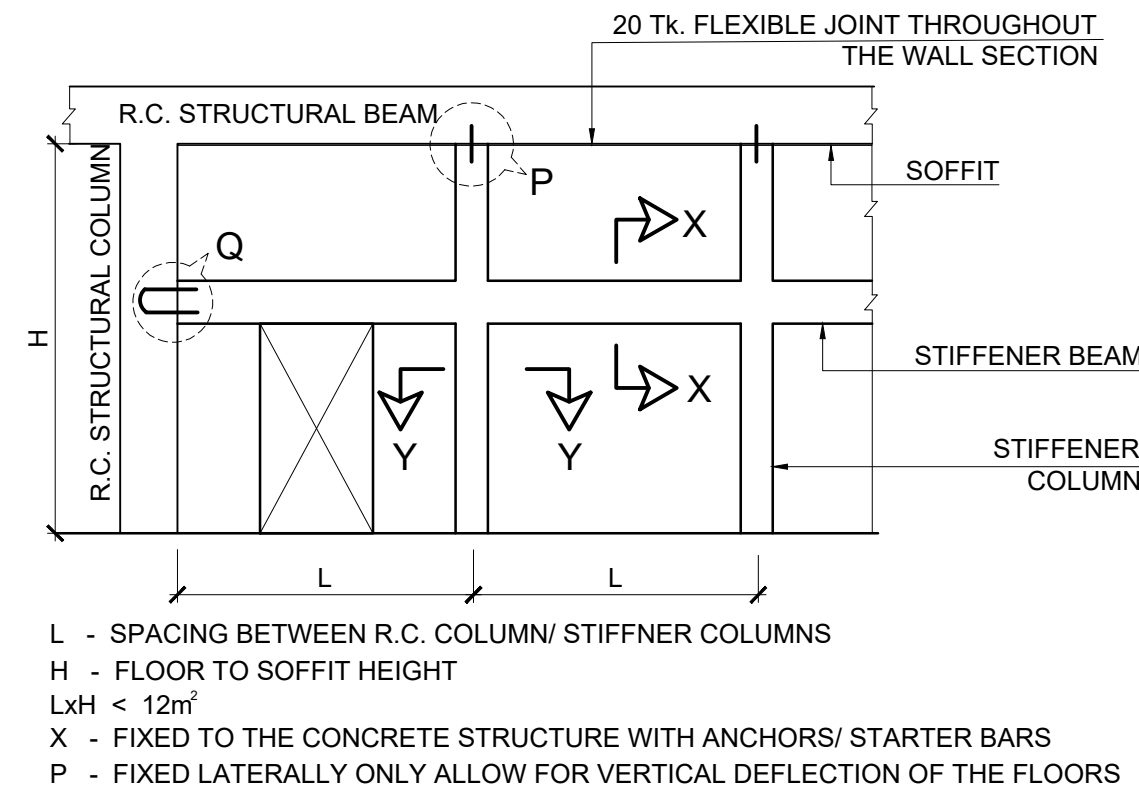
**MAIN TO SECONDARY BEAM
TYPICAL REINFORCEMENT
ARRANGEMENT**
SCALE 1:20



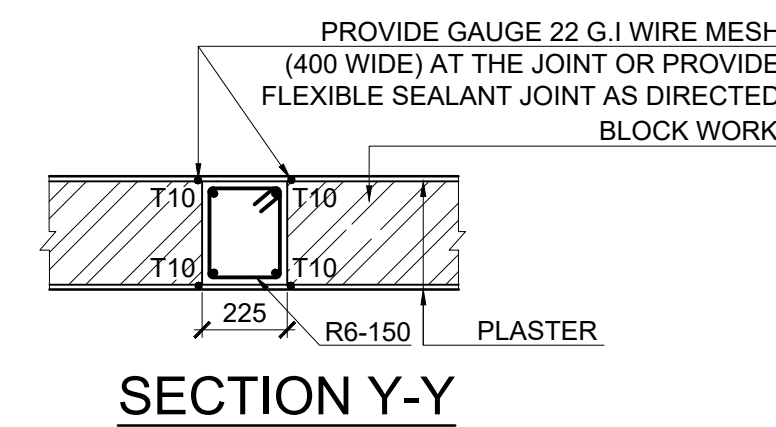
DETAIL Q
SCALE 1:20



SECTION b-b
SCALE 1:20



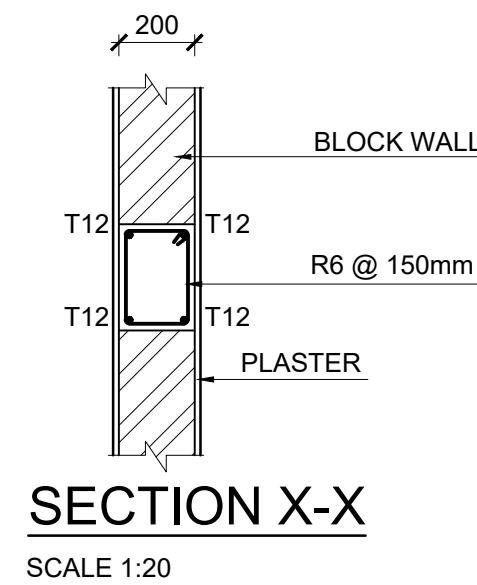
TYPICAL STIFFENER BEAM / COLUMN ARRANGEMENT
SCALE 1:20



SECTION Y-Y

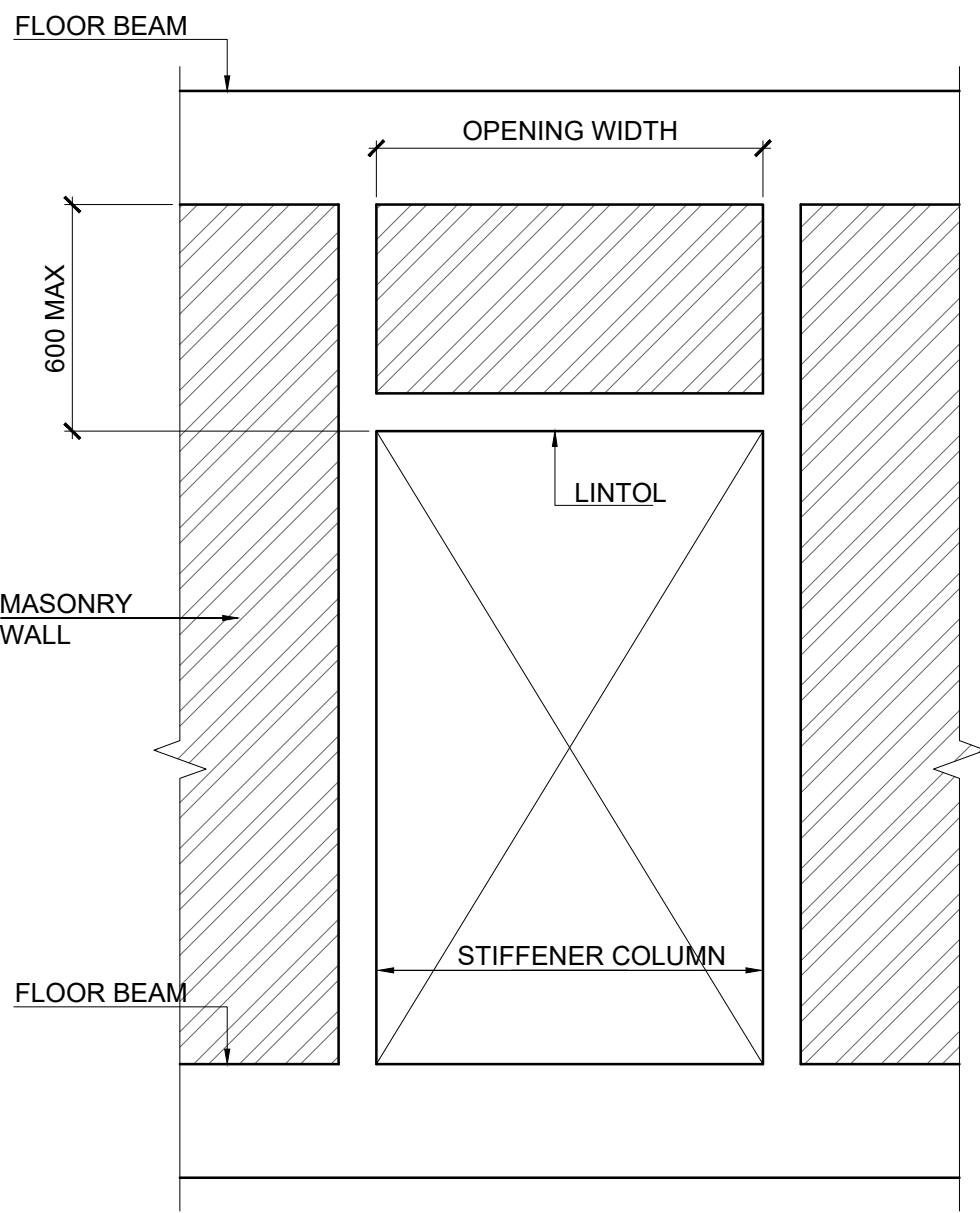
R.C. STIFFENER BEAM / COLUMN DETAIL
(CAST IN SITU AS MASONRY WORK PROCEEDS)
SCALE 1:20

NOTE:
1. STIFFENER BEAMS/ COLUMNS SHALL BE REQUIRED TO WALL AREAS GREATER THAN 12 SQ.M WHICH ARE UNSUPPORTED Laterally BY BLOCK/BRICK WALLS, CONCRETE WALLS OR COLUMNS.
2. APPROVED FLEXIBLE SEALANT SHALL BE PROVIDED AT THE INTERFACE OF CONCRETE AND BRICK/ BLOCK MASONRY AS SHOWN.
3. BLOCK/BRICK WORK RATES SHOULD INCLUDE FOR ALL CONSTRUCTION OF R.C. STIFFENER COLUMNS/BEAMS FLEXIBLE JOINTS, ANCHORS ETC.

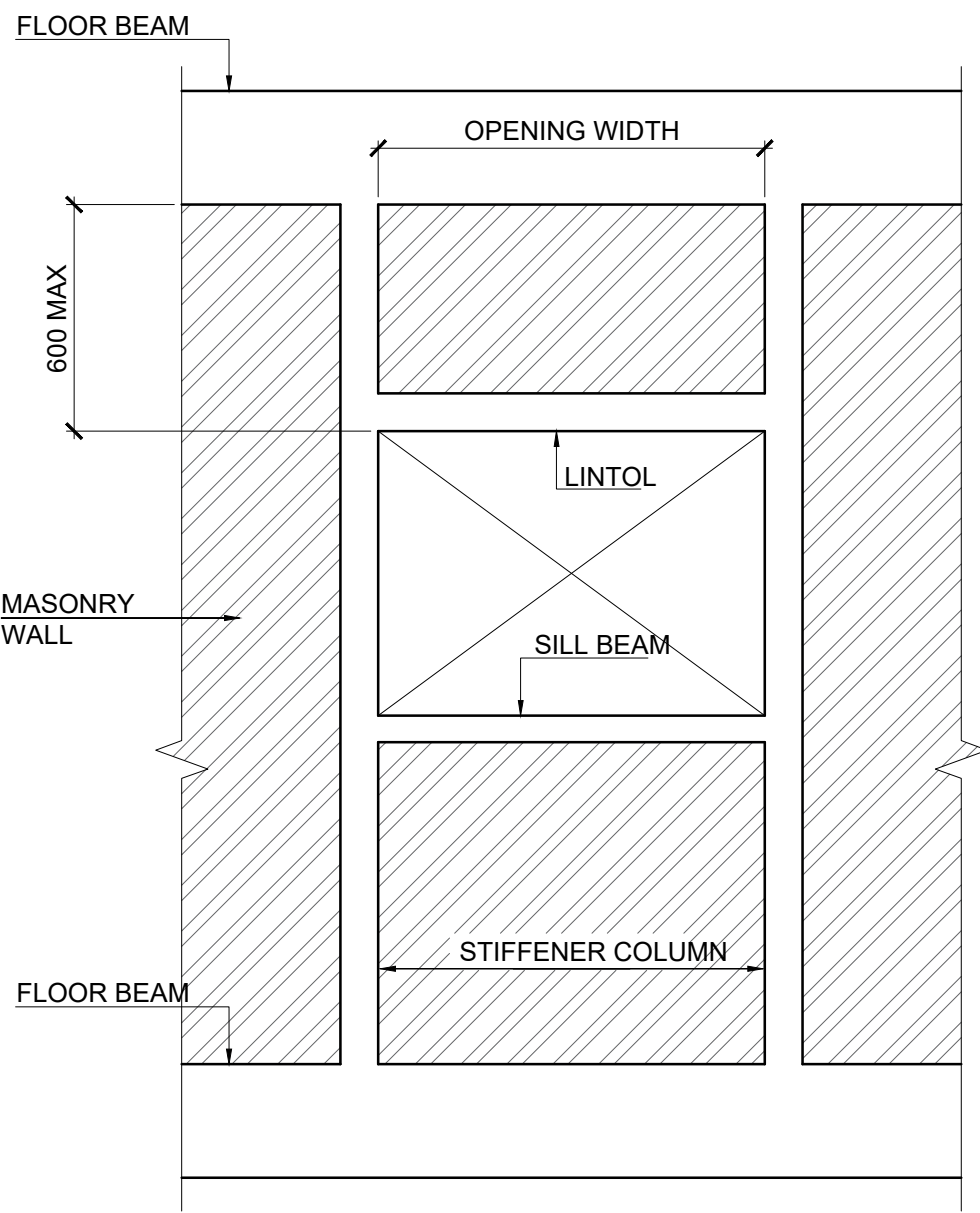


SECTION X-X
SCALE 1:20

TENDERING ONLY



DOOR OPENING
SCALE:- 1:20

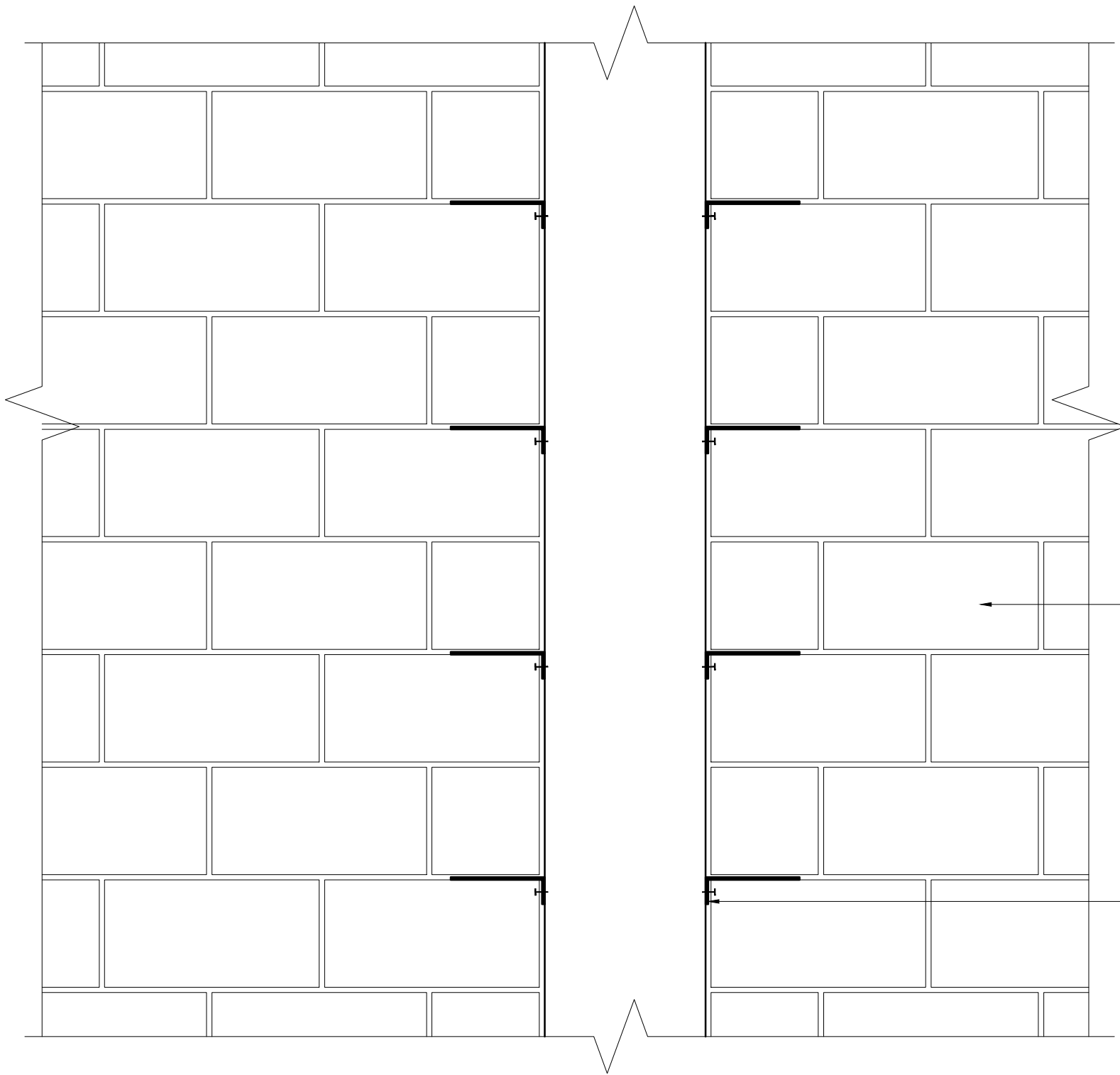


WINDOW OPENING
SCALE:- 1:20

SCHEDULE OF LINTOLS AND STIFFENERS				
TYPE	STIFFENER COLUMN SECTION	LINTOL SECTION	LOCATION	SILL BEAM
T1			OPENINGS UP TO 1000mm	
T2			OPENINGS UP TO 1000mm TO 1500mm	
T3			OPENINGS UP TO 1500mm TO 1750mm	
T4			OPENINGS UP TO 1750mm TO 2250mm	
T5			OPENINGS UP TO 2250mm TO 2750mm	

* WALL WIDTH

TYPICAL WALL OPENING DETAILS
SCALE:- 1:20



BLOCK WALL AS PER ARCHITECTURAL DRAWINGS

175mm LONG x 40mm WIDE x 3mm THK x 50mm BEND, GALVANIZED OR ALUMINUM WALL TIES PROVIDED AT EVERY OTHER COURSE AND FIXED TO THE RC COLUMN USING FASTENERS

TYPICAL DETAILS OF
RC COLUMN - BLOCK WALL CONNECTION
SCALE:- 1:10

Key Map:

General Legend:

Drawing Notes:

1	2023.12.14	TENDERING ONLY	APV
0	2023.09.22	PROPOSED	APV
Rev.	Date	Description	Approved

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Project Name:

EMERGENCY CONSTRUCTION OF
PATIENT WARDS AT
KULHUDHUFFUSHI ISLAND IN
MALDIVES

Client:

MINISTRY OF HEALTH,
KULHUDHUFFUSHI REGIONAL HOSPITAL
MALDIVES
 Ministry of Health
Republic of Maldives

Supported & Funded By:


THE WORLD BANK


ASIAN INFRASTRUCTURE INVESTMENT
BANK


Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA
J DON CAROLUS RD,
COLOMBO 00700,
SRI LANKA


Design:

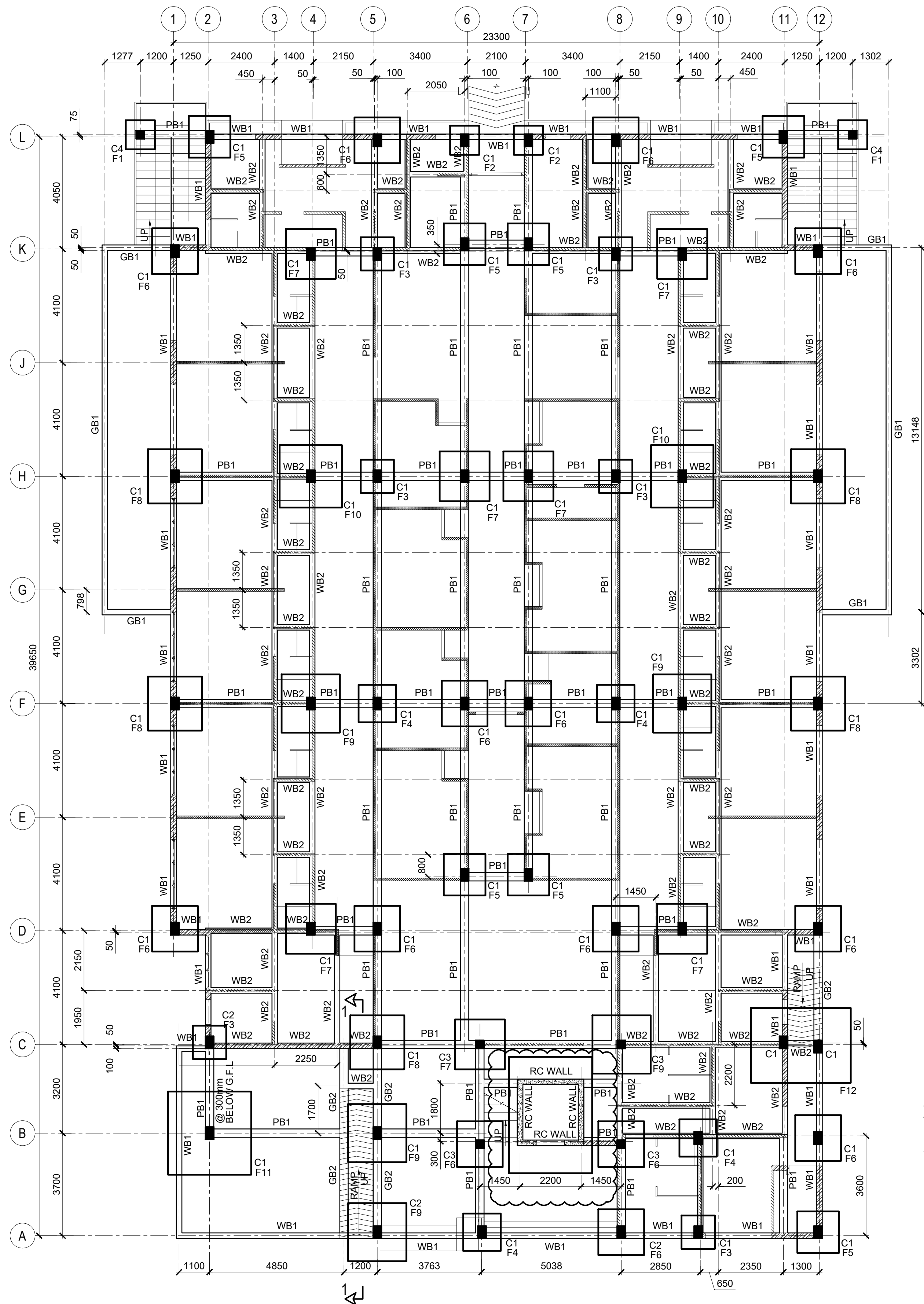
URO STRUCTURAL CONSULTANTS (PVT) LTD
114A, KOSWATTA RD, NAWALA
RAJAGIRYA, PC 10107,
COLOMBO, SRI LANKA


Drawing Title:

GENERAL NOTES & TYPICAL DETAILS
(SHEET 3)

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	ST	GN	3002
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
GLS	SAV	APV	1	A1	-
2023.12.14					

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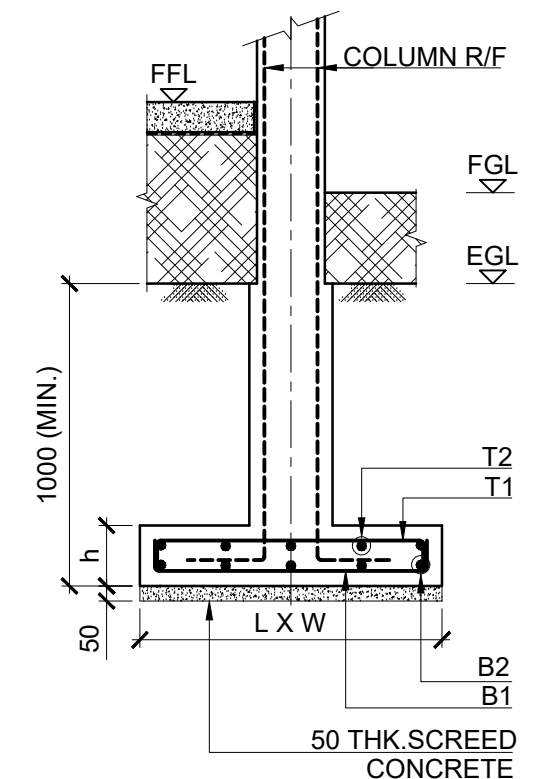


FOUNDATION LAYOUT (+0.450 LEVEL)

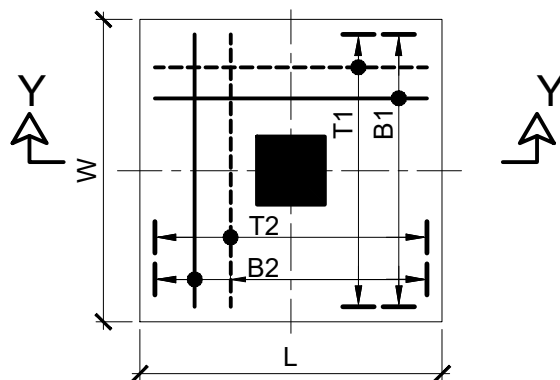
SCALE 1:100

NOTES:

1. ALL CONCRETE TO BE C30
2. ALL SLABS TO BE 100 THK GROUND SUPPORTED SLAB UNLESS OTHERWISE STATED.
3. C1/ C2 - 450X300 RC COLUMN
C3 / C4 - 300X300 RC COLUMN

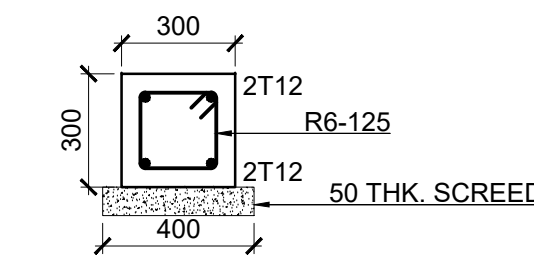


SECTION Y-Y



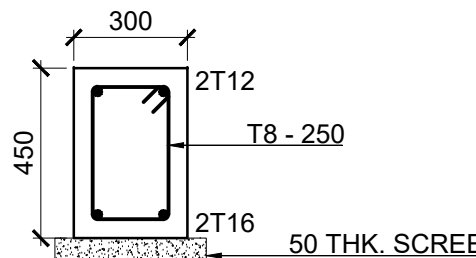
TYPICAL DETAILS OF COLUMN FOUNDATION

SCALE 1:25



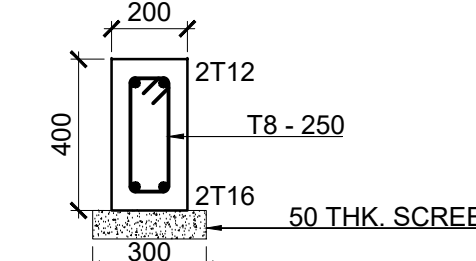
PLINTH BEAM - PB1
(300x300)

SCALE 1:20



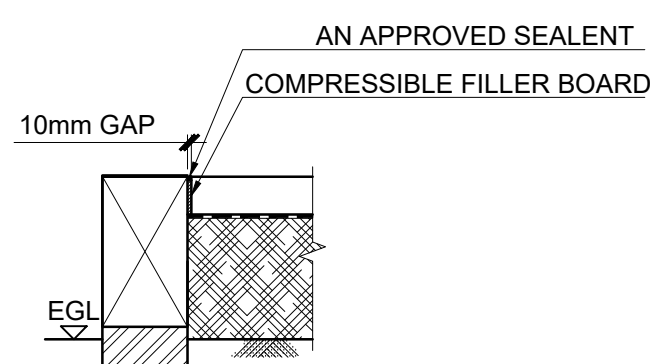
GROUND BEAM - GB2
(450x300)

SCALE 1:20

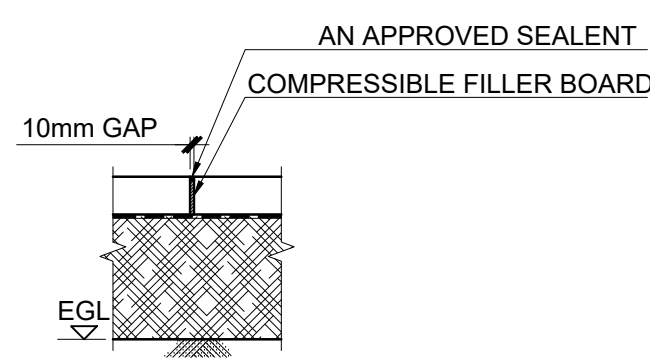


GROUND BEAM - GB1
(400x200)

SCALE 1:20



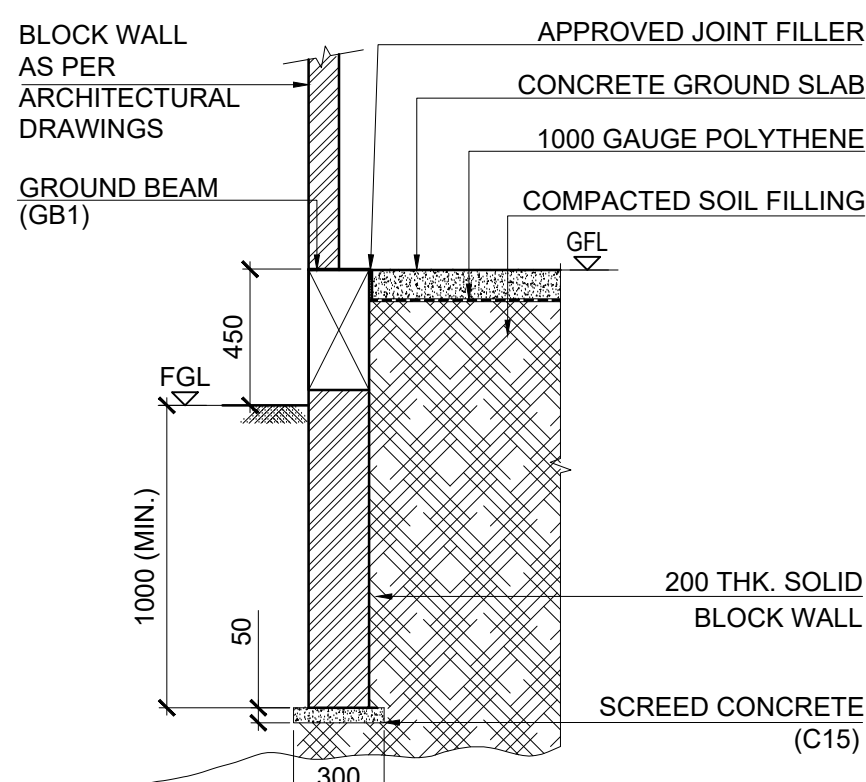
TYPE - A



TYPE - B

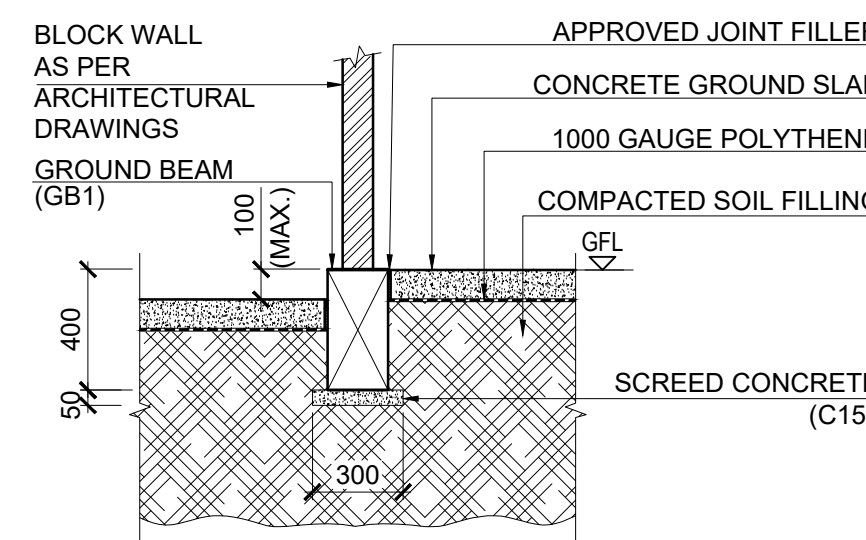
TYPICAL DETAIL OF FLOOR JOINTS (FJ)

SCALE 1:20



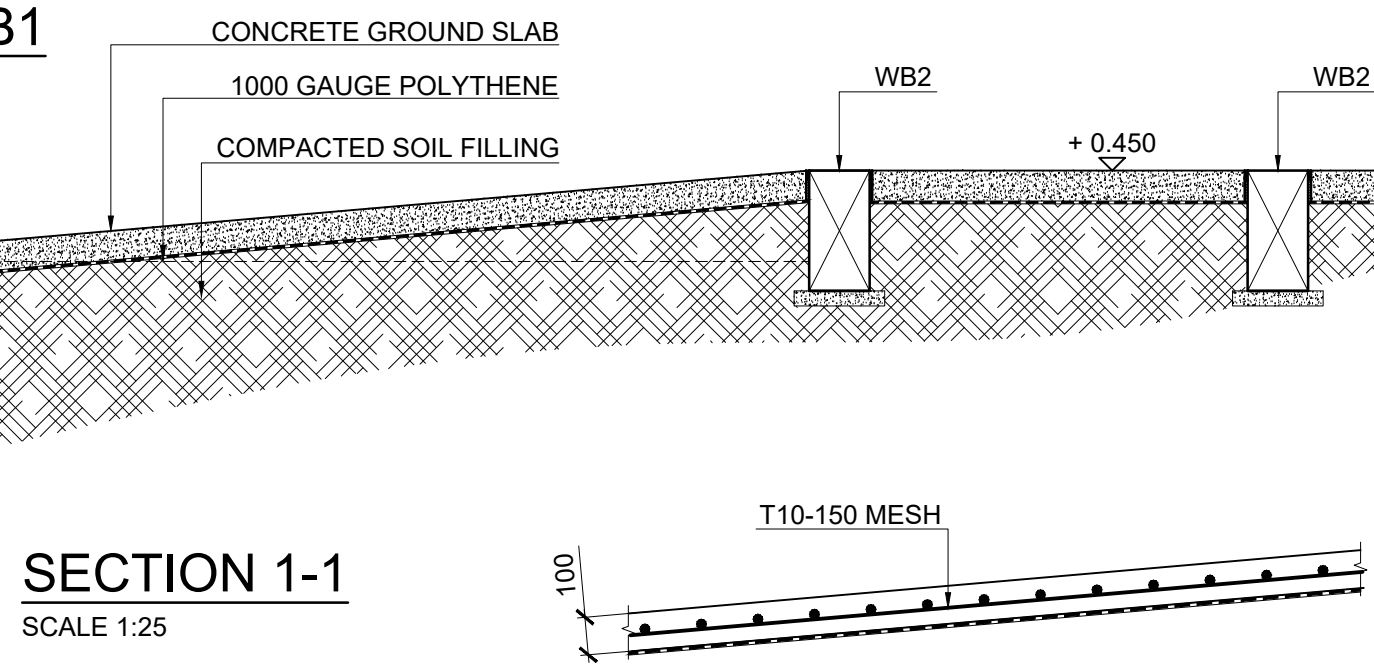
WF BLOCK WALL
WB1

SCALE 1:25



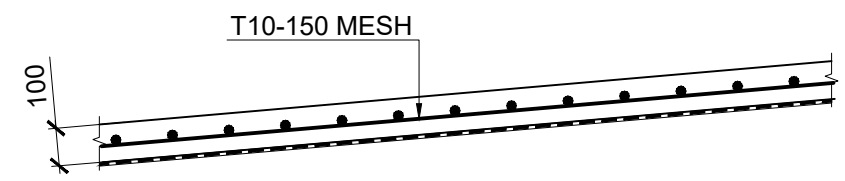
WF BLOCK WALL
WB2

SCALE 1:25



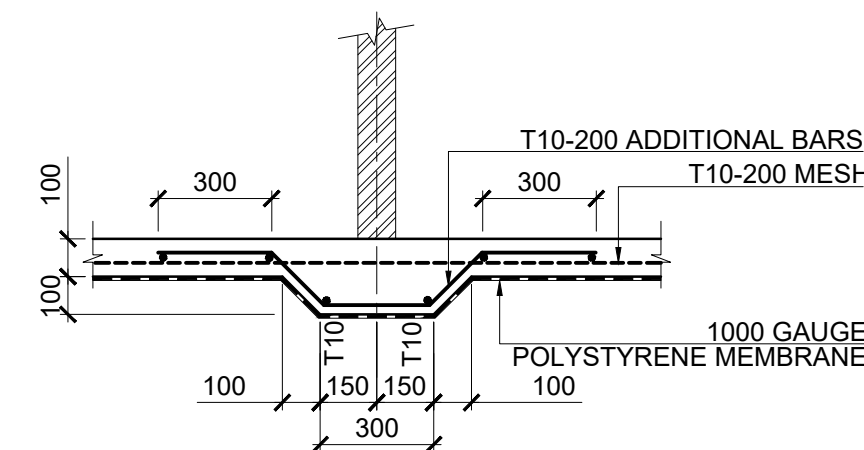
SECTION 1-1

SCALE 1:25



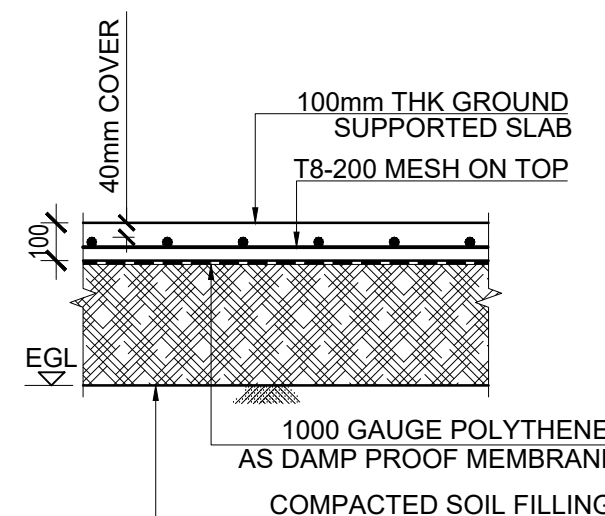
TYPICAL R/F DETAIL OF RAMP

SCALE 1:20



TYPICAL DETAILS OF 100 TK.
WALLS SUPPORTED ON GROUND
SUPPORTED SLAB

SCALE 1:20



TYPICAL DETAIL OF
GROUND SLAB

SCALE 1:20

TABLE: COLUMN FOUNDATION DETAILS

FOOTING NO	L X W	h	REINFORCEMENT			
			B1	B2	T1	T2
F1	750 X 750	175	T10-150	T10-150	--	--
F2	1050X1050	200	T10-150	T10-150	--	--
F3	1200X1200	225	T10-150	T10-150	--	--
F4	1350X1350	250	T10-150	T10-150	--	--
F5	1500X1500	275	T10-150	T10-150	--	--
F6	1650X1650	300	T12-150	T12-150	--	--
F7	1800X1800	325	T12-150	T12-150	--	--
F8	1950X1950	375	T12-150	T12-150	--	--
F9	2100X2100	400	T12-150	T12-150	T10-150	T10-150
F10	2250X2250	425	T12-150	T12-150	T10-150	T10-150
F11	3000X3000	575	T12-125	T12-125	T12-150	T12-150
F12	2700X3600	475	T12-150	T12-150	T10-150	T10-150

Key Map:

General Legend:

Drawing Notes:

Rev.	Date	Description	Approved
2	2023.12.14	TENDERING ONLY	APV
1	2023.11.08	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	APV
0	2023.09.22	PROPOSED	APV

Project Name:

EMERGENCY CONSTRUCTION OF
PATIENT WARDS AT
KULHUTHUFFUSHI ISLAND IN
MALDIVES

Client:

MINISTRY OF HEALTH,
KULHUTHUFFUSHI REGIONAL HOSPITAL
MALDIVES



Supported & Funded By:

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BANK



Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA

2 DON CAROLUS RD,
COLOMBO 00700,
SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD
114A, KOSWATTA RD, NAWALA
RAJAGIRYA, PC 10107,
COLOMBO, SRI LANKA



Drawing Title:

STRUCTURAL DETAILS
FOUNDATION LAYOUT & DETAILS

Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
23553	01	TN	ST	FP	3200
Drawn	Check	Appr.	Rev.	Size	Scale
NIM	SAV	APV	2	A1	-

2023.12.14

TENDERING ONLY



1. REFER DRAWING NO 23553-01-PR-ST-FP-3200 FOR FLOOR JOINT DETAILS A OR B.

TENDERING ONLY

General Legend:

Drawn:	Checked:	Appr.:	Rev.:	Size:	Scale:	Issue Date:
CLS	SAV	ABV	1	A1		2023.12.14

GLS	SAV	AFV	I	AI	-	2023.12.14
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ROOF TERRACE COVER SLAB (IF APPLICABLE)						TERMINATE AT ROOF LEVEL
FIRST FLOOR TO ROOF TERRACE (IF APPLICABLE)						
GROUND FLOOR TO FIRST FLOOR				TERMINATE AT LANDING LEVEL 		
FOUNDATION TO GROUND FLOOR						
	<u>C1</u>	<u>C2</u>	<u>C3</u>	<u>C4</u>	<u>FC1</u>	<u>FC2</u>

SCHEDULE OF COLUMNS
SCALE 1:20

Key Map:

General Legend:

Drawing Notes:

1	2023.12.14	TENDERING ONLY	APV
0	2023.09.22	PROPOSED	APV
Rev.	Date	Description	Approved

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EMERGENCY CONSTRUCTION OF
PATIENT WARDS AT
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Client:

MINISTRY OF HEALTH,
KULHUDHUFFUSHI REGIONAL HOSPITAL
MALDIVES



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OFFICE, SRI LANKA

3 DON CAROLUS RD,
COLOMBO 00700,
SRI LANKA



Design:

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RAJAGIRIYA, PC 10107,
COLOMBO, SRI LANKA

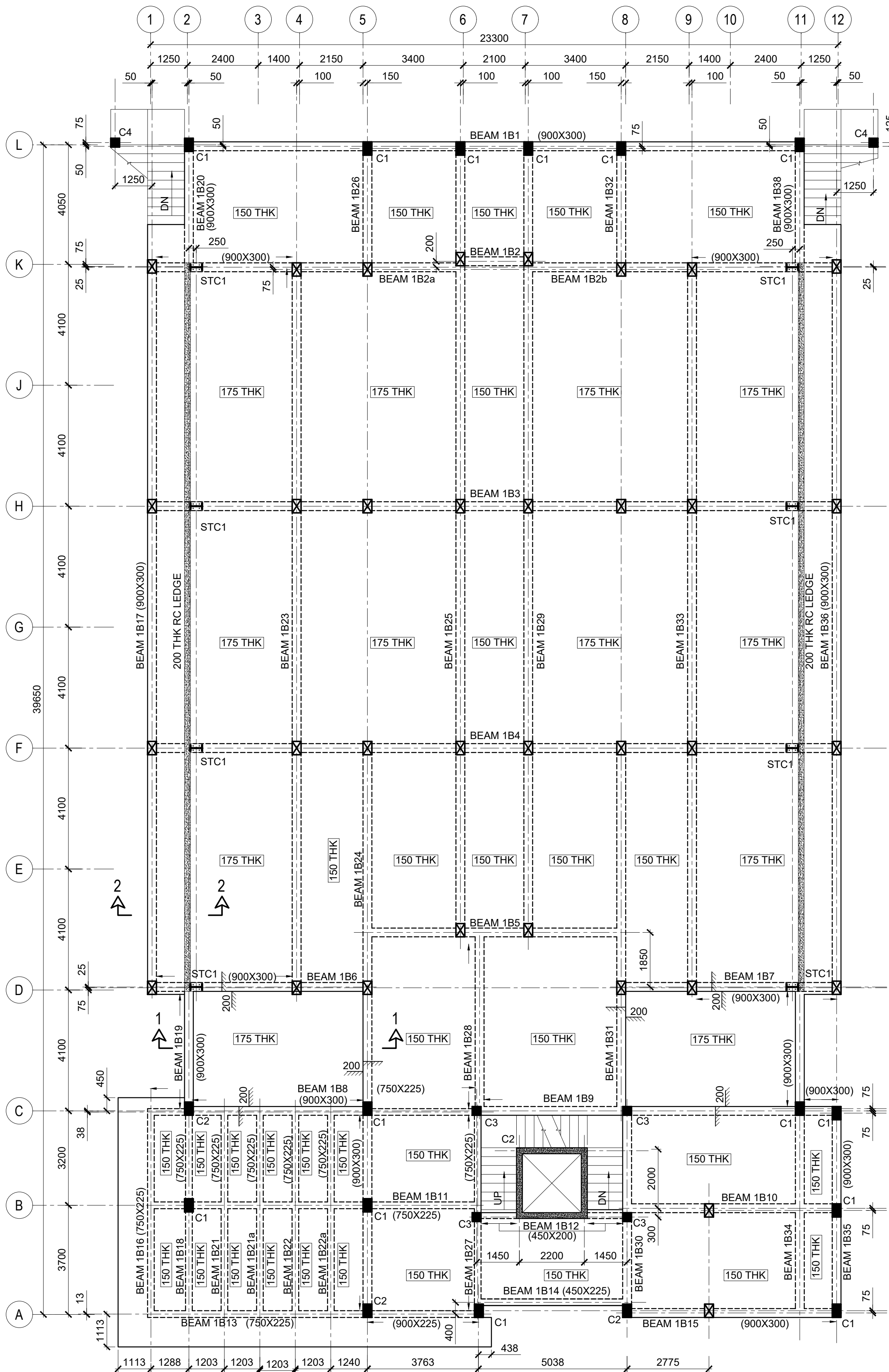


Drawing Title:

STRUCTURAL DETAILS
COLUMN DETAILS

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	ST	CD	3400
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
GLS	SAV	APV	1	A1	-
					2023.12.14

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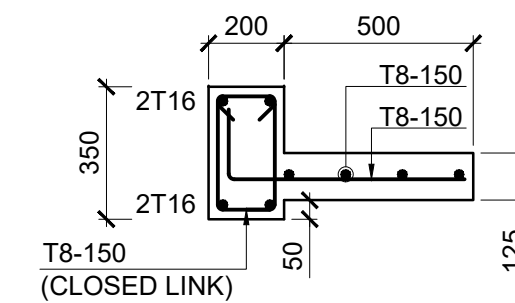


GENERAL ARRANGEMENT OF FIRST FLOOR LAYOUT (+ 4290 LEVEL)

SCALE 1:100

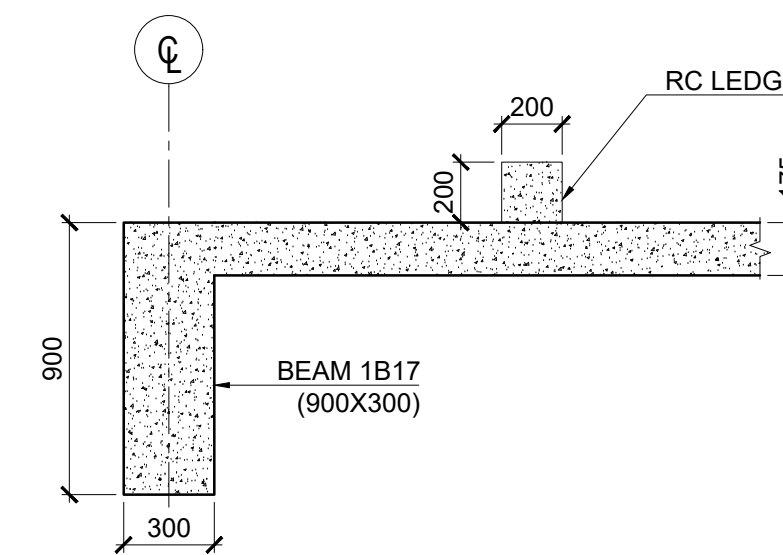
NOTE:

1. ALL BEAMS TO BE 600X300 UNLESS OTHERWISE STATED
2. C1/ C2 - 450X300 RC COLUMN
C3 / C4 - 300X300 RC COLUMN
3. STC1 - 400X200X56.6 kg/m UB SECTION START FROM THIS LEVEL
COLUMN TERMINATE AT THIS LEVEL
COLUMN START FROM THIS LEVEL
4. ALL SLABS TO BE 150 THK UNLESS OTHERWISE STATED
5. 200MM thk RC WALL



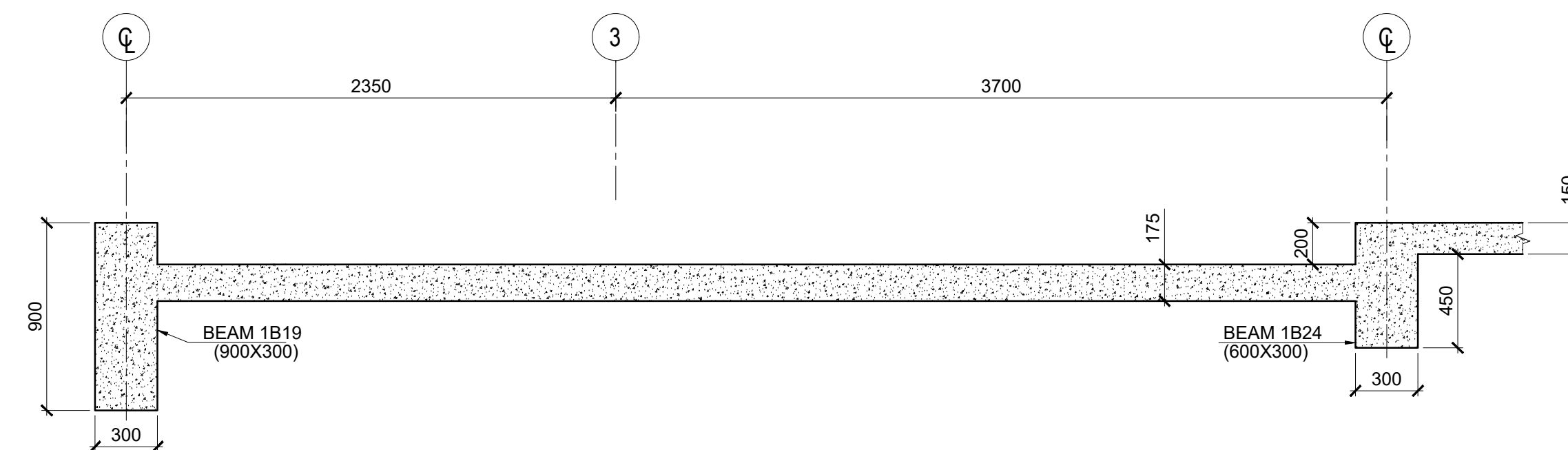
TYPICAL DETAIL OF
RC CANOPY

SCALE 1:20



SECTION 2-2

SCALE 1:100



SECTION 1-1

SCALE 1:100

TENDERING ONLY

Key Map:

General Legend:

Drawing Notes:

Rev.	Date	Description	Approved
1	2023.12.14	TENDERING ONLY	APV
0	2023.09.22	PROPOSED	APV

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Project Name:

EMERGENCY CONSTRUCTION OF
PATIENT WARDS AT
KULHUTHUFFUSHI ISLAND IN
MALDIVES

Client:

MINISTRY OF HEALTH,
KULHUTHUFFUSHI REGIONAL HOSPITAL
MALDIVES



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Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA

2 DON CAROLUS RD,
COLOMBO 00700,
SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

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RAJAGIRIYA, PC 10107,
COLOMBO, SRI LANKA



Drawing Title:

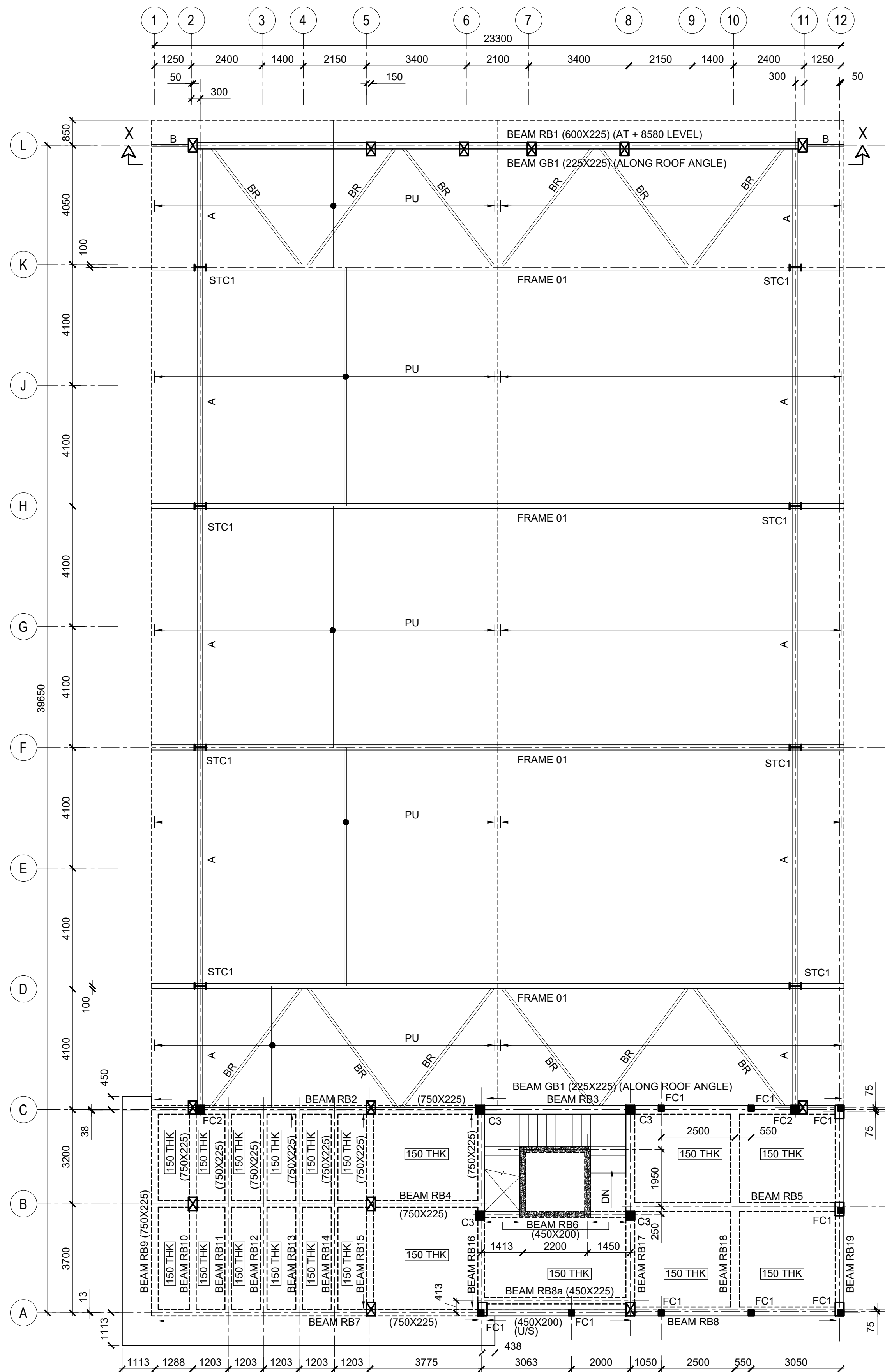
STRUCTURAL DETAILS
GENERAL ARRANGEMENT OF FIRST
FLOOR LAYOUT & SECTION

Project No.: SUB No.: Stage: Discipline: Subject: Seq No.:

23553 01 TN ST FR 3500

Drawn: Check: Appr.: Rev.: Size: Scale: Issue Date:

GLS SAV APV 1 A1 - 2023.12.14

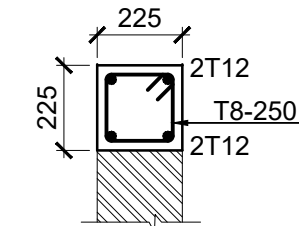


GENERAL ARRANGEMENT OF ROOF SLAB LAYOUT (+ 7650 LEVEL)

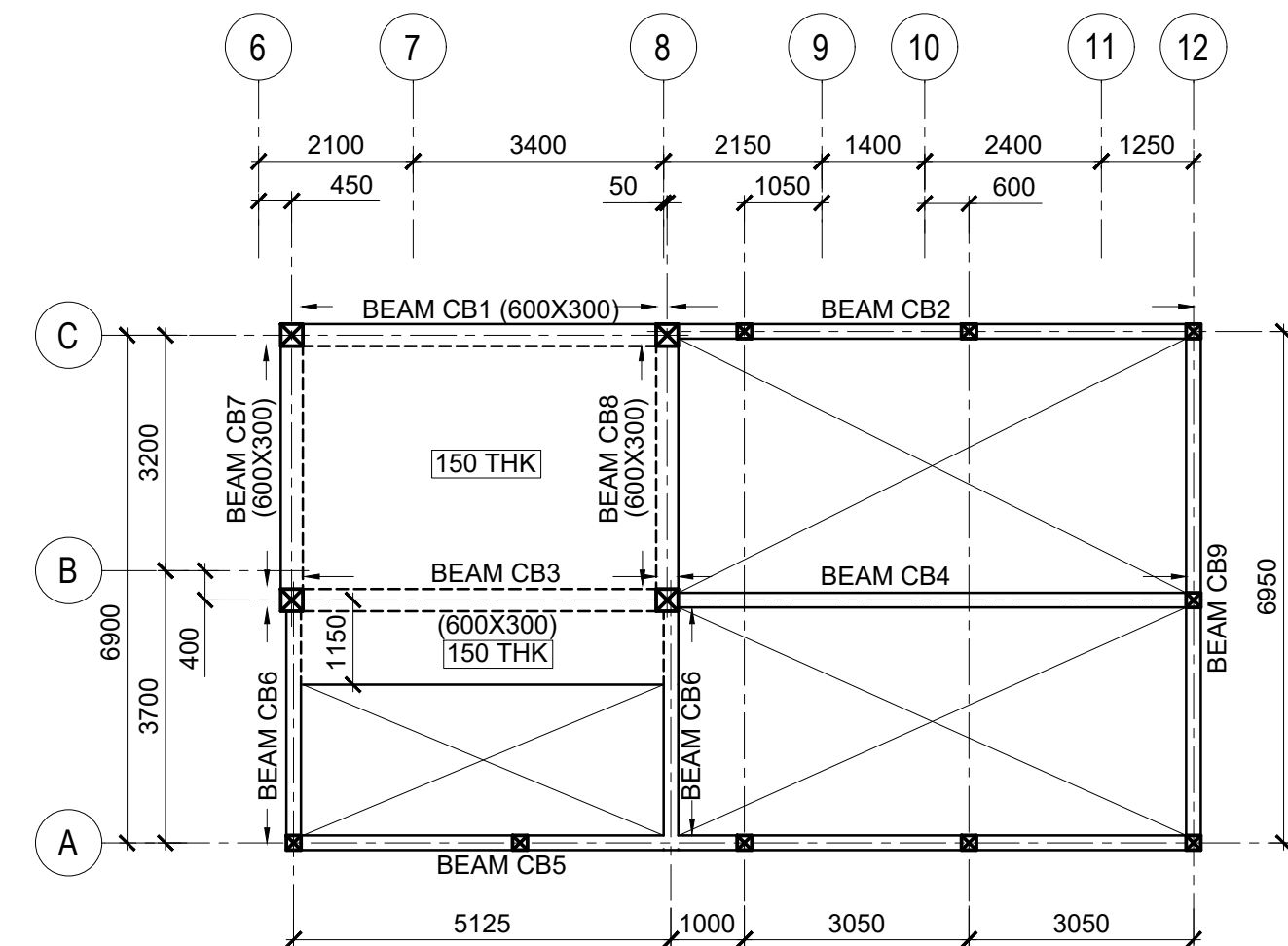
SCALE 1:100

NOTE:

- ALL BEAMS TO BE 600X300 UNLESS OTHERWISE STATED
- C3 - 300X300 RC COLUMN
- FC1 - 200X200 RC COLUMN START FROM THIS LEVEL
- FC2 - 300X300 RC COLUMN START FROM THIS LEVEL
- FC1 - 400X200X56.6 kg/m UB SECTION
- STC1 - COLUMN TERMINATE AT THIS LEVEL
- STC1 - COLUMN START FROM THIS LEVEL
- ALL SLABS TO BE 150 THK UNLESS OTHERWISE STATED
- A - 350X175X49.6 kg/m UB SECTION
- B - 150X75X14 kg/m UB SECTION
- PU - C20019 HIGH TENSILE (fy=450Mpa) PRE GALVANISED (Z350-350g/m² ZINC COATING) LIPPED CHANNEL PURLINS @ 750 mm C/C WITH THREE RAWS OF 120 GI TIE RODS.
- BR - 1140 3.5m THK CIRCULAR HOLLOW SECTION BRACINGS



BEAM - GB1
(225X225)
SCALE 1:20



GENERAL ARRANGEMENT OF
STAIRCASE COVER SLAB LAYOUT (AT + 10650 LEVEL)

SCALE 1:100

NOTE:

- ALL BEAMS TO BE 300X200 UNLESS OTHERWISE STATED
- ALL SLABS TO BE 150 THK UNLESS OTHERWISE STATED
- ALL COLUMNS TERMINATE AT THIS LEVEL

TENDERING ONLY

Key Map:

General Legend:

Drawing Notes:

Rev.	Date	Description	Approved
2	2023.12.14	TENDERING ONLY	APV
1	2023.11.27	AS SHOWN IN CLOUD	APV
0	2023.09.22	PROPOSED	APV

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Project Name:

EMERGENCY CONSTRUCTION OF
PATIENT WARDS AT
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Client:

MINISTRY OF HEALTH,
KULHUTHUFFUSHI REGIONAL HOSPITAL
MALDIVES



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Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA
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COLOMBO, SRI LANKA

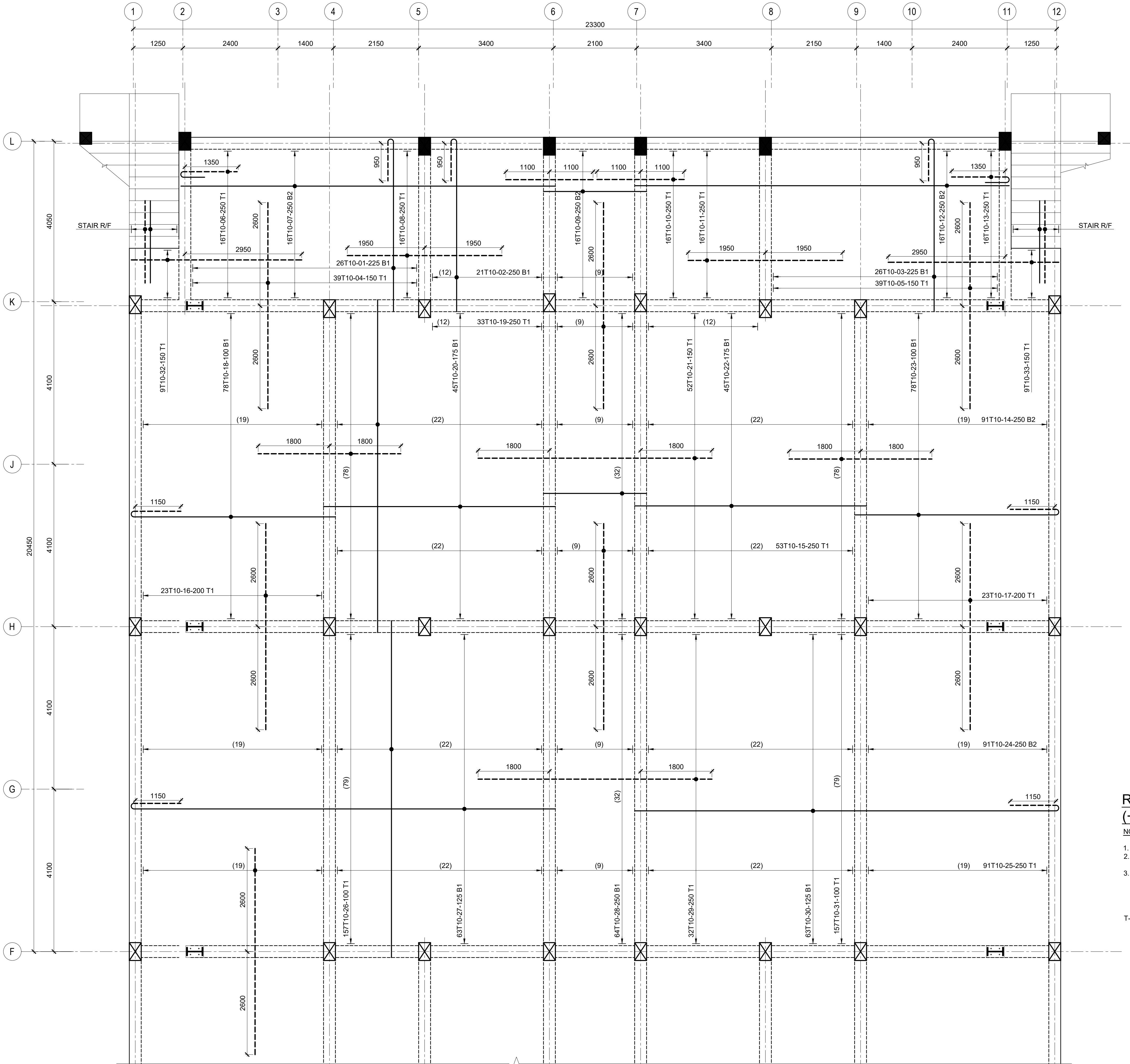


Drawing Title:

STRUCTURAL DETAILS
GENERAL ARRANGEMENT OF ROOF SLAB
LAYOUT (+ 7590 LEVEL) & STAIRCASE
COVER SLAB LAYOUT (+ 10590 LEVEL)

Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
23553	01	TN	ST	FR	3501
Drawn	Check	Appr.	Rev.	Size	Scale
GLS	SAV	APV	2	A1	-

2023.12.14



REFER DWG NO. 23553-01-PR-ST-SD-3601 FOR R/F DETAIL OF FIRST FLOOR SLAB (PART 02)

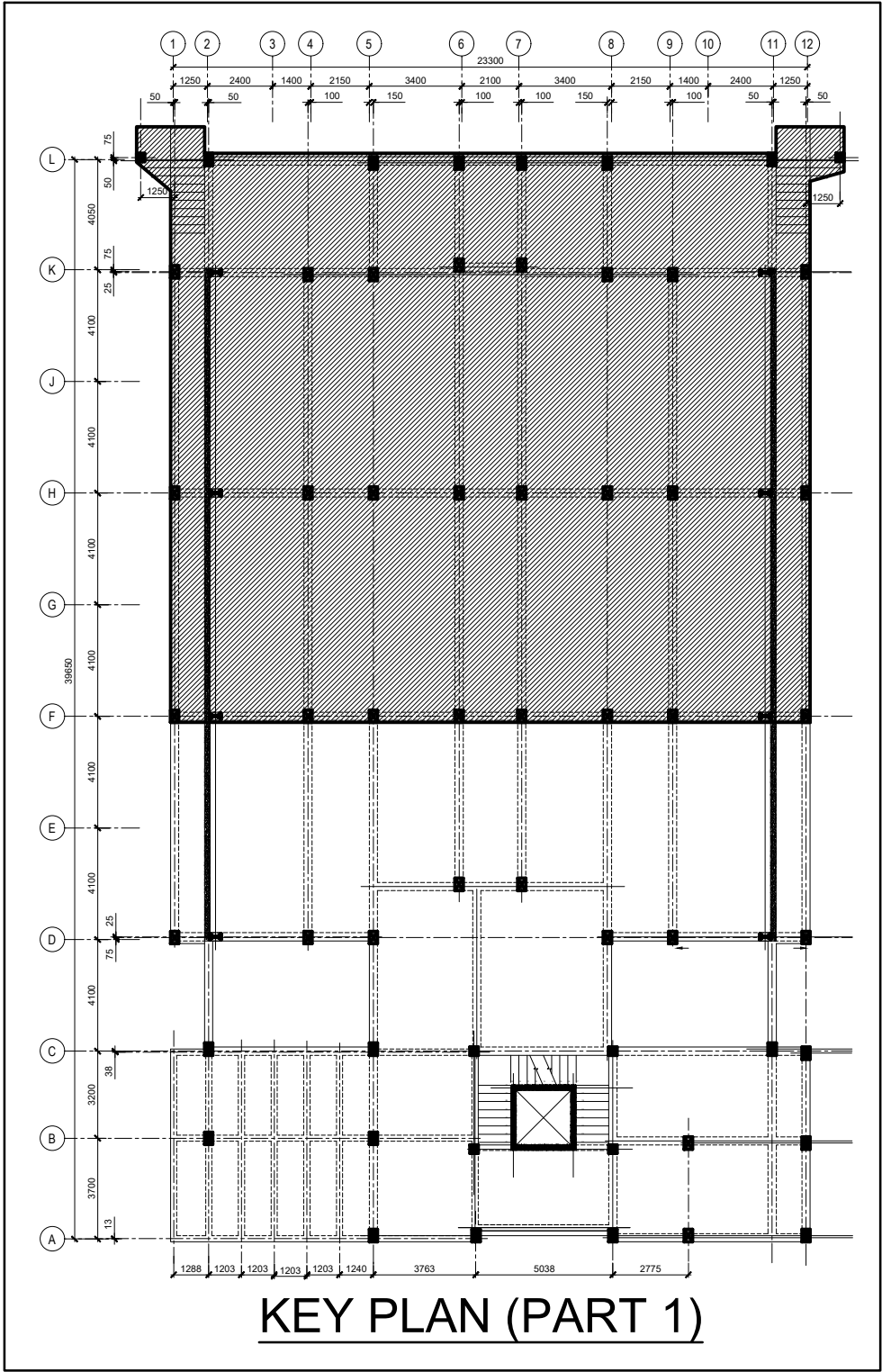
R/F DETAIL OF FIRST FLOOR SLAB (+ 4290 LEVEL) (PART 01)

NOTE

- DISTRIBUTION STEEL NOT SHOWN FOR CLARITY, PROVIDE T10-10" T & B WHERE NECESS/
- FOR SLAB EXPOSED TO THE WEATHER/ ROOF SLABS/ ROOF TERRACES, PROVIDE T10-8" TOP WHERE NO TOP REINFORCEMENT IS PRESENT.
- TYPICAL BAR NOTATION IS AS FOLLOWS.

NO. OF BARS
STEEL TYPE
T-Tor, R-Mild Steel
BAR DIAMETER (mm)
BAR MARK

R/F POSITION
B1 - OUTER BOTTOM R/F
B2 - INNER BOTTOM R/F
T1 - OUTER TOP R/F
T2 - OUTER INNER R/F
REINFORCEMENT SPACING



Key Map:

General Legend:

Drawing Notes:

1	2023.12.14	TENDERING ONLY	APV
0	2023.09.22	PROPOSED	APV
Rev.	Date	Description	Approved

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Client:

MINISTRY OF HEALTH,
KULHUTHUFFUSHI REGIONAL HOSPITAL
MALDIVES

Ministry of Health
Republic of Maldives

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INVESTMENT BANK

Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA

2 DON CAROLUS RD,
COLOMBO 00700,
SRI LANKA

UNOPS

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA
RAJAGIRYA, PC 10107,
COLOMBO, SRI LANKA

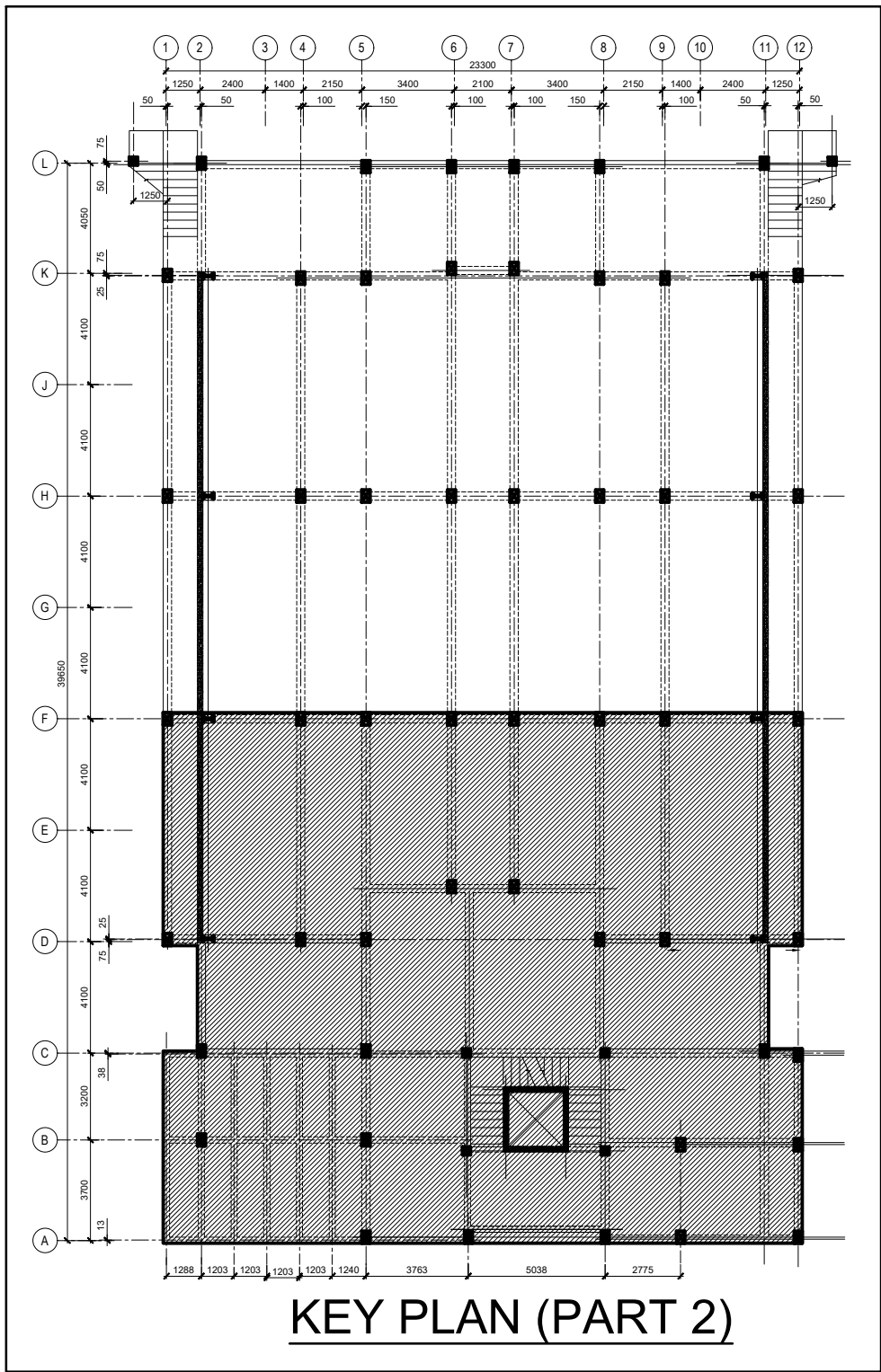
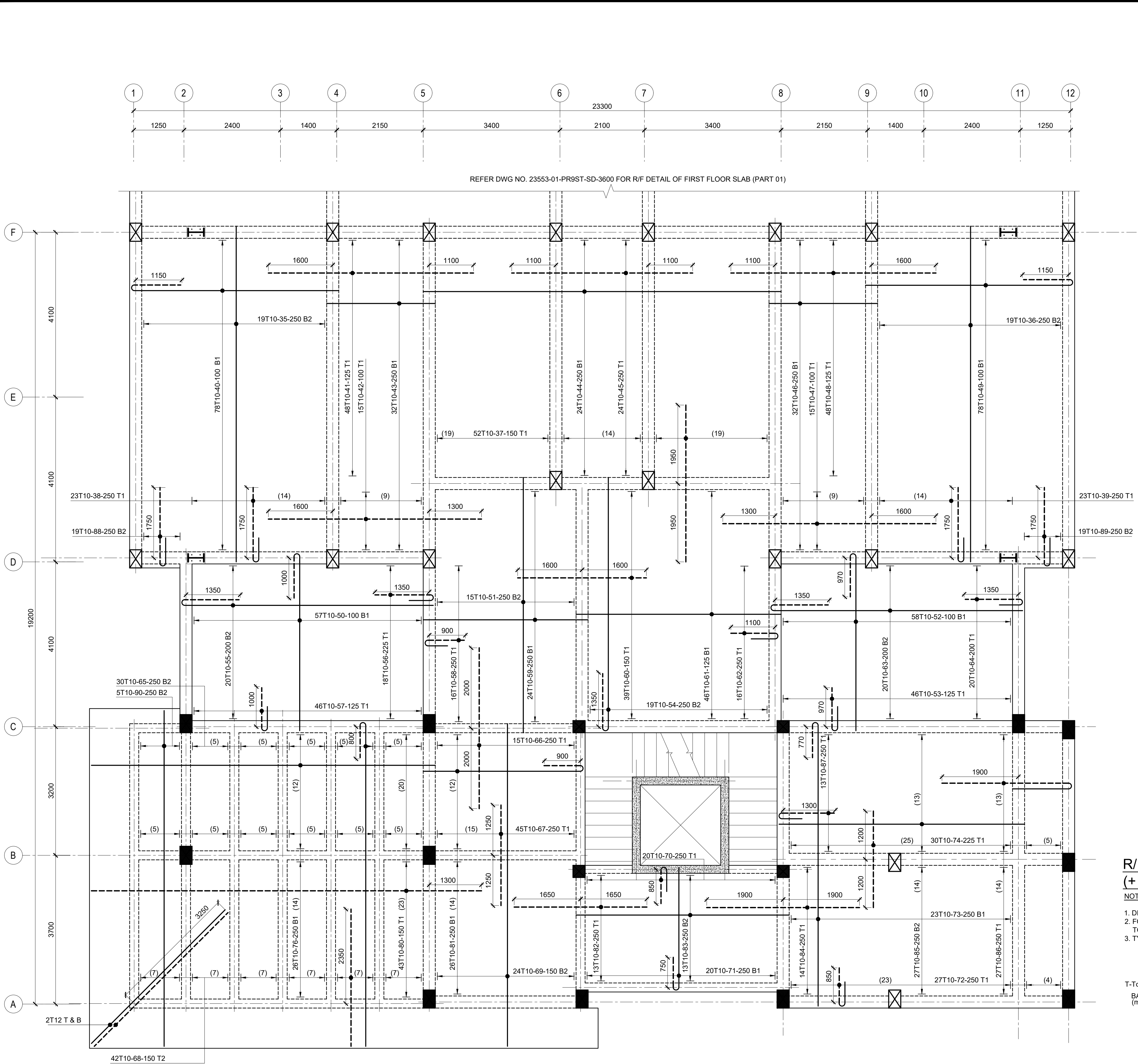
URO
STRUCTURAL CONSULTANTS

Drawing Title:

STRUCTURAL DETAILS
R/F DETAIL OF FIRST FLOOR SLAB
(+ 4290 LEVEL) (PART 01)

Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
23553	01	TN	ST	SD	3600
Drawn	Check	Appr.	Rev.	Size	Scale
GLS	SAV	APV	1	A1	-
					Issue Date
					2023.12.14

TENDERING ONLY



R/F DETAIL OF FIRST FLOOR SLAB
(+ 4290 LEVEL) (PART 02)

NOTE

1. DISTRIBUTION STEEL NOT SHOWN FOR CLARITY, PROVIDE T10-10" T & B WHERE NECESSARY.
2. FOR SLAB EXPOSED TO THE WEATHER/ ROOF SLABS/ ROOF TERRACES, PROVIDE T10-8" MESH ON TOP WHERE NO TOP REINFORCEMENT IS PRESENT.
3. TYPICAL BAR NOTATION IS AS FOLLOWS.

10 T 10 - 01 - 250 B1
NO. OF BARS
STEEL TYPE
T-Tor, R-Mild Steel
BAR DIAMETER
(mm)
BAR MARK
R/F POSITION
B1 - OUTER BOTTOM R/F
B2 - INNER BOTTOM R/F
T1 - OUTER TOP R/F
T2 - OUTER INNER R/F
REINFORCEMENT
SPACING

TENDERING ONLY

Key Map:

General Legend:

Drawing Notes:

1	2023.12.14	TENDERING ONLY	APV
0	2023.09.22	PROPOSED	APV
Rev.	Date	Description	Approved

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Client:

MINISTRY OF HEALTH,
KULHUTHUFFUSHI REGIONAL HOSPITAL
MALDIVES



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Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA

2 DON CAROLUS RD,
COLOMBO 00700,
SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

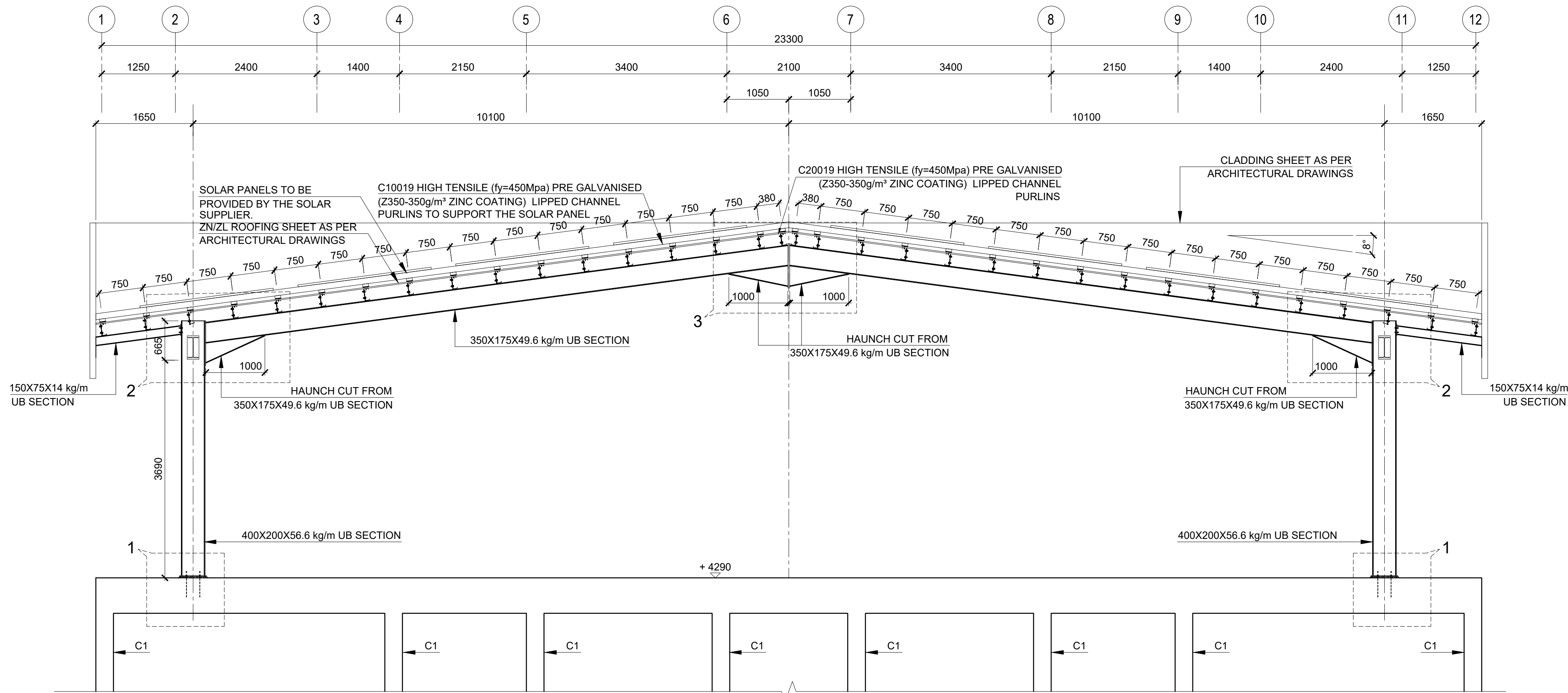
114A, KOSWATTA RD, NAWALA
RAJAGIRYA, PC 10107,
COLOMBO, SRI LANKA



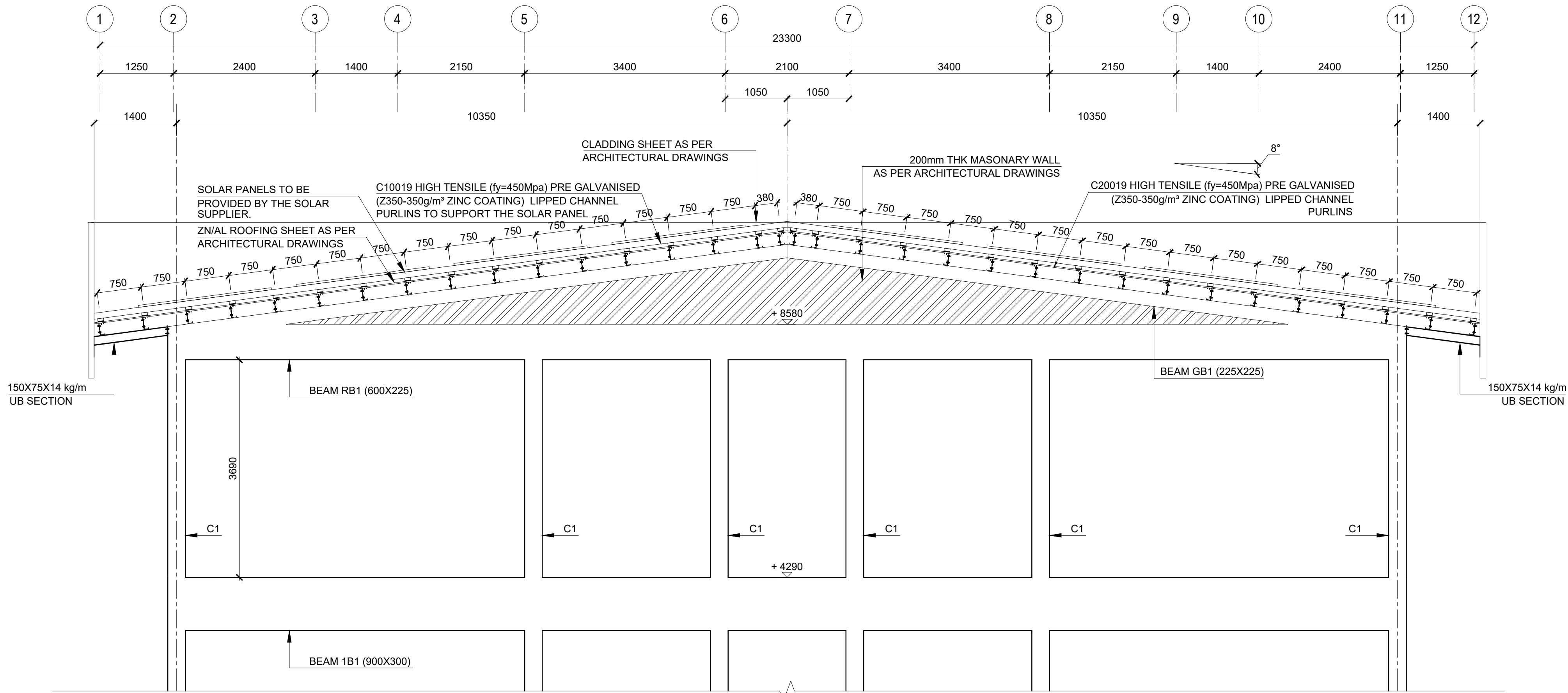
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STRUCTURAL DETAILS
R/F DETAIL OF FIRST FLOOR SLAB
(+ 4290 LEVEL) (PART 02)

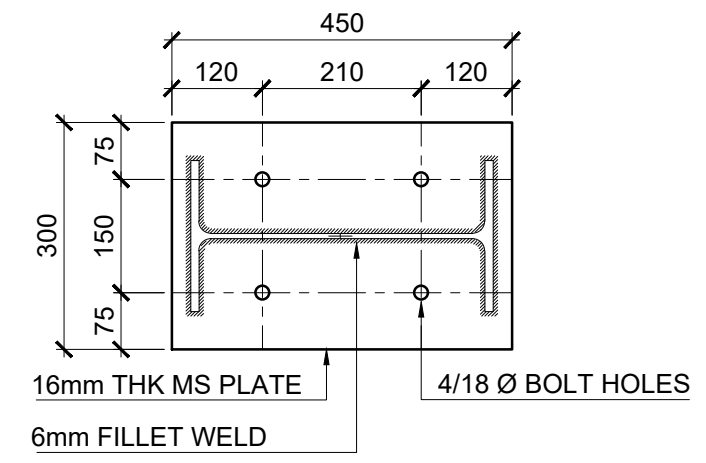
Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
23553	01	TN	ST	SD	3601
Drawn:	Check:	Appr:	Rev:	Size:	Issue Date:
GLS	SAV	APV	1	A1	2023.12.14



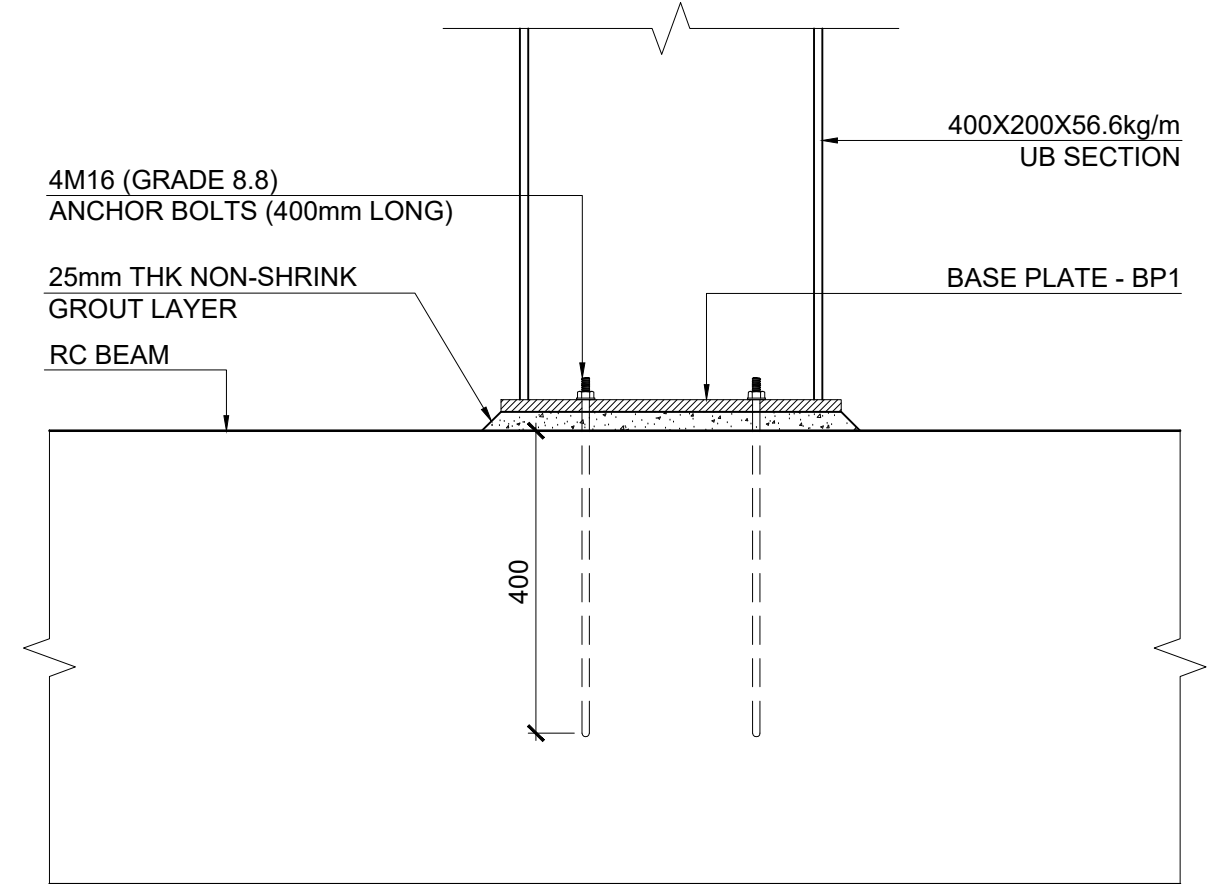
FRAME 01
SCALE 1:50



SECTION X-X
SCALE 1:50



BASE PLATE - BP1
SCALE 1 : 10



DETAIL 1
SCALE 1 : 10

Key Map:

General Legend:

Drawing Notes:

Rev.	Date	Description	Approved
2	2023.12.14	TENDERING ONLY	APV
1	2023.11.06	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	APV
0	2023.09.22	PROPOSED	APV

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Project Name:

EMERGENCY CONSTRUCTION OF
PATIENT WARDS AT
KULHUTHUFFUSHI ISLAND IN
MALDIVES

Client:

MINISTRY OF HEALTH,
KULHUTHUFFUSHI REGIONAL HOSPITAL
MALDIVES



Supported & Funded By:

THE WORLD BANK



ASIAN INFRASTRUCTURE INVESTMENT
BANK



Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA

3 DON CAROLUS RD,
COLOMBO 0700,
SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA
RAJAGIRYA, PC 10107,
COLOMBO, SRI LANKA

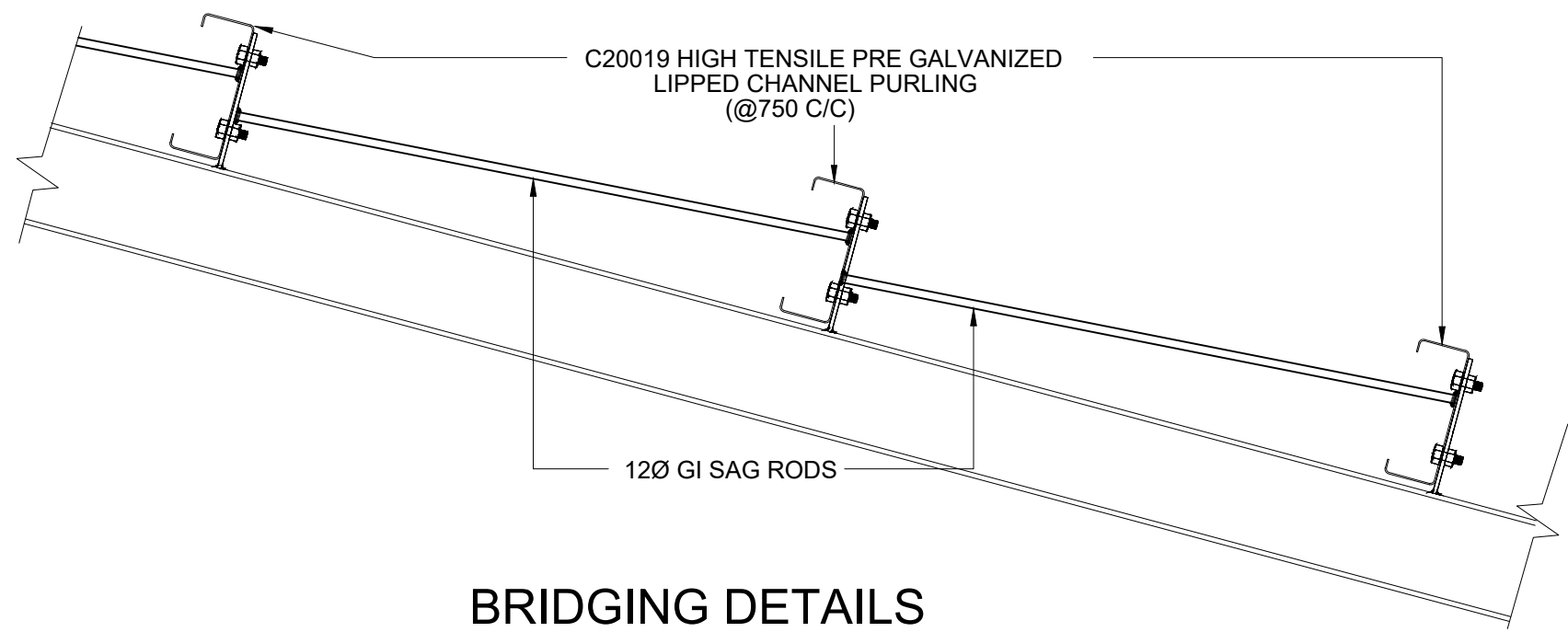


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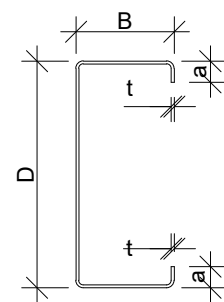
STRUCTURAL DETAILS
ROOF SECTION & DETAILS

Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
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Drawn:	Check:	Appr:	Rev:	Size:	Scale:
GLS	SAV	APV	2	A1	-

TENDERING ONLY

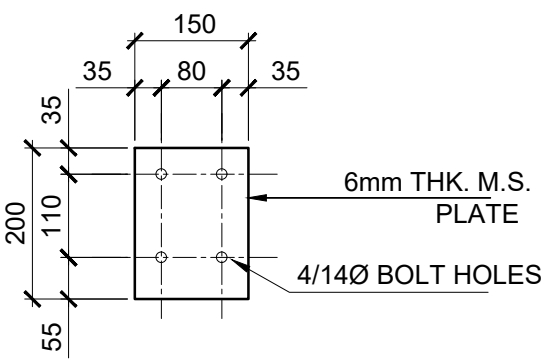


BRIDGING DETAILS
SCALE 1:10

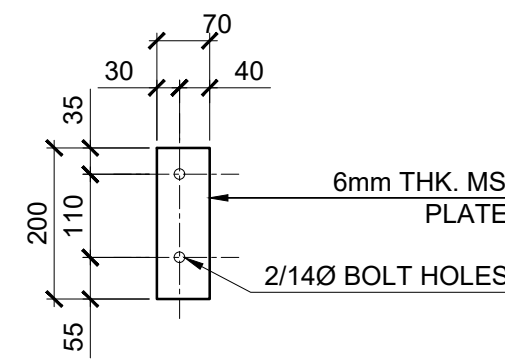


PURLIN TYPE	DEPTH (D)mm	WIDTH (B)mm	LIP (a)mm	THICKNESS (t)mm	AREA mm ²	MASS (kg/m)	COATING MASS (g/m ²)	YIELD STRENGTH (Mpa)
C20019	203	76	19	1.9	713	5.74	Z 350 (350 g/m ²)	450

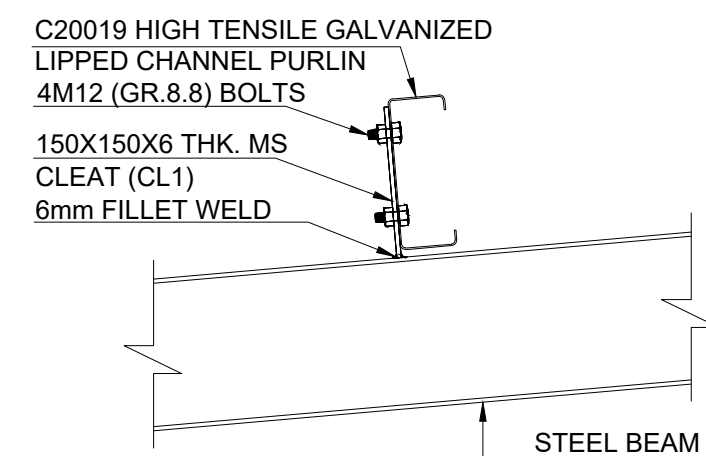
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SCALE 1:5



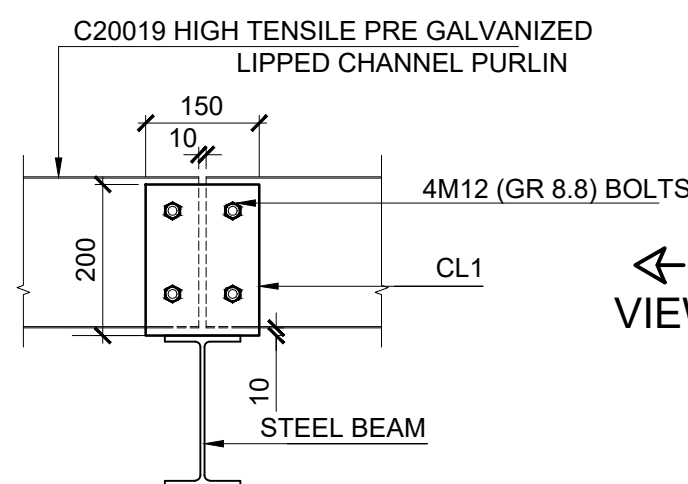
CLEAT CL1
SCALE 1:10



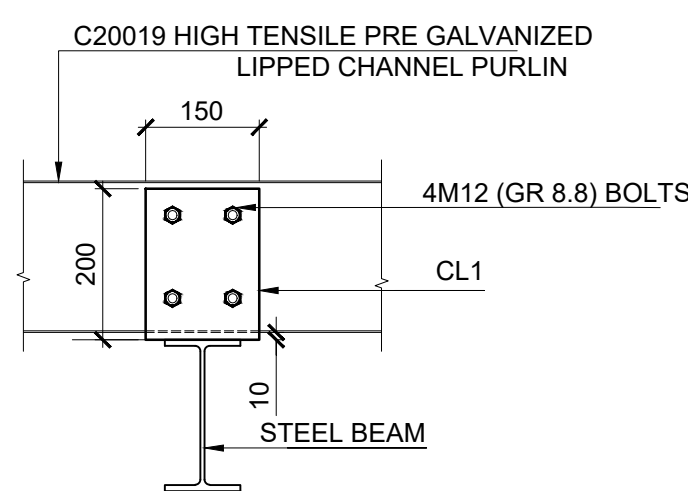
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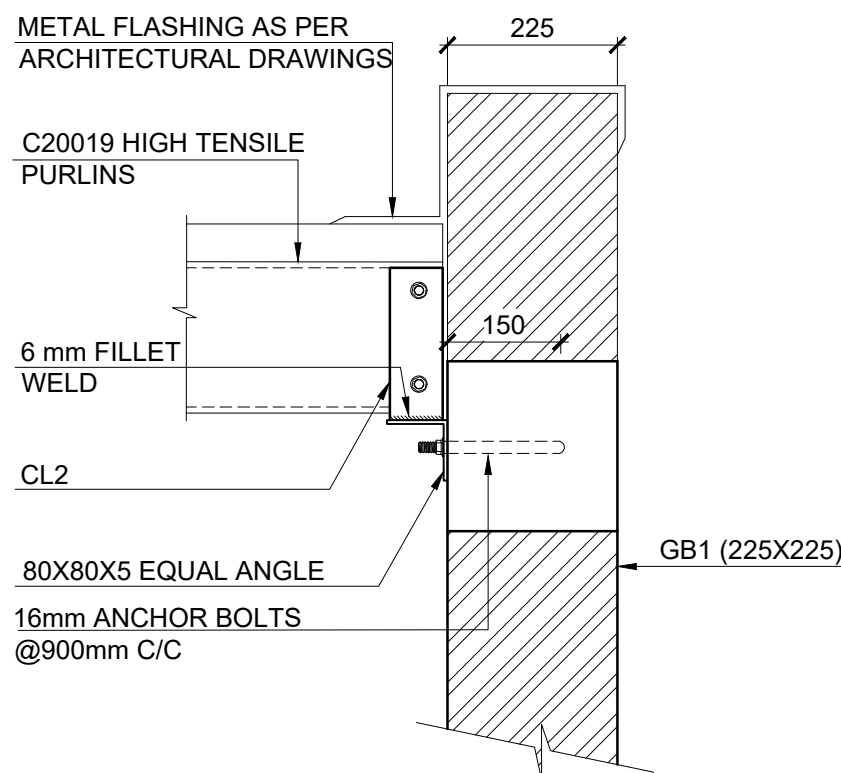
VIEW X
SCALE 1:10



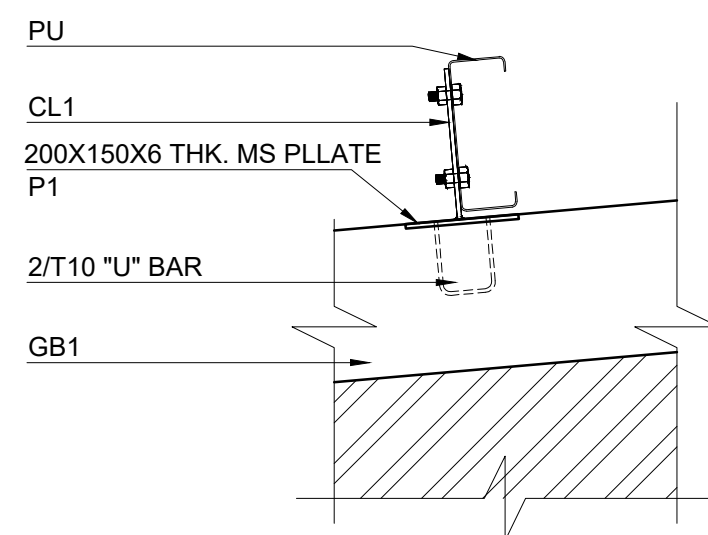
PURLIN FIXING DETAIL
(INTERNAL-C20019)
SCALE 1:10



PURLIN FIXING DETAIL
(ENDS-C20019)
SCALE 1:10



TYPICAL PURLIN FIXING
DETAIL AT GABLE ENDS
SCALE 1:10



TYPICAL PURLIN FIXING DETAIL
TO GABLE BEAM
SCALE 1:10

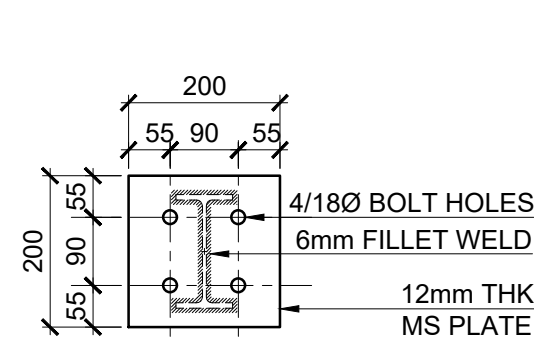


PLATE P1
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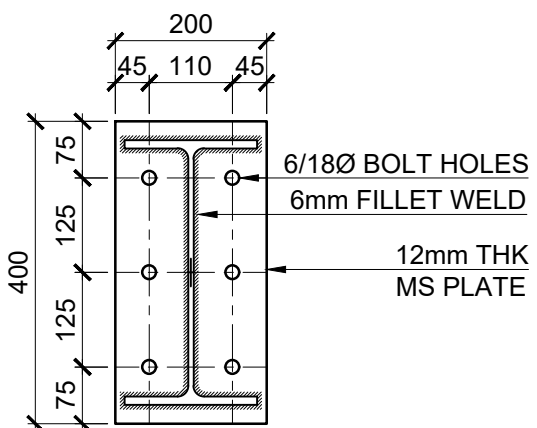


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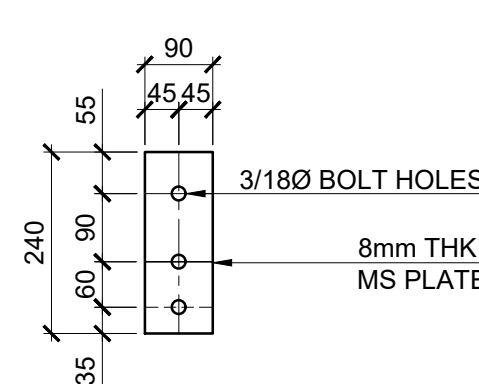


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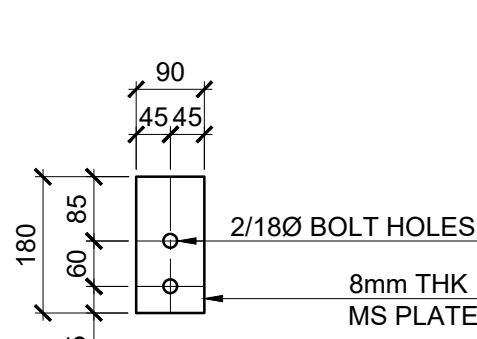


PLATE P2b
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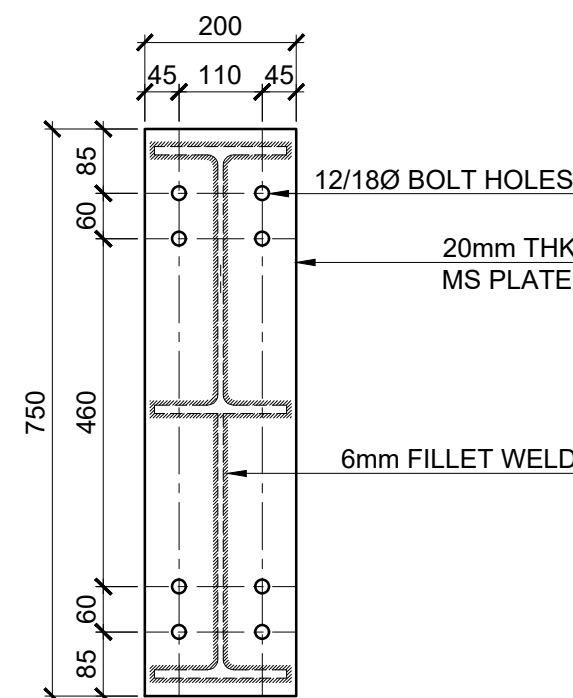


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SCALE 1:10

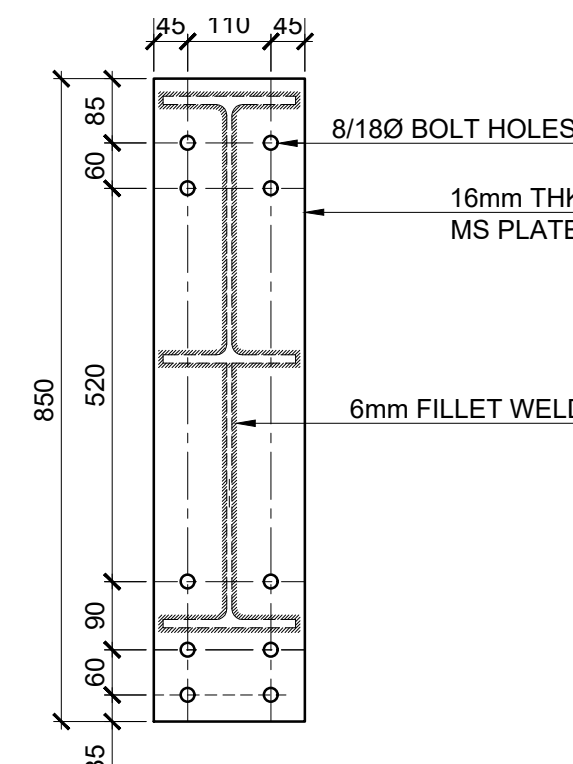
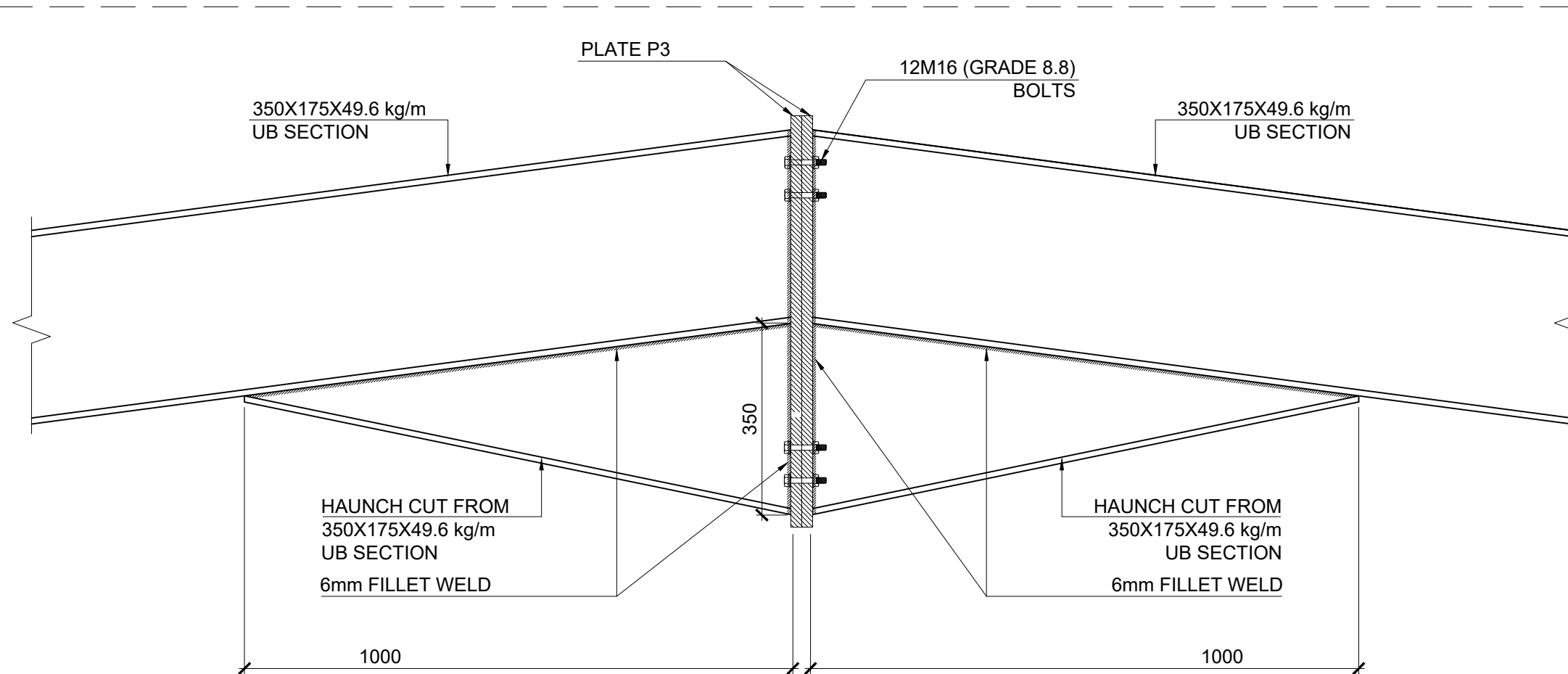


PLATE P2
SCALE 1:10



DETAIL 3
SCALE 1:10

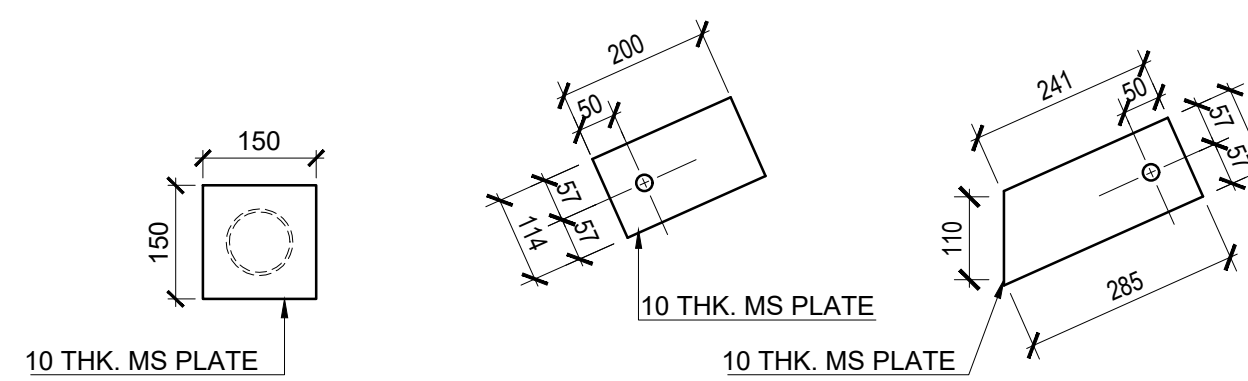
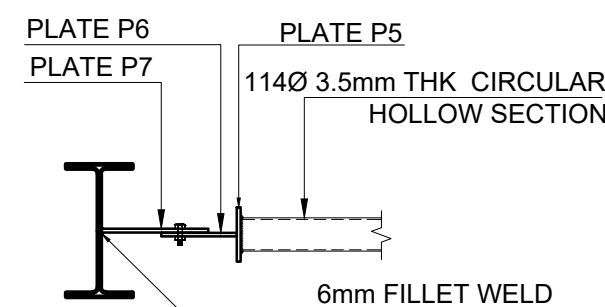


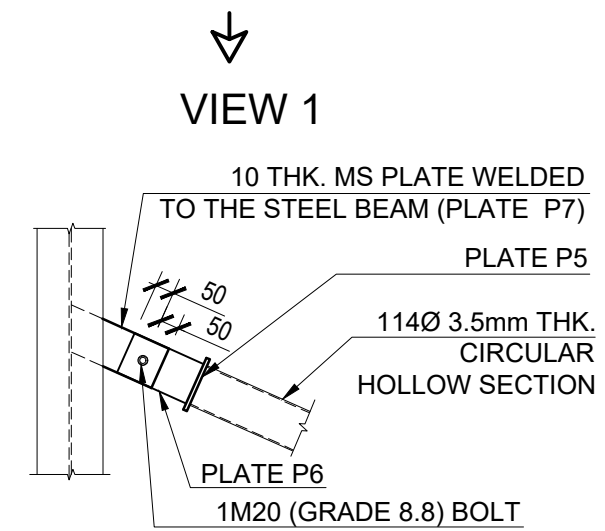
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SCALE 1:10

PLATE P6
SCALE 1:10

PLATE P7
SCALE 1:10

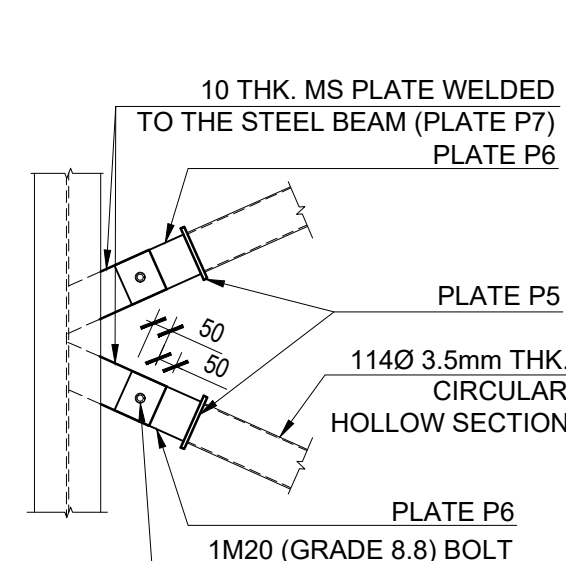


VIEW 1
SCALE 1:20



DETAIL 1
SCALE 1:20

VIEW 1



DETAIL 2
SCALE 1:20

TYPICAL ROOF BRACING FIXING DETAIL

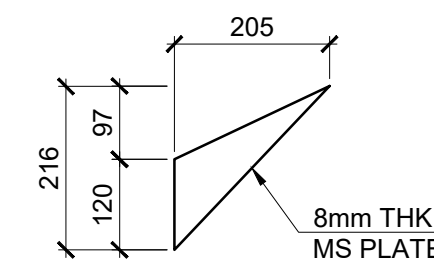


PLATE SP1
SCALE 1:10

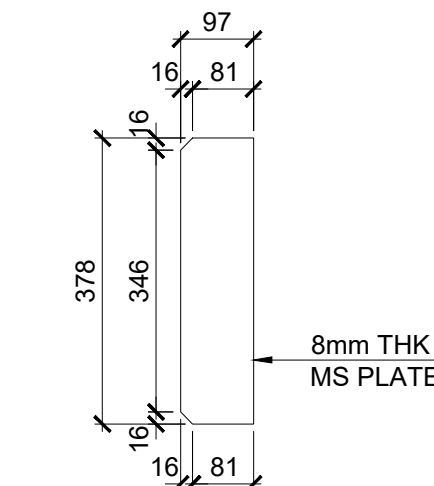
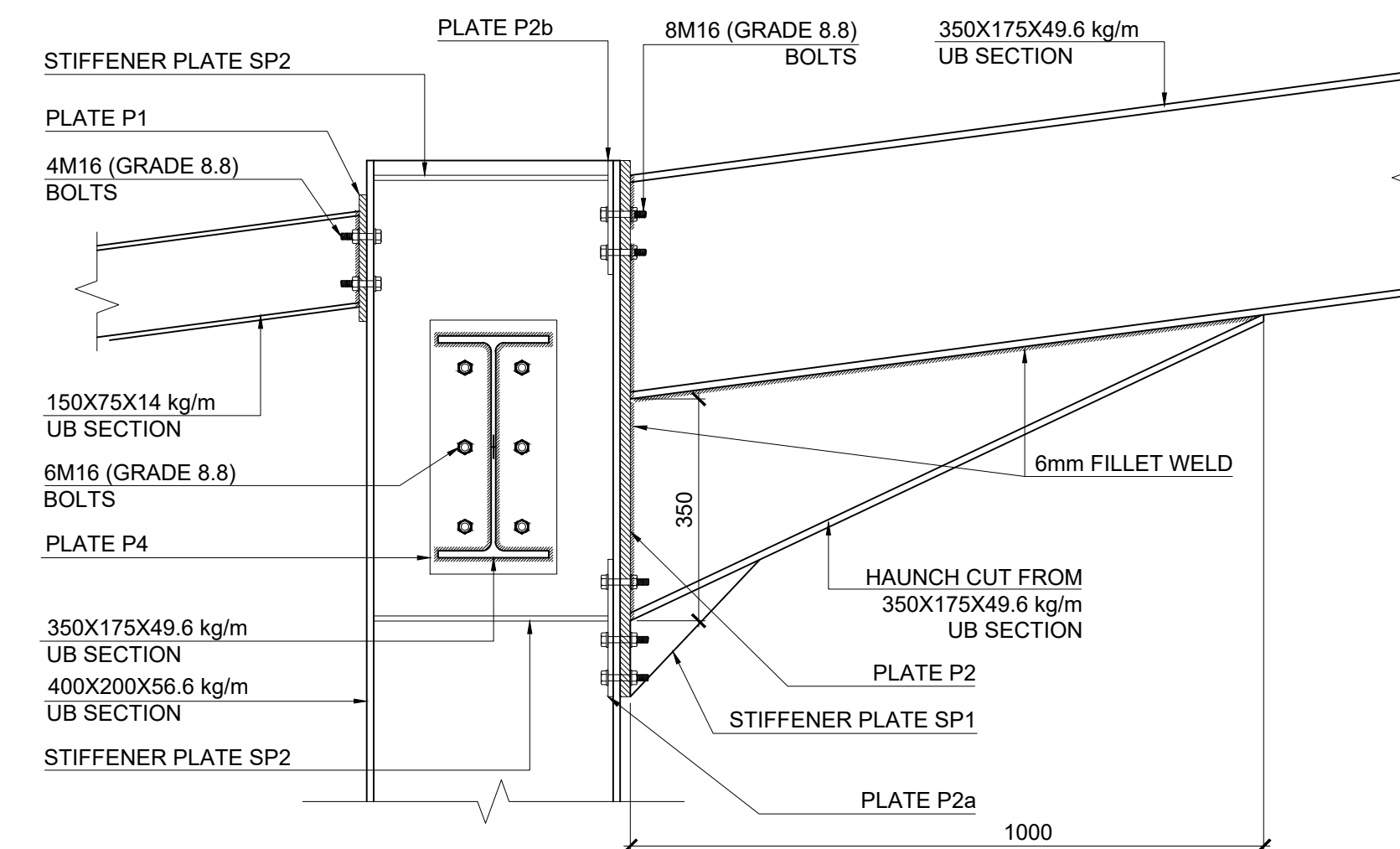


PLATE SP2
SCALE 1:10



DETAIL 2
SCALE 1:10

TENDERING ONLY

Key Map:

General Legend:

Drawing Notes:

Rev.	Date	Description	Approved
2	2023.12.14	TENDERING ONLY	APV
1	2023.11.06	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	APV
0	2023.09.22	PROPOSED	APV

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Project Name:

EMERGENCY CONSTRUCTION OF
PATIENT WARDS AT
KULHUTHUFFUSHI ISLAND IN
MALDIVES

Client:

MINISTRY OF HEALTH,
KULHUTHUFFUSHI REGIONAL HOSPITAL
MALDIVES



Supported & Funded By:

THE WORLD BANK



ASIAN INFRASTRUCTURE INVESTMENT
BANK



Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA
RAJAGIRIYA, PC 10107,
COLOMBO, SRI LANKA



Drawing Title:

STRUCTURAL DETAILS
ROOF DETAILS

Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
23553	01	TN	ST	SD	3604
Drawn	Check	Appr.	Rev.	Size	Scale
GLS	SAV	APV	2	A1	-

Issue Date:
2023.12.14



TENDERING ONLY

Key Map:

General Legend:

Drawing Notes:				
3	2023.12.14	TENDERING ONLY		APV
2	2023.11.29	UNOPS PROJECT LEVEL COMMENTS INCORPORATED		APV
1	2023.11.06	UNOPS PROJECT LEVEL COMMENTS INCORPORATED		APV
2	2023.09.22	PROPOSED		APV
Rev.	Date	Description		Approved

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Project Name:

EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES

Client:

MINISTRY OF HEALTH,
KULHUTHUFFUSHI REGIONAL HOSPITAL
MALDIVES



Supported & Funded By:

THE WORLD BANK

ASIAN INFRASTRUCTURE INVESTMENT
BANK



Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA

2 DON CAROLIS RD,
COLOMBO 00700,
SRI LANKA

Design:

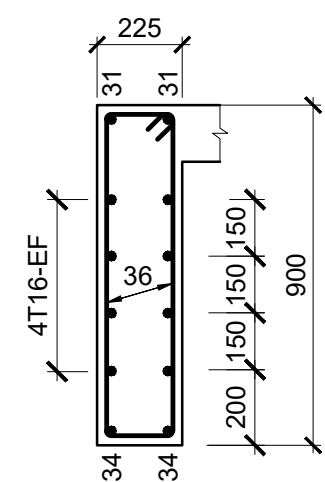
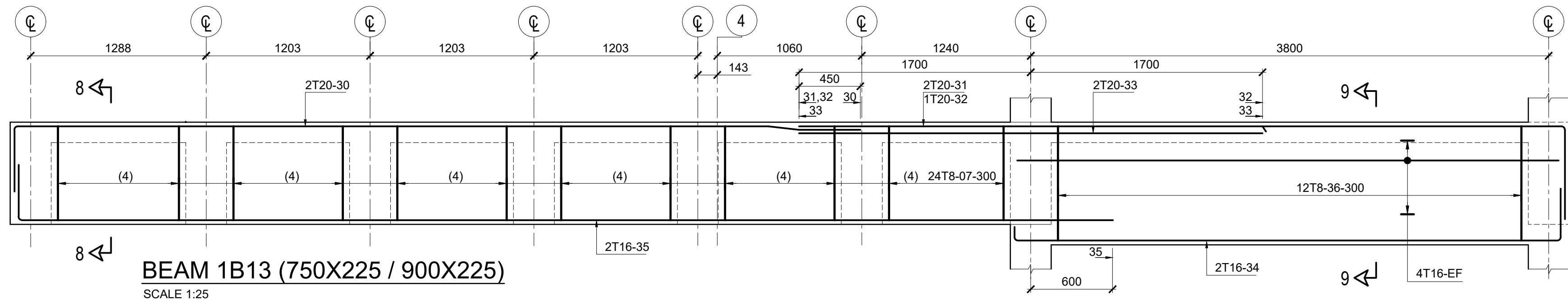
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114A, KOSWATTA RD, NAWALA
RAJAGIRIYA, PC 10107,
COLOMBO, SRI LANKA

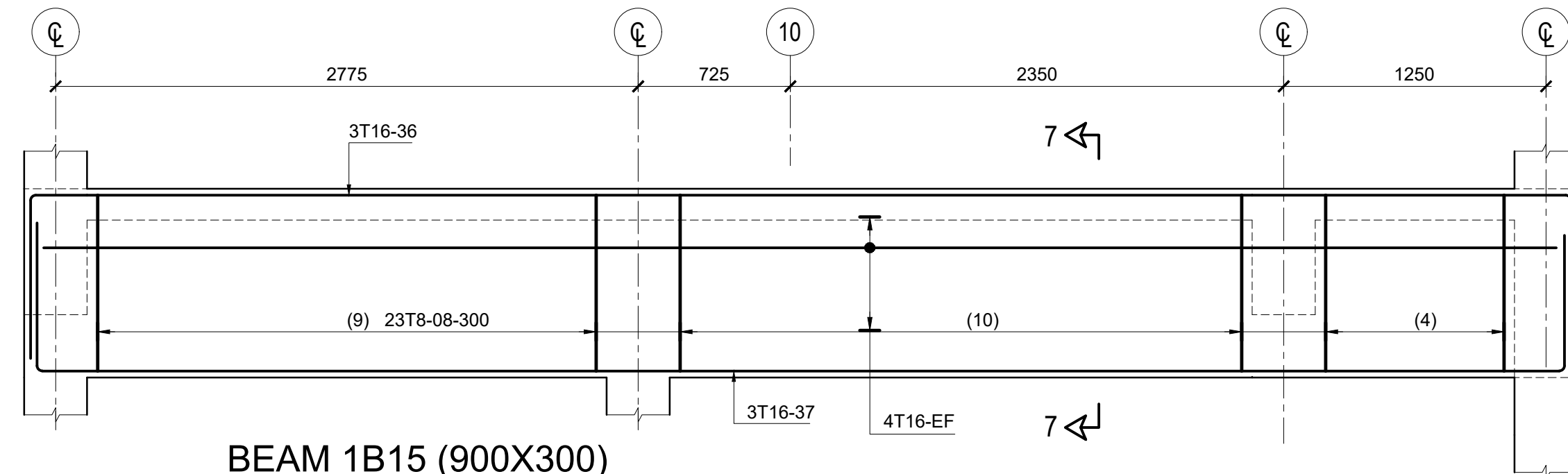
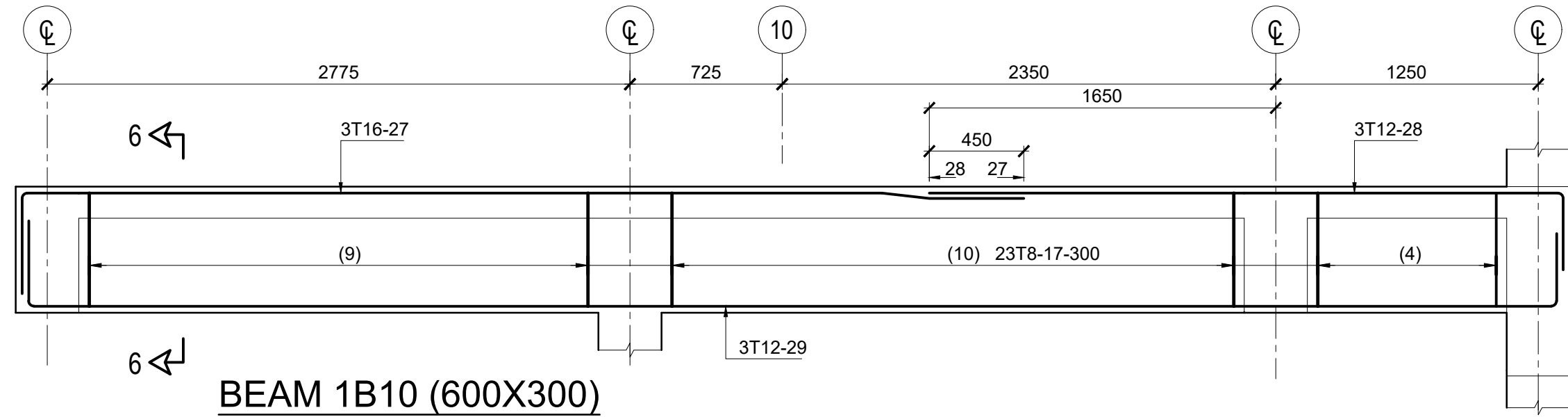
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STRUCTURAL DETAILS
BEAM DETAILS OF FIRST FLOOR, ROOF
TERRACE & COVER SLAB
(SHEET 1)

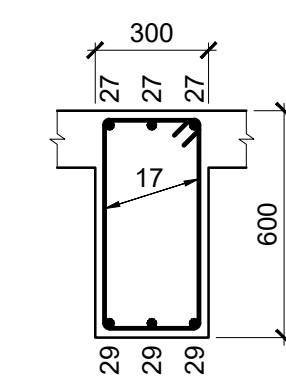
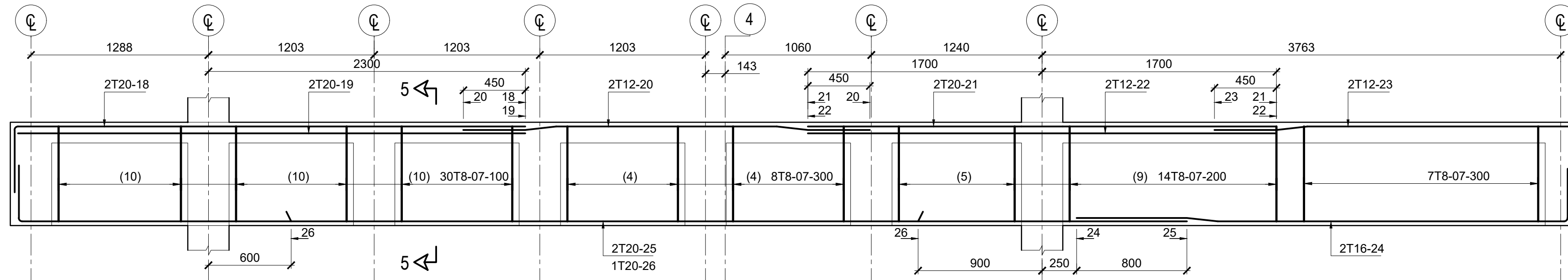
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Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:	Issue Date:
GLS	SAV	APV	3	A1	-	2023.12.14



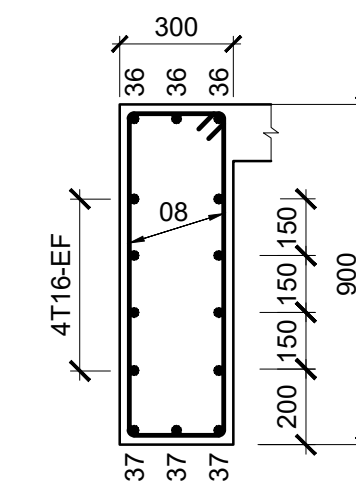
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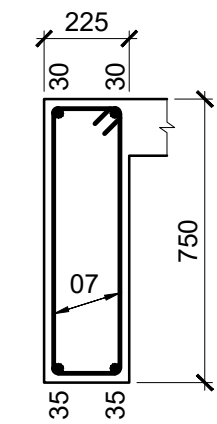
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SCALE 1:25



SECTION 6-6
SCALE 1:25

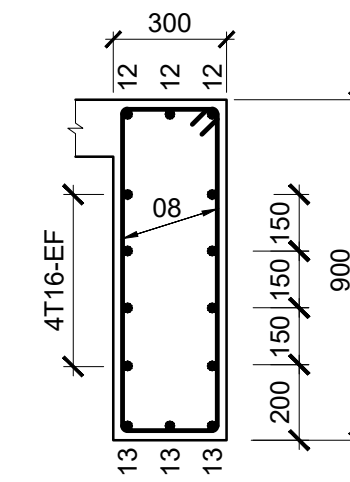
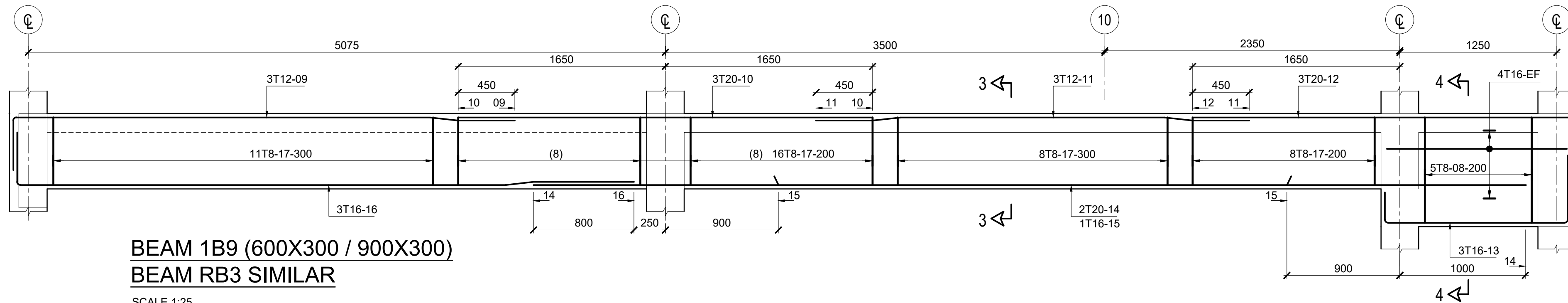


SECTION 7-7
SCALE 1:25

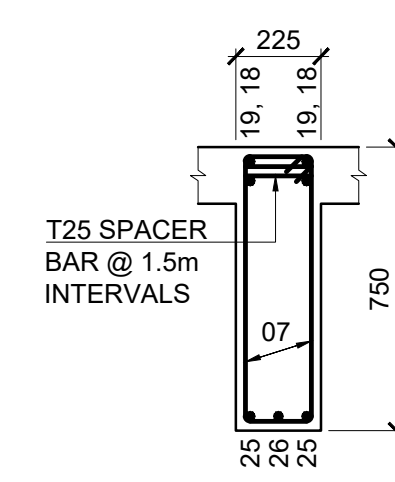


SECTION 8-8
SCALE 1:25

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BEAM RB4 SIMILAR
SCALE 1:25

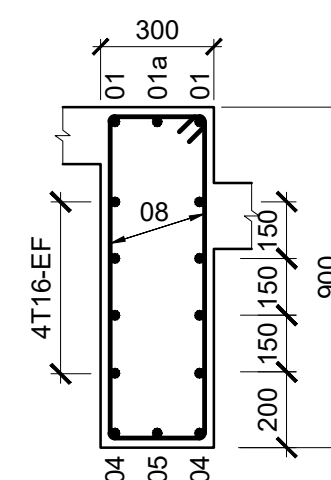
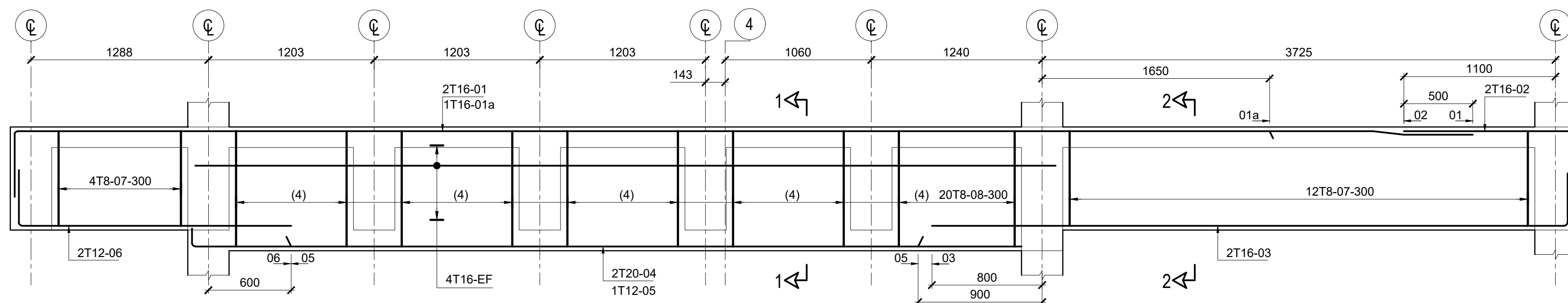


SECTION 4-4
SCALE 1:25

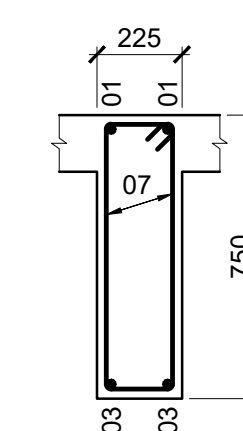


SECTION 5-5
SCALE 1:25

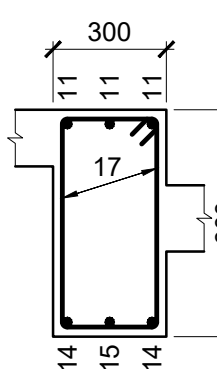
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BEAM RB3 SIMILAR
SCALE 1:25



SECTION 1-1
SCALE 1:25



SECTION 2-2
SCALE 1:25



SECTION 3-3
SCALE 1:25

BEAM 1B8 (750X225 / 900X300)
SCALE 1:25

TENDERING ONLY

Key Map:

General Legend:

Drawing Notes:

1	2023.12.14	TENDERING ONLY	APV
0	2023.09.22	PROPOSED	APV
Rev.	Date	Description	Approved

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Project Name:

EMERGENCY CONSTRUCTION OF
PATIENT WARD'S AT
KULHUTHUFFUSHI ISLAND IN
MALDIVES

Client:

MINISTRY OF HEALTH,
KULHUTHUFFUSHI REGIONAL HOSPITAL
MALDIVES



Supported & Funded By:

THE WORLD BANK



ASIAN INFRASTRUCTURE INVESTMENT
BANK



Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

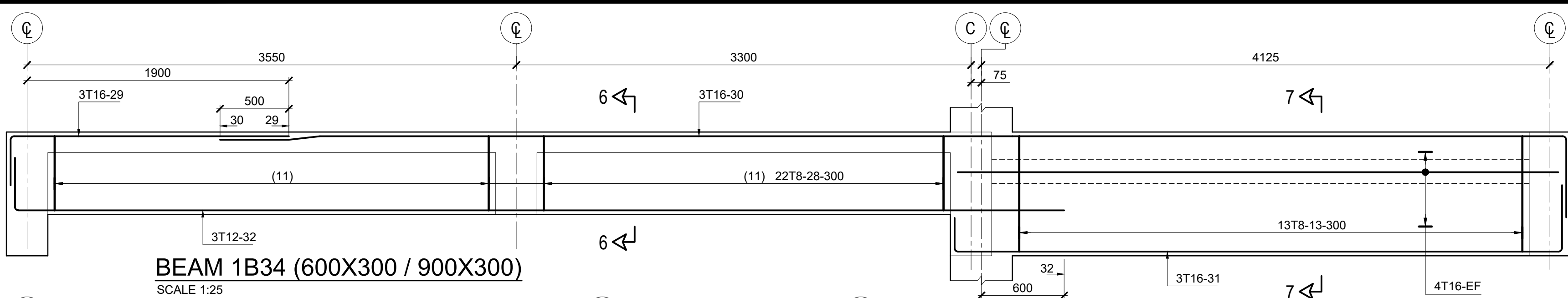
114A, KOSWATTA RD, NAWALA
RAJAGIRYA, PC 10107,
COLOMBO, SRI LANKA



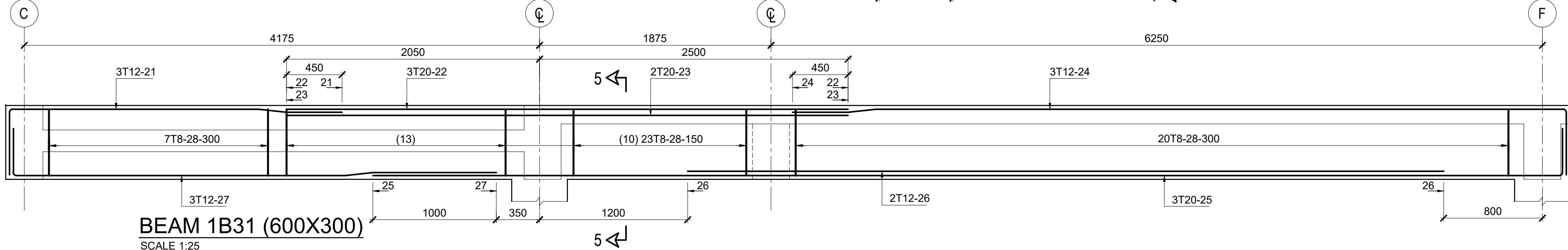
Drawing Title:

STRUCTURAL DETAILS
BEAM DETAILS OF FIRST FLOOR, ROOF
TERRACE & COVER SLAB
(SHEET 2)

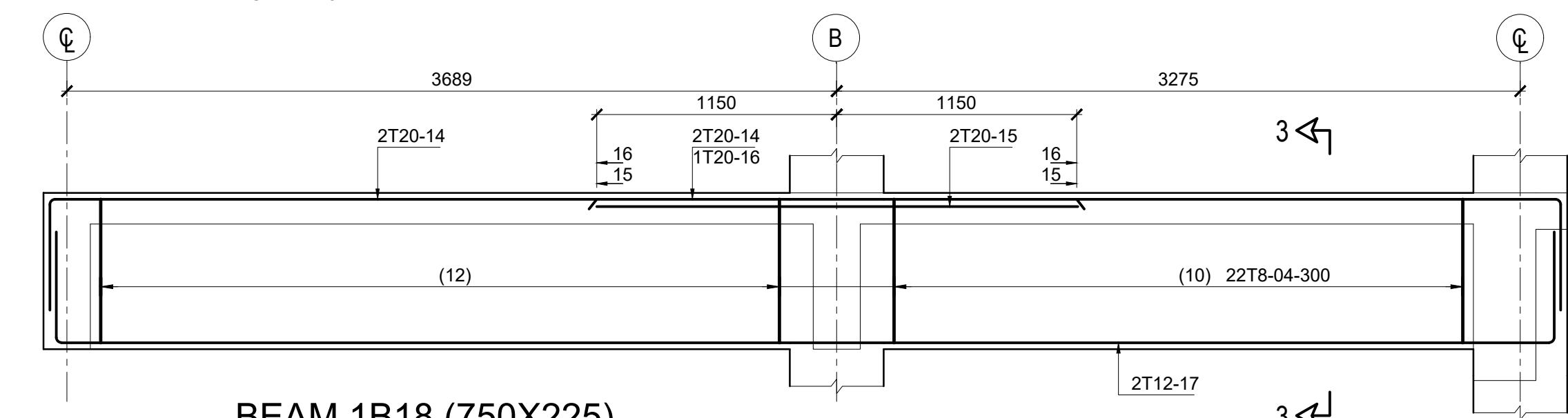
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23553	01	TN	ST	BE	3606
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
GLS	SAV	APV	1	A1	-
Issue Date:	2023.12.14				



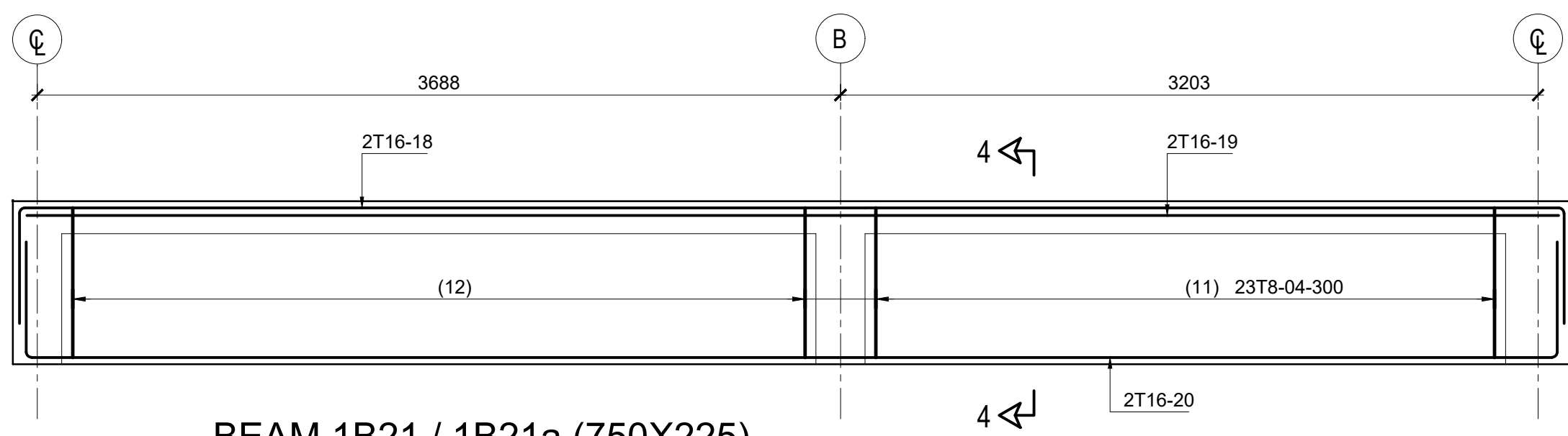
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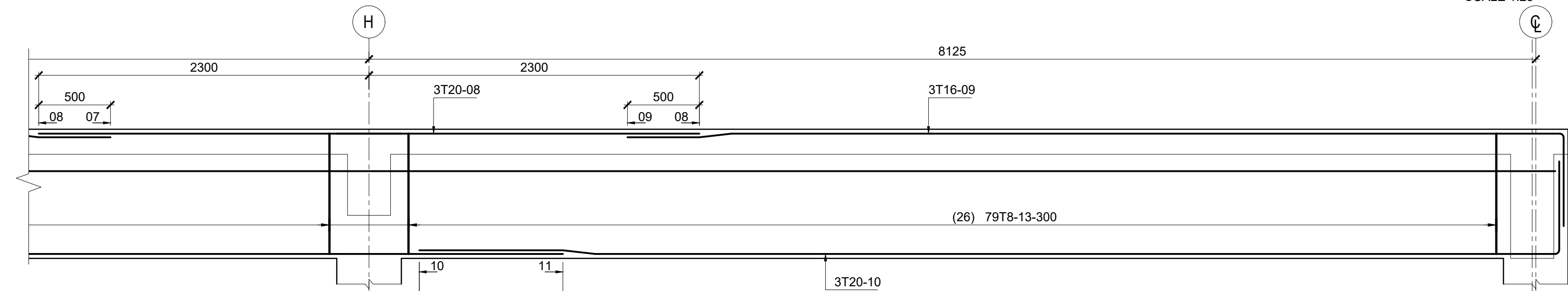
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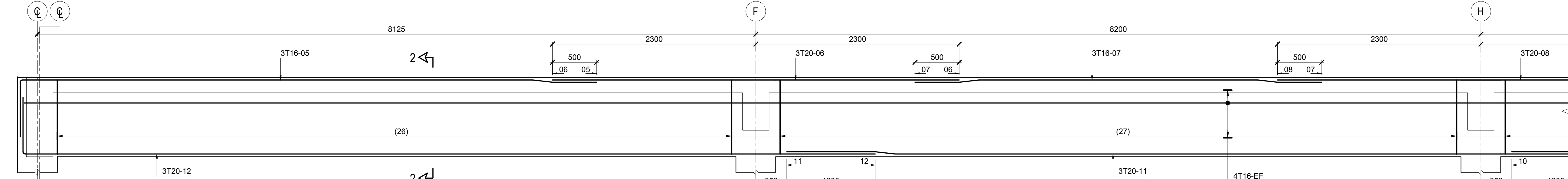
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BEAM RB10 SIMILAR
SCALE 1:25



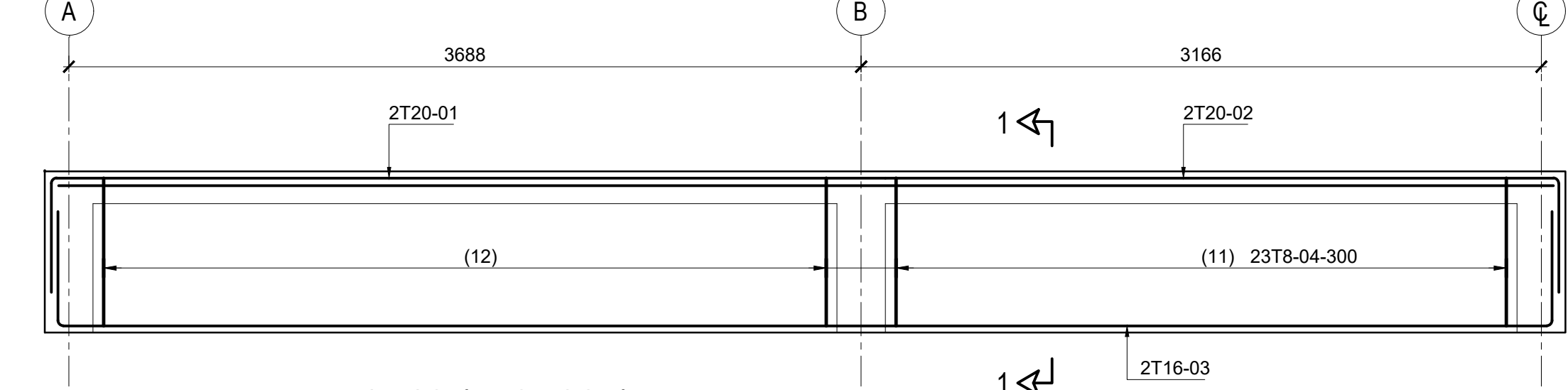
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BEAM RB11 / RB12 SIMILAR
SCALE 1:25



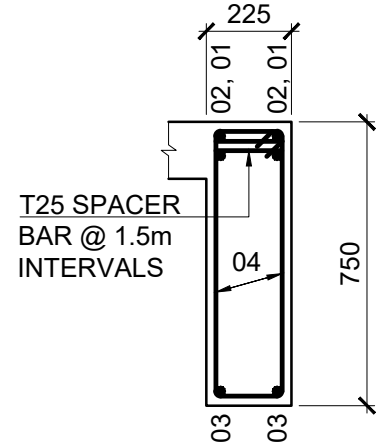
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SCALE 1:25



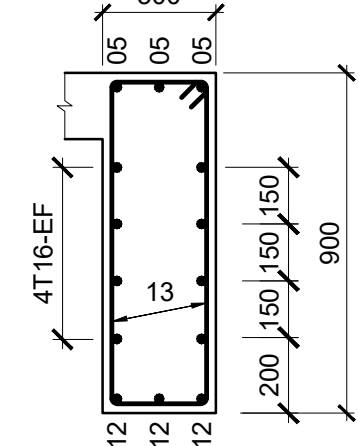
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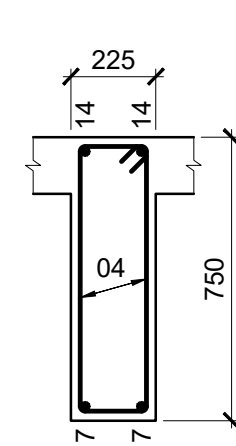
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BEAM RB9 SIMILAR
SCALE 1:25



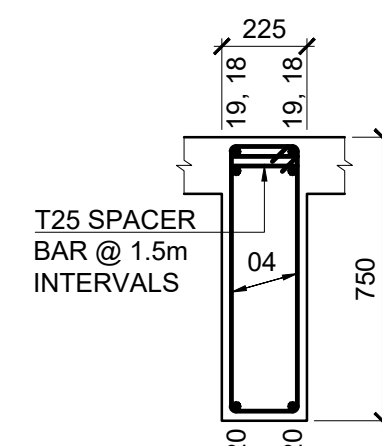
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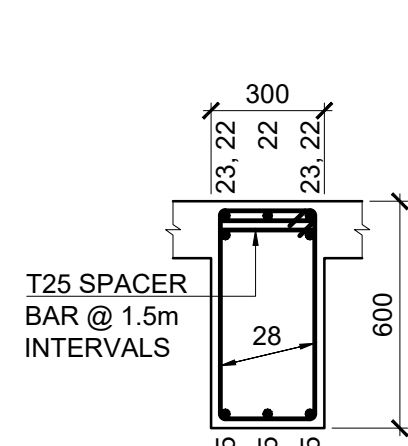
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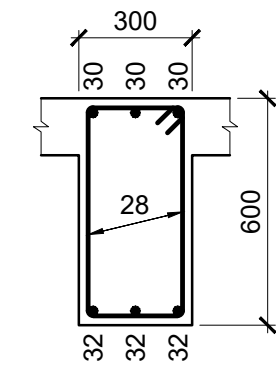
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SCALE 1:25



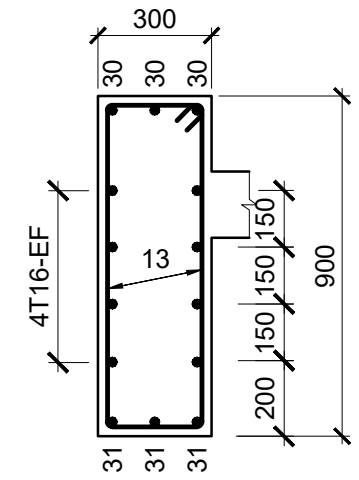
SECTION 4-4
SCALE 1:25



SECTION 5-5
SCALE 1:25



SECTION 6-6
SCALE 1:25



SECTION 7-7
SCALE 1:25

Key Map:

General Legend:

Drawing Notes:

Rev.	Date	Description	Approved
2	2023.12.14	TENDERING ONLY	APV
1	2023.11.29	PROPOSED	APV
0	2023.09.22	PROPOSED	APV

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Project Name:

EMERGENCY CONSTRUCTION OF PATIENT WARDS AT KULHUDHUFFUSHI ISLAND IN MALDIVES

Client:

MINISTRY OF HEALTH,
KULHUDHUFFUSHI REGIONAL HOSPITAL
MALDIVES

Supported & Funded By:

THE WORLD BANK
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ASIAN INFRASTRUCTURE INVESTMENT BANK
AIB ASIAN INFRASTRUCTURE INVESTMENT BANK

Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY OFFICE, SRI LANKA

2 DON CARLOS RD,
COLOMBO 00700,
SRI LANKA

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA
RAJAGIRIYA, PC 10107,
COLOMBO, SRI LANKA

Drawing Title:

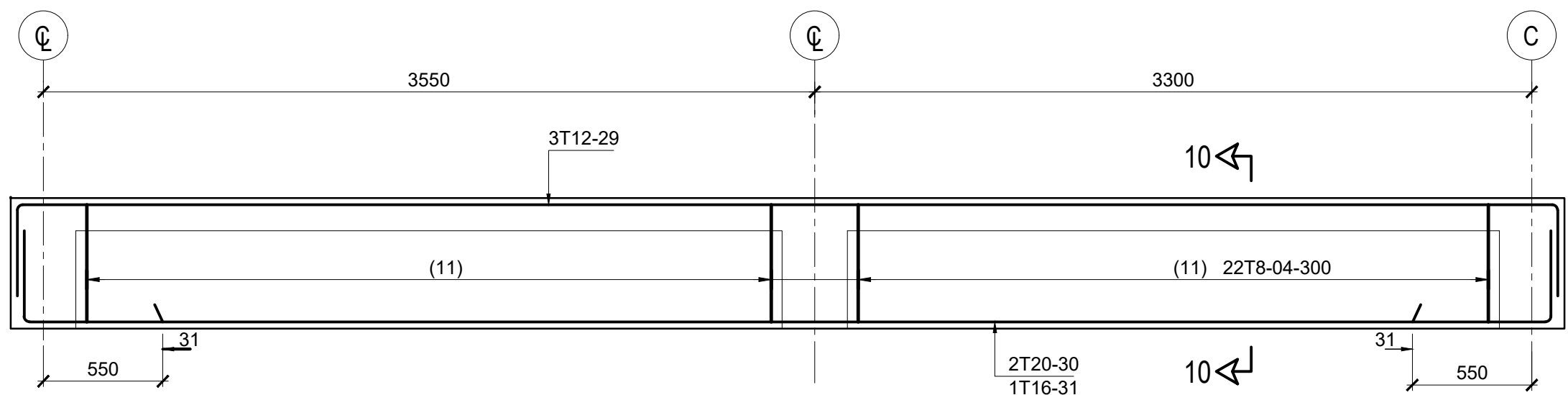
STRUCTURAL DETAILS
BEAM DETAILS OF FIRST FLOOR, ROOF
TERRACE & COVER SLAB
(SHEET 3)

Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
23553	01	TN	ST	BE	3607

Drawn	Check	Appr.	Rev.	Size	Scale	Issue Date
GLS	SAV	APV	2	A1	-	2023.12.14

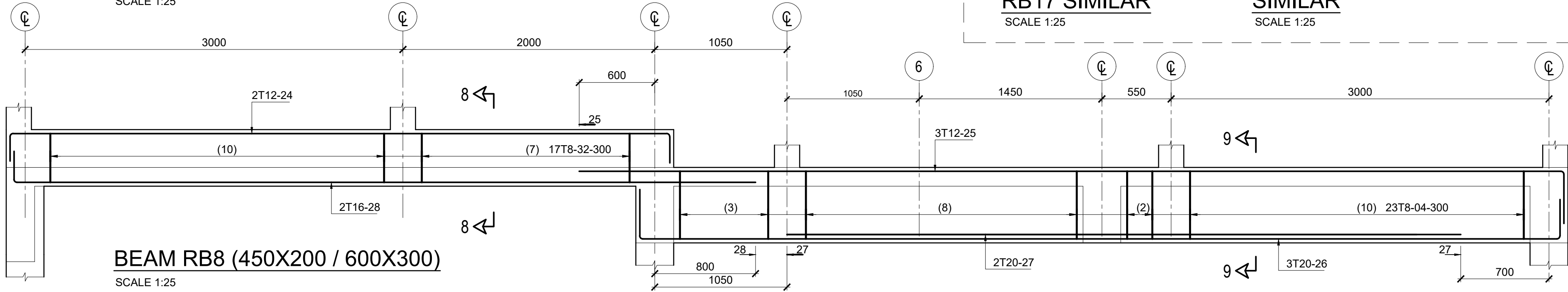
TENDERING ONLY

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23553	01	TN	ST	BE	3608
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
GLS	SAV	APV	1	A1	-
2023.12.14					



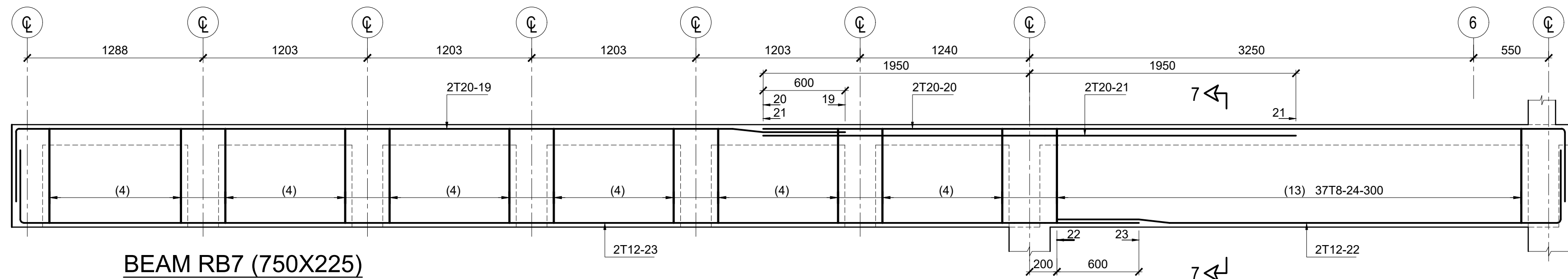
BEAM RB18 (600X300)

SCALE 1:25



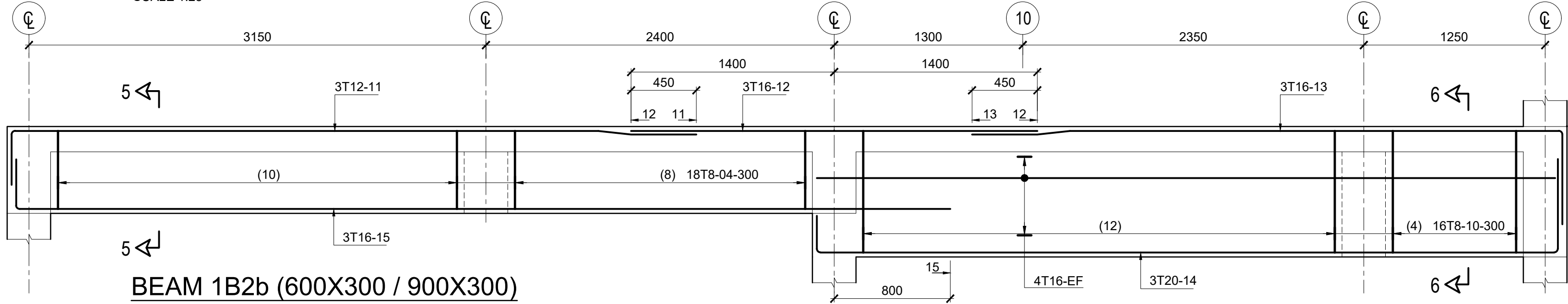
BEAM RB8 (450X200 / 600X300)

SCALE 1:25



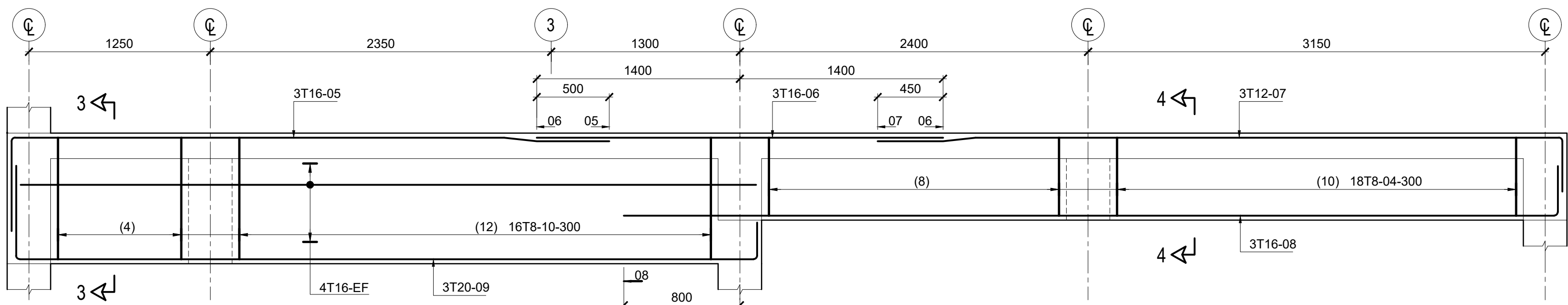
BEAM RB7 (750X225)

SCALE 1:25



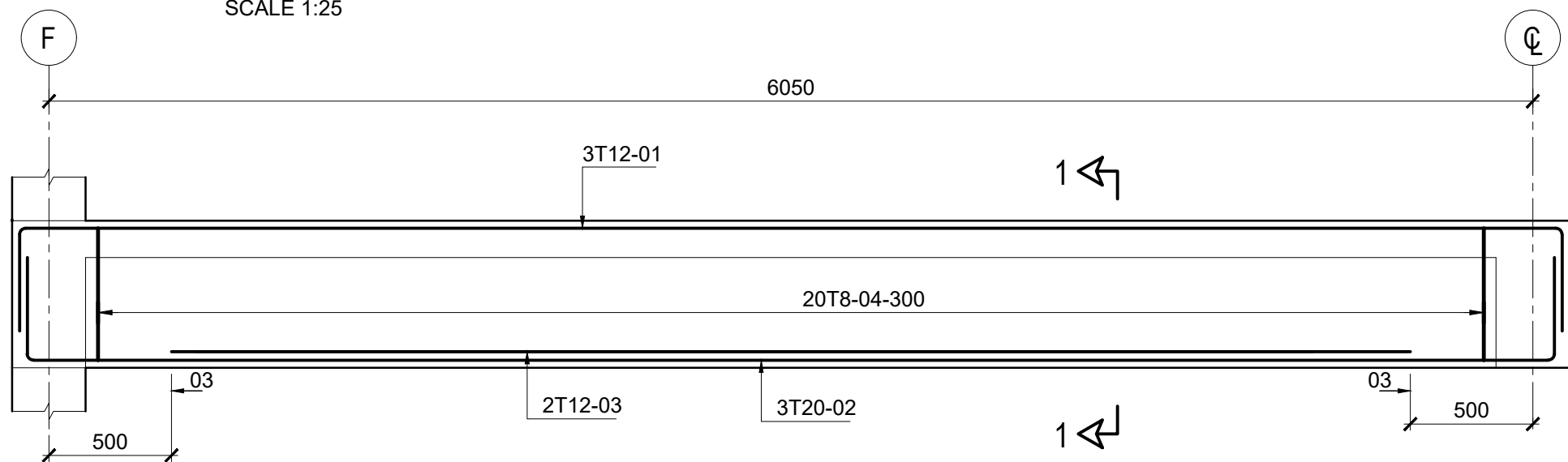
BEAM 1B2b (600X300 / 900X300)

SCALE 1:25



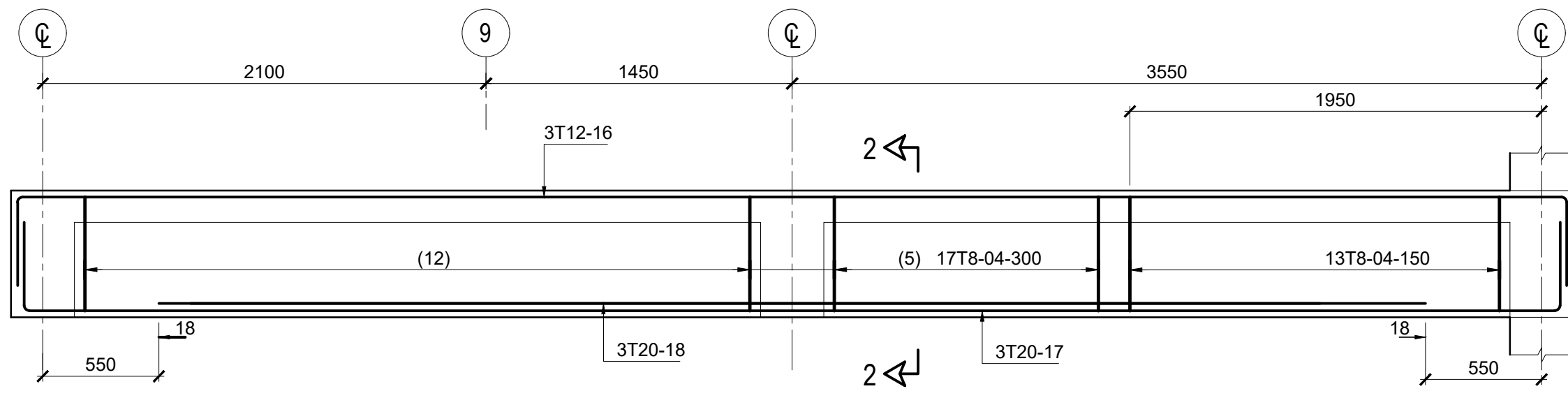
BEAM 1B2a (900X300 / 600X300)

SCALE 1:25



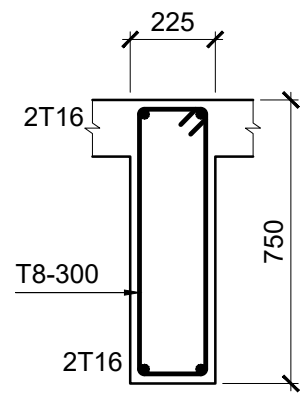
BEAM 1B28 (600X300)

SCALE 1:25



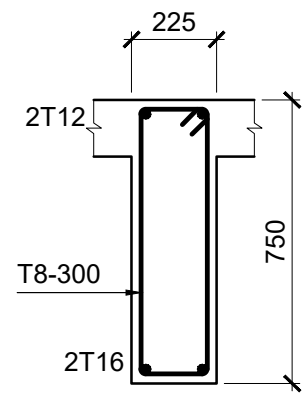
BEAM RB5 (600X300)

SCALE 1:25



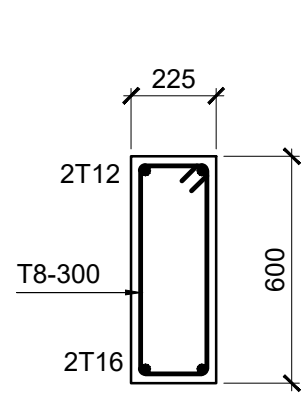
BEAM 1B22/ 1B22a/
(750X225)
BEAM RB13/ RB14/
RB17 SIMILAR

SCALE 1:25



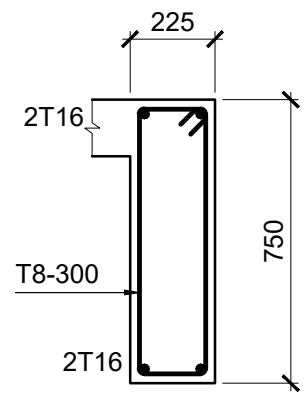
BEAM 1B27
(750X225)
BEAM RB15/ RB16
SIMILAR

SCALE 1:25



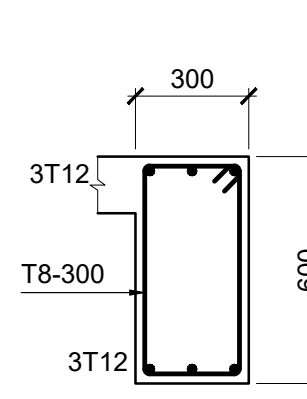
BEAM RB1
(600X225)

SCALE 1:25



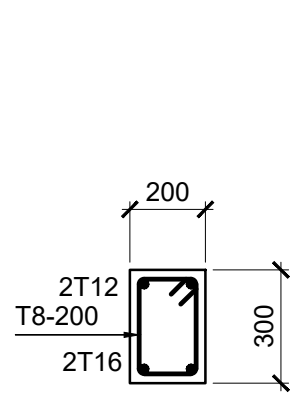
BEAM RB2
(750X225)

SCALE 1:25



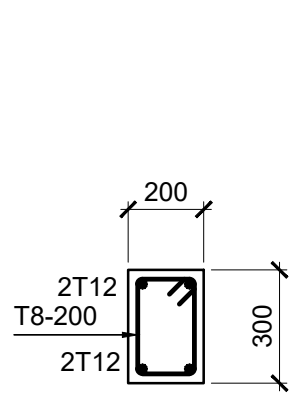
BEAM CB7 / CB8
(600X300)

SCALE 1:25



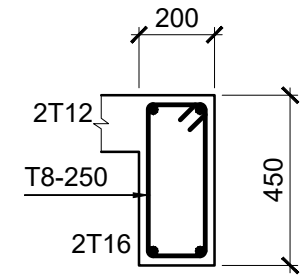
BEAM CB5
(300X200)

SCALE 1:25



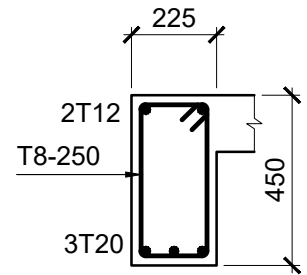
BEAM CB2/ CB4/
CB6/ CB9
(300X200)

SCALE 1:25



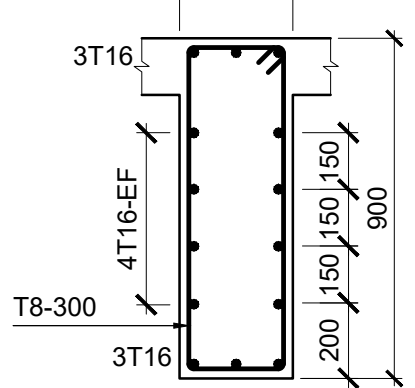
BEAM 1B12
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BEAM RB6
SIMILAR

SCALE 1:25



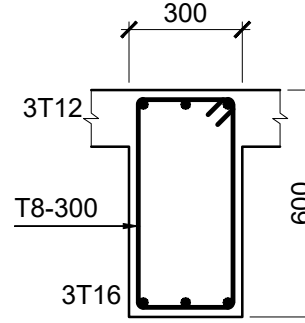
BEAM 1B14
(450X225)

SCALE 1:25



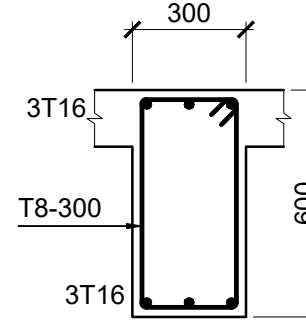
BEAM 1B19/ 1B20/
1B35/ 1B38
(900X300)

SCALE 1:25



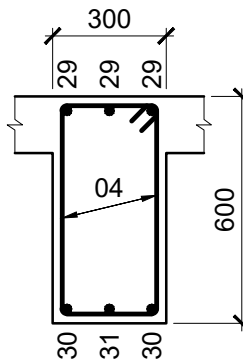
BEAM 1B2
(600X300)
BEAM CB1/ CB3
SIMILAR

SCALE 1:25



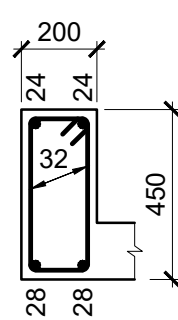
BEAM 1B5/ 1B26/
1B30/ 1B32
(600X300)
BEAM RB19 SIMILAR

SCALE 1:25



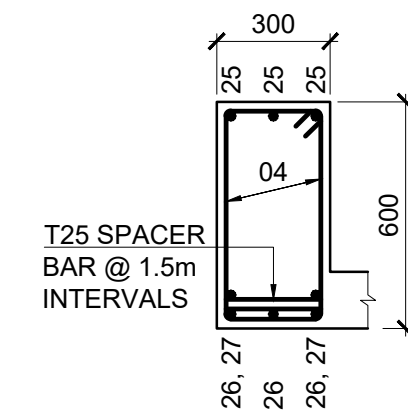
SECTION 10-10

SCALE 1:25



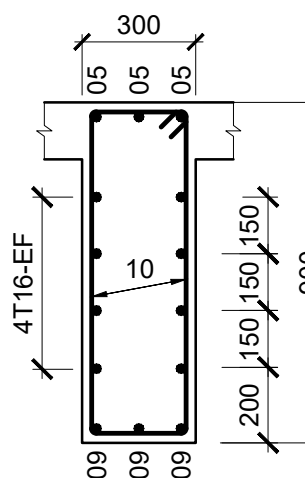
SECTION 8-8

SCALE 1:25



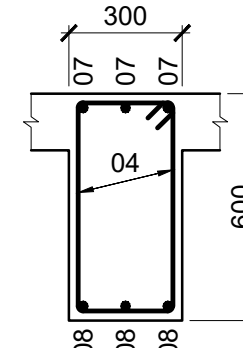
SECTION 9-9

SCALE 1:25



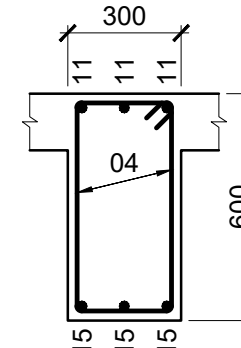
SECTION 3-3

SCALE 1:25



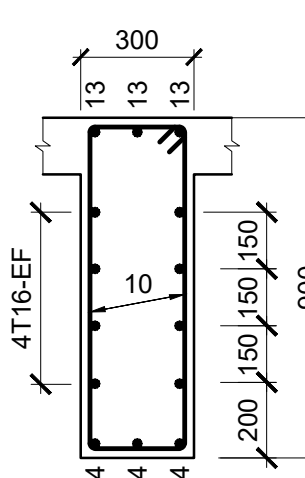
SECTION 4-4

SCALE 1:25



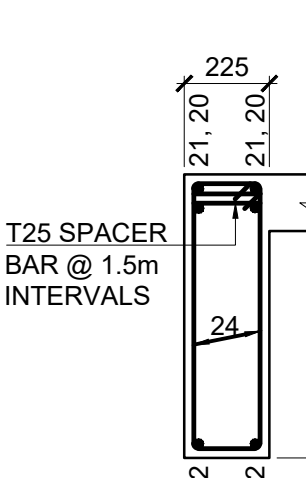
SECTION 5-5

SCALE 1:25



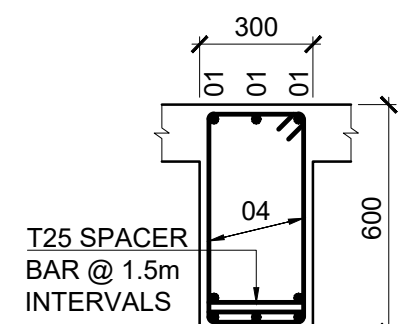
SECTION 6-6

SCALE 1:25



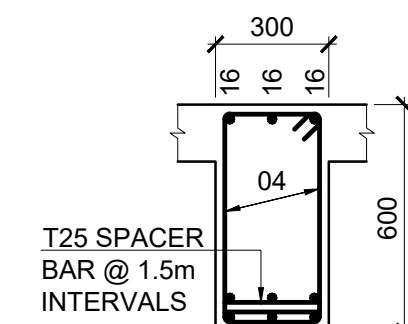
SECTION 7-7

SCALE 1:25



SECTION 1-1

SCALE 1:25



SECTION 2-2

SCALE 1:25

Key Map:

General Legend:

Drawing Notes:

Rev.	Date	Description	Approved
2	2023.12.14	TENDERING ONLY	APV
1	2023.11.29	PROPOSED	APV
0	2023.09.22	PROPOSED	APV

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Project Name:

EMERGENCY CONSTRUCTION OF
PATIENT WARDS AT
KULHUTHUFFUSHI ISLAND IN
MALDIVES

Client:

MINISTRY OF HEALTH,
KULHUTHUFFUSHI REGIONAL HOSPITAL
MALDIVES



Supported & Funded By:

THE WORLD BANK



ASIAN INFRASTRUCTURE INVESTMENT
BANK



Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD
114A, KOSWATTA RD, NAWALA
RAJAGIRIYA, PC 10107,
COLOMBO, SRI LANKA

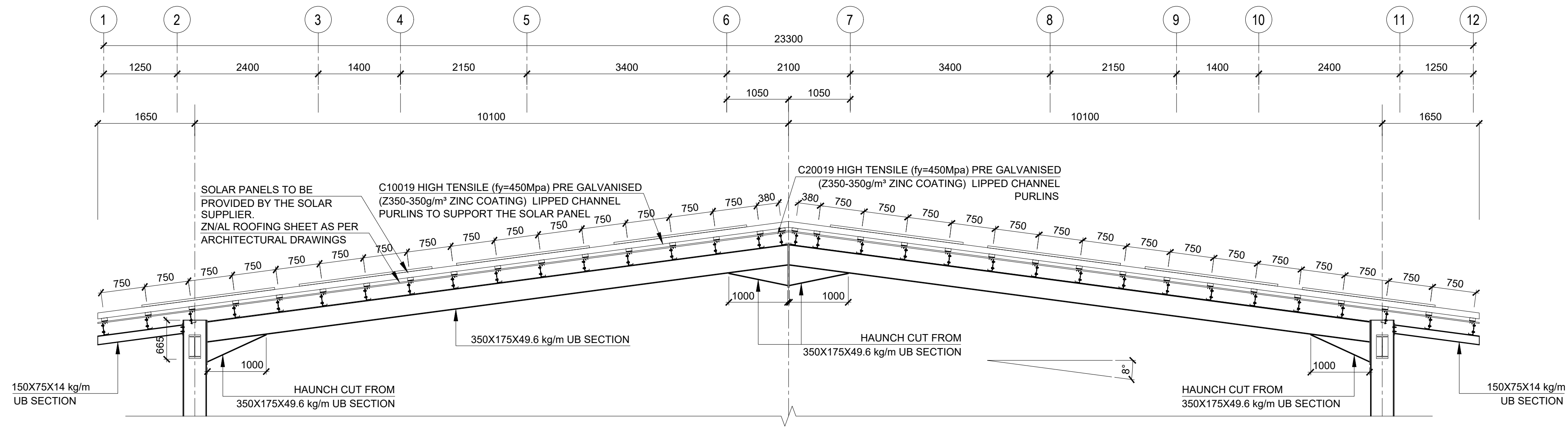


Drawing Title:

STRUCTURAL DETAILS
BEAM DETAILS OF FIRST FLOOR, ROOF
TERRACE & COVER SLAB
(SHEET 5)

Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
23553	01	TN	ST	BE	3609
Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:
GLS	SAV	APV	2	A1	-

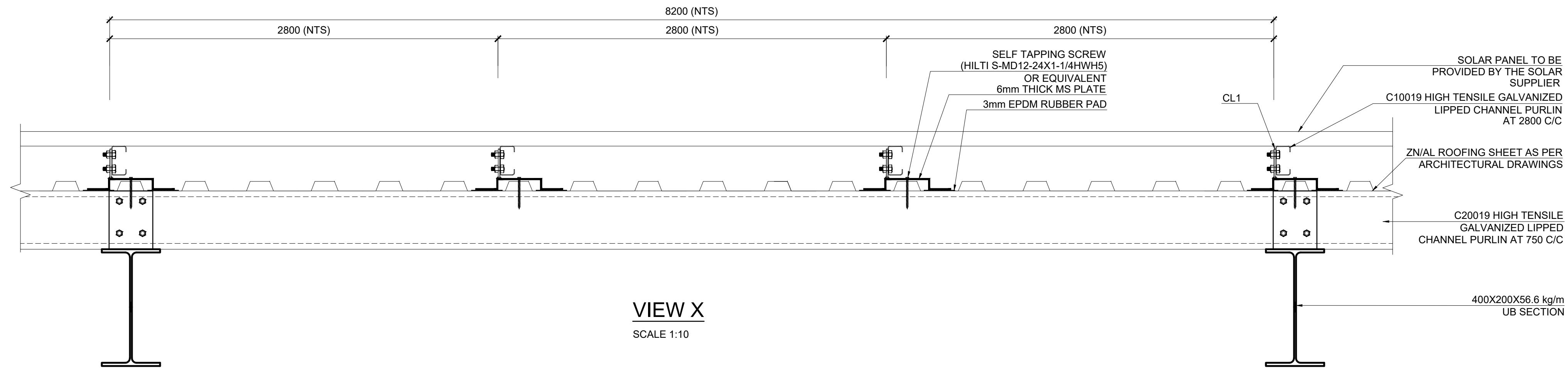
TENDERING ONLY



SECTION X-X

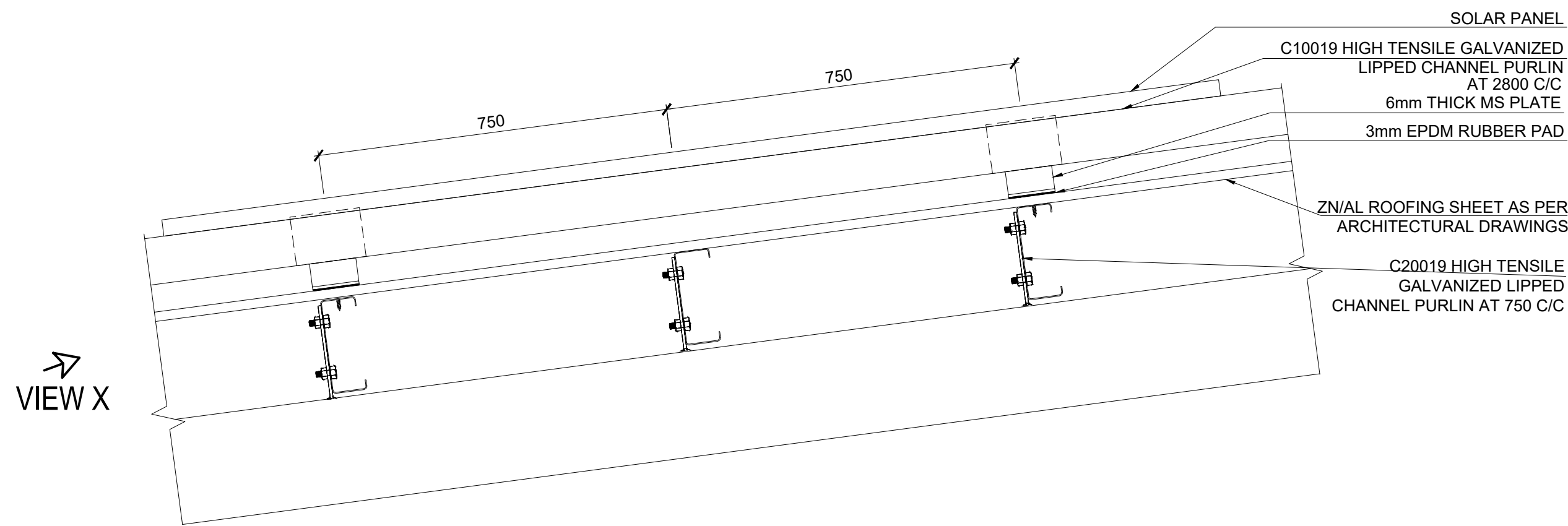
SCALE 1:50

- SOLAR SUPPLIER SHALL SUBMIT PROPRIETARY CONNECTION DETAILS THAT ARE SUITABLE FOR 38 m/s WIND SPEED (2.3kN OUTWARD FORCE)
- ALUMINIUM AND STEEL SHALL SEPARATE WITH SUITABLE (EPDM RUBBLE PAD) MATERIALS.



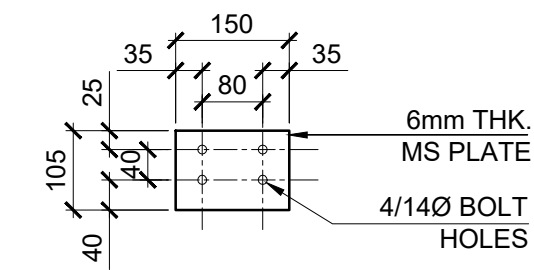
VIEW X

SCALE 1:10



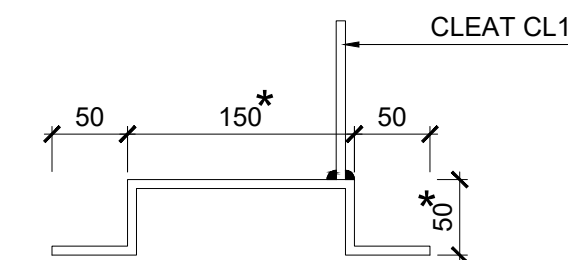
TYPICAL SOLAR SUPPORTING DETAIL

SCALE 1:10



CLEAT CL1

SCALE 1:10



6mm THK MS PLATE

SCALE 1:5

NOTE:

- * - TO BE CHANGED WITH THE ZN/AL ROOFING SHEET CORRUGATION SIZE
- TO BE GALVANIZED TO A MEAN COATING THICKNESS OF 55µm.
- LENGTH OF ELEMENT - 150mm

TENDERING ONLY

Key Map:

General Legend:

Drawing Notes:

Rev.	Date	Description	Approved
1	2023.12.14	TENDERING ONLY	APV
0	2023.12.04	PROPOSED	APV

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Project Name:

EMERGENCY CONSTRUCTION OF
PATIENT WARDS AT
KULHUTHUFFUSHI ISLAND IN
MALDIVES

Client:

MINISTRY OF HEALTH,
KULHUTHUFFUSHI REGIONAL HOSPITAL
MALDIVES



Supported & Funded By:

THE WORLD BANK



ASIAN INFRASTRUCTURE INVESTMENT
BANK



Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA

2 DON CAROLUS RD,
COLOMBO 00700,
SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA
RAJAGIRYA, PC 10107,
COLOMBO, SRI LANKA

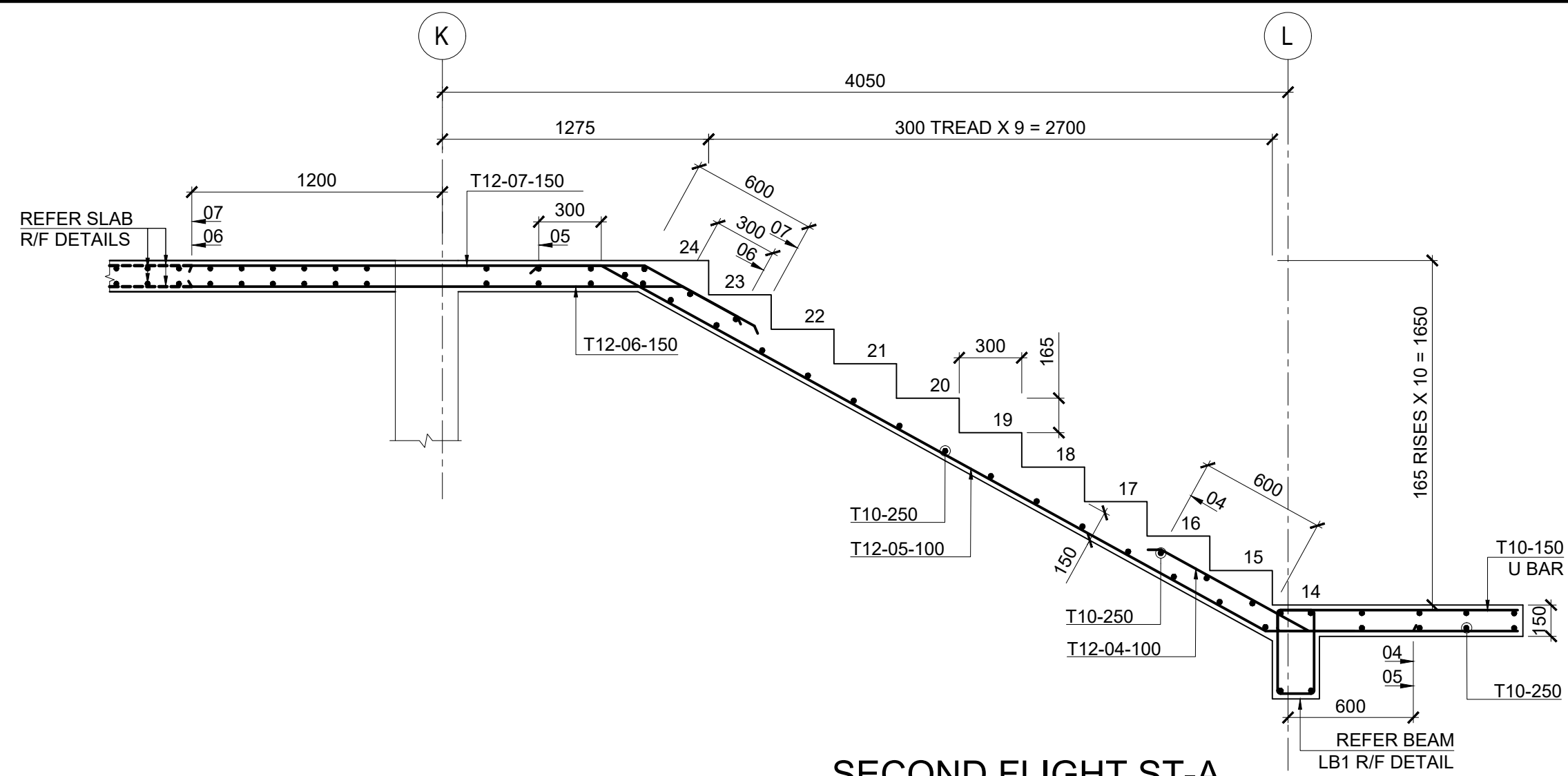


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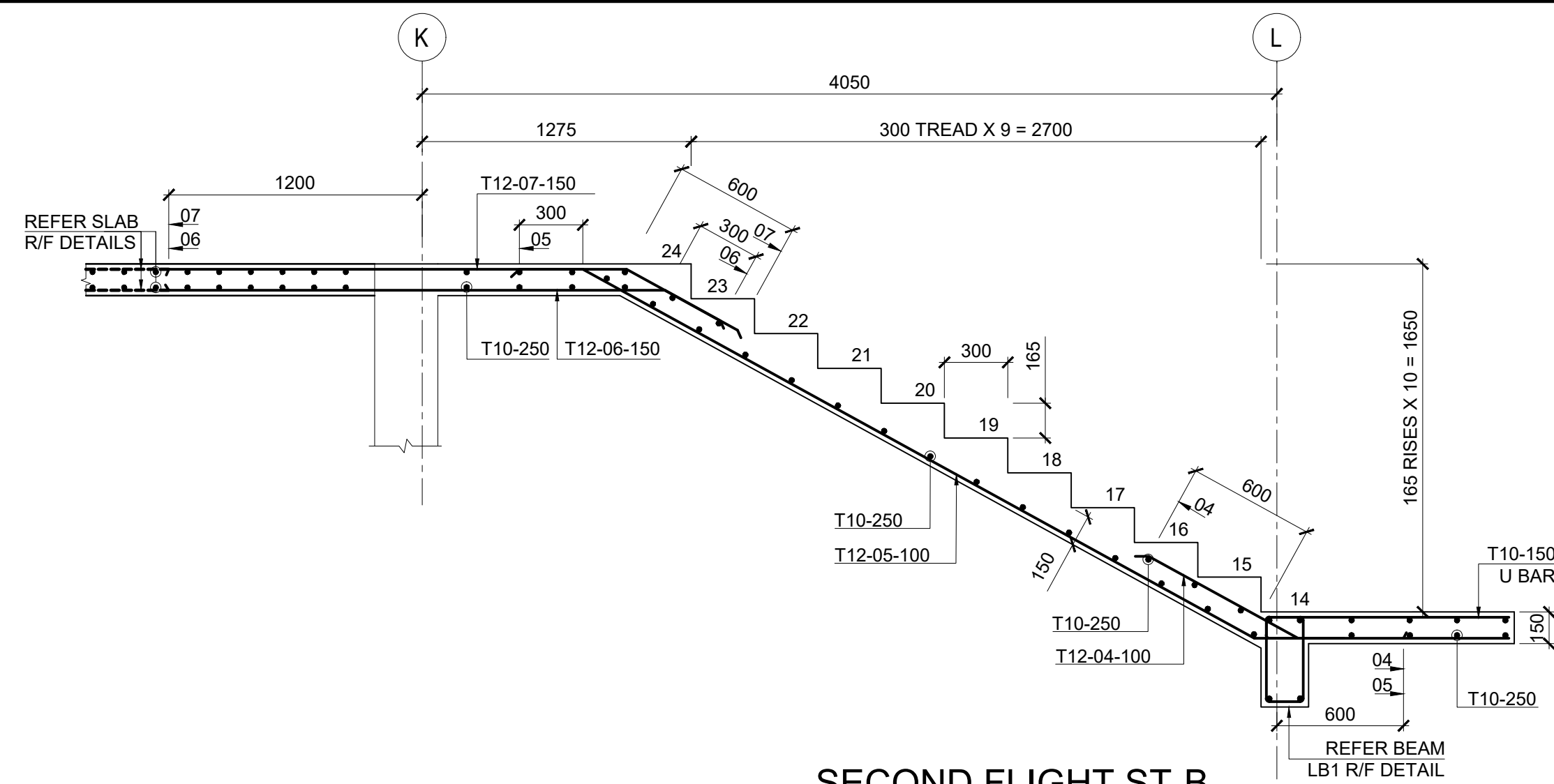
STRUCTURAL DETAILS
SOLAR PANEL SUPPORTING DETAIL

Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
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Drawn	Check	Appr.	Rev.	Size	Scale
GLS	SAV	APV	1	A1	-

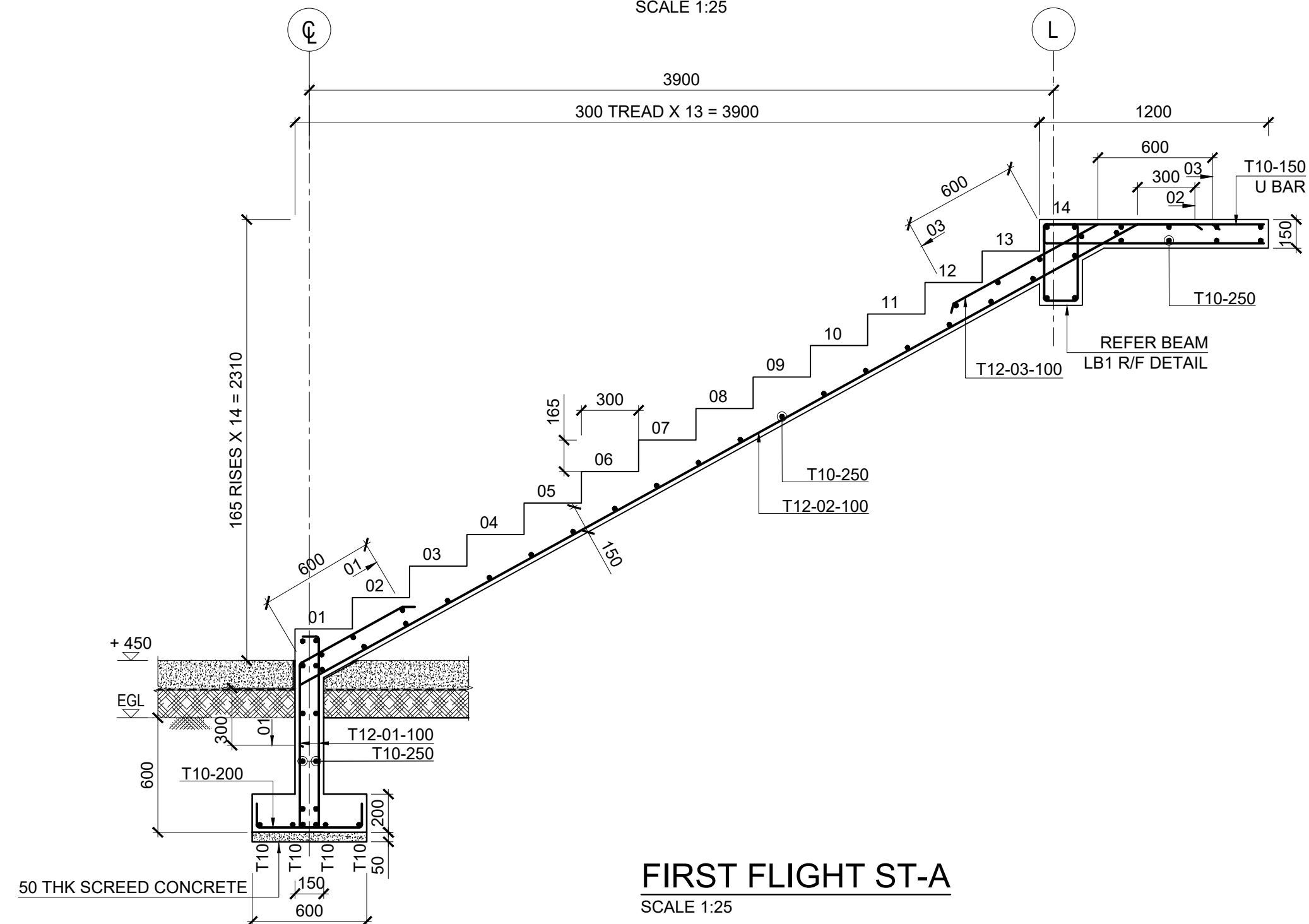
2023.12.14



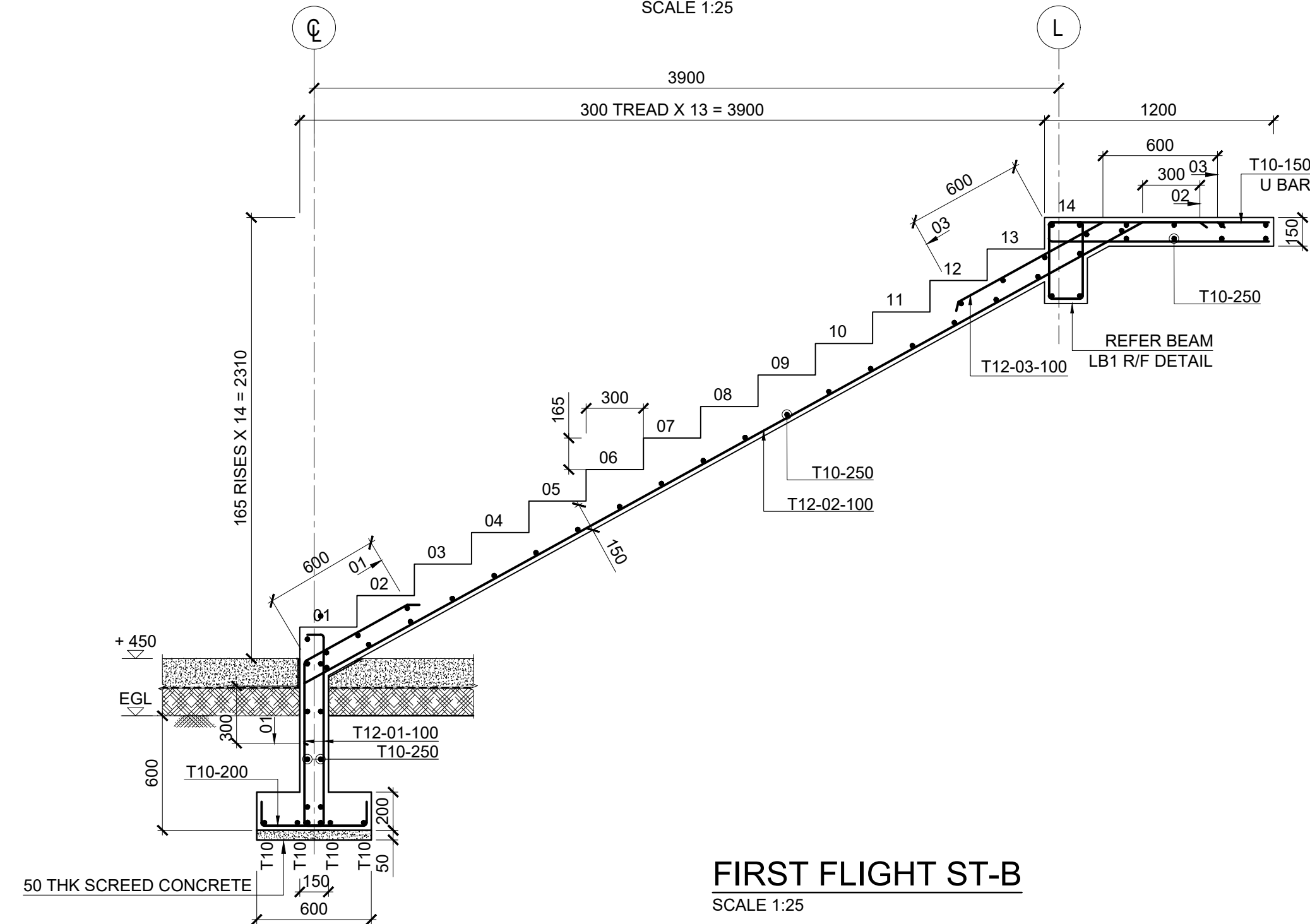
SECOND FLIGHT ST-A
SCALE 1:25



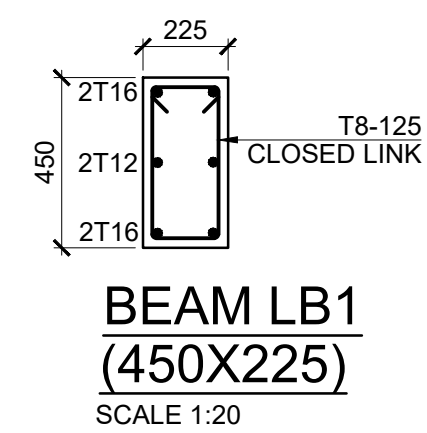
SECOND FLIGHT ST-B
SCALE 1:25



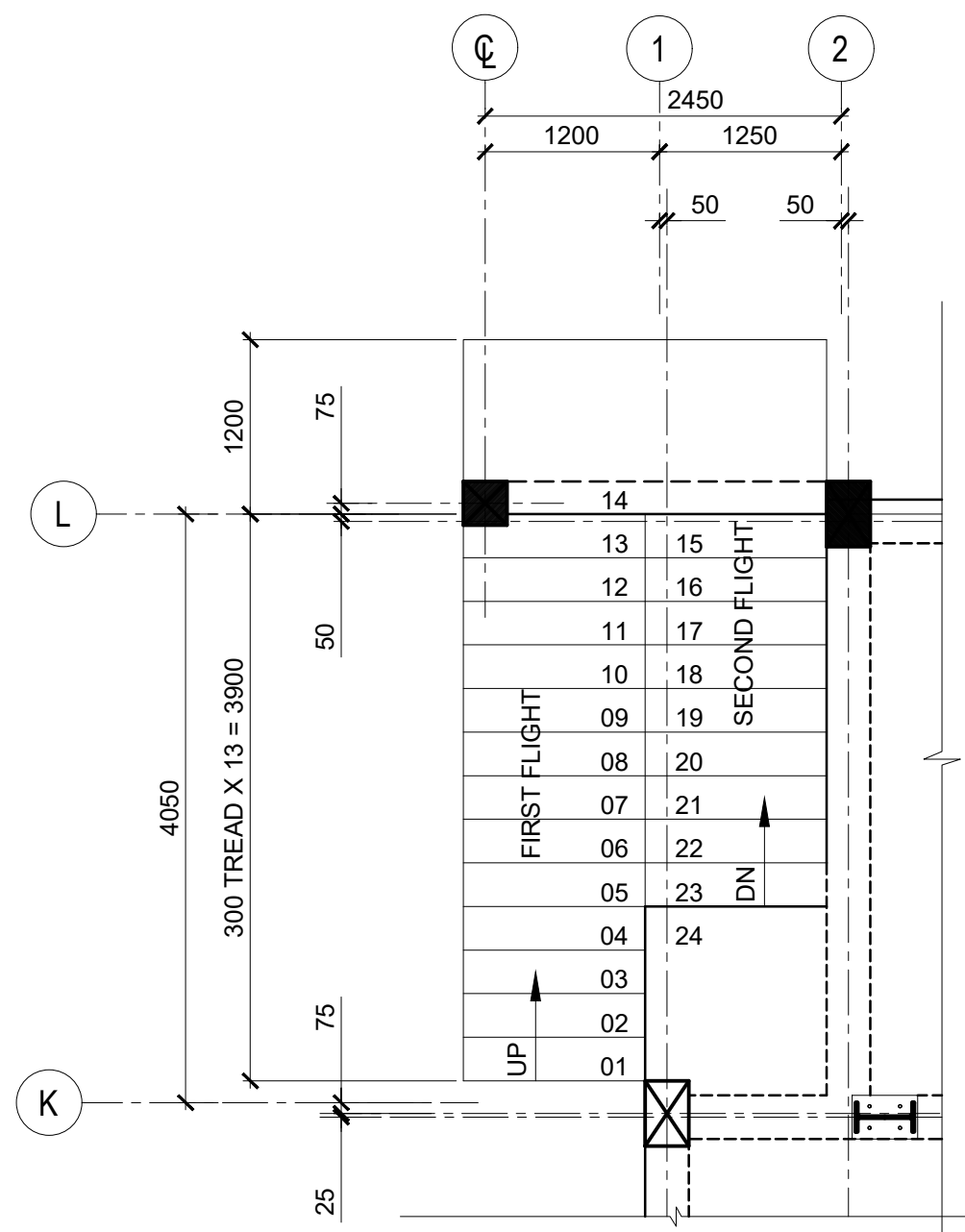
FIRST FLIGHT ST-A
SCALE 1:25



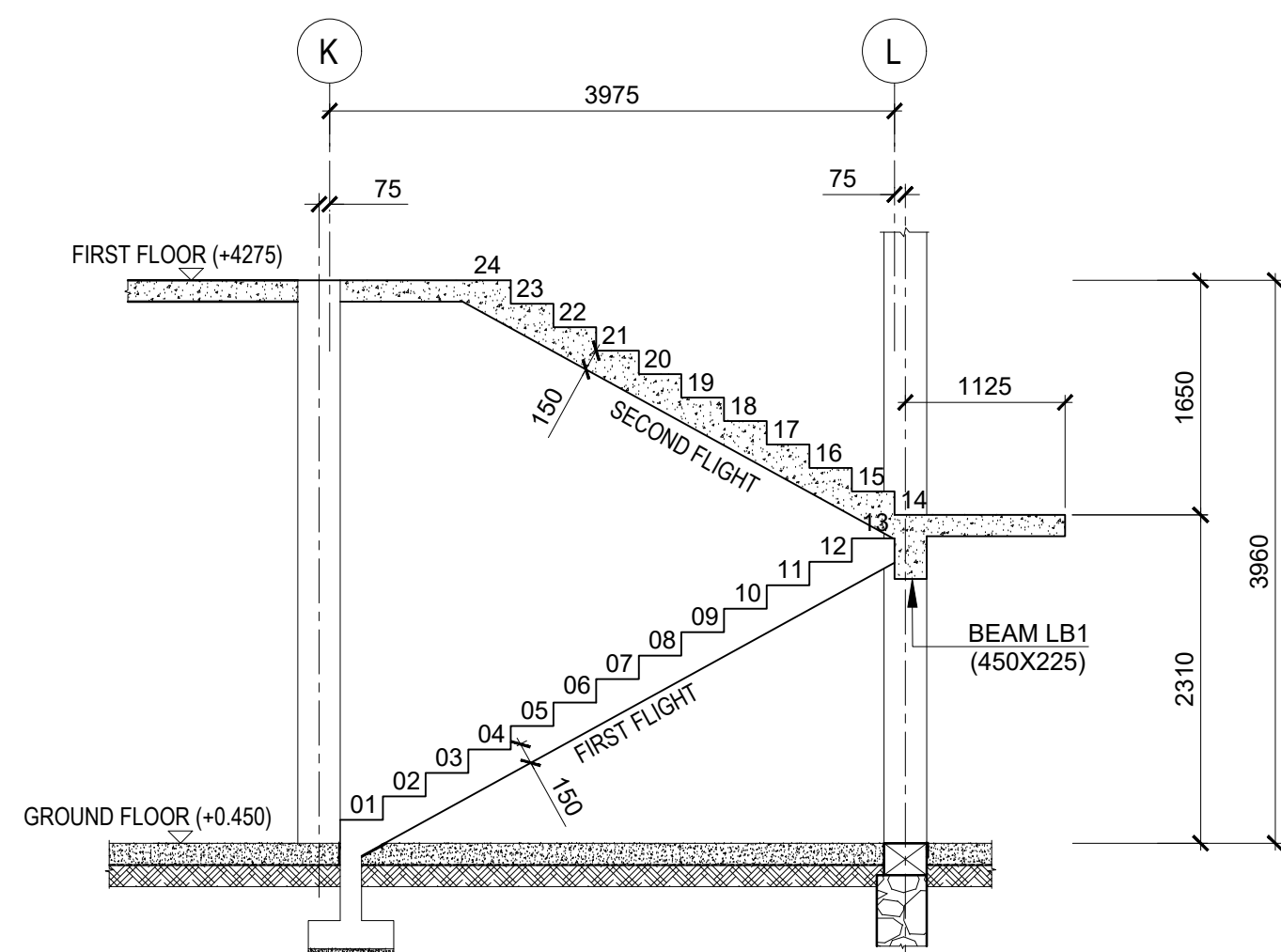
FIRST FLIGHT ST-B
SCALE 1:25



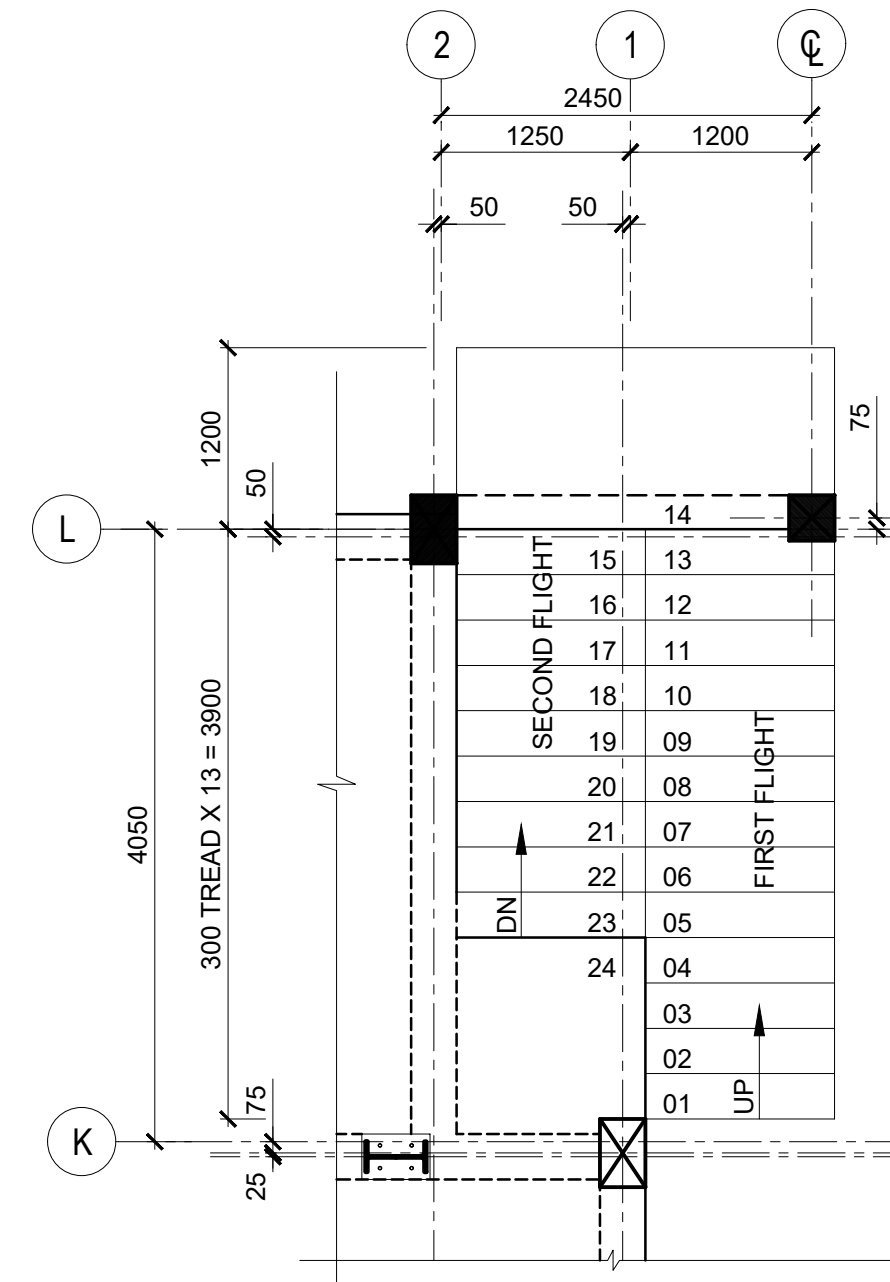
BEAM LB1
(450X225)
SCALE 1:20



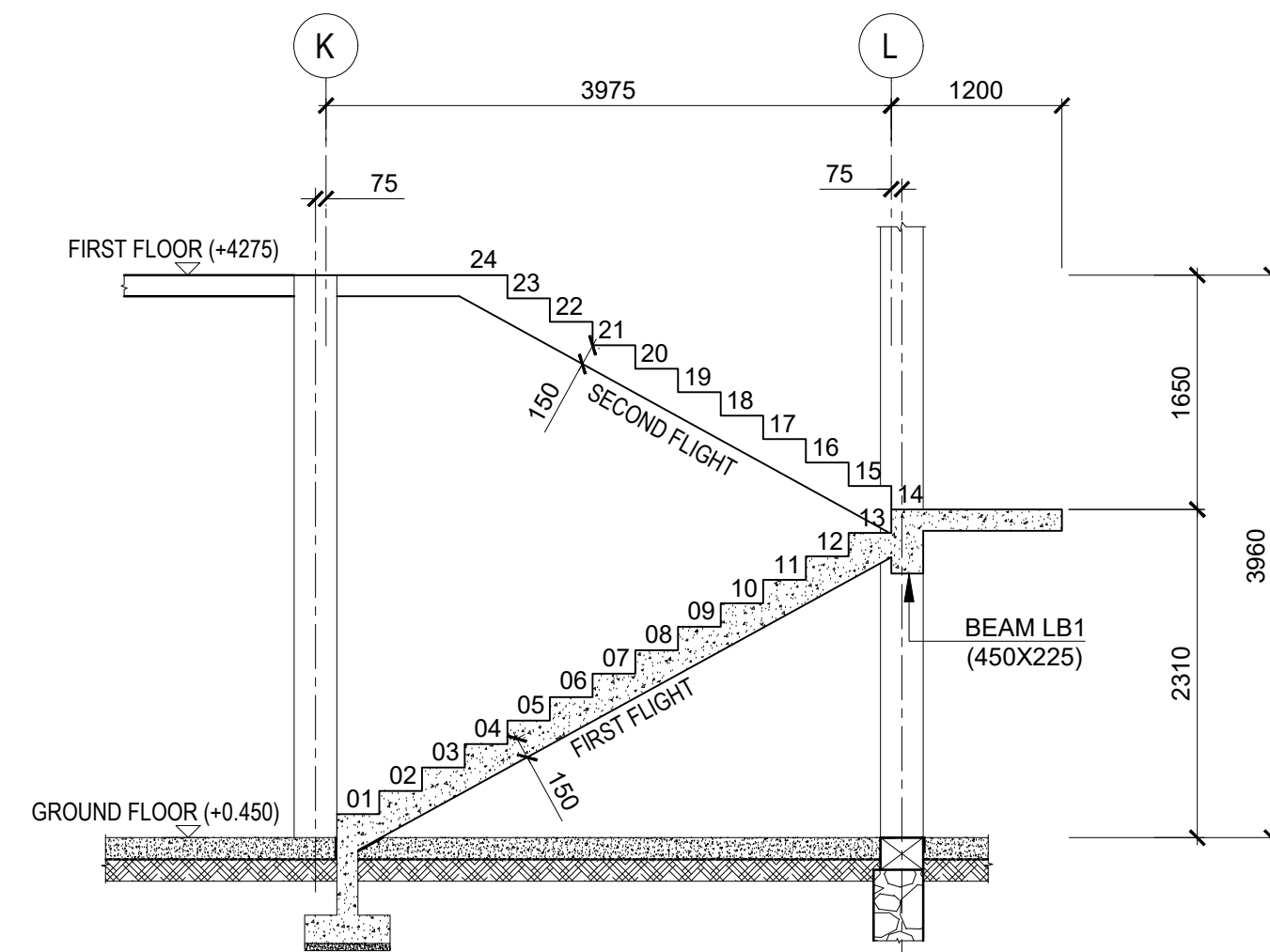
STAIRCASE ST-A PLAN
SCALE 1:50



ST- A KEY PLAN
SCALE 1:50



STAIRCASE ST-B PLAN
SCALE 1:50



ST- B KEY PLAN
SCALE 1:50

TENDERING ONLY

Key Map:

General Legend:

Drawing Notes:

1	2023.12.14	TENDERING ONLY	APV
0	2023.09.22	PROPOSED	APV
Rev.	Date	Description	Approved

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Project Name:

EMERGENCY CONSTRUCTION OF
PATIENT WARDS AT
KULHUDHUFFUSHI ISLAND IN
MALDIVES

Client:

MINISTRY OF HEALTH,
KULHUDHUFFUSHI REGIONAL HOSPITAL
MALDIVES



Supported & Funded By:

THE WORLD BANK



ASIAN INFRASTRUCTURE INVESTMENT
BANK



Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA

2 DON CAROLUS RD,
COLOMBO 0700,
SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

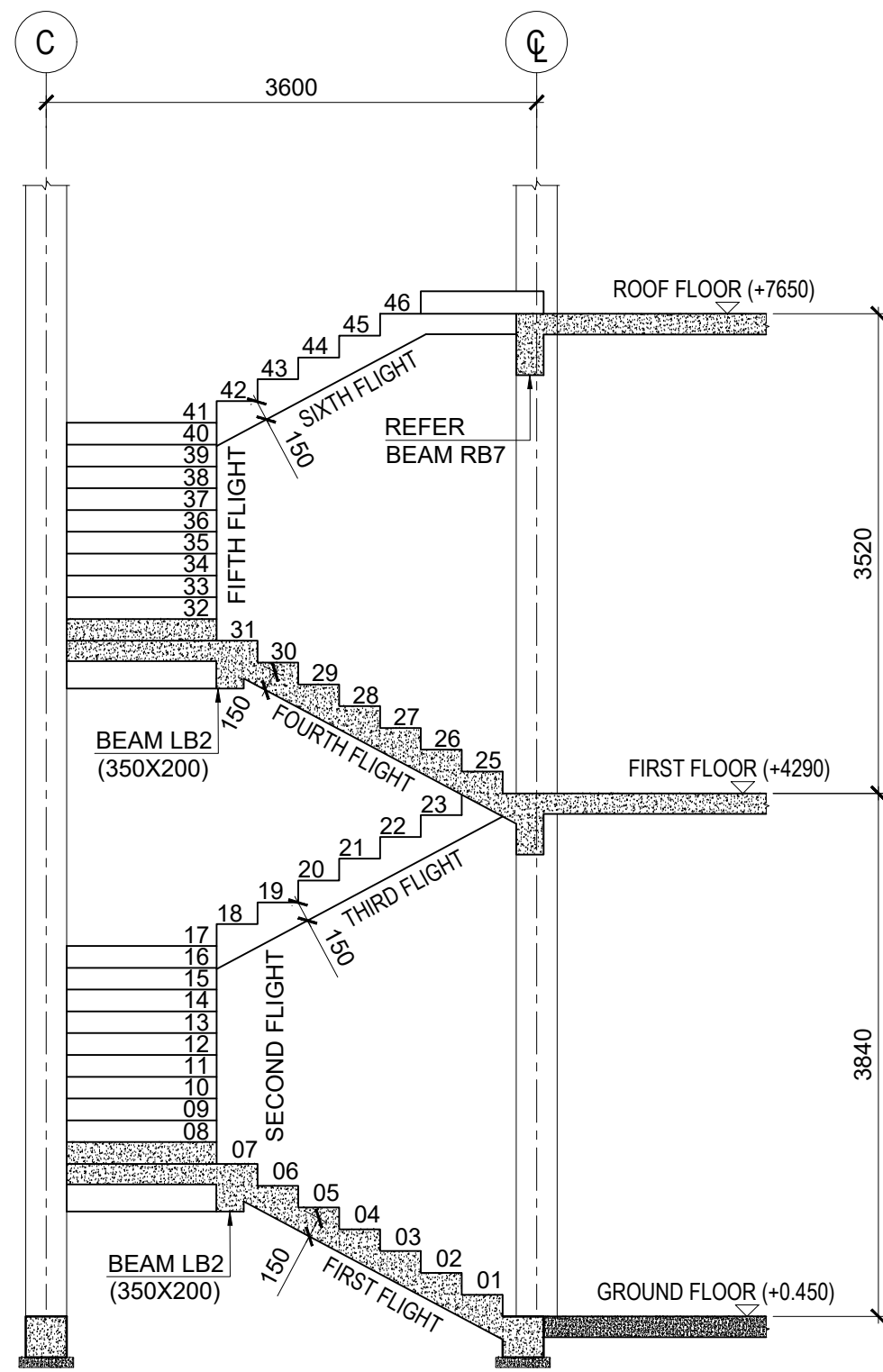
114A, KOSWATTA RD, NAWALA
RAJAGIRYA, PC 10107,
COLOMBO, SRI LANKA



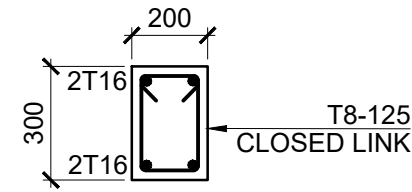
Drawing Title:

EXTERNAL STAIRCASE
ST-A, ST-B STAIRCASE DETAILS

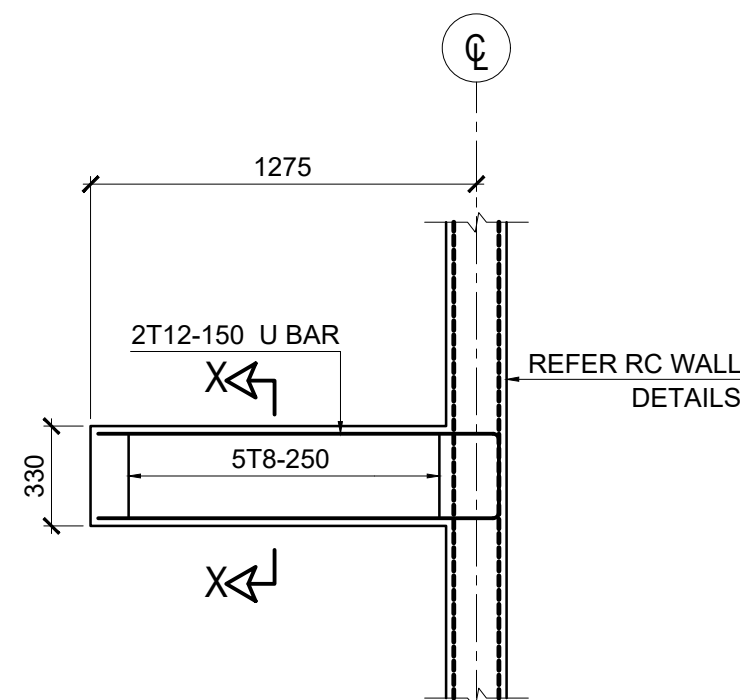
Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
23553	01	TN	ST	SR	3900
Drawn	Check	Appr.	Rev.	Size	Scale
IHG	SAV	APV	1	A1	-
					2023.12.14



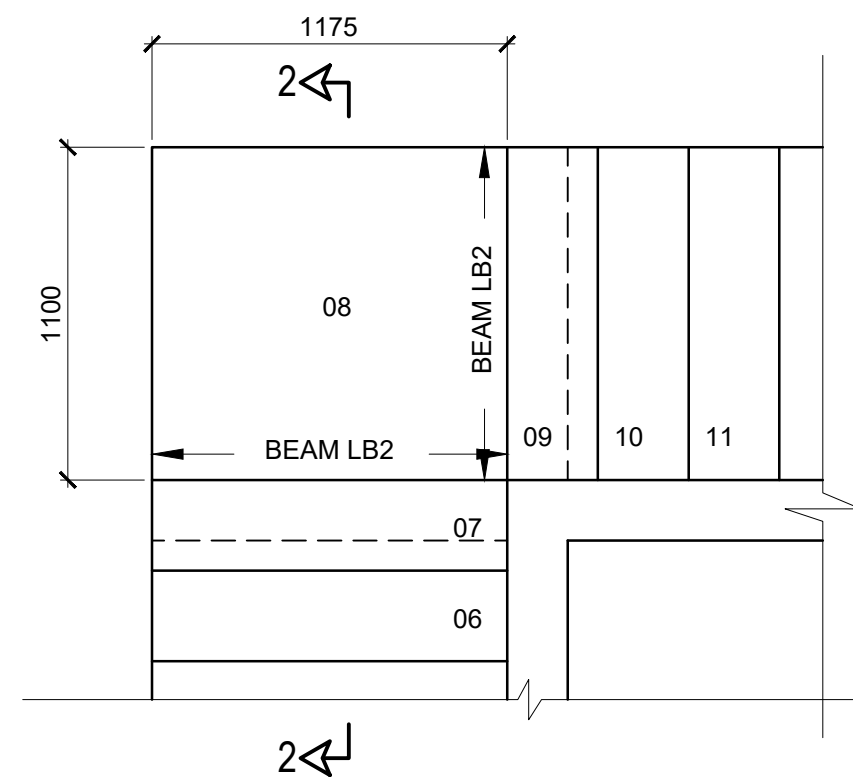
KEY DIAGRAM
SCALE 1:50



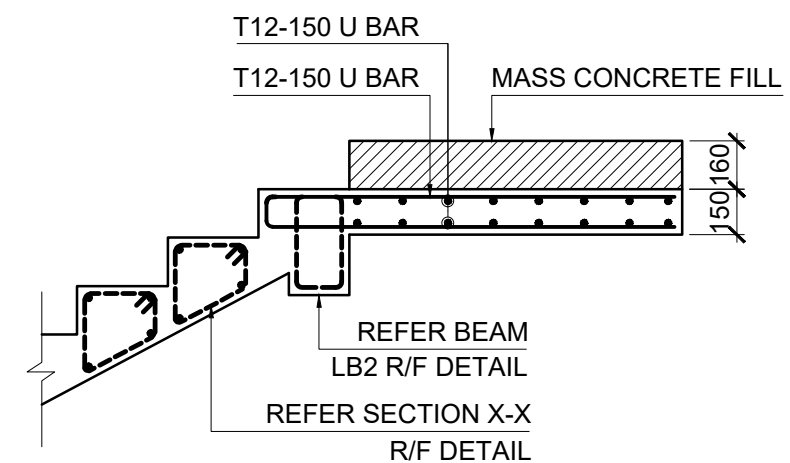
BEAM LB2
(300X200)
SCALE 1:20



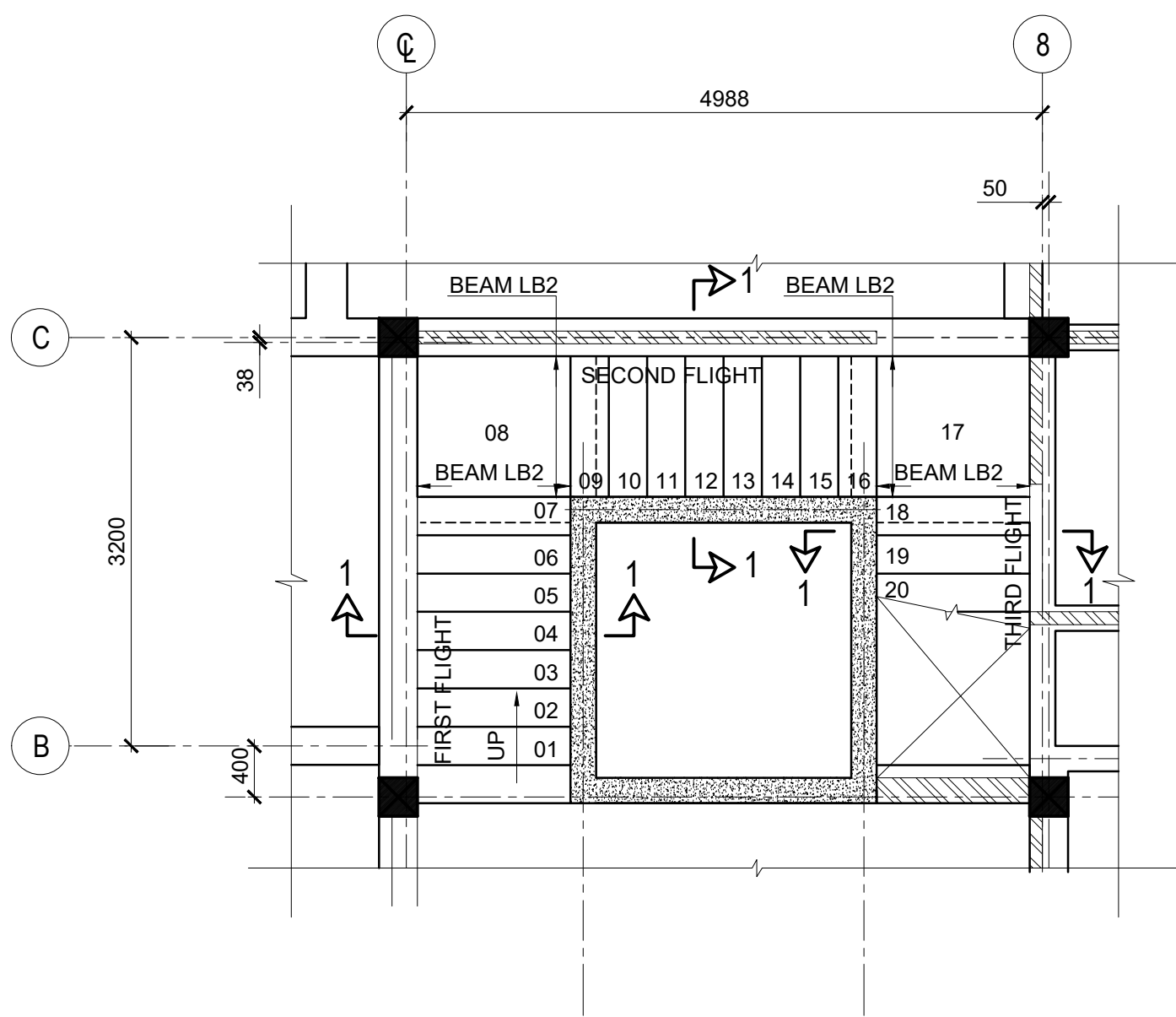
SECTION 1-1
SCALE 1:25



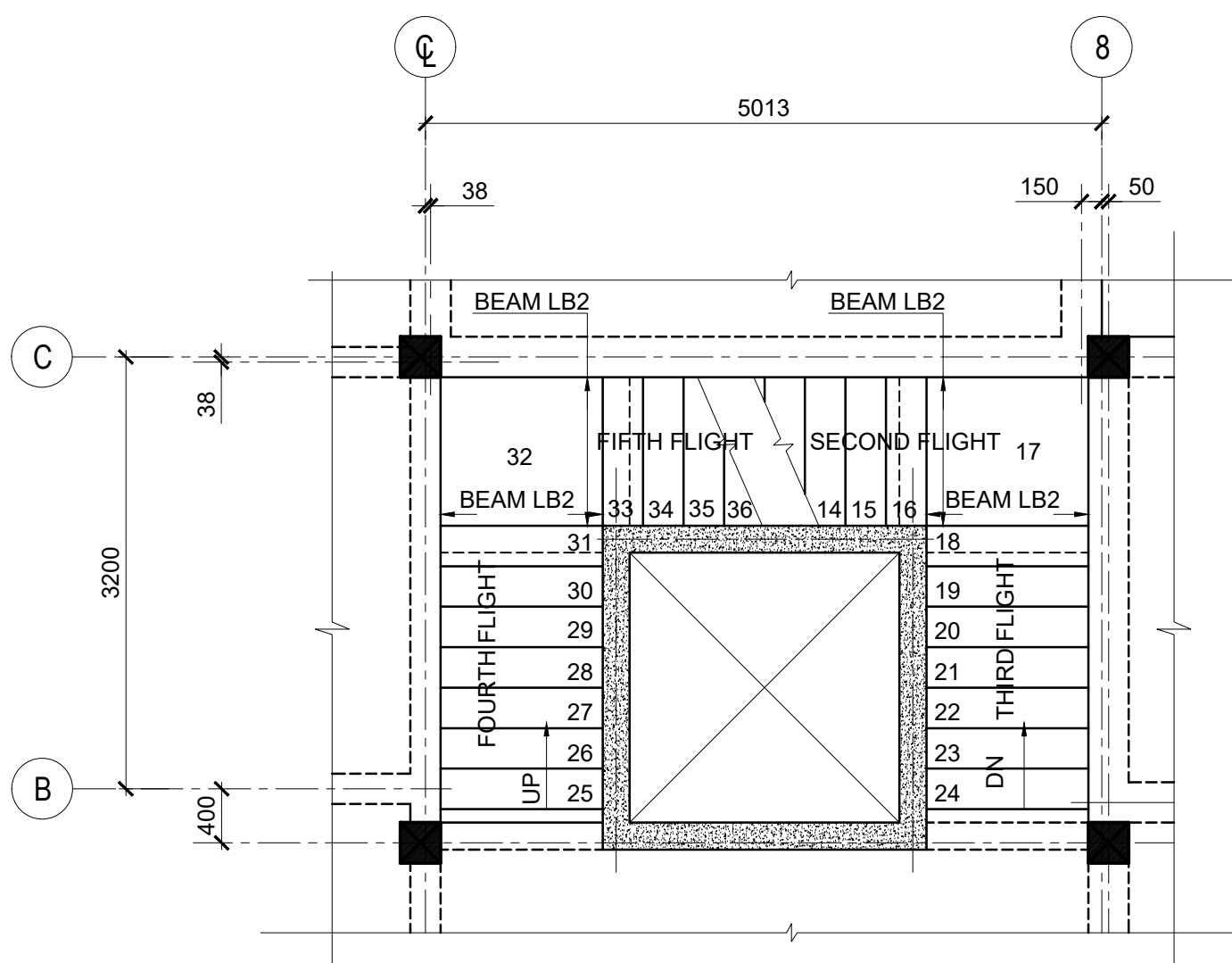
DETAIL A
SCALE 1:25



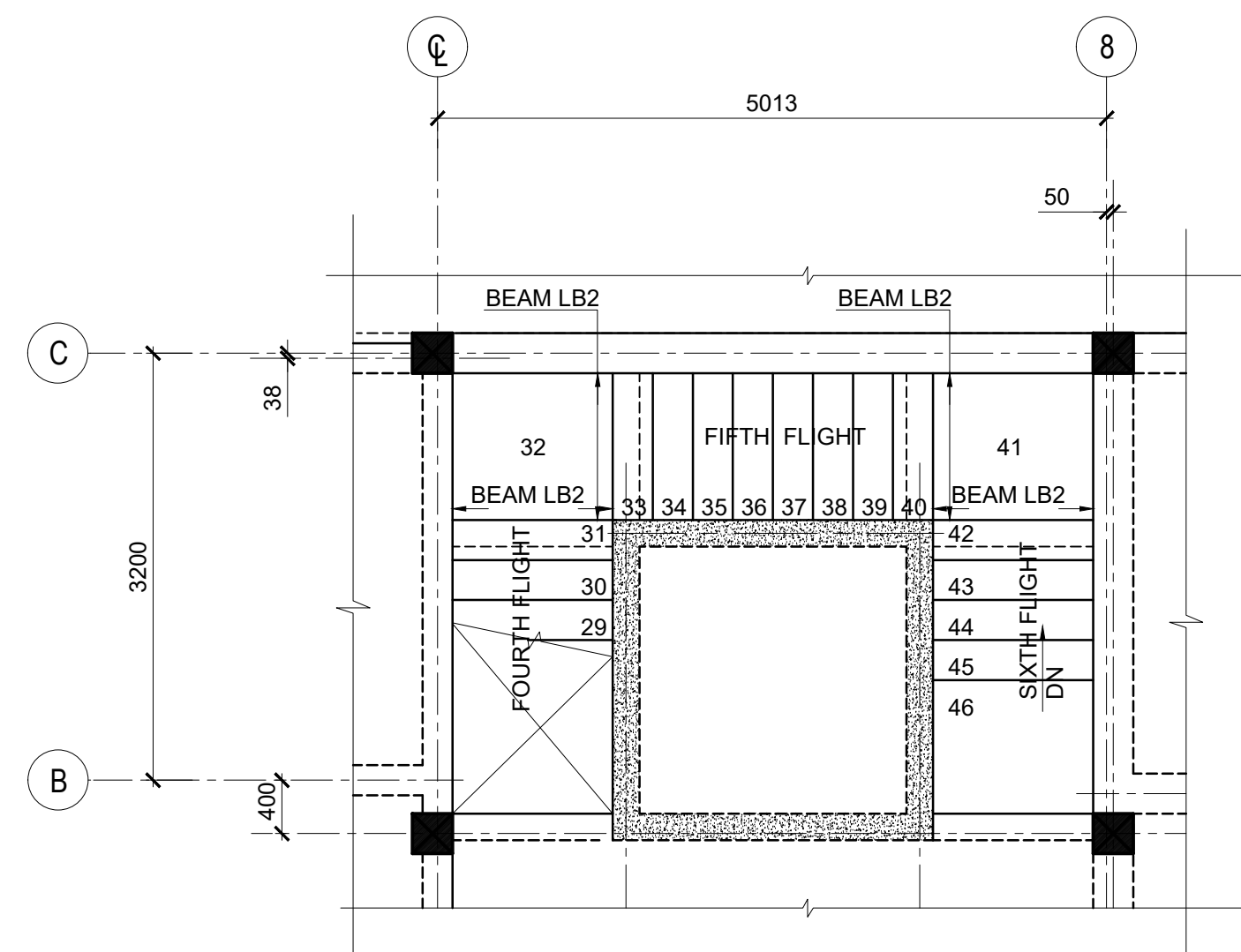
SECTION 2-2
SCALE 1:25



GROUND FLOOR PLAN (+0.450)
SCALE 1:50



FIRST FLOOR PLAN (+4290)
SCALE 1:50



ROOF FLOOR PLAN (+7590)
SCALE 1:50

Key Map:

General Legend:

Drawing Notes:

1	2023.12.14	TENDERING ONLY	APV
0	2023.09.22	PROPOSED	APV
Rev.	Date	Description	Approved

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Project Name:

EMERGENCY CONSTRUCTION OF
PATIENT WARDS AT
KULHUTHUFFUSHI ISLAND IN
MALDIVES

Client:

MINISTRY OF HEALTH,
KULHUTHUFFUSHI REGIONAL HOSPITAL
MALDIVES



Supported & Funded By:

THE WORLD BANK



ASIAN INFRASTRUCTURE INVESTMENT
BANK



Implementation:

UNOPS SOUTH ASIA MULTI COUNTRY
OFFICE, SRI LANKA

2 DON CAROLUS RD,
COLOMBO 00700,
SRI LANKA



Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD

114A, KOSWATTA RD, NAWALA
RAJAGIRIYA, PC 10107,
COLOMBO, SRI LANKA

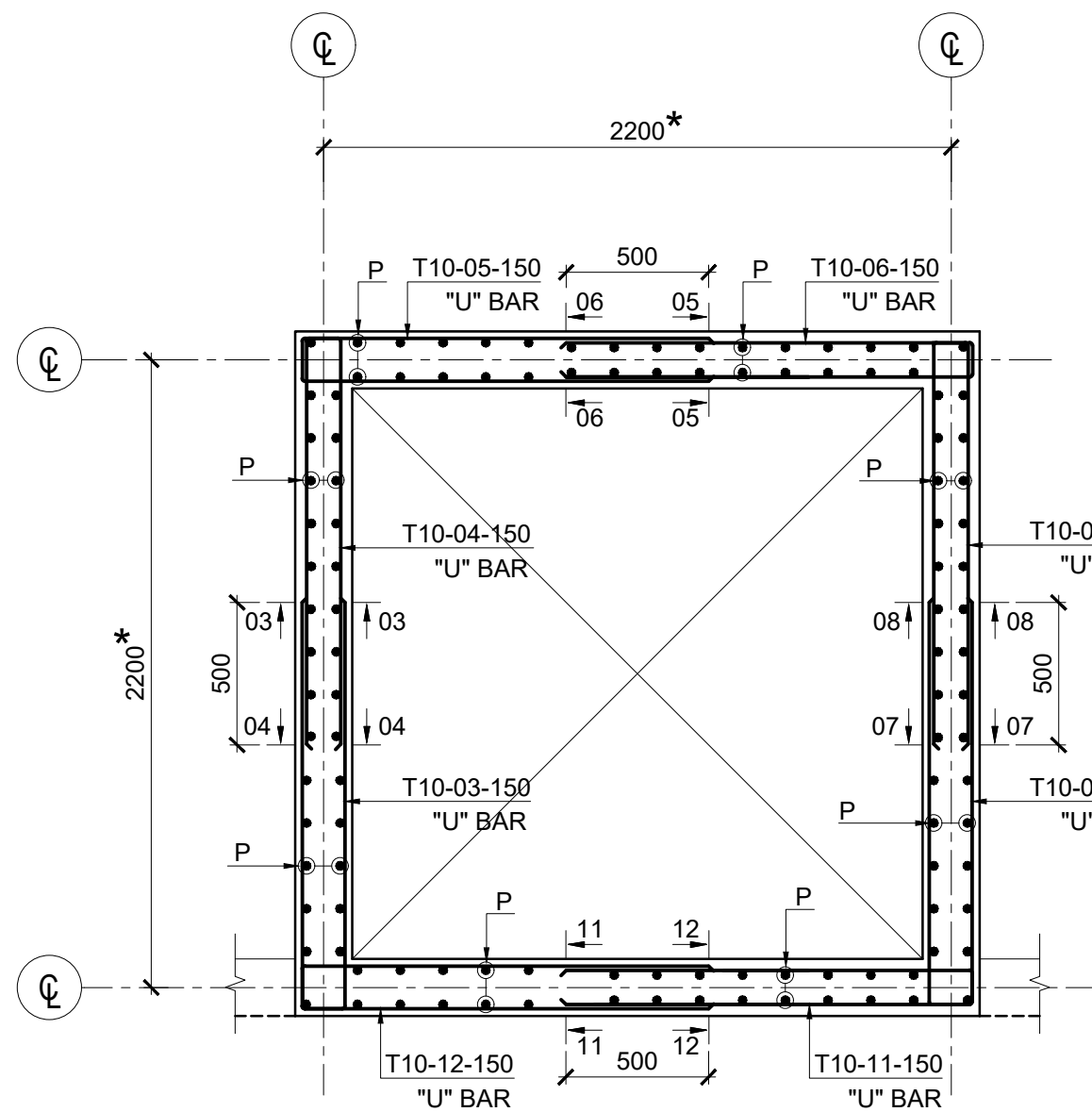


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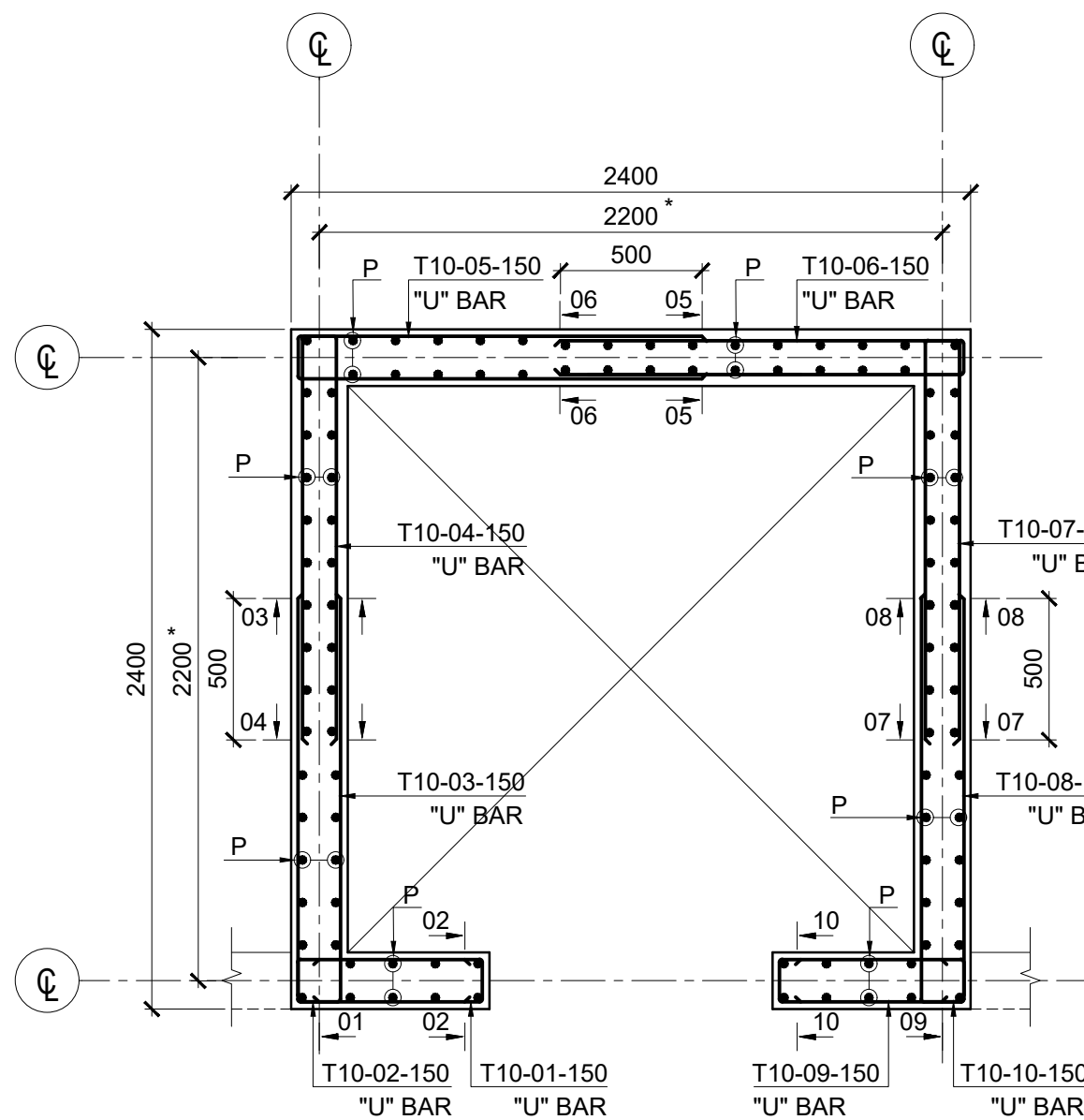
STRUCTURAL DRAWINGS
INTERNAL STAIRCASE
STAIRCASE DETAILS

Project No.	SUB No.	Stage	Discipline	Subject	Seq No.
23553	01	TN	ST	SR	3901
Drawn	Check	Appr.	Rev.	Size	Scale
IHG	SAV	APV	1	A1	-

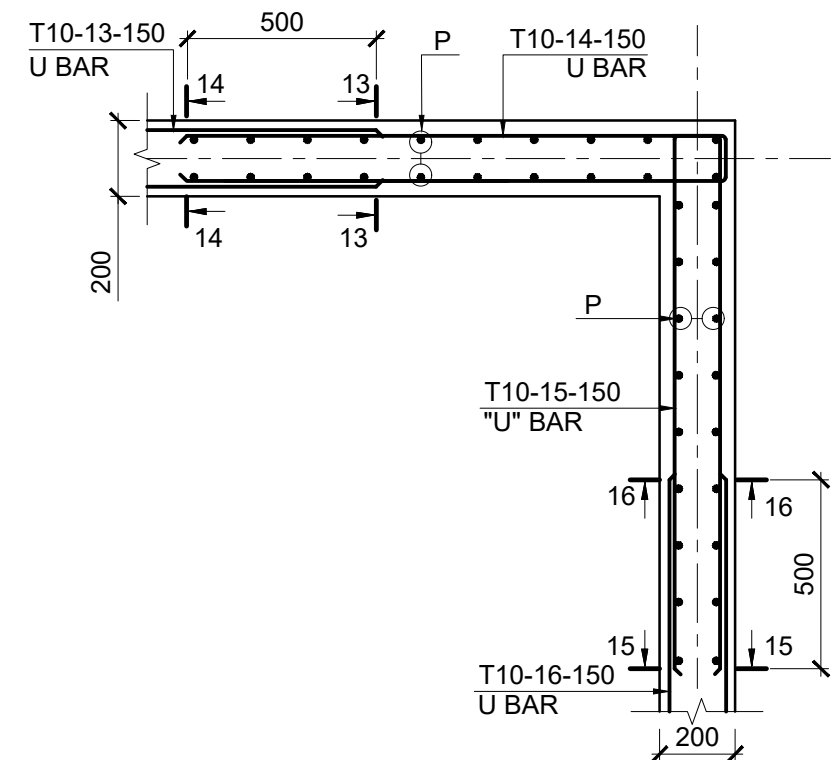
TENDERING ONLY



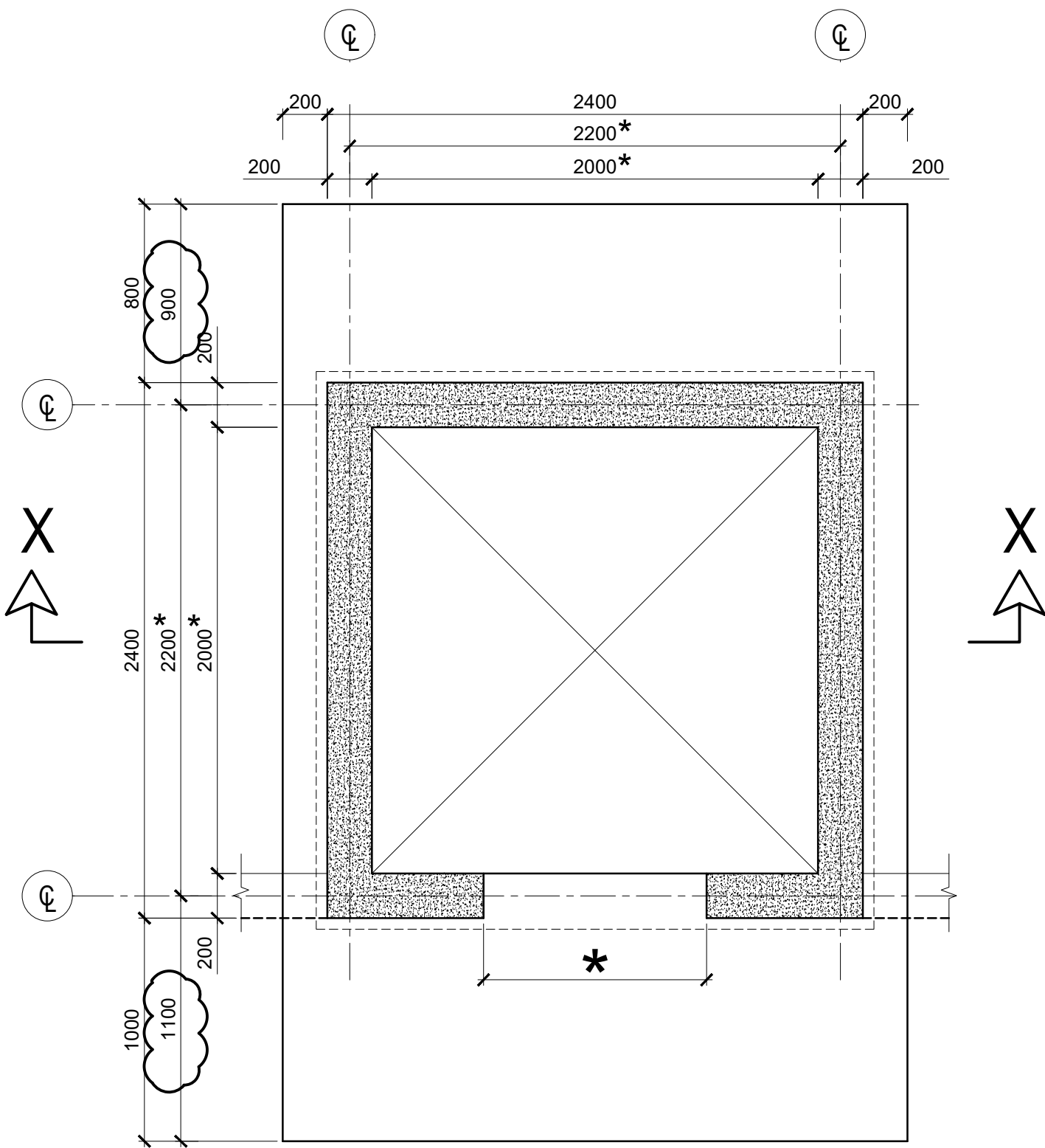
TYPICAL LIFT R/F SECTION ABOVE THE LIFT OPENING
SCALE 1:25



TYPICAL LIFT R/F SECTION THROUGH THE LIFT OPENING
SCALE 1:25

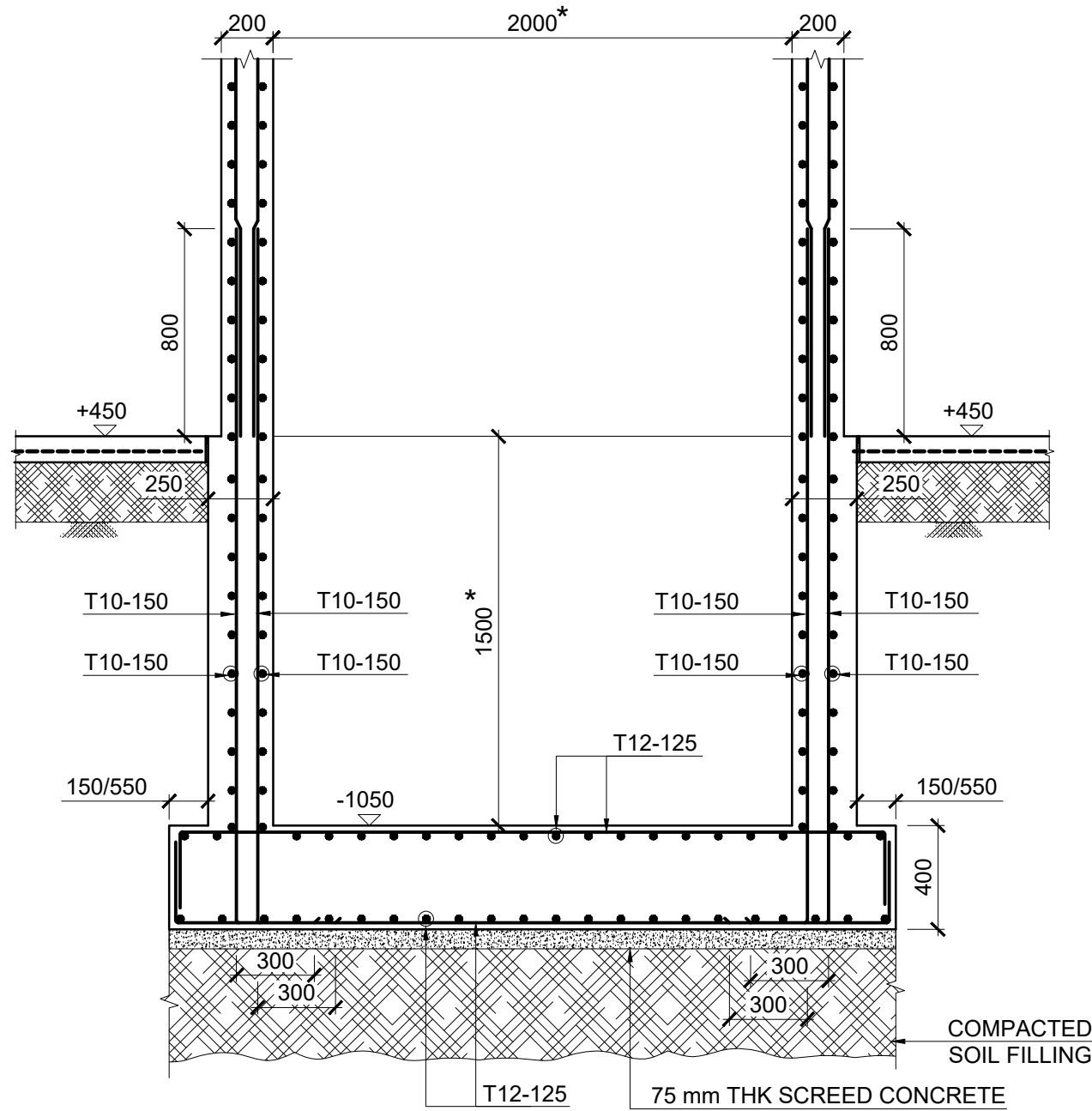


CONCRETE WALL CORNER DETAIL
SCALE 1 : 20



PLAN
SCALE 1:25

NOTE
01.*- SHALL BE AS PER THE LIFT MANUFACTURER'S SPECIFICATIONS.



LIFT R/F STARTER DETAIL SECTION VIEW
(SECTION X-X)
SCALE 1:25

NOTE
01.*- SHALL BE AS PER THE LIFT MANUFACTURER'S SPECIFICATIONS.

FLOOR	VERTICAL R/F (P)
GROUND FLOOR TO FIRST FLOOR LEVEL	T10-150
FIRST FLOOR TO ROOF SLAB LEVEL	T10-150

Key Map:

General Legend:

Drawing Notes:

2	2023.10.14	TENDERING ONLY	APV
1	2023.11.05	UNOPS PROJECT LEVEL COMMENTS INCORPORATED	APV
0	2023.09.22	PROPOSED	APV

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Project Name:

DESIGN SERVICES FOR PROPOSED
SACEP HQ BUILDING, COLOMBO, SRI
LANKA

Client:

SOUTH ASIA COOPERATIVE ENVIRONMENT
PROGRAMME (SACEP)

146, 24A HAVELOCK RD, COLOMBO 00500

Supported & Funded By:

THE WORLD BANK

PARLEY

Implementation:

UNOPS SOUTH ASIA MULTI OFFICE,
SRI LANKA

2 DON CARLOS RD,
COLOMBO 05, SRI LANKA

Design:

URO STRUCTURAL CONSULTANTS (PVT) LTD
CHARTERED CIVIL / STRUCTURAL ENGINEERS
114A, KOSWATTI RD, NAWALA, RAJAGIRIYA - PC 101
COLOMBO, SRI LANKA

Drawing Title:

STRUCTURAL DETAILS
LIFT PIT DETAILS

Project No.:	SUB No.:	Stage:	Discipline:	Subject:	Seq No.:
23583	01	TN	ST	ST	3905

Drawn:	Check:	Appr.:	Rev.:	Size:	Scale:	Issue Date:
GKW	SAV	APV	2	A1	-	2023.12.14

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