



**Save the Children**

# **Multipurpose Disaster Shelter Support (MPDS) Project**

## **SUPER STRUCTURAL DESIGN & DRAWINGS FOR**





CONSTRUCTION OF MULTIPURPOSE DISASTER SHELTER AT LAMA ADARSHO GOVERNMENT PRIMARY  
SCHOOL UNDER LAMA UPAZILA, DISTRICT: BANDARBAN

**SSI** Consultant:  
SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED  
1/12, Block G, Lalmatia, Dhaka

**Issued for Tender**

March, 2023

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NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<div><div></div><div>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div></div>	<div>Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban</div> <div>FUNDED BY: </div>	MPDS Engineering Team	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<div>Package No: SCI/MPDS/B10-19-01</div> <div>Revision No:</div> <div>Issued for Tender</div>	INDEX (SUPER STRUCTURE)	All Dimension are in Millimeter unless mentioned	SUP-00
				SCALE				
				As Shown				

NOTES

THESE NOTES ARE VALID FOR THE SUPER-STRUCTURAL DRAWINGS:

1. GENERAL INFORMATION:

- a) ALL STRUCTURAL DESIGN PARAMETERS ARE USED ACCORDING TO BNBC-2020.
- b) THE STRUCTURAL SYSTEM IS SPECIAL MOMENT RESISTING FRAME SYSTEM AND THE LATERAL FORCES ARE ANALYZED BY EQUIVALENT STATIC FORCE METHOD.
- c) FOLLOW BNBC-2020 FOR SPECIFICATIONS / STRUCTURAL REQUIREMENTS NOT MENTIONED IN THE DRAWINGS OR IN THIS NOTE SHEET.
- d) ANY DETAILS NOT SHOWN IN THE DRAWING SHOULD BE DONE ACCORDING TO BUILDING CODE & COMMENTARY - 2008, ACI 318-08/318R-08, OTHER LOADS AS PER BNBC 2020
- e) DESIGN METHOD: ☒ USD. ☐ WSD.
- f) ALL THE STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS.

2. LOAD CALCULATION DATA:

- a) ARIAL ZONE: ☒ BANDARBAN
- b) BASIC WIND SPEED: 62.5 m/s (FOR BANDARBAN)
- c) SEISMIC ZONE -3 (ZONE CO-EFFICIENT, Z=0.28)
- d) EXPOSURE CONDITION:☐ A ☐ B ☒ C

3. MATERIALS:

3a) ENGINEERING MATERIALS:

i) CEMENT:

ORDINARY PORTLAND CEMENT (PREFERABLE) CONFORMING TO BDS EN 197-1 : 2003 CEM-I 52.5N/ASTM C150 TYPE-1 OR PORTLAND COMPOSITE CEMENT CONFORMING TO BDS EN 197-1 : 2003 CEM II/AM, 42.5NCOULD BE USED AS SPECIFIED IN SPECIFICATION.

ii). FINE AGGREGATE (SAND):

LOCAL SAND (ANGULAR SHAPE) F.M = 1.2~1.8  
TO BE USED WALL, CEILING PLASTER & BRICK LAYING MORTAR.  
FILLING SAND (ANGULAR SHAPE) F.M = 0.5~0.7  
TO BE USED IN GROUND FLOOR FILLING, FOUNDATION FILLING ETC.

iii) COURSE AGGREGATE (CHIPS)

ALL COURSE AGGREGATE SIZE 20MM DOWN WELL GRADED OR OTHERWISE MENTION.  
LAA VALUE WILL NOT EXCEEDING 30 WHERE NOT MENTIONED.

iv) REINFORCEMENT:

- a) STEEL TO BE USED WITH YIELD STRENGTH  $f_y = 400$  MPa BUT NOT EXCEED 420 MPa DEFORMED BAR WITH MARKED BDS ISO 6935-2:2006
- b) ALL REINFORCEMENT SHOULD BE TESTED AS PER TESTING SCHEDULE AND ITEM SPECIFICATIONS.

v) BRICK:

- a) ALL BRICK SHOULD BE AS PER BDS 208 : 2009

vi) CONCRETE :

CONCRETE MIX. PROPORTIONS, MATERIALS AND DESIGN STRENGTH AT 28 DAY SHALL BE AS FOLLOWS OR MENTIONED IN SPECIFIC ITEM SPECIFICATIONS:

SL. NO.	REINFORCED CONCRETE MEMBER	MATERIALS	PROPOSED MIX PROPORTIONS(*)	CYLINDER CRUSHING STRENGTH (*)
01	COLUMN	<div><div>- CEM-I CEMENT, SAND WITH A MINIMUM F.M. OF 2.50, 20mm DUST-FREE DOWNGRADED CRUSHED STONE CHIPS</div><div>- SLUMP OF CONCRETE MIX: 75mm-100mm</div></div>	1:1.25:2.5	30 Mpa
02	FLOOR BEAM & SLAB			
03	O.H.W.T			
04	LINTEL, SUNSHADE, DROP WALL, FALSE SLAB ETC.	<div><div>- CEM-II CEMENT</div><div>- SAND WITH A MINIMUM F.M. OF 1.80</div><div>- 20 mm DOWN WELL GRADED PICKED BRICK CHIPS (LAA VALUE AND MAXIMUM WATER ABSORPTION NOT EXCEEDING 38 AND 15% RESPECTIVELY)</div><div>- SLUMP OF CONCRETE MIX:75 MM - 100 MM</div></div> <div>MATERIALS AS SPECIFIED IN THE DRAWING SECTION.</div>	1:2:4	17 Mpa

*\* MIX PROPORTION & COMPRESSIVE STRENGTH OF CONCRETE TO BE ENSURED BY MIX DESIGN & LABORATORY TEST AS PER TESTING SCHEDULE.*





vii) WATER:

POTABLE WATER TO BE USED IN CONCRETE MIX; W/C RATIO WILL NOT EXCEED 40%

Types of solids	Limits
Organic solids	≤ 200 mg/liter
Inorganic solids	≤ 3000 mg/liter
Sulphate	≤ 400 mg/liter
Chlorides	≤ 2000 mg/liter
Suspended matter	≤ 2000 mg/liter

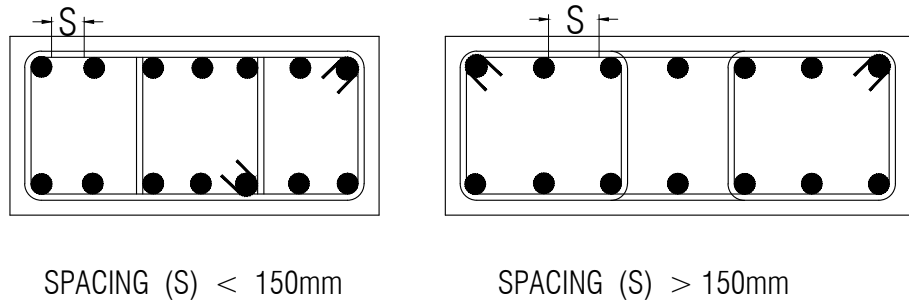
3b) NON ENGINEERING MATERIALS:

- i) POLYTHENE SHEET: 0.18 MM THICK SINGLE LAYER POLYTHENE SHEET TO BE USED BELOW FOUNDATION, SEPTIC TANK OR WHERE MENTIONED

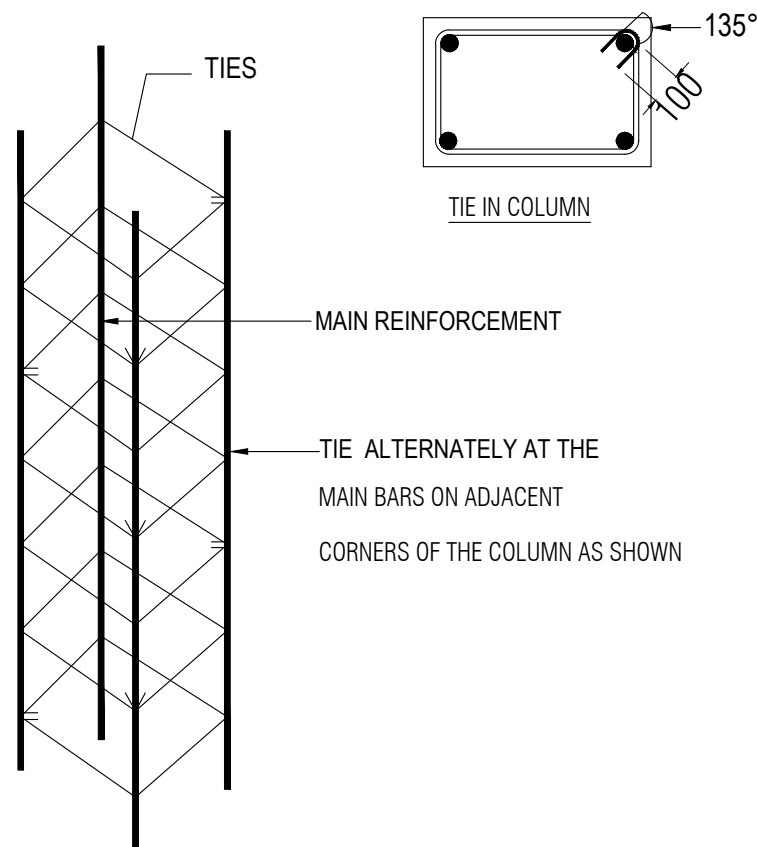
NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<div><div><div><div><div>USAID</div><div>FROM THE AMERICAN PEOPLE</div></div><div><div>care</div></div><div><div>GIZ</div></div><div><div>Save the Children</div></div></div><div>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div></div></div>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban	MPDS Engineering Team	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	Package No: SCI/MPDS/B10-19-01	GENERAL NOTES-1	All Dimension are in Millimeter unless mentioned	SUP-01
					Revision No:			SCALE
								As Shown
					Issued for Tender			
FUNDED BY: USAID								

4. COLUMN DETAILS:

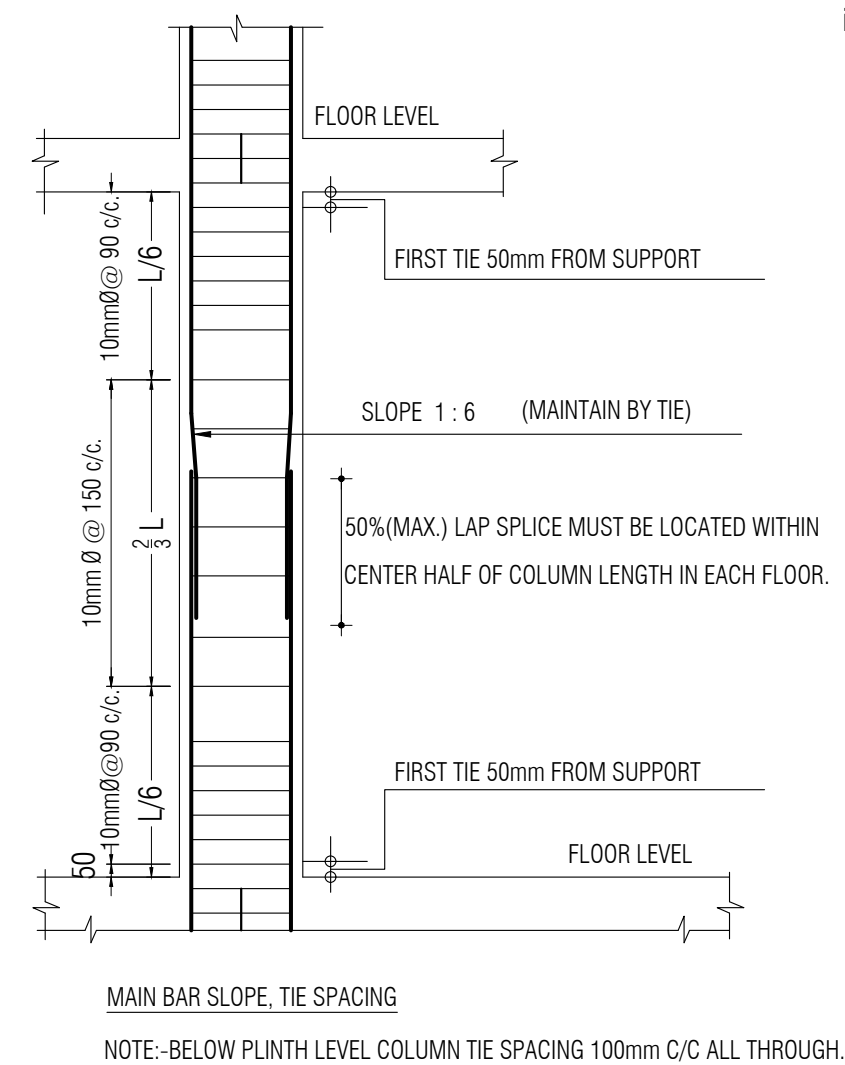
- i) MINIMUM MAIN BAR SPACING OF COLUMN: CLEAR DISTANCE BETWEEN LONGITUDINAL BARS SHALL NOT BE LESS THAN 1.5 TIMES BAR DIAMETER, 1.5 TIMES THE SIZE OF COARSE AGGREGATE OR 65mm
- ii) TIE ARRANGEMENTS IN COLUMN :



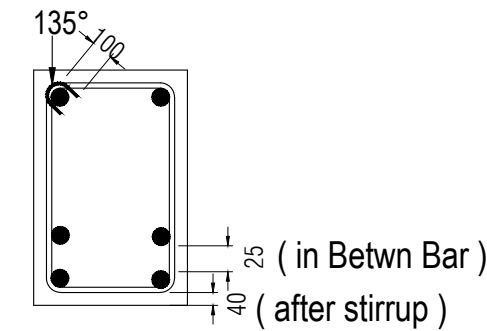
iii) TIE HOOK DETAIL :



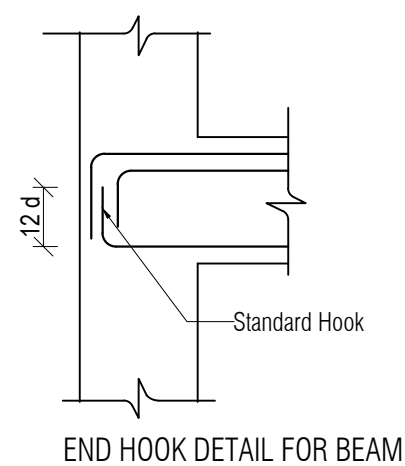
iv) VERTICAL SECTION OF COLUMN



iii) STIRRUP END DETAIL :






STIRRUP IN BEAM

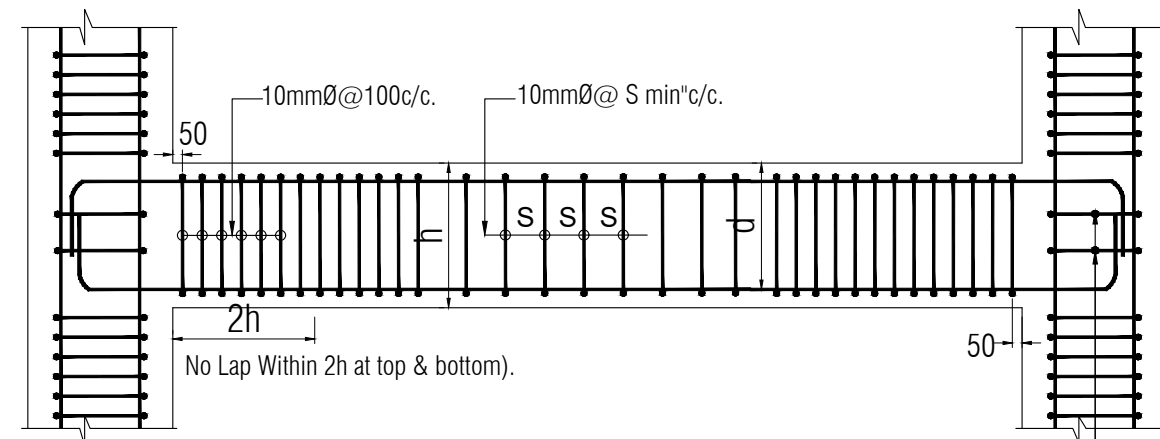


5. BEAM DETAILS:

- i) MAXIMUM BARS IN BEAMS IN SINGLE LAYER:
- MAXIMUM NUMBER OF BARS AS A SINGLE LAYER IN BEAM STEM SHALL BE AS PER BUILDING CODE & COMMENTARY - 2019 , ACI 318-19/318R-19, AS FOR EXAMPLE :
- FOR 250mm BEAM WIDTH - 3 NOS BAR IN SINGLE LAYER (UPTO 25mmØ BAR)
- FOR 300mm BEAM WIDTH - 4 NOS BAR IN SINGLE LAYER (UPTO 25mmØ BAR)
- ii) SPACER BARS: TO SUPPORT SECOND LAYER BARS IN BEAMS/SLABS, USE 25Ø SPACER BARS @ 750mm c/c WHERE REQUIRED.

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iv) ROOF BEAM & COLOUM JUNCTION DETAIL WITH STIRRUP SPACING PLACEMENT :



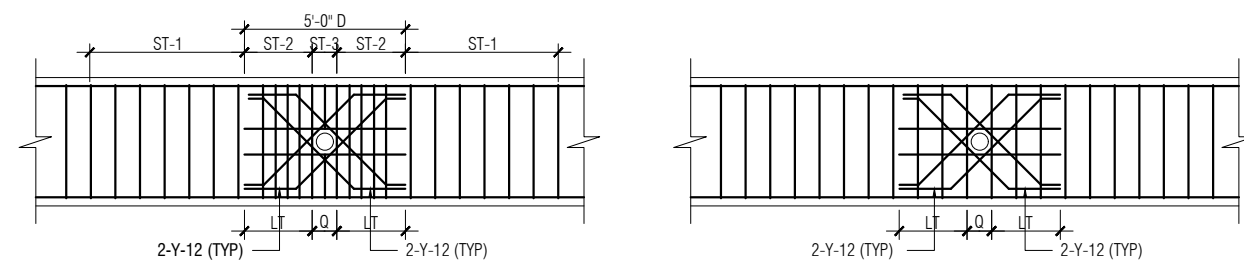
MIDDLE STIRRUP SMALLEST OF THE FOLLOWING

1.  $S = A_v f_y / 50 A_w$
2.  $S = d/2$
3.  $S = 600\text{mm}$

AT LEAST 2 NOS STIRRUP FOR BEAM SIZE 250X450  
AT LEAST 3 NOS STIRRUP FOR BEAM SIZE 250X600

v) LAP LOCATION :

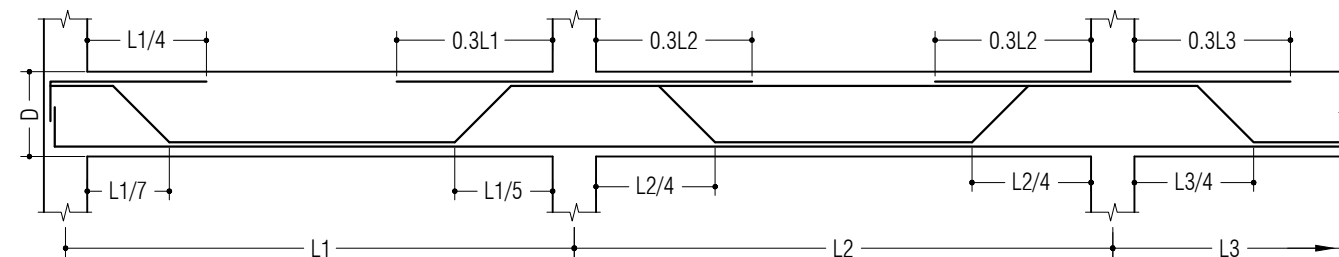
- a) FOR BEAM BOTTOM BAR, LAP NOT TO BE PROVIDED AT MIDDLE THIRD ZONE OF THE SPAN
- b) FOR BEAM TOP BAR, LAP MAY BE PROVIDED AT MIDDLE THIRD ZONE OF THE SPAN
- c) NOT MORE THAN 50%% OF THE BARS SHALL BE SPLICED AT ONE PLACE
- d) LAP SPLICES ARE TO BE CONFINED AY HOOPS WITH MAXIMUM SPACING OR PITCH OF  $d/4$  OR 100mm WHERE  $d$  IS THE EFFECTIVE DEPTH OF THE BEAM.
- e) FIRST STIRRUP SHOULD BE PLACED 50mm FROM COLUMN FACE & REMAINING STIRRUP SHOULD BE SHOWN AS ABOVE.



UTYPE-1 REINFORCEMENT BEAM OPENING

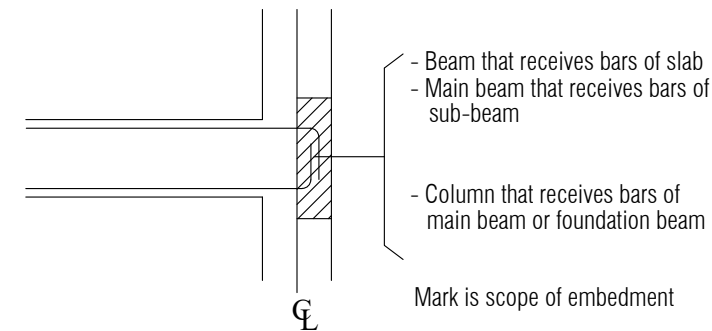
NOTE :  
ST-1=STIRRUP OF BEAM  
ST-2=STIRRUP OF BEAM @ 100mm c/c  
ST-3=STIRRUP OF BEAM @ 50mm c/c

TYPE-2 REINFORCEMENT BEAM OPENING

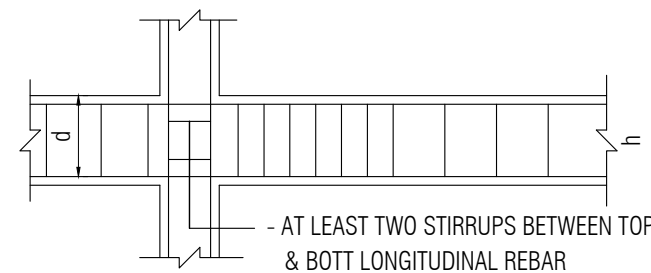


Standard Cutoff or bend points for bars in Beams and Slab  
for approximately equal spans with U.D.L.

vi) SCOPE OF EMBEDMENT

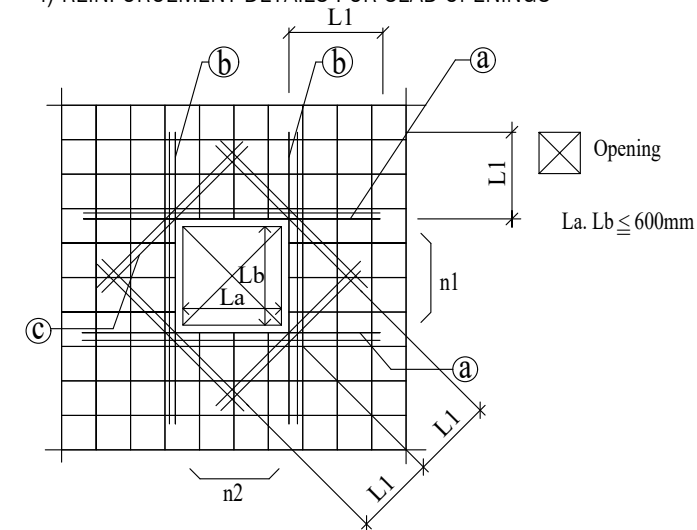


vii) REQUIREMENTS OF COLUMN TO BEAM JOINTS FOR EARTHQUAKE LOADING



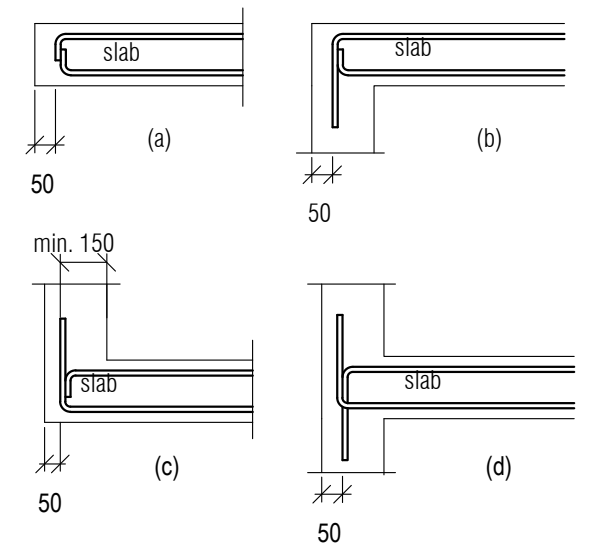
6. SLAB DETAILS:

i) REINFORCEMENT DETAILS FOR SLAB OPENINGS



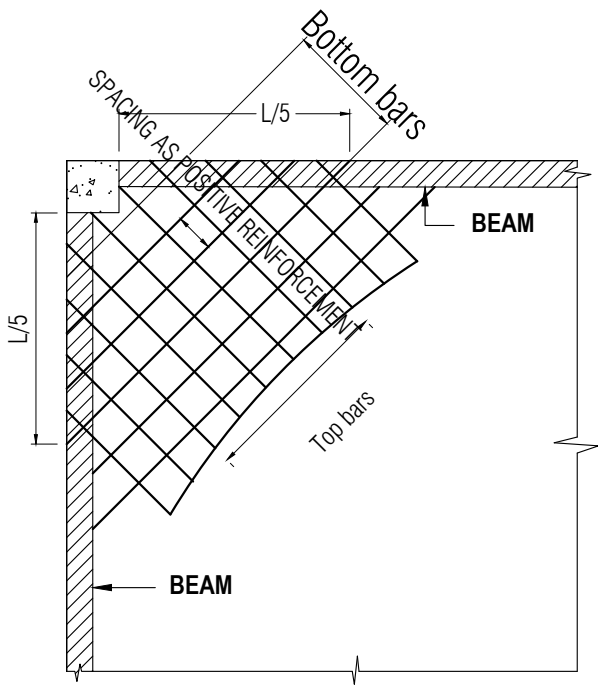
- $n1, n2$  : The number of bars which are cut off for opening
- a) The number of extra bars  $> n1/2$  (top and bottom bars)
  - b) The number of extra bars  $> n2/2$  (top and bottom bars)
  - c) The number of extra bars  $= 2-D12$  (top and bottom bars)

ii) SLAB END REINFORCING DETAILS:



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iii) SPECIAL REINFORCEMENT AT EXTERIOR CORNERS OF BEAM SUPPORTED TWO -WAY SLAB :



L=Longer clear span

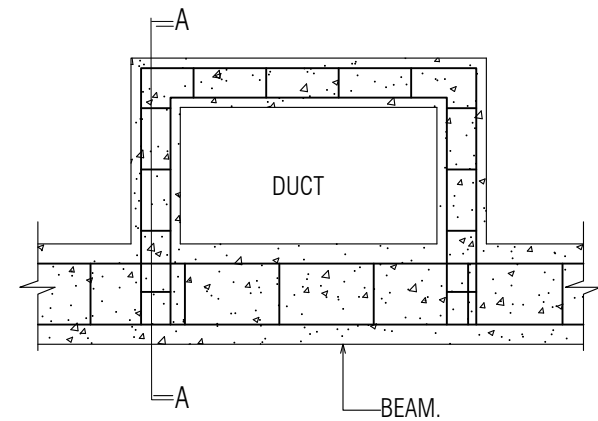
7. HOOK , ANCHORAGE & DEVELOPMENT LENGTH:

7a) HOOKS OF REBAR:

FOR ALL RE-BAR : PROVIDE 90° STANDARD HOOKS (L-BENT) IF NOT SHOWN IN THE DRAWINGS.

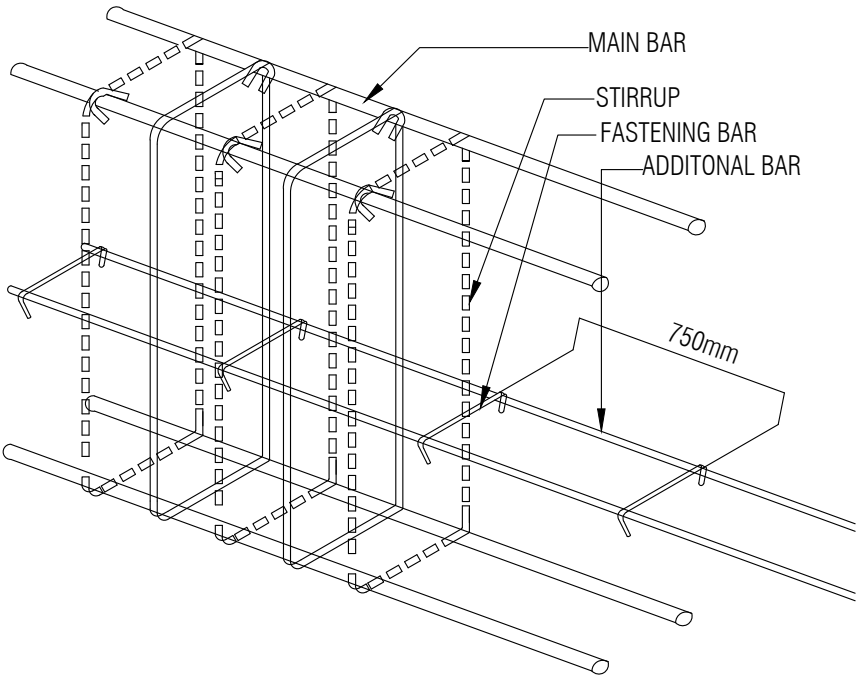
7b) DEVELOPMENT LENGTH:

ALL BEAM AND SLAB RE-BARS SHOULD BE EXTENDED INTO THE SUPPORT UPTO DEVELOPMENT LENGTH.



PLAN OF DUCT

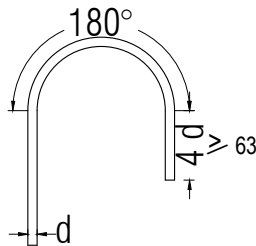
7c) END HOOK OF STIRRUPS:



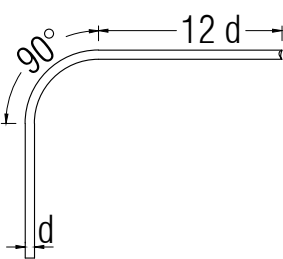
END HOOKS OF STIRRUPS ARE LOCATED ALTERNATELY AT TOP

7d) STANDARD BAR HOOKS :

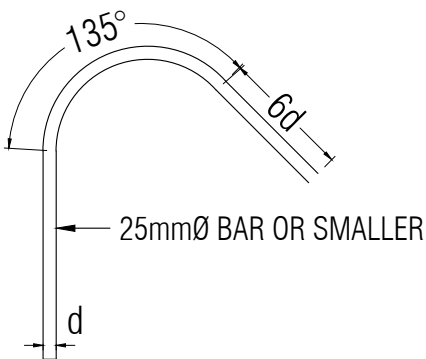
i) MAIN REINFORCEMENT (180° HOOK):



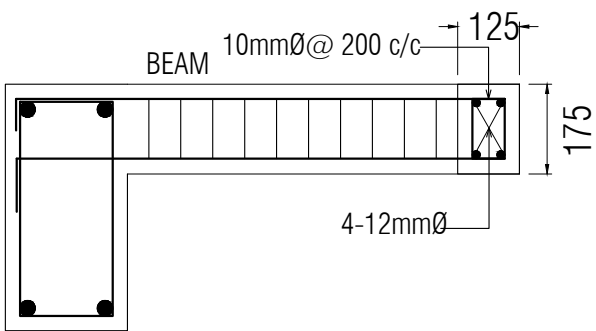
ii) MAIN REINFORCEMENT (90° HOOK):






iii) STIRRUPS AND TIES (135° HOOK) :



8. DUCT DETAILS (IF APPLICABLE):

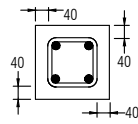
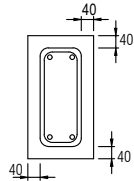
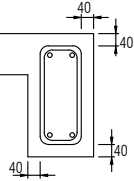
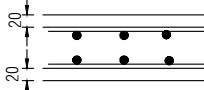
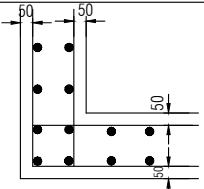


SECTION -A-A

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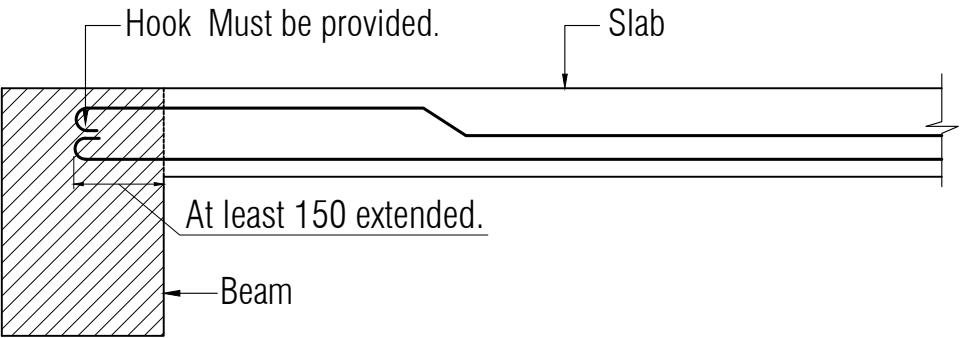
9. CONCRETE MINIMUM CLEAR COVER FOR REINFORCING BARS:






Member	Location / Condition	Thickness of Cover	Figure
Column	Above Ground Level	* 40	
Grade Beam	Indoors face : top, side & bottom	** 40	
	Outdoors face : top, side & bottom	** 40	
Beam	Indoors face : top, side & bottom	** 40	
	Outdoors face : top, side & bottom	** 40	
Slab and Stair	Top	20	
	Bottom	20	
Overhead water tank	Water face	50	
	Other face	50	

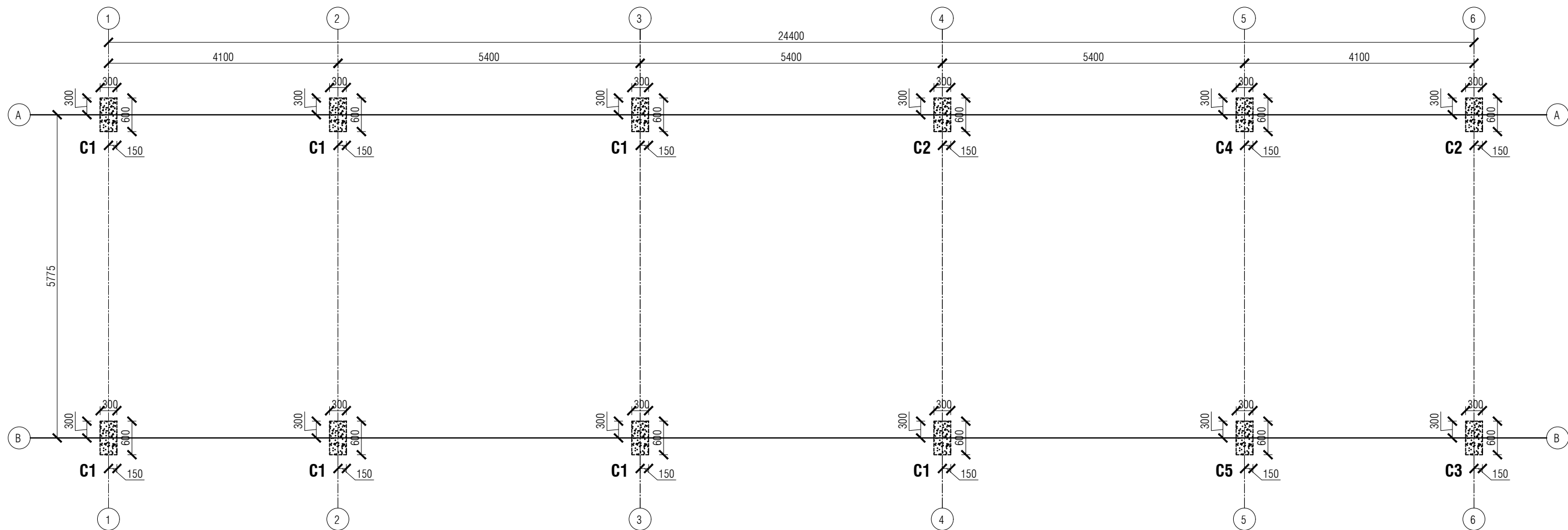
\* from tie    \*\* from stirrups

10. JOINT DETAIL:




10a) BEAM - SLAB DETAIL:



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					<p><b>Revision No:</b></p>			<p><b>SCALE</b></p>
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**COLUMN LAYOUT PLAN**  
SCALE: 1:75

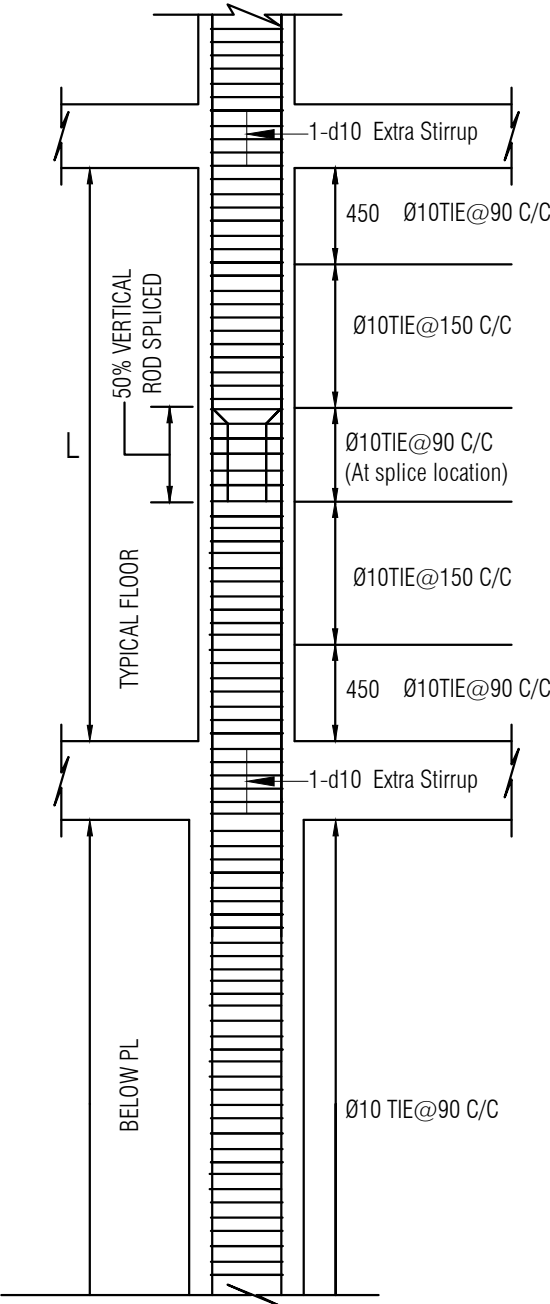
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COLUMN SCHEDULE:




COL.ID	Below PL	Above PL
C1	<div>370</div> <div>670</div> <div>75mm clear cover (From out side of Tie)</div> <div>● 4-20mmØ ○ 6-16mmØ Tie 10mmØ @90 c/c</div>	<div>300</div> <div>600</div> <div>40mm clear cover (From out side of Tie)</div> <div>● 4-20mmØ ○ 6-16mmØ Tie 10mmØ @90/150 c/c</div>
C2	<div>370</div> <div>670</div> <div>75mm clear cover (From out side of Tie)</div> <div>● 8-20mmØ ○ 4-16mmØ Tie 10mmØ @90 c/c</div>	<div>300</div> <div>600</div> <div>40mm clear cover (From out side of Tie)</div> <div>● 8-20mmØ ○ 4-16mmØ Tie 10mmØ @90/150 c/c</div>
C3	<div>370</div> <div>670</div> <div>75mm clear cover (From out side of Tie)</div> <div>● 10-20mmØ ○ 4-16mmØ Tie 10mmØ @90 c/c</div>	<div>300</div> <div>600</div> <div>40mm clear cover (From out side of Tie)</div> <div>● 10-20mmØ ○ 4-16mmØ Tie 10mmØ @90/150 c/c</div>
C4	<div>370</div> <div>670</div> <div>75mm clear cover (From out side of Tie)</div> <div>● 14-20mmØ Tie 10mmØ @90 c/c</div>	<div>300</div> <div>600</div> <div>40mm clear cover (From out side of Tie)</div> <div>● 14-20mmØ Tie 10mmØ @90/150 c/c</div>
C5	<div>370</div> <div>670</div> <div>75mm clear cover (From out side of Tie)</div> <div>● 14-20mmØ ○ 2-16mmØ Tie 10mmØ @90 c/c</div>	<div>300</div> <div>600</div> <div>40mm clear cover (From out side of Tie)</div> <div>● 14-20mmØ ○ 2-16mmØ Tie 10mmØ @90/150 c/c</div>

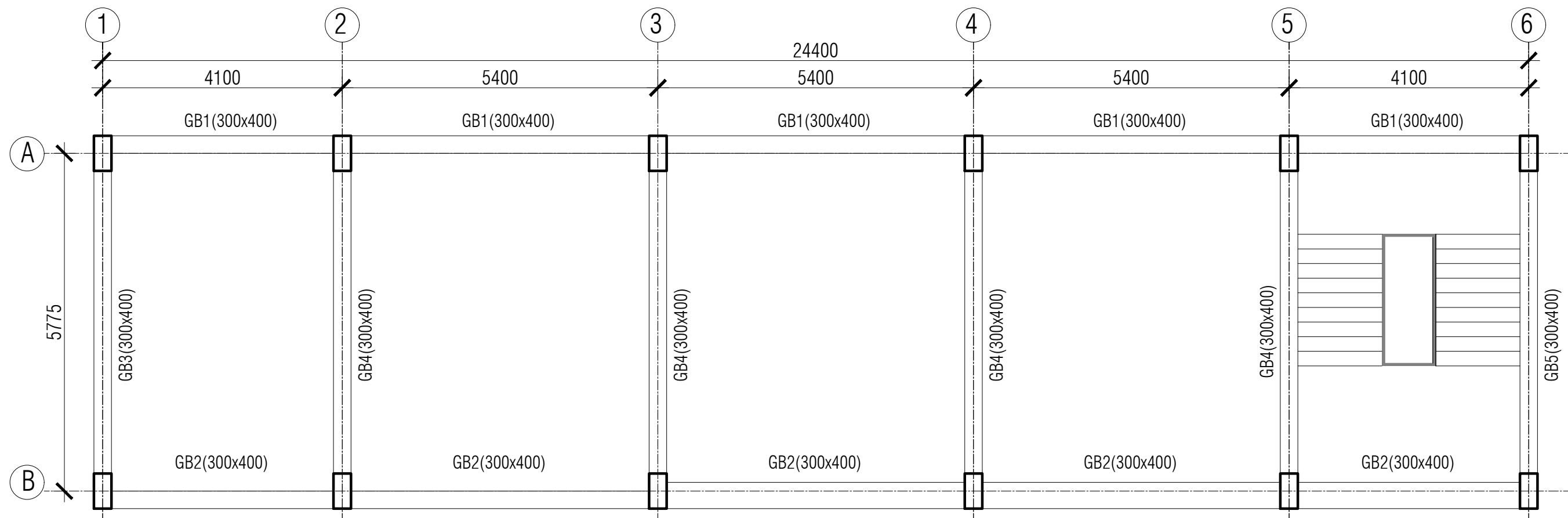
COLUMN TIE ARRANGEMENT




NOTES FOR CRUSHING STRENGTH OF CONCRETE

- Concrete Compressive Strength  $F_c'$  = 30 MPa. at 28 Days  
Proposed Mixing Ratio = 1:1.25:2.5 (Fixed)  
Maximum Water Cement Ratio = 0.40  
Cement (BDS EN 197-1 : 2003) = Ordinary Portland Cement (CEM-I)  
Admixture (ASTM-C494) = Type-F or approved by E-I-C  
Fine Aggregate (Sand) FM = 2.5  
Course Aggregate (Chips) = 20mm Down Well Graded Crushed stone  
LAA value for Course Aggregate =  $\leq 30$   
Mixing Method = Using Concrete Mixer

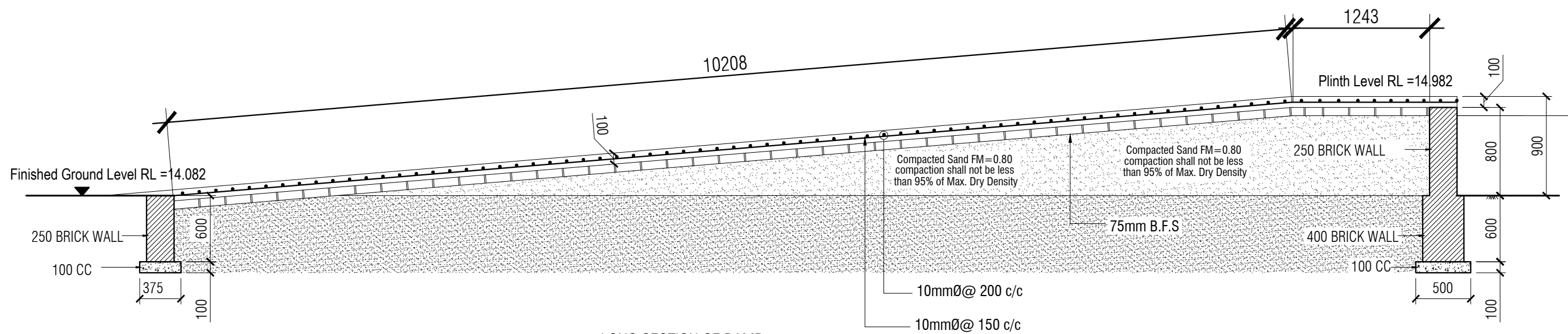
NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<div></div> <div>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	MPDS Engineering Team	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<div>Package No: SCI/MPDS/B10-19-01</div> <div>Revision No:</div> <div>Issued for Tender</div>	COLUMN SCHEDULE	All Dimension are in Millimeter unless mentioned	<div>SUP-07</div> <div>SCALE</div> <div>As Shown</div>



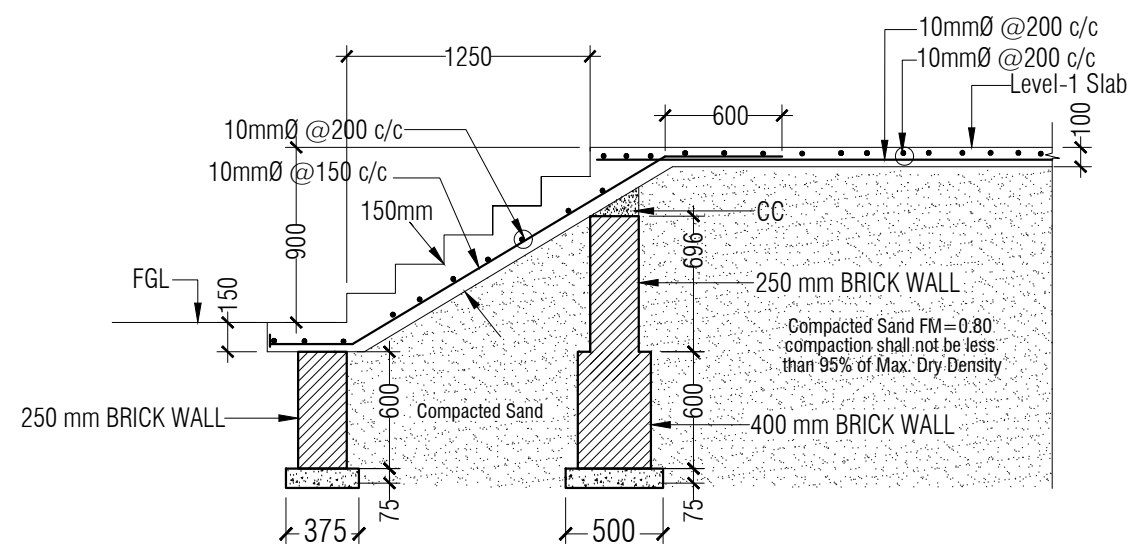
**GRADE BEAM LAYOUT PLAN**  
SCALE: 1:75

NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
 <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>MPDS Engineering Team</b>	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B10-19-01	<b>GRADE BEAM LAYOUT PLAN</b>	All Dimension are in Millimeter unless mentioned	<b>SUP-08</b>
					<b>Revision No:</b>			<b>SCALE</b>
					Issued for Tender			As Shown

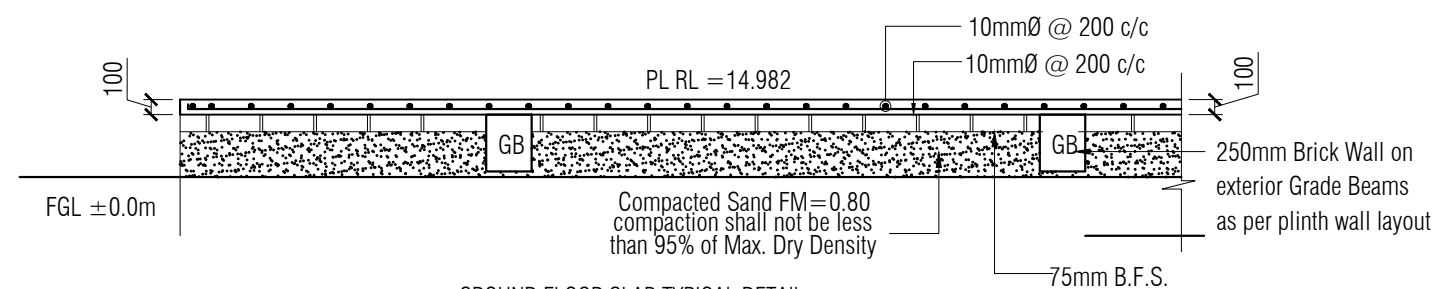




LONG SECTION OF RAMP






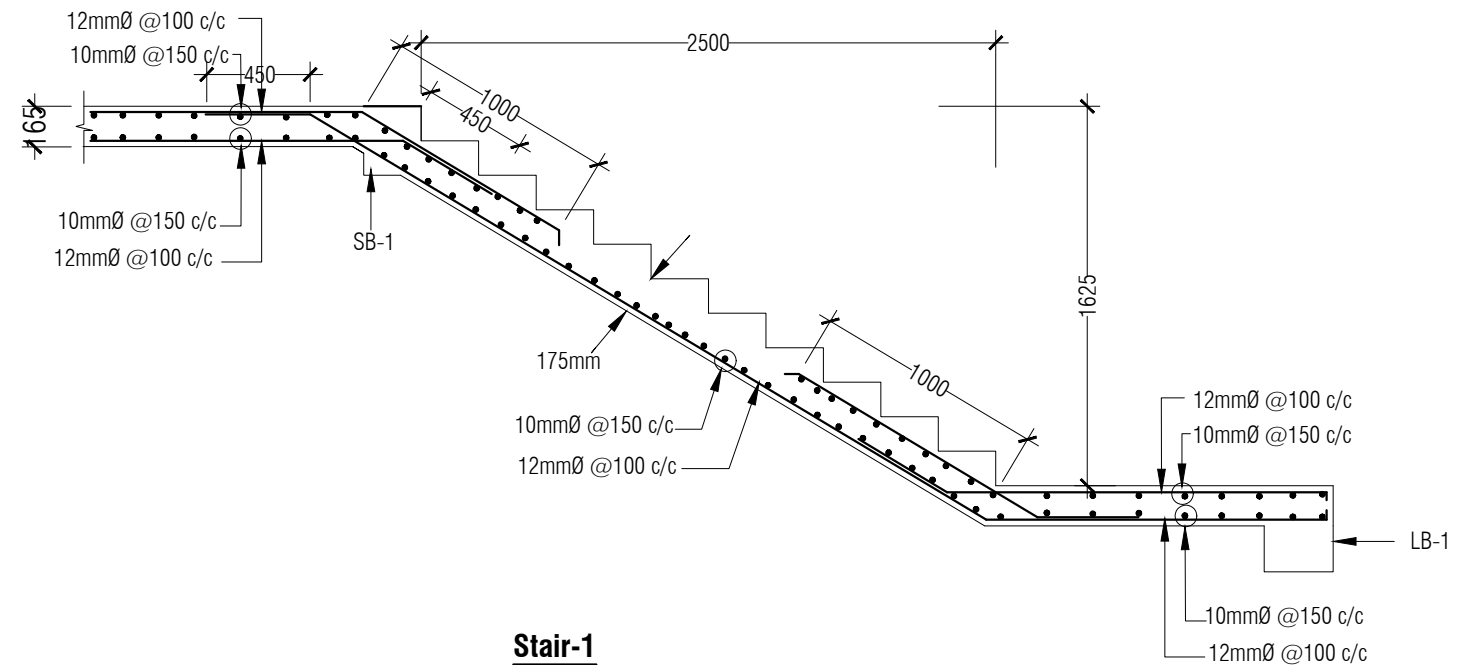
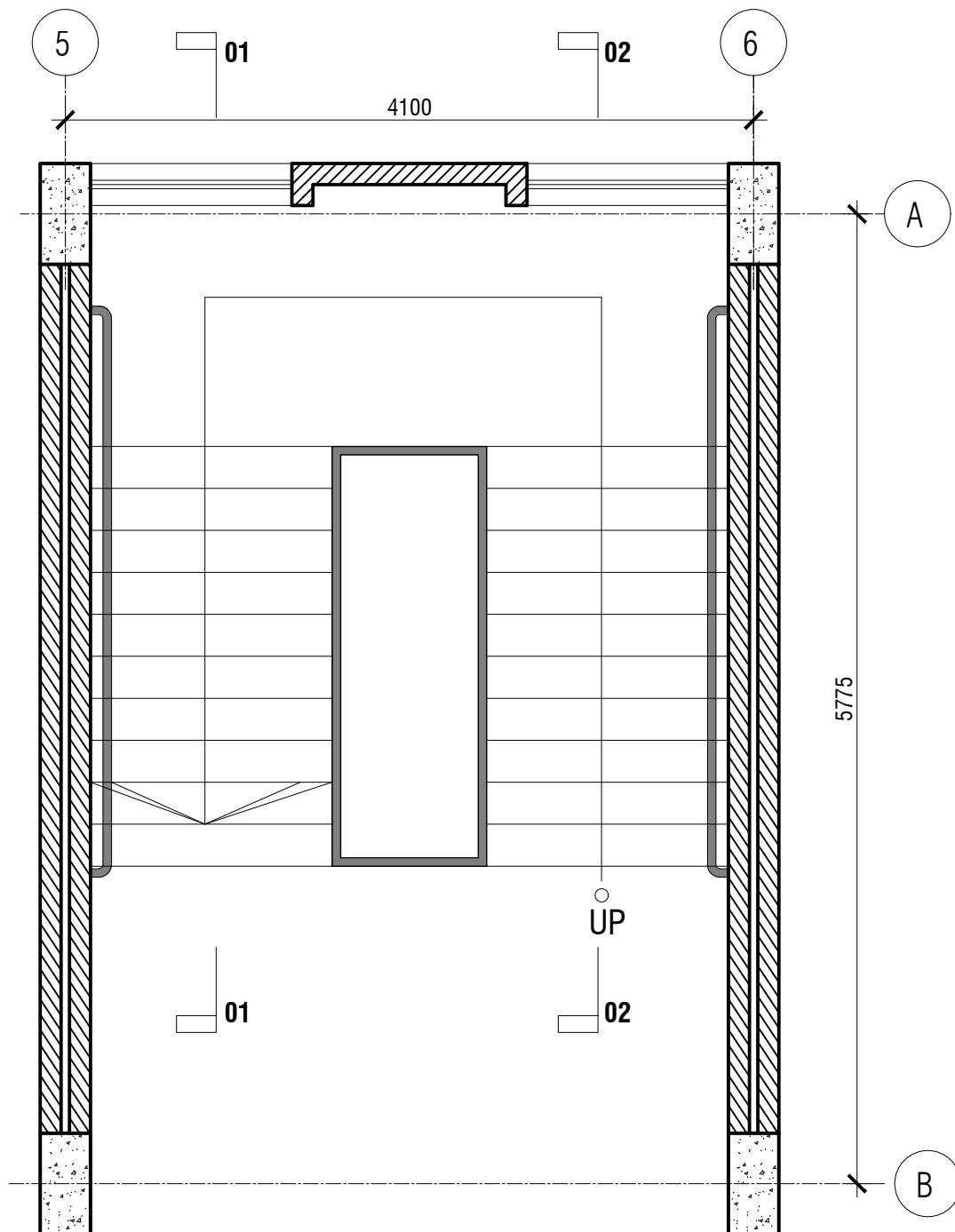
ENTRY STAIR DETAIL (X2-X2)



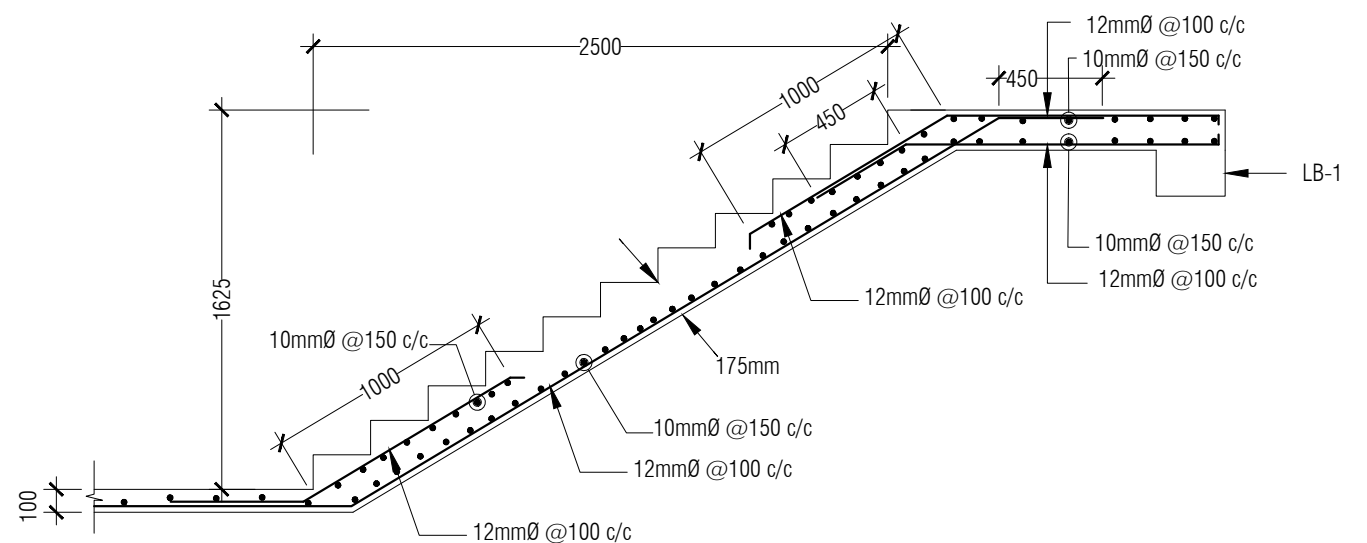
GROUND FLOOR SLAB TYPICAL DETAIL

**Note:**  
0.18 mm thick single layer polythene sheet to be used below the concrete

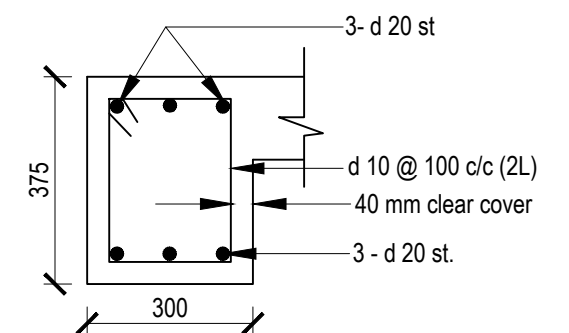
NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
   <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>MPDS Engineering Team</b>	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	Package No: SCI/MPDS/B10-19-01 Revision No: Issued for Tender	<b>RAMP &amp; ENTRY STAIR DETAIL SECTION</b>	All Dimension are in Millimeter unless mentioned	SUP-10 SCALE As Shown






**Stair-1**  
**2nd Flight Detail (Sec:02-02) TYPICAL**

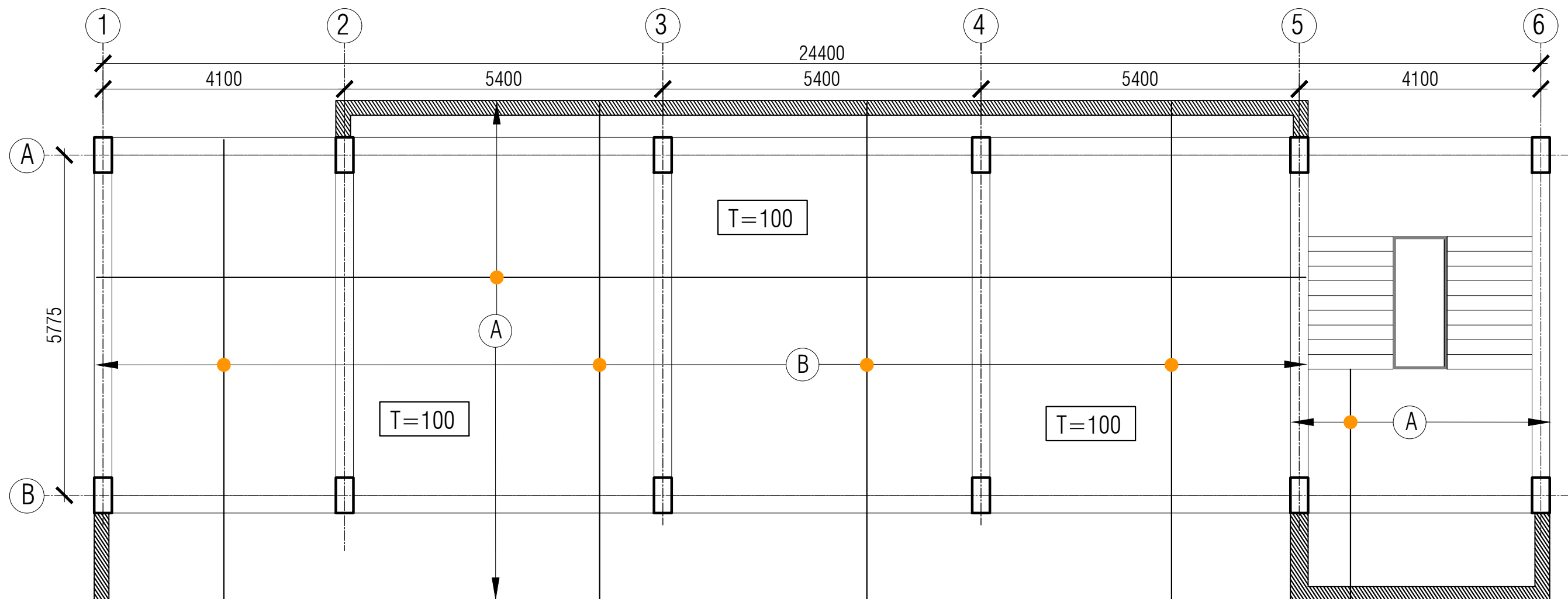


**Stair-1**  
**1st Flight Detail ( Sec:01-01)**



**LANDING BEAM LB-1**  
**SECTION**

NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
   <b>MULTIPURPOSE DISASTER SHELTER</b> <b>SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>MPDS Engineering Team</b>	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	Package No: SCI/MPDS/B10-19-01 Revision No: Issued for Tender	<b>REINF. DETAILS OF</b> <b>STAIR-1</b>	All Dimension are in Millimeter unless mentioned	SUP-11 <b>SCALE</b> As Shown




**GROUND FLOOR SLAB REINFORCEMENT LAYOUT**

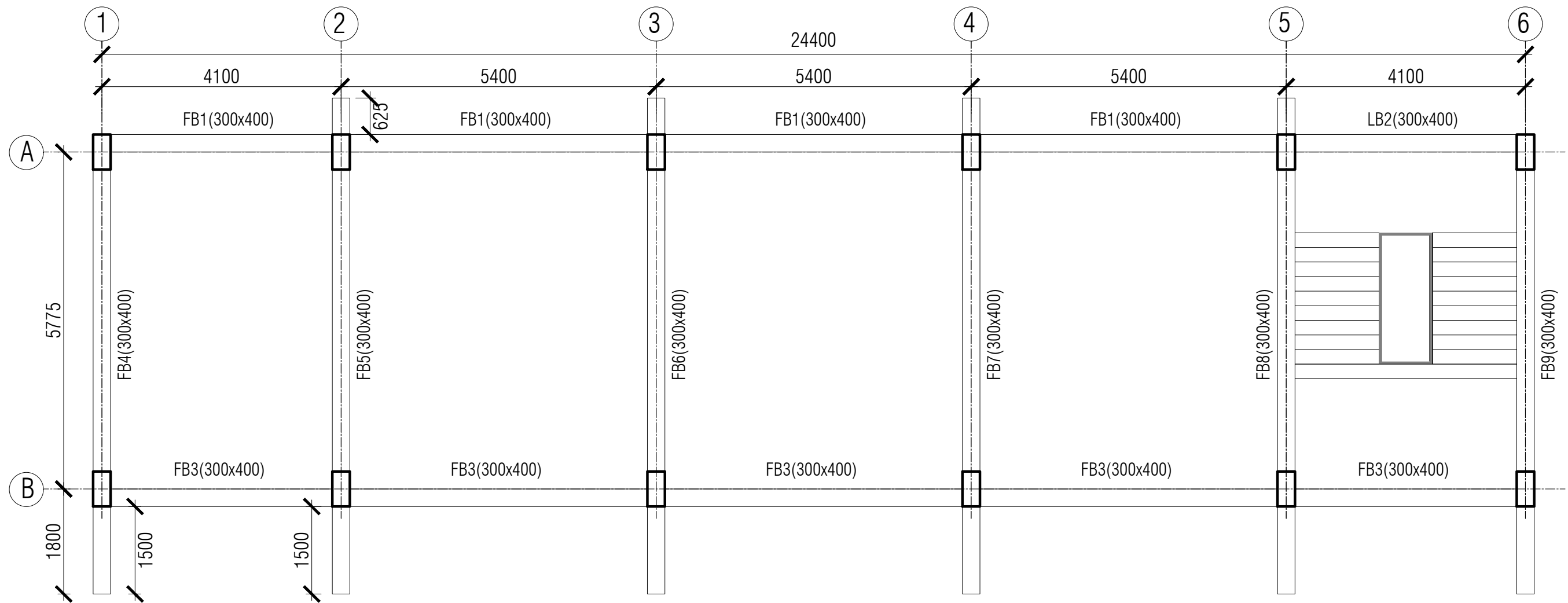
SCALE: 1:75

Slab Thickness is 100 mm  
F'c = 17 MPa

BAR LEGEND :  
(A) 10mmØ @200mmc/c  
(B) 10mmØ @200mmc/c




NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
 <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>MPDS Engineering Team</b>	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B10-19-01 <b>Revision No:</b> Issued for Tender	<b>GROUND FLOOR SLAB REINFORCEMENT LAYOUT</b>	All Dimension are in Millimeter unless mentioned	SUP-12 SCALE As Shown

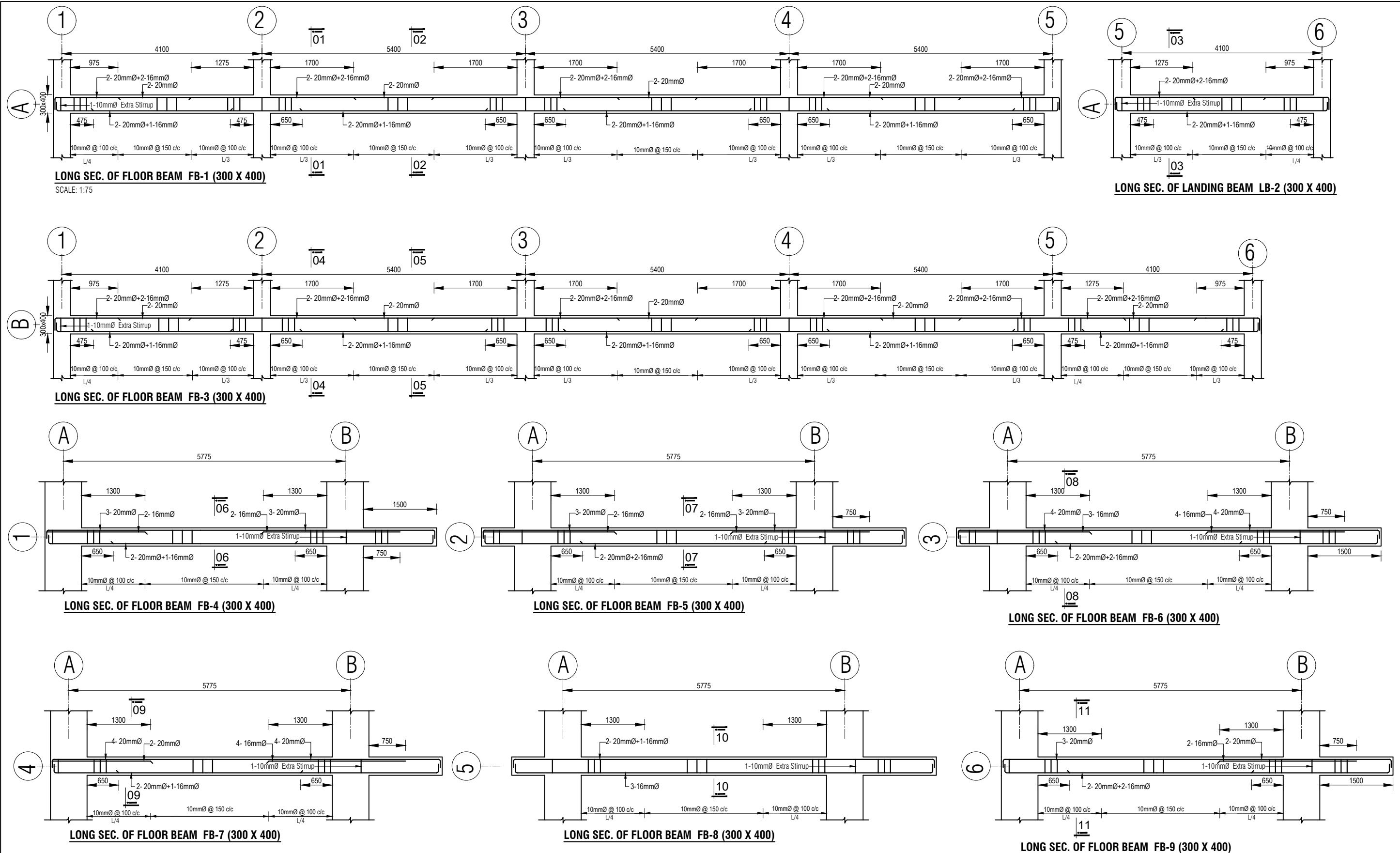




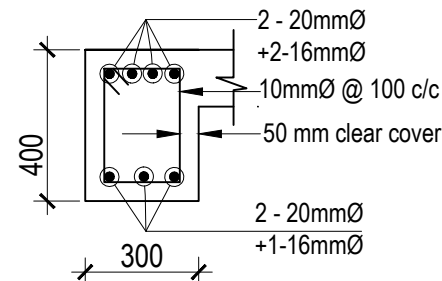
# FLOOR BEAM LAYOUT PLAN

SCALE: 1:75

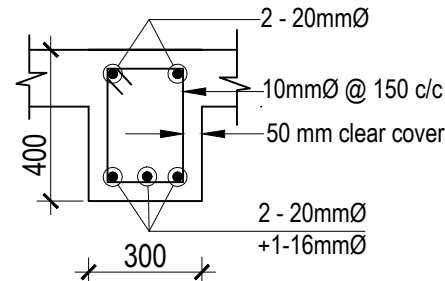
NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<div><div></div><div>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div></div>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	MPDS Engineering Team	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	Package No: SCI/MPDS/B10-19-01	1ST FLOOR BEAM LAYOUT PLAN	All Dimension are in Millimeter unless mentioned	SUP-13
					Revision No:			SCALE
								As Shown
					Issued for Tender			



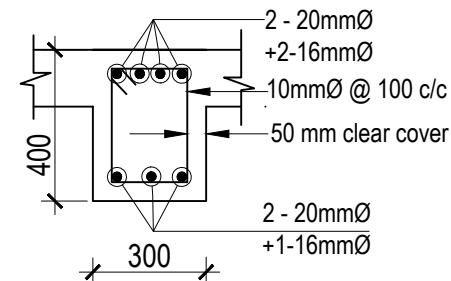
NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>MPDS Engineering Team</b>	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	Package No: SCI/MPDS/B10-19-01 Revision No: Issued for Tender	<b>1ST FLOOR BEAM REINFORCEMENT DETAIL-I</b>	All Dimension are in Millimeter unless mentioned	SUP-14 SCALE As Shown



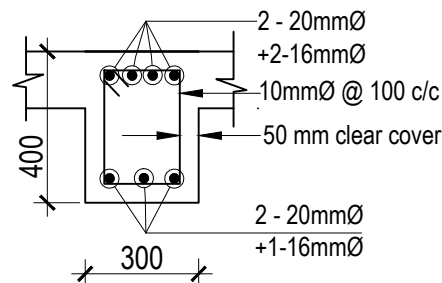
**SECTION: 01-01**  
SCALE: 1:20



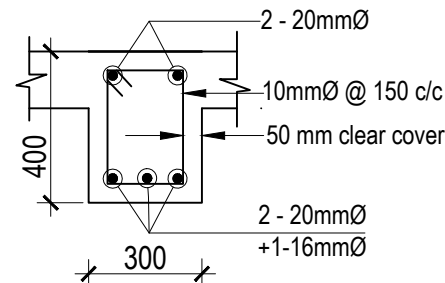
**SECTION: 02-02**



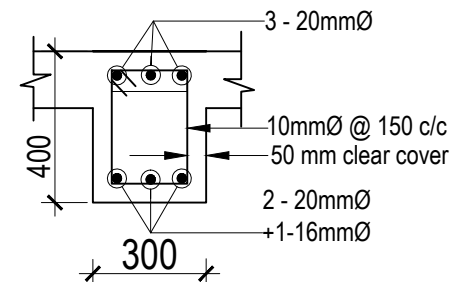
**SECTION: 03-03**



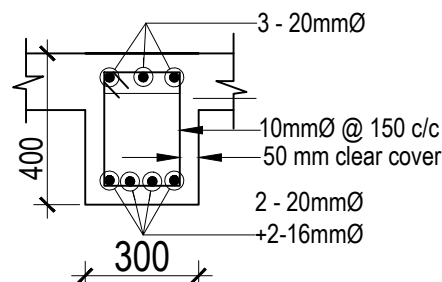
**SECTION: 04-04**



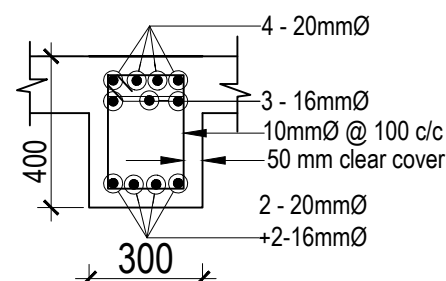
**SECTION: 05-05**



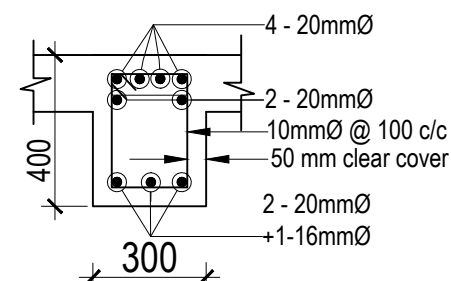
**SECTION: 06-06**



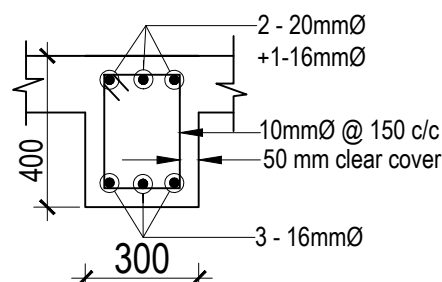
**SECTION: 07-07**



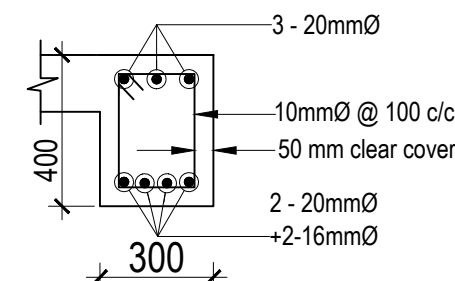
**SECTION: 08-08**






**SECTION: 09-09**

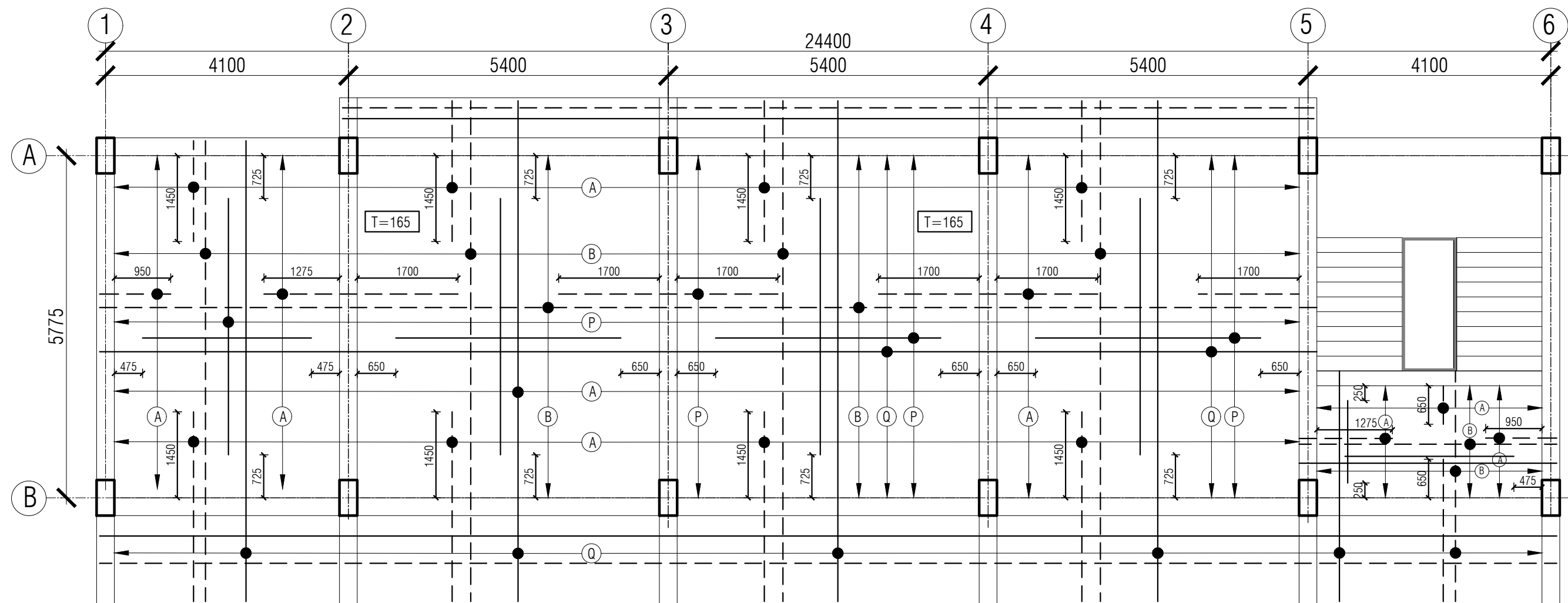


**SECTION: 10-10**



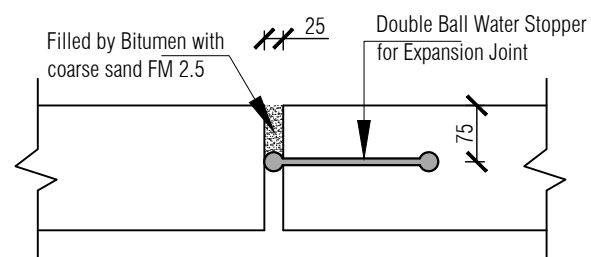
**SECTION: 11-11**

NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
   <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>MPDS Engineering Team</b>	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B10-19-01 <b>Revision No:</b> Issued for Tender	<b>1ST FLOOR BEAM SECTIONS</b>	All Dimension are in Millimeter unless mentioned	<b>SUP-15</b> <b>SCALE</b> As Shown

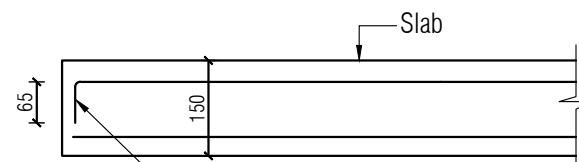


## FLOOR SLAB REINFORCEMENT DETAIL

SCALE: 1:75



Detail of Expansion Joint



65 mm Hook Must be provided.  
STANDARD END HOOK FOR TOP BAR

Slab Thickness is 165 mm  
Unless Mentioned otherwise

### LEGEND

#### BOTTOM BAR LEGENDS :

(P) 10mmØ @ 250mm c/c Alt with Q  
(Q) 10mmØ @ 250mm c/c

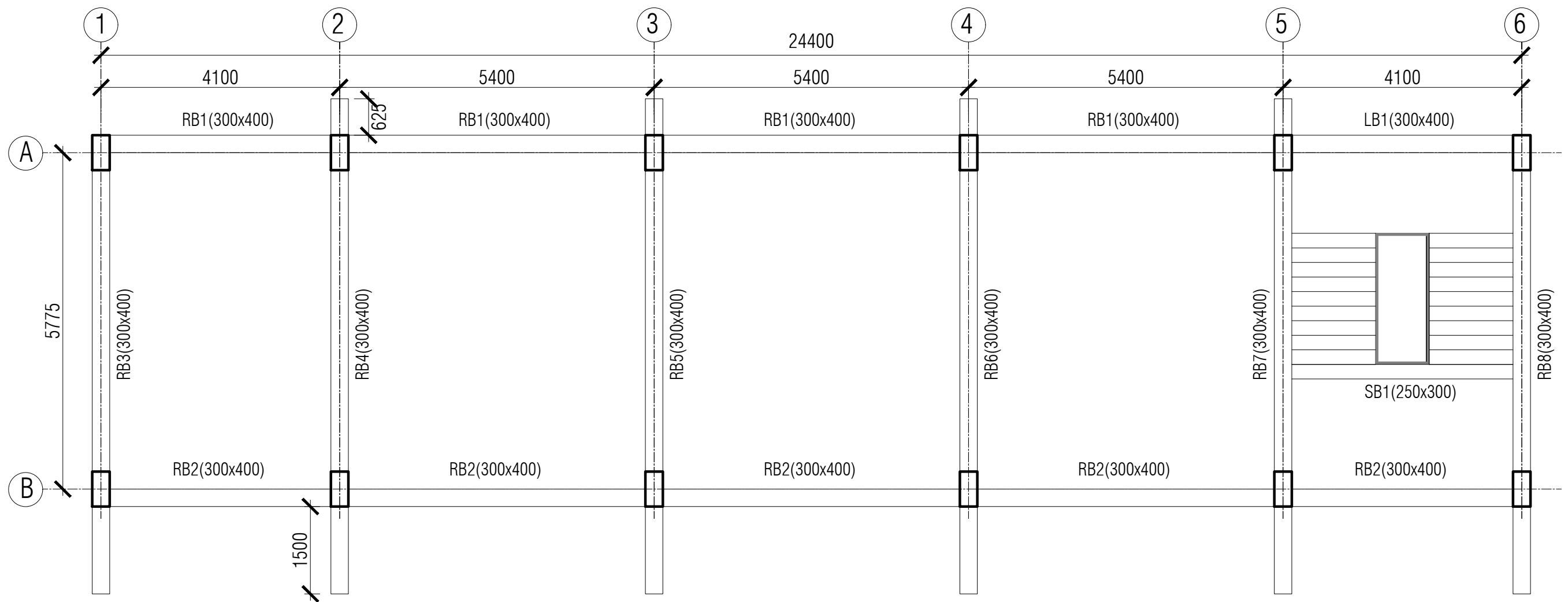
#### TOP BAR LEGENDS :

(A) 2-12mmØ in between (B)  
(B) 10mmØ @ 275 mm c/c




Binder: 10mmØ@ 250 mm c/c where require

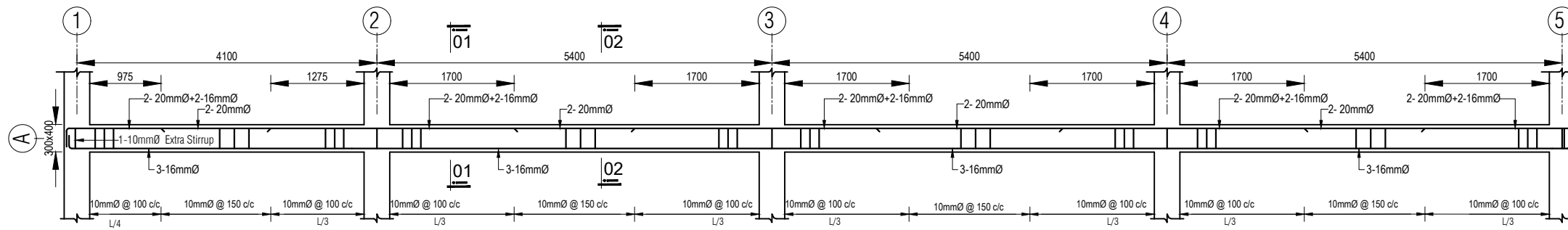
CLEAR COVER OF BOTT. REINF. 20mm  
CLEAR COVER OF TOP REINF. 40mm.

NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<p><b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b></p>	<p>Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban</p> <p><b>FUNDED BY: USAID</b></p>	<p><b>MPDS Engineering Team</b></p>	<p>MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International</p>	<p>TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh</p>	<p><b>Package No:</b> SCI/MPDS/B10-19-01</p> <p><b>Revision No:</b></p> <p>Issued for Tender</p>	<p><b>1ST FLOOR SLAB REINFORCEMENT DETAIL</b></p>	<p>All Dimension are in Millimeter unless mentioned</p>	<p><b>SUP-16</b></p> <p><b>SCALE</b></p> <p>As Shown</p>



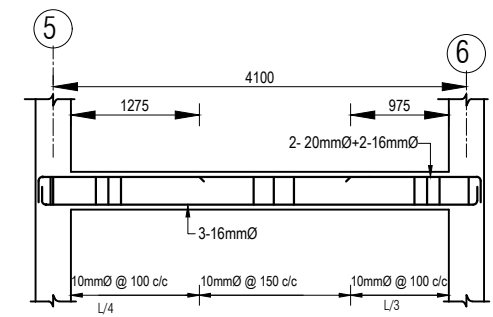
**ROOF BEAM LAYOUT PLAN**  
SCALE: 1:75

NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<div><b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b></div>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>MPDS Engineering Team</b>	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B10-19-01	<b>ROOF BEAM LAYOUT PLAN</b>	All Dimension are in Millimeter unless mentioned	<b>SUP-17</b>
					<b>Revision No:</b>			<b>SCALE</b>
								<b>As Shown</b>
					Issued for Tender			

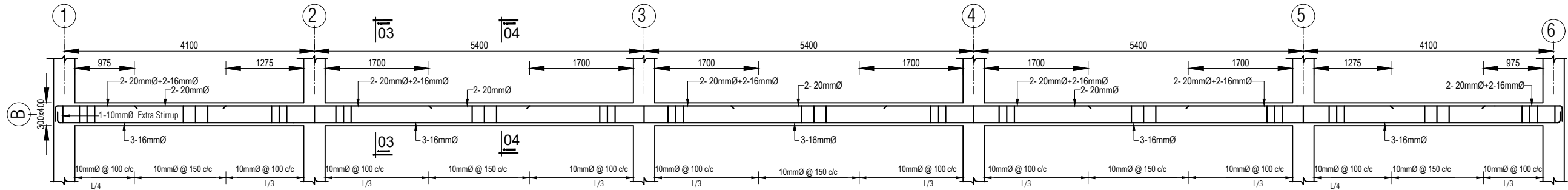


**LONG SEC. OF ROOF BEAM RB-1 (300 X 400)**

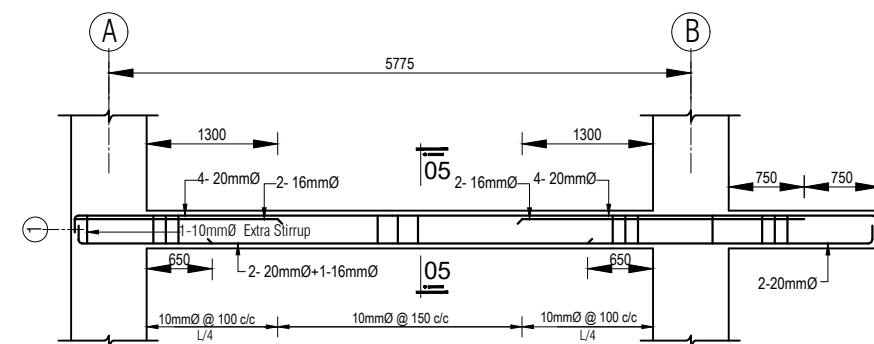
SCALE: 1:75



**LONG SEC. OF LANDING BEAM LB-1 (300 X 400)**

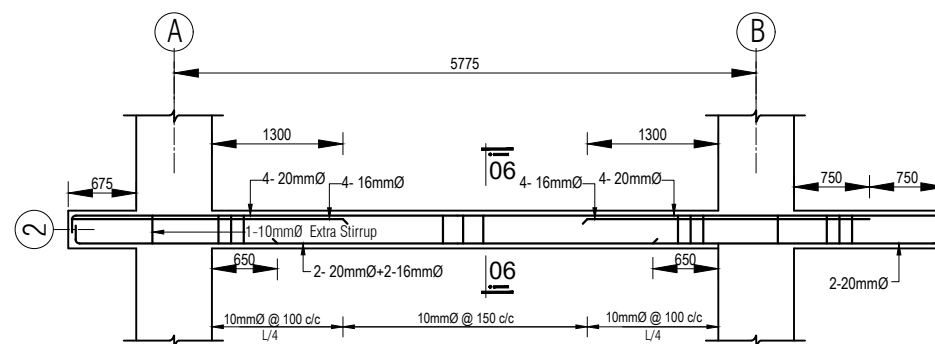


**LONG SEC. OF ROOF BEAM RB-2 (300 X 400)**



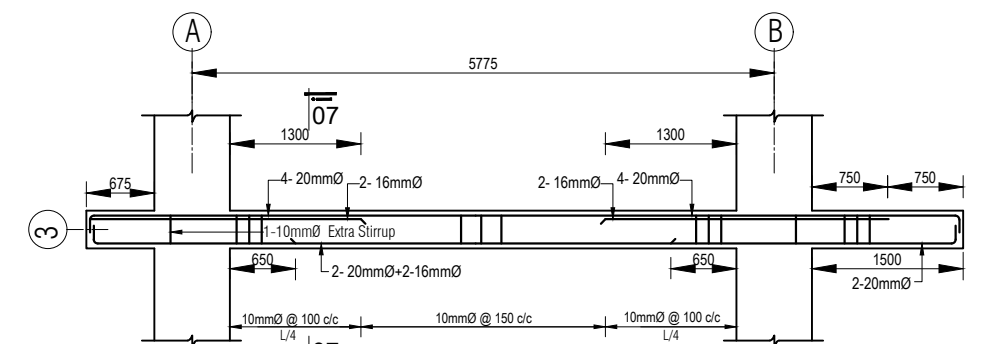
**LONG SEC. OF ROOF BEAM RB-3 (300 X 400)**

SCALE: 1:75

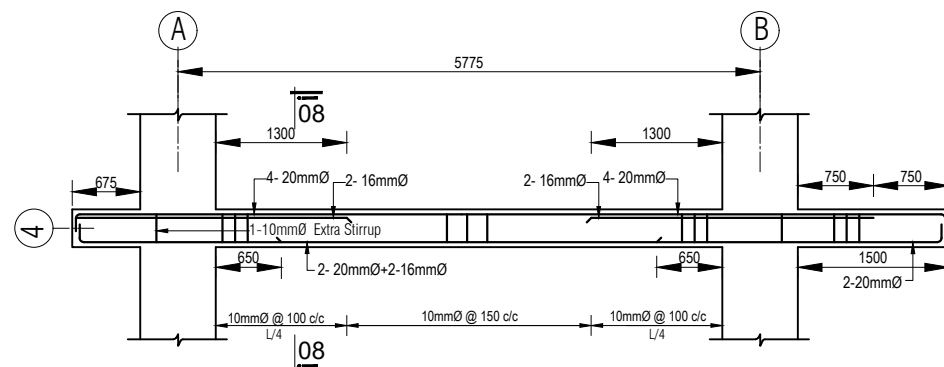


**LONG SEC. OF ROOF BEAM RB-4 (300 X 400)**

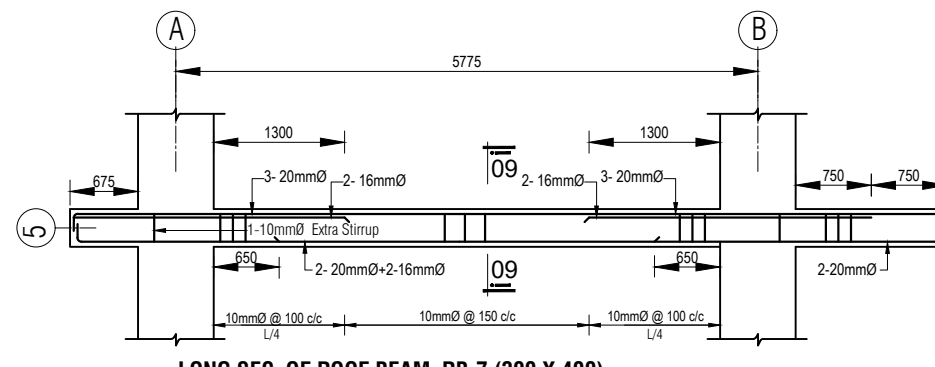
SCALE: 1:75



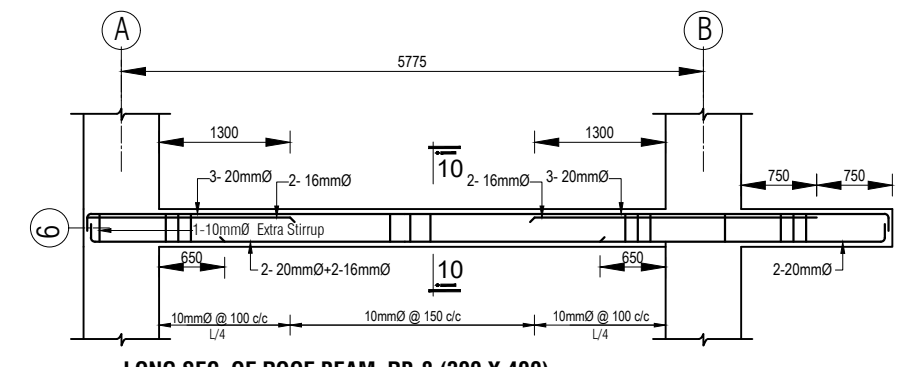
**LONG SEC. OF ROOF BEAM RB-5 (300 X 400)**






**LONG SEC. OF ROOF BEAM RB-6 (300 X 400)**



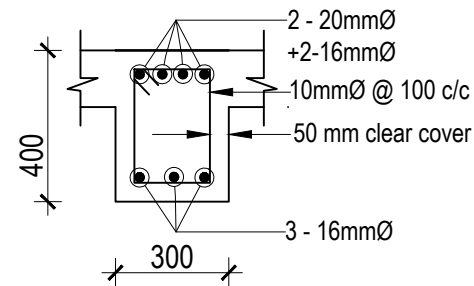
**LONG SEC. OF ROOF BEAM RB-7 (300 X 400)**



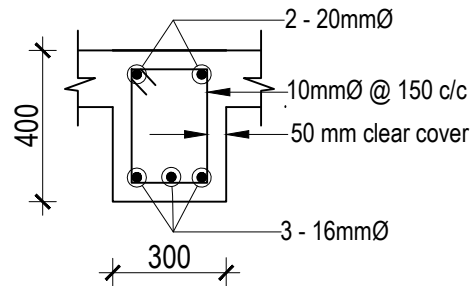
**LONG SEC. OF ROOF BEAM RB-8 (300 X 400)**

NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO:	DRAWING TITLE:	SHEET NO:
   <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>MPDS Engineering Team</b>	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B10-19-01 <b>Revision No:</b> Issued for Tender	<b>ROOF BEAM REINFORCEMENT DETAIL-I</b> All Dimension are in Millimeter unless mentioned	<b>SUP-18</b> <b>SCALE</b> As Shown

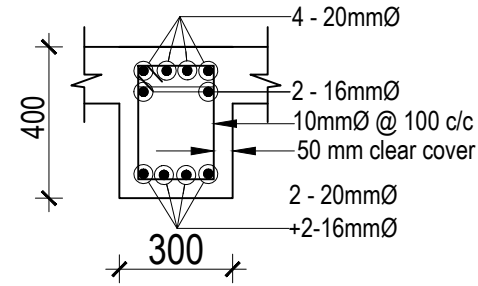




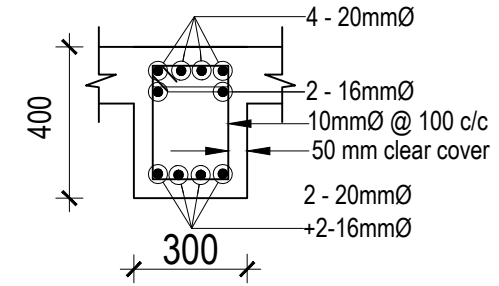
**SECTION: 01-01**  
SCALE: 1:30



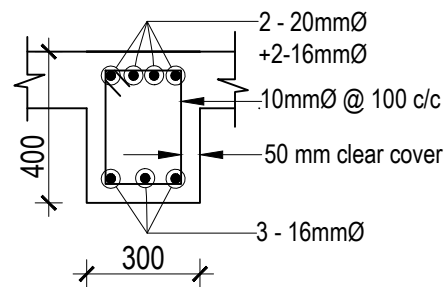
**SECTION: 02-02**



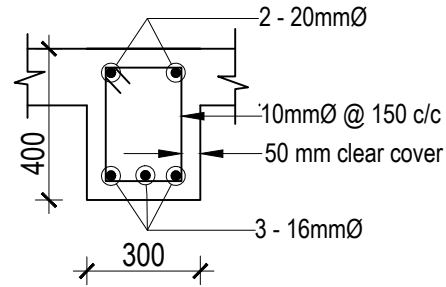
**SECTION: 07-07**



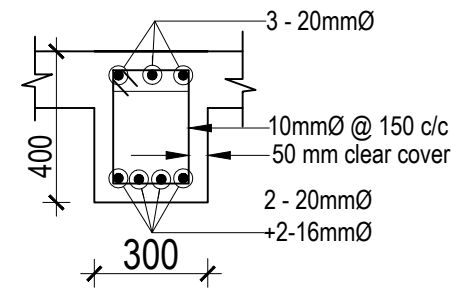
**SECTION: 08-08**



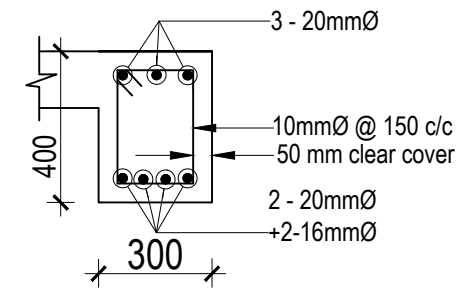
**SECTION: 03-03**



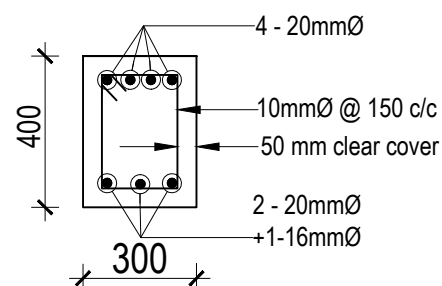
**SECTION: 04-04**



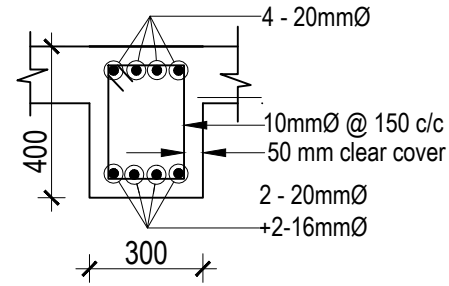
**SECTION: 09-09**






**SECTION: 10-10**

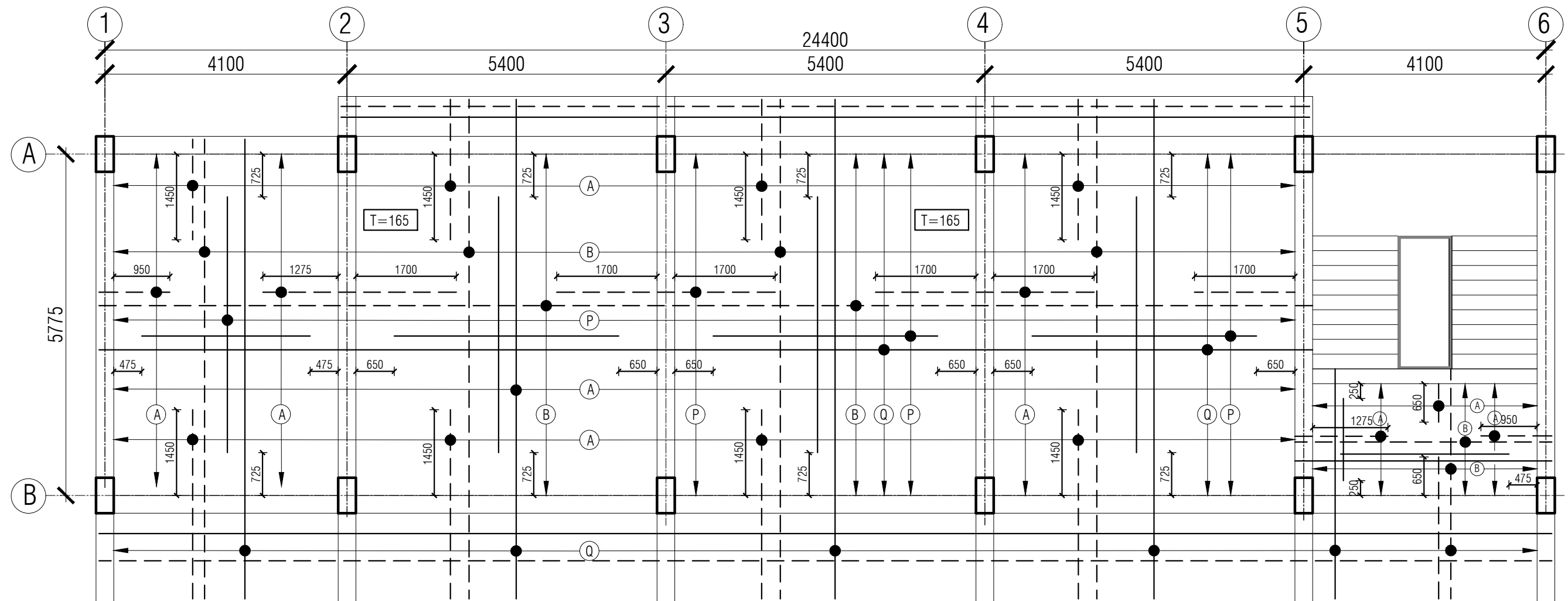


**SECTION: 05-05**



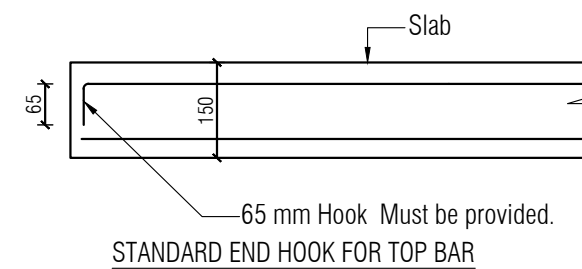
**SECTION: 06-06**

NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
   <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>MPDS Engineering Team</b>	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B10-19-01 <b>Revision No:</b> Issued for Tender	<b>ROOF BEAM SECTIONS</b>	All Dimension are in Millimeter unless mentioned	<b>SUP-19</b> <b>SCALE</b> As Shown



## ROOF SLAB REINFORCEMENT DETAIL

SCALE: 1:75



Slab Thickness is 165 mm  
Unless Mentioned otherwise

### LEGEND

BOTTOM BAR LEGENDS : ————

(P) 10mmØ @ 250mm c/c Alt with Q

(Q) 10mmØ @ 250mm c/c

TOP BAR LEGENDS : - - - - -

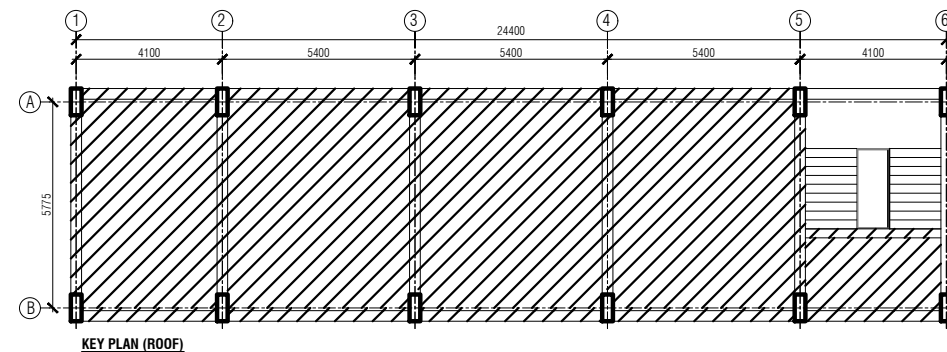
(A) 2-12mmØ in between (B)

(B) 10mmØ @ 275 mm c/c

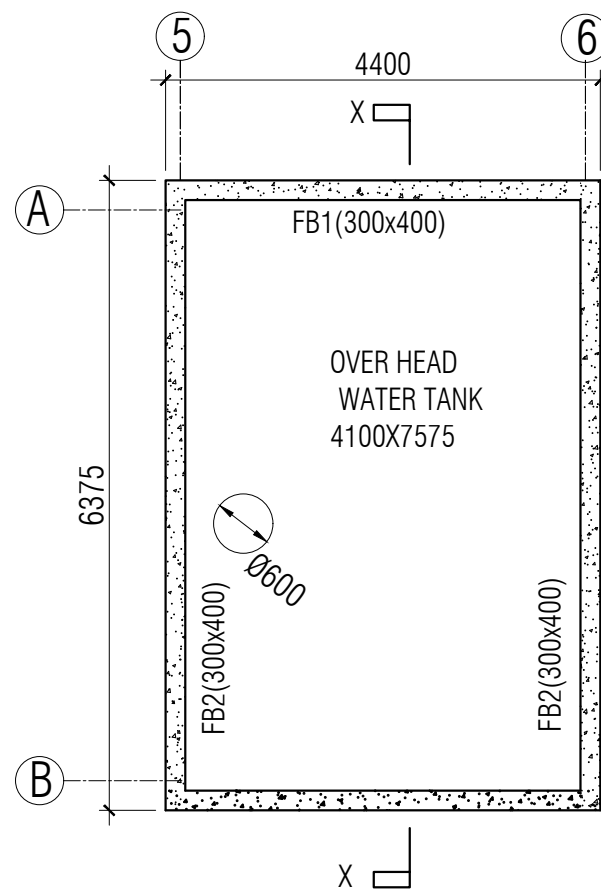
Binder: 10mmØ @ 250 mm c/c where require

CLEAR COVER OF BOTT. REINF. 20mm

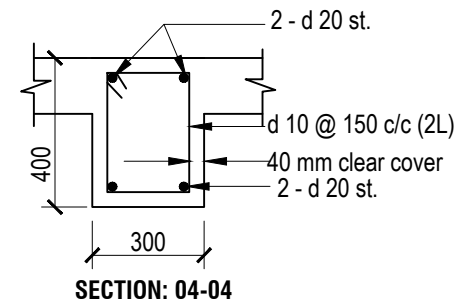
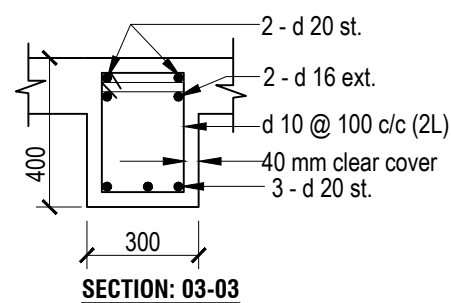
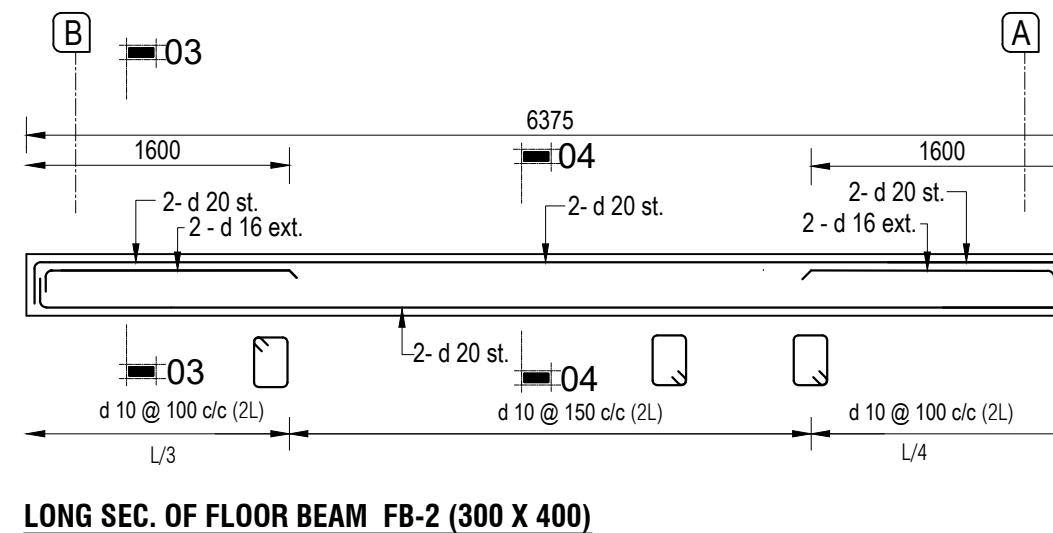
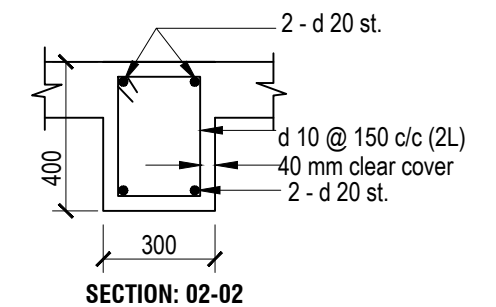
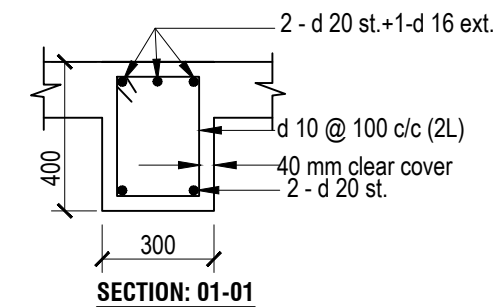
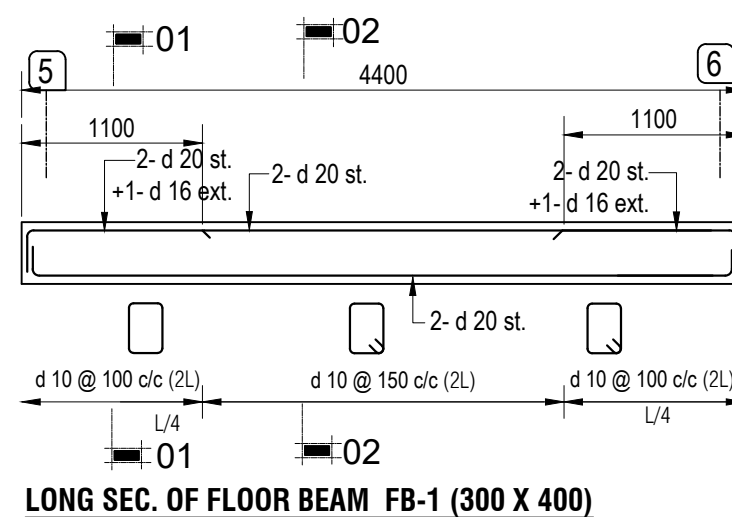
CLEAR COVER OF TOP REINF. 40mm.



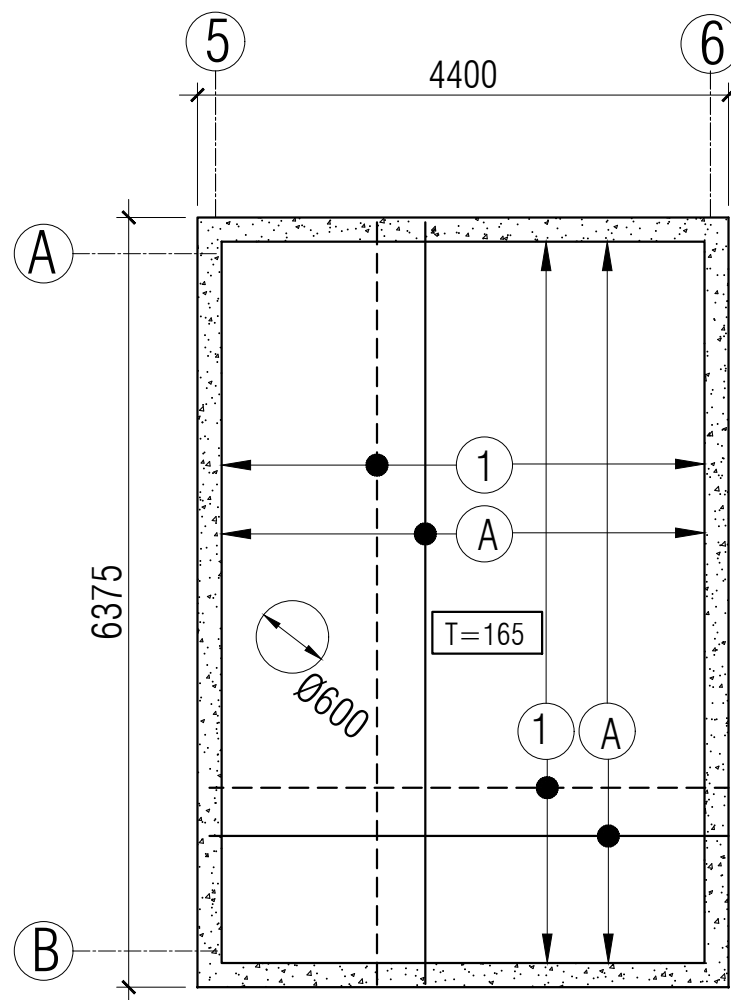
NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
 <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>MPDS Engineering Team</b>	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	Package No: SCI/MPDS/B10-19-01 Revision No: Issued for Tender	<b>ROOF SLAB REINFORCEMENT DETAIL</b>	All Dimension are in Millimeter unless mentioned	SUP-20 SCALE As Shown



**OVERHEAD WATER TANK BOTTOM SLAB  
BEAM LAYOUT PLAN**



NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<p><b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b></p>	<p>Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban</p> <p><b>FUNDED BY: USAID</b></p>	<p><b>MPDS Engineering Team</b></p>	<p>MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International</p>	<p>TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh</p>	<p><b>Package No:</b> SCI/MPDS/B10-19-01</p> <p><b>Revision No:</b></p> <p>Issued for Tender</p>	<p><b>OVERHEAD WATER TANK BOTTOM SLAB BEAM DETAIL</b></p>	<p>All Dimension are in Millimeter unless mentioned</p>	<p><b>SUP-21</b></p> <p><b>SCALE</b></p> <p>As Shown</p>

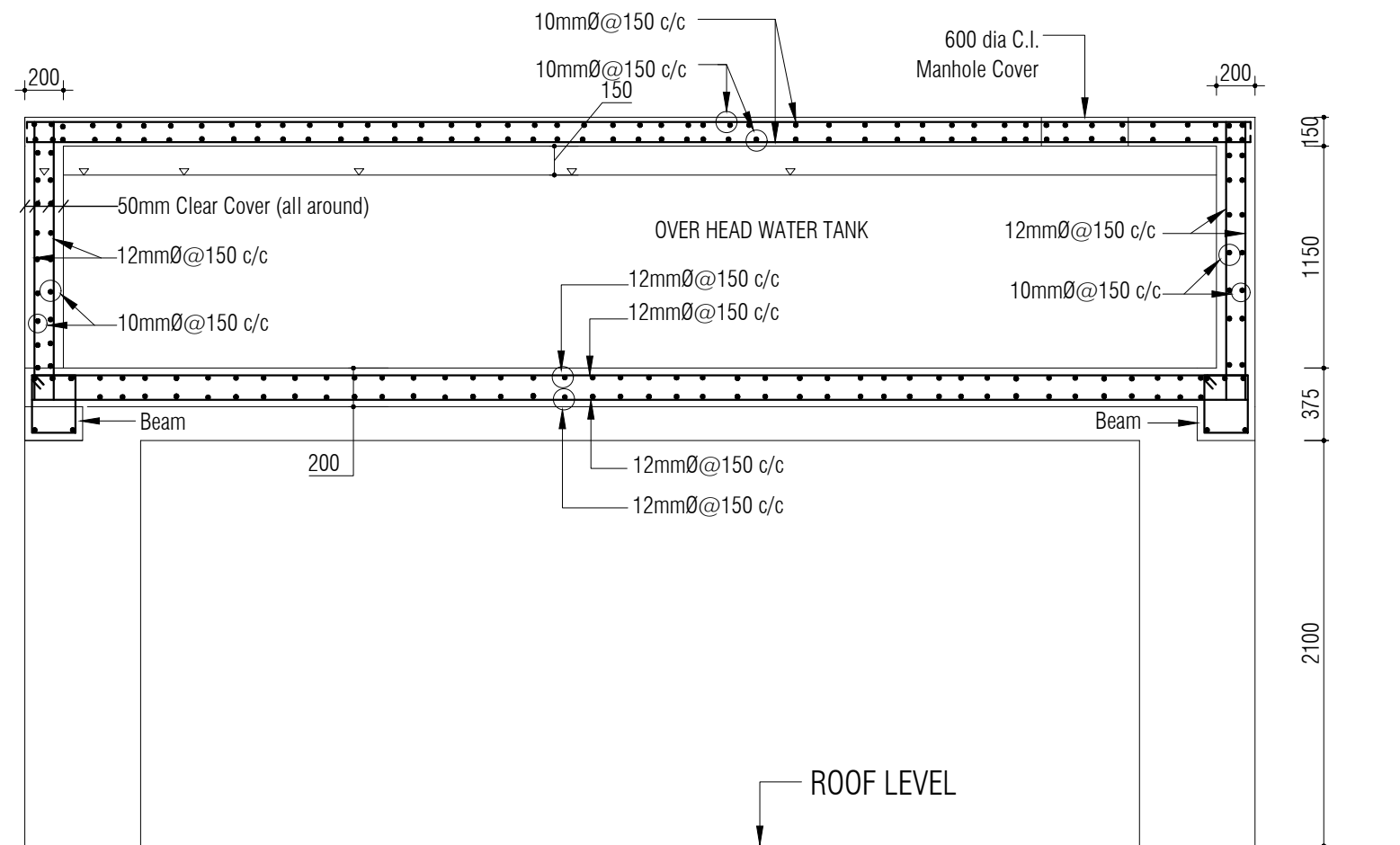


### REINF. DETAILS OF OHWT SLAB & MANHOLE COVER

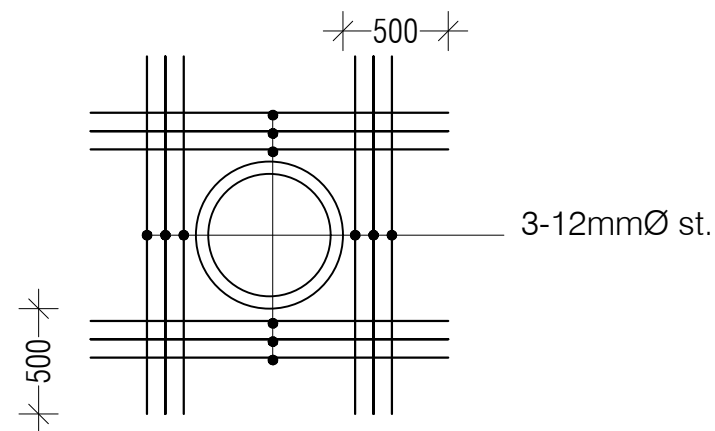
Slab Thickness is 150 mm  
Unless Mentioned otherwise

BOTTOM BAR LEGENDS : ———  
(A) 10mmØ @ 150 mm c/c

TOP BAR LEGENDS : - - - - -  
(1) 10mmØ @ 150 mm c/c

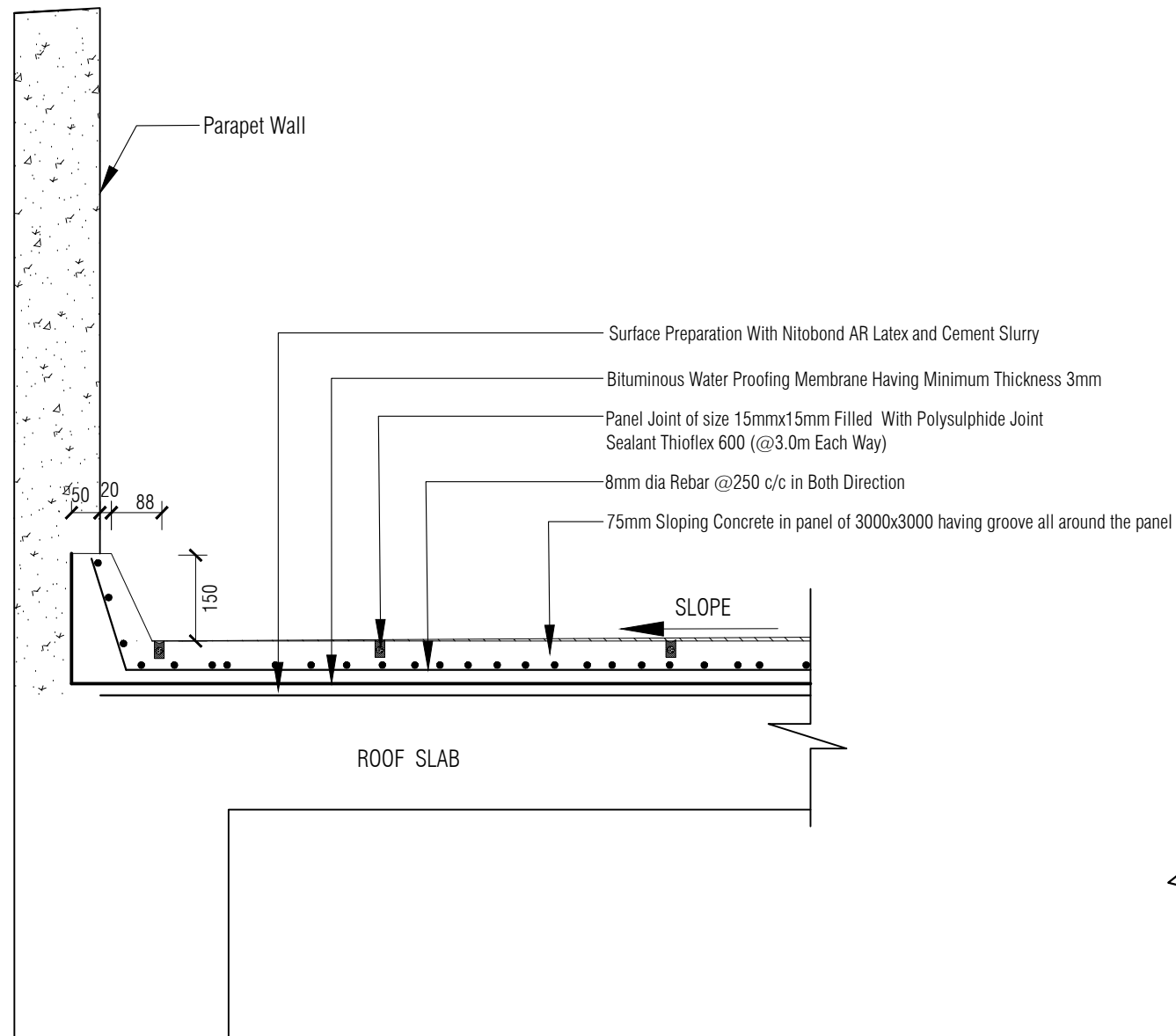


SECTION OF O.H.W.T : X-X

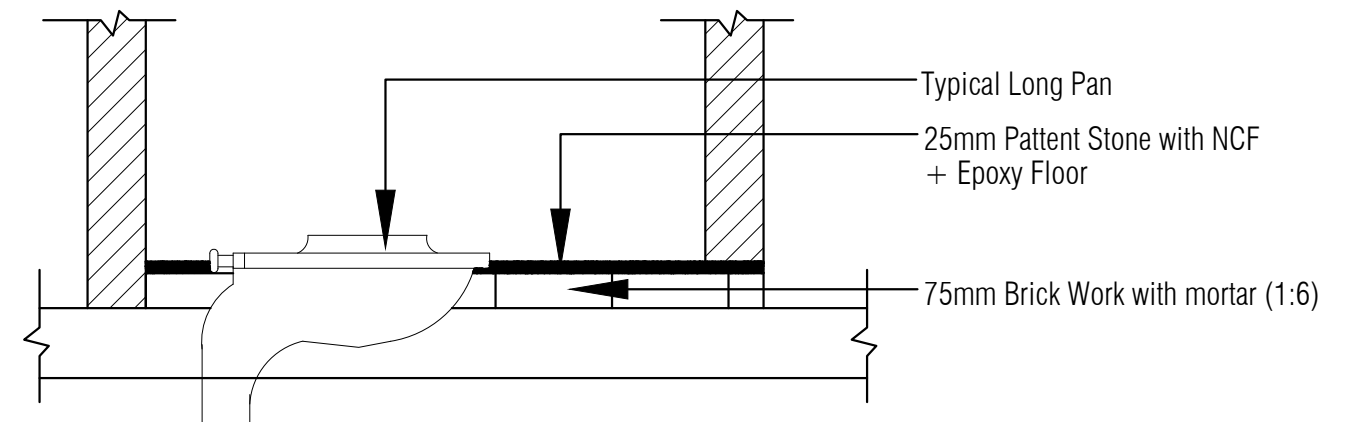


MANHOLE COVER  
FOR 600Ø MANHOLE


NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<p><b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b></p>	<p>Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban</p> <p><b>FUNDED BY: USAID</b></p>	<p><b>MPDS Engineering Team</b></p>	<p>MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International</p>	<p>TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh</p>	<p><b>Package No:</b> SCI/MPDS/B10-19-01</p> <p><b>Revision No:</b></p> <p>Issued for Tender</p>	<p><b>OVERHEAD WATER TANK REINF. DETAIL</b></p>	<p>All Dimension are in Millimeter unless mentioned</p>	<p>SUP-22</p> <p>SCALE</p> <p>As Shown</p>

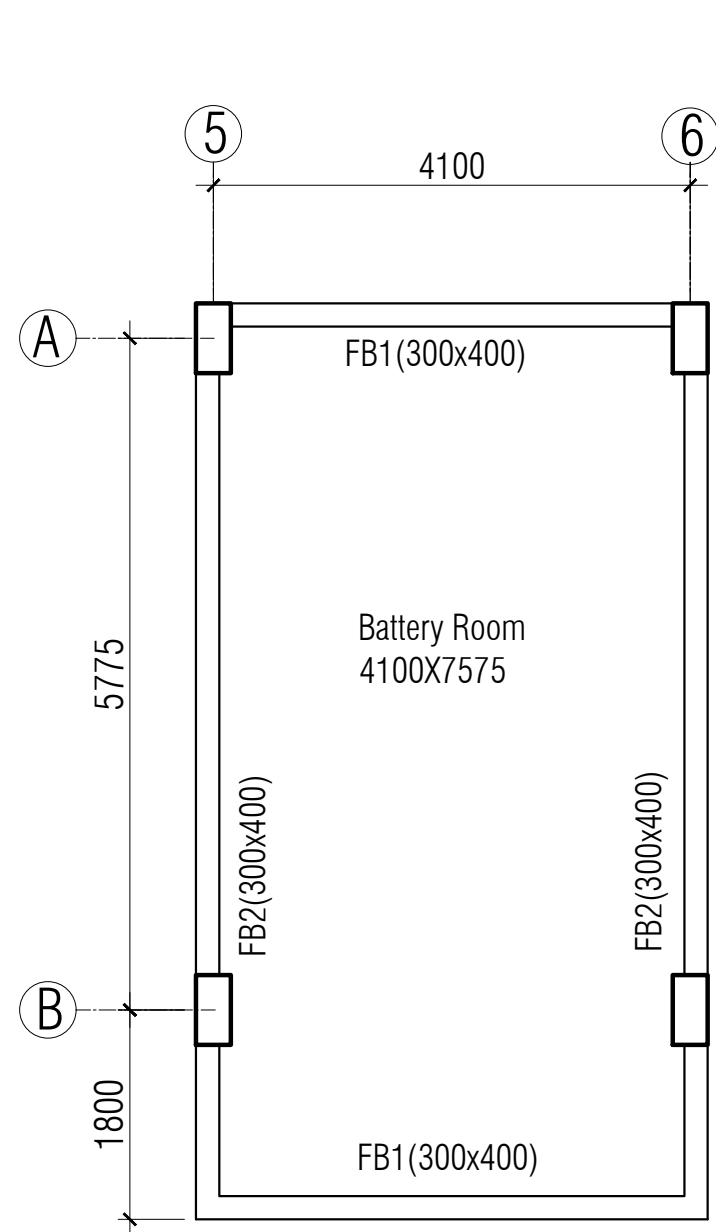


**TYPICAL ROOF WATERPROOFING DETAIL**

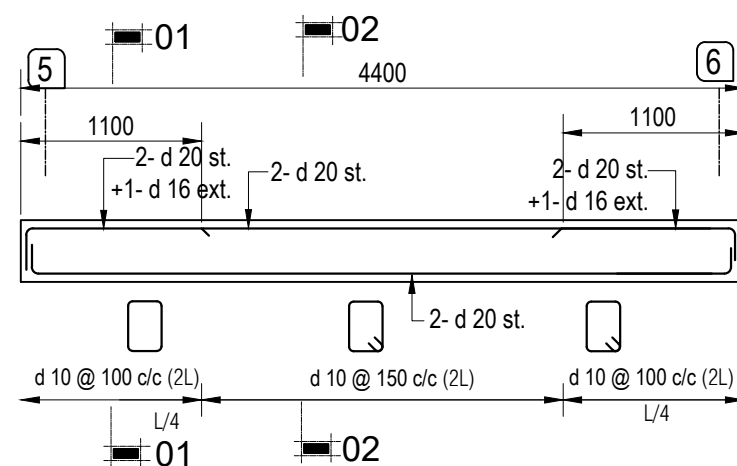


**TYPICAL LONG PAN SECTION DETAIL**

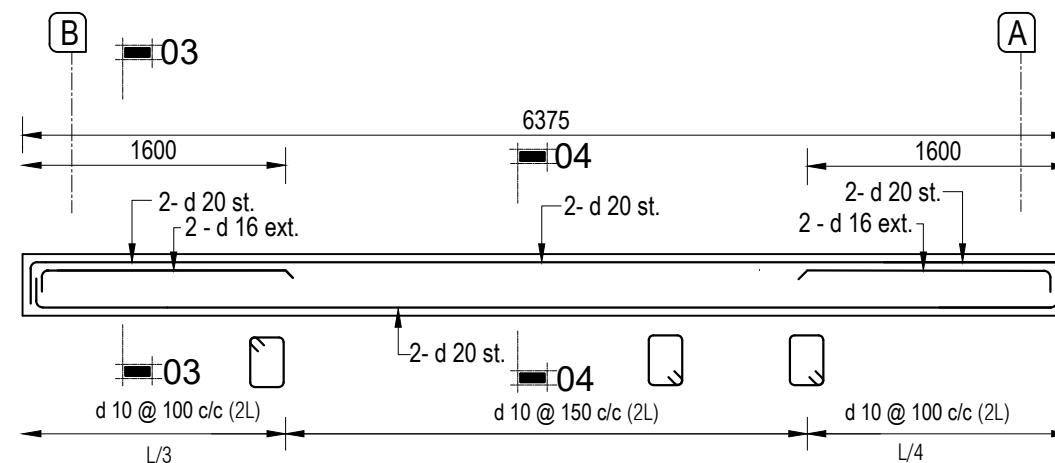
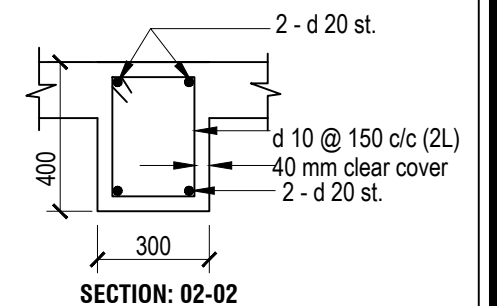
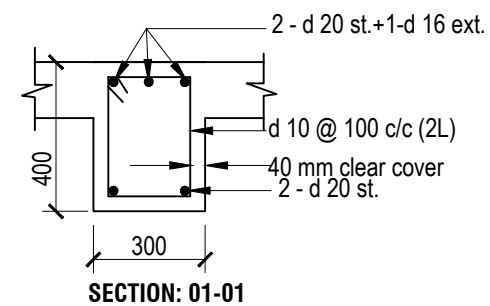
NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
 <p><b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b></p>	<p>Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban</p> <p><b>FUNDED BY: USAID</b></p>	<p><b>MPDS Engineering Team</b></p>	<p>MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International</p>	<p>TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh</p>	<p><b>Package No:</b> SCI/MPDS/B10-19-01</p>	<p><b>TYPICAL WATERPROOFING AND TOILET FLOOR DETAIL</b></p>	<p>All Dimension are in Millimeter unless mentioned</p>	<p>SUP-23</p>
					<p><b>Revision No:</b></p>			<p>SCALE</p>
					<p>Issued for Tender</p>			<p>As Shown</p>



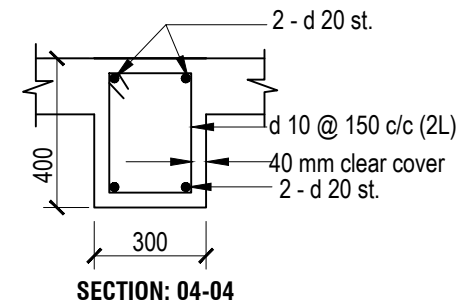
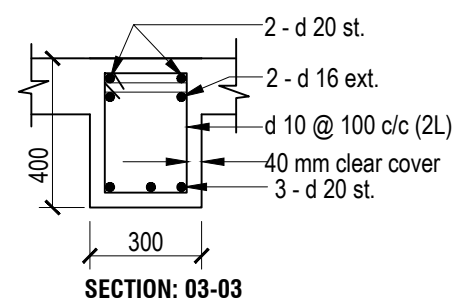
**BATTERY ROOM BEAM LAYOUT PLAN**



**LONG SEC. OF FLOOR BEAM FB-1 (300 X 400)**

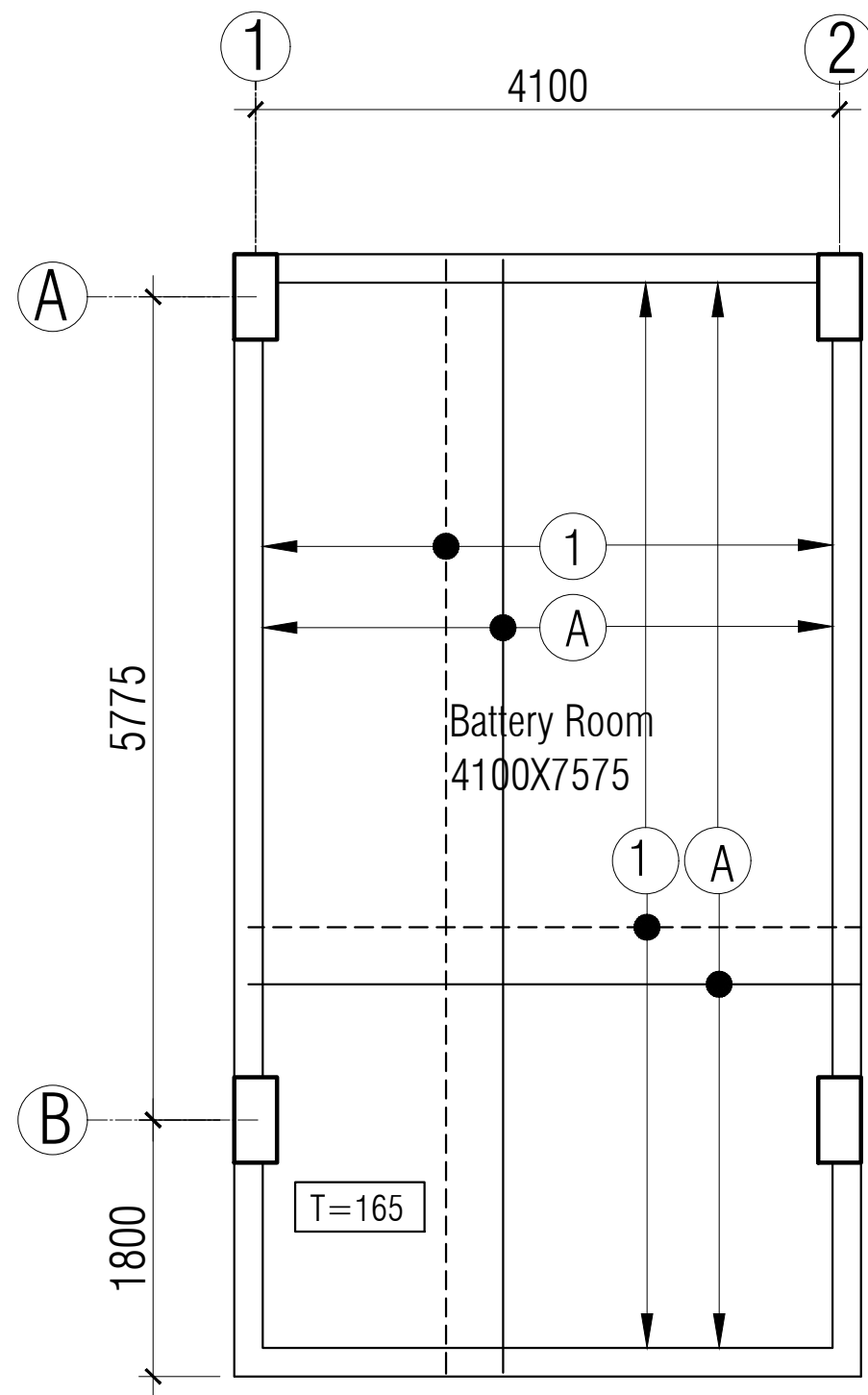


**LONG SEC. OF FLOOR BEAM FB-2 (300 X 400)**



NAME OF PROJECT:	NAME OF WORK:	DESIGN PREPARED BY	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<p><b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b></p>	<p>Construction of Multipurpose Disaster Shelter at Lama Adorsho Government Primary School under Lama Pourashava, Upazila: Lama, District: Bandarban</p> <p><b>FUNDED BY: USAID</b></p>	<p><b>MPDS Engineering Team</b></p>	<p>MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International</p>	<p>TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh</p>	<p>Package No: SCI/MPDS/B10-19-01</p> <p>Revision No:</p> <p>Issued for Tender</p>	<p><b>BATTERY ROOM BEAM DETAILS</b></p>	<p>All Dimension are in Millimeter unless mentioned</p>	<p>SUP-24</p> <p>SCALE</p> <p>As Shown</p>






Slab Thickness is 150 mm  
Unless Mentioned otherwise

BOTTOM BAR LEGENDS : ———  
(A) 10mmØ @ 150 mm c/c

TOP BAR LEGENDS : - - - - -  
(1) 10mmØ @ 150 mm c/c

**REINF. DETAILS OF BATTERY & STORE ROOM SLAB**

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