



**Save the Children**

# Multipurpose Disaster Shelter Support (MPDS) Project





## GENERAL DESIGN & DRAWINGS FOR

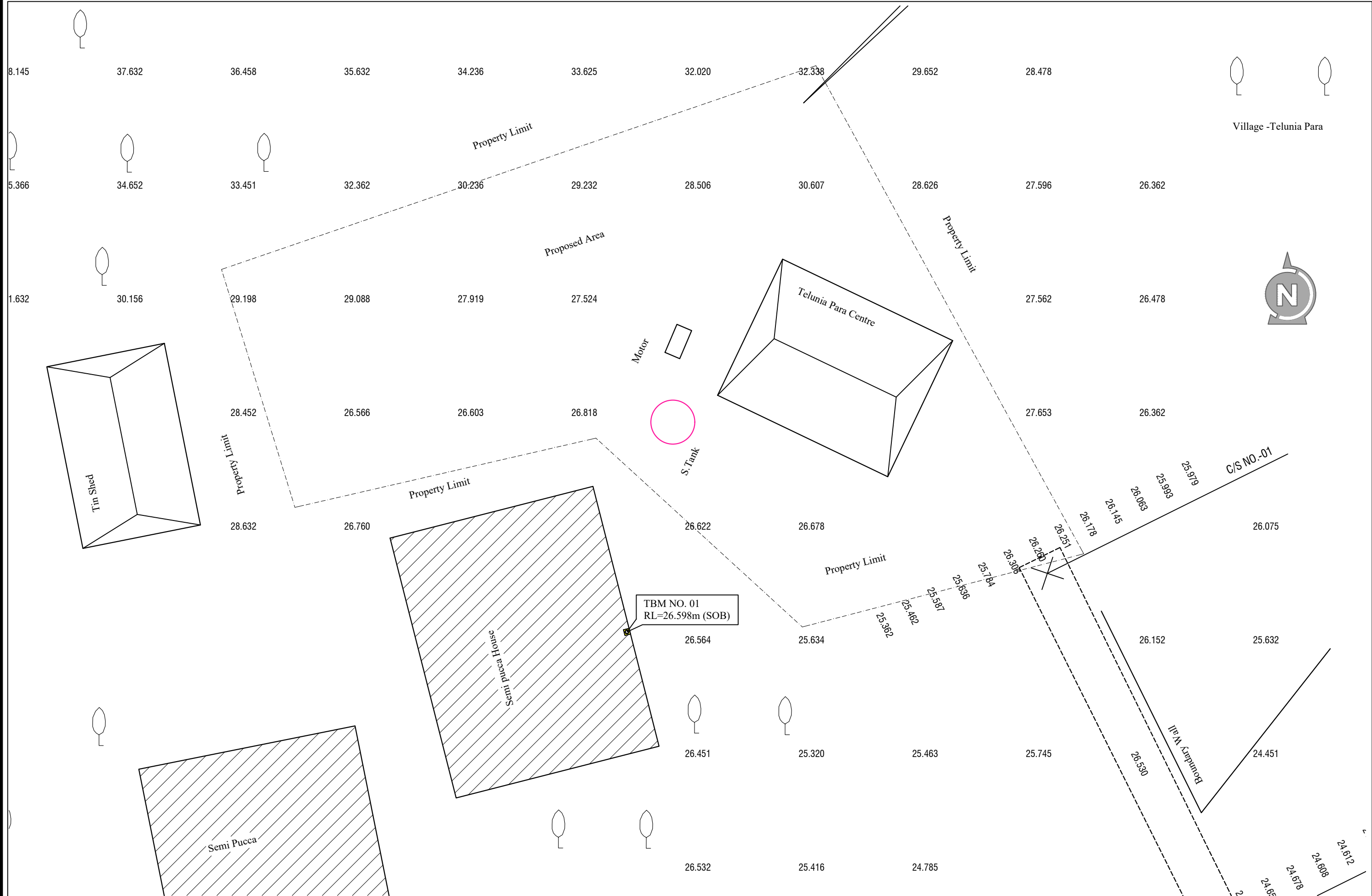
CONSTRUCTION OF MULTIPURPOSE DISASTER SHELTER AT TELUNIAPARA (PARA CENTER) UNDER  
AZIZNAGAR UNION, UPAZILA: LAMA, DISTRICT: BANDARBAN



**Issued for Tender**

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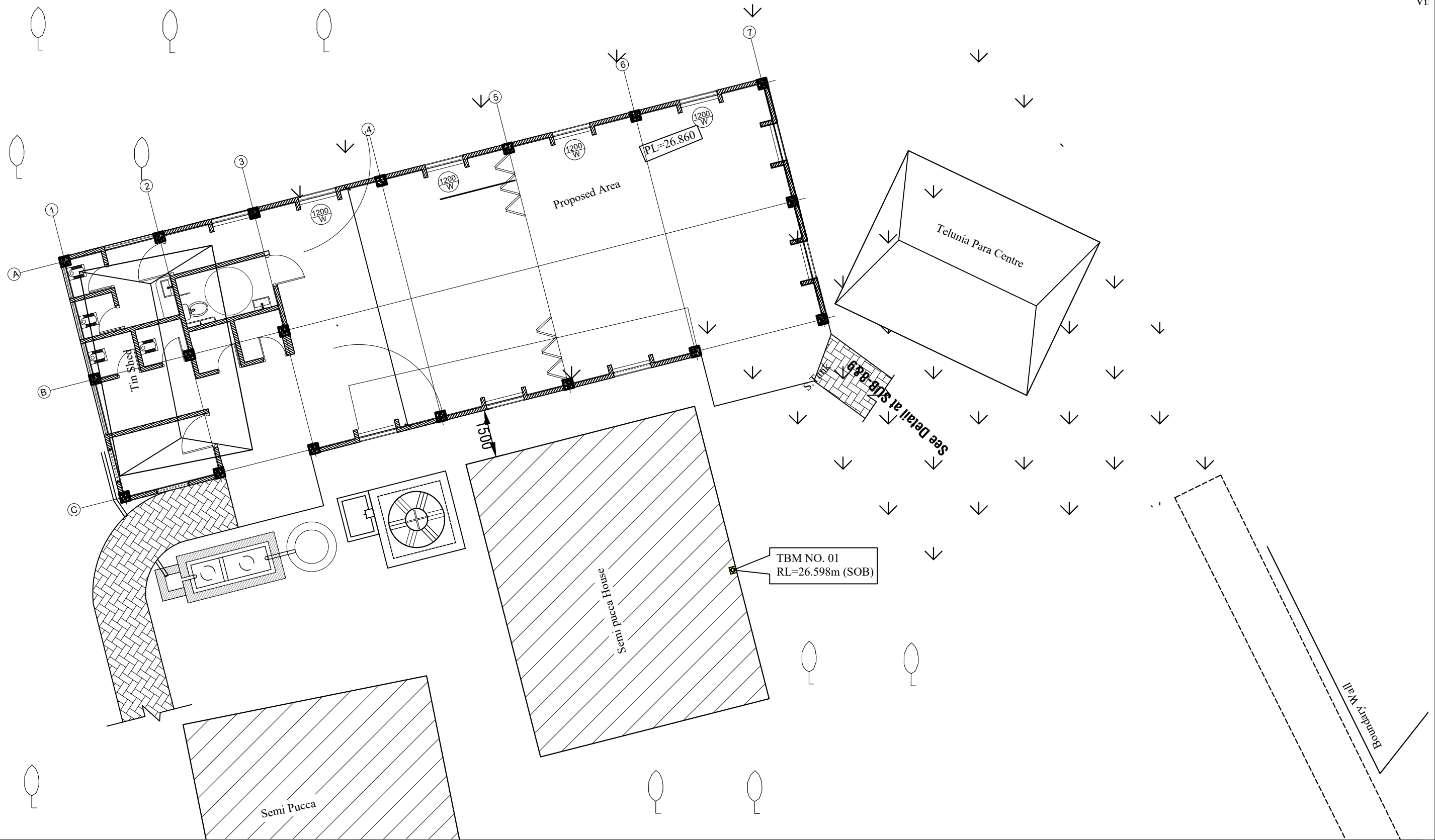
NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<div> <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b></div>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	INDEX	All Dimension are in Millimeter unless mentioned	<b>00</b> <b>SCALE</b> AS SHOWN






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						Revision No:			<b>SCALE</b>
						Issued for Tender			AS SHOWN

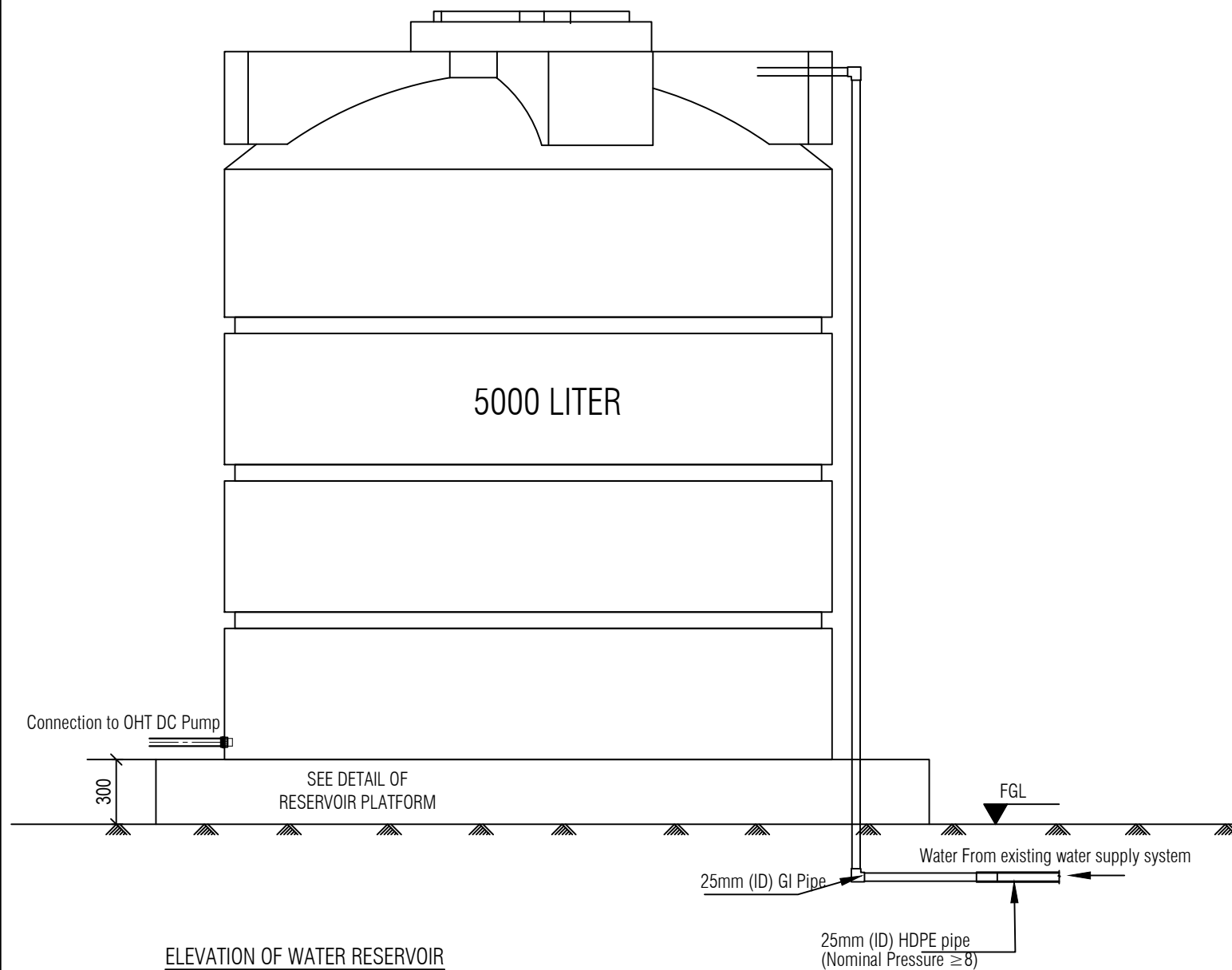


Vii

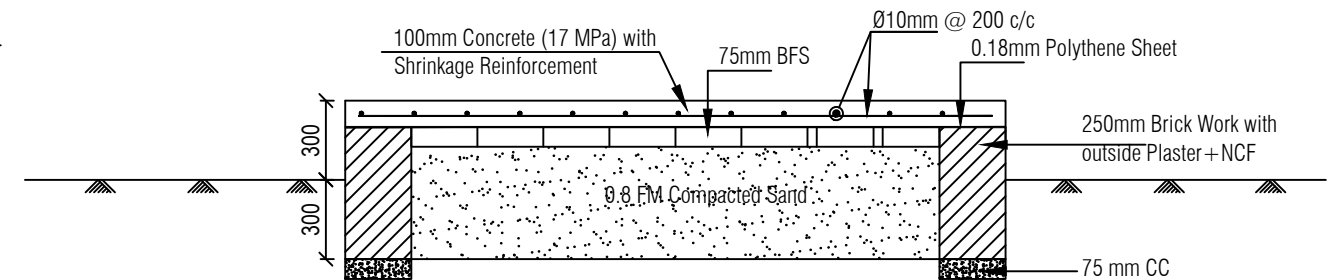
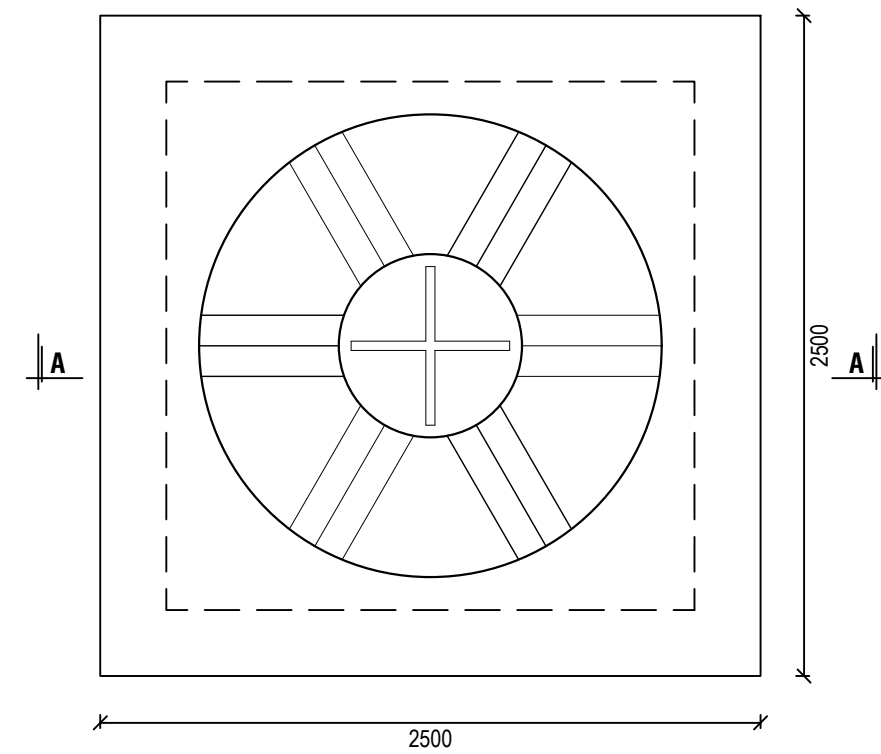


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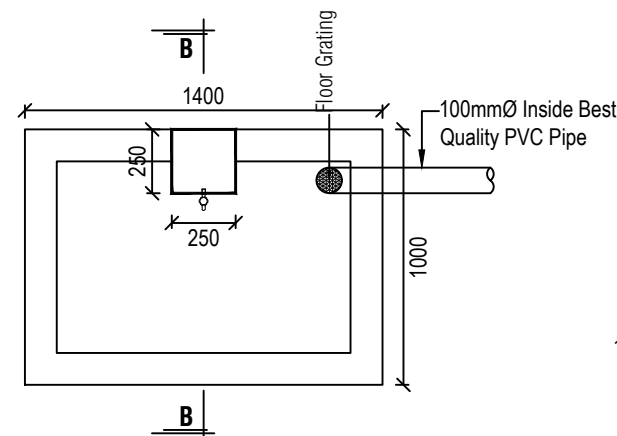




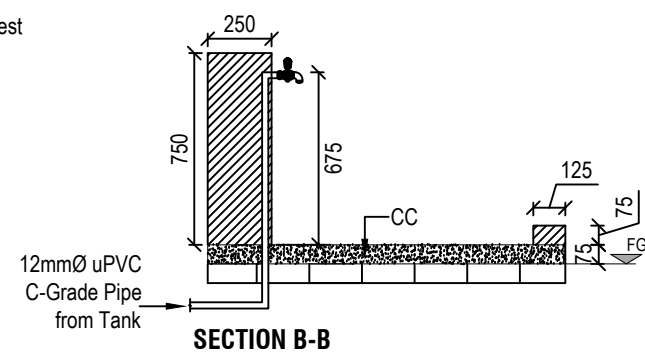
ELEVATION OF WATER RESERVOIR



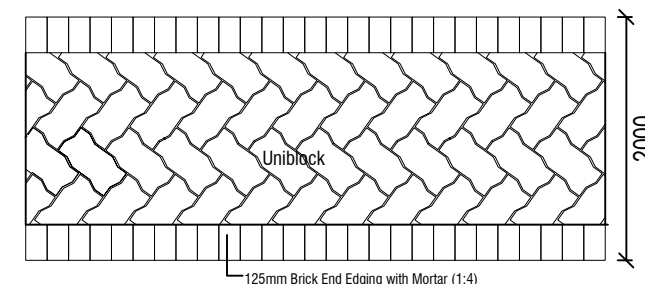
Section A-A



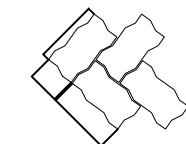
PLAN OF WATER COLLECTION POINT





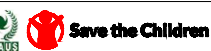
SECTION B-B

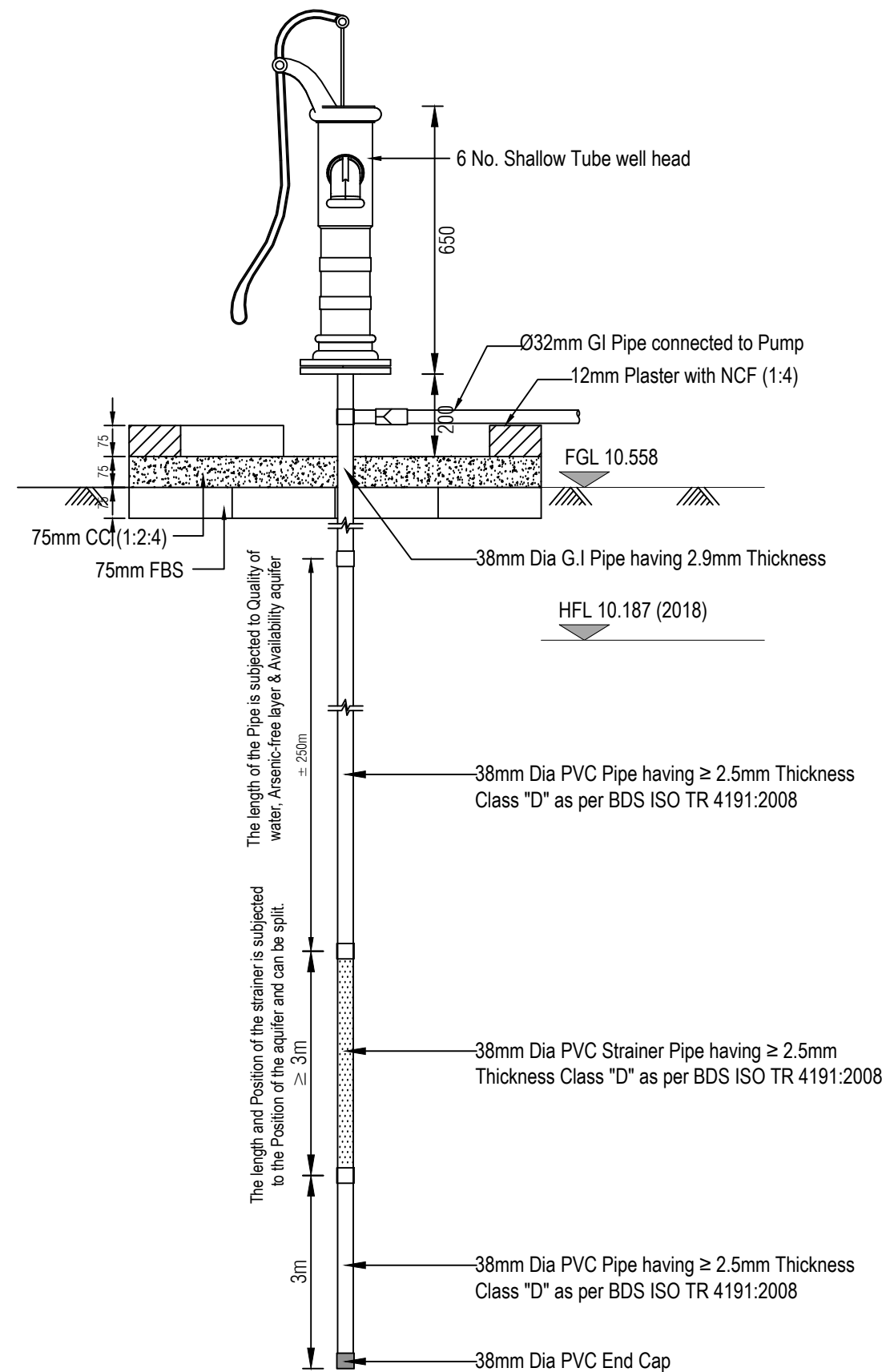
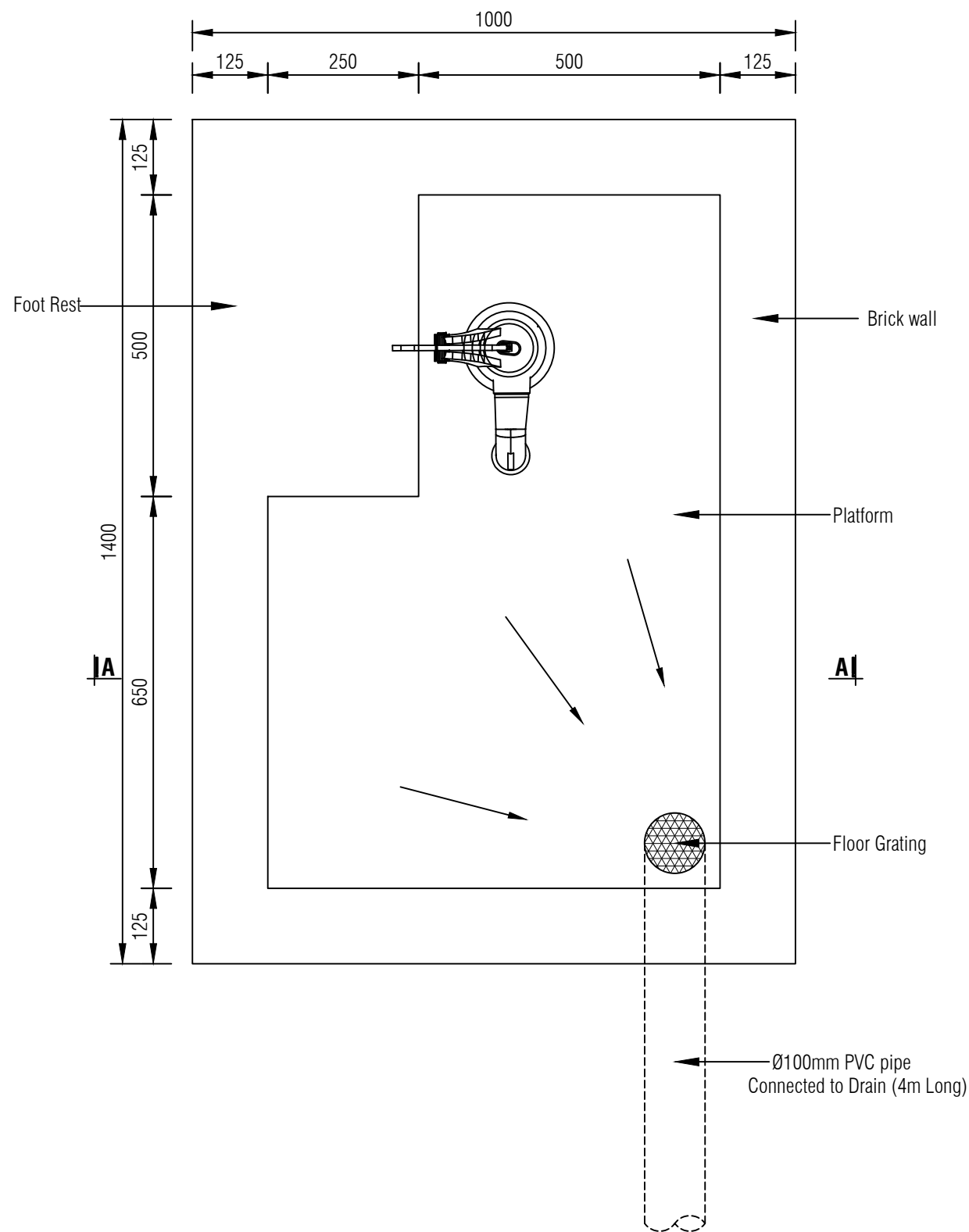




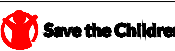
PLAN OF UNIBLOCK



PLAN OF UNIBLOCK

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# Multipurpose Disaster Shelter Support (MPDS) Project

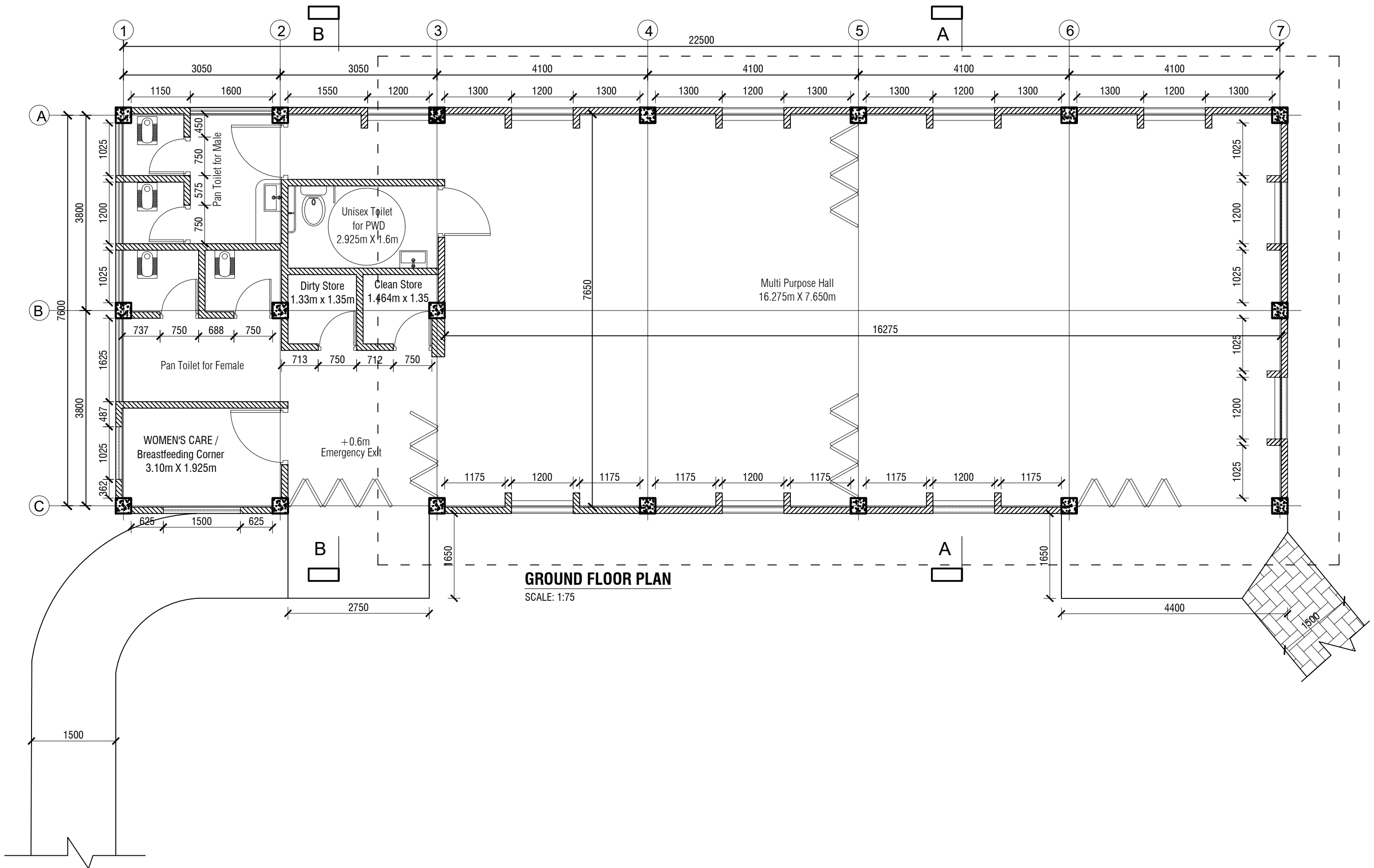
ARCHITECTURAL DESIGN & DRAWINGS


FOR

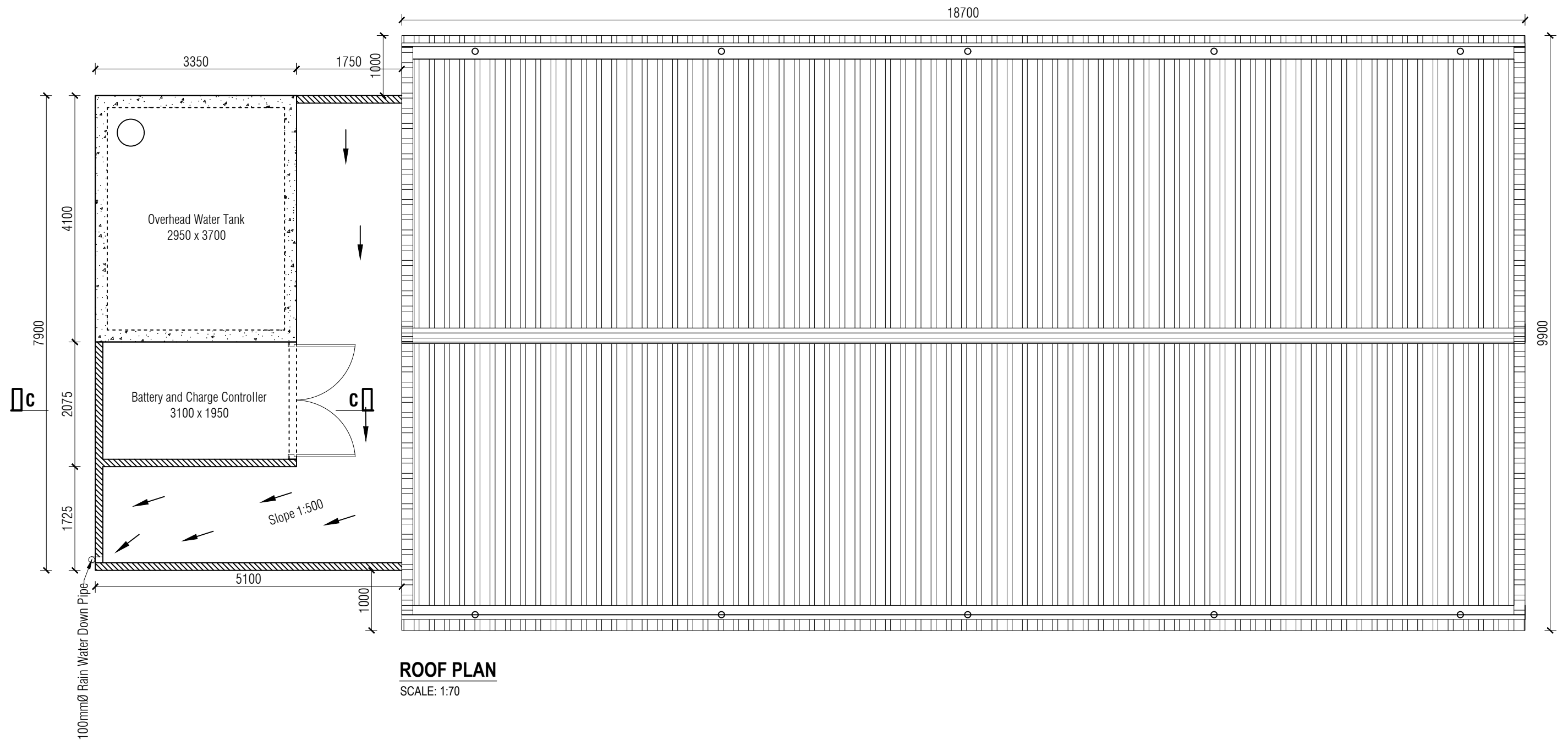
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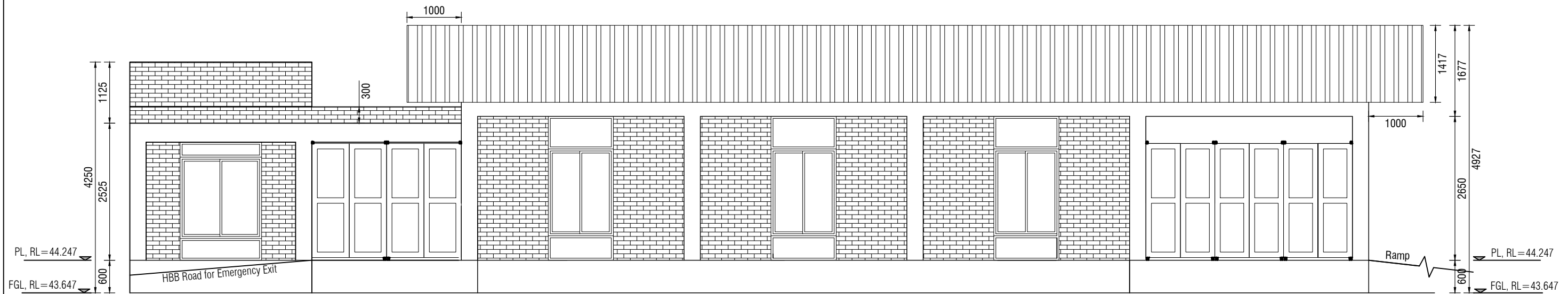
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**ROOF PLAN**  
SCALE: 1:70

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### FRONT ELEVATION

SCALE: 1:75



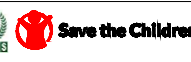


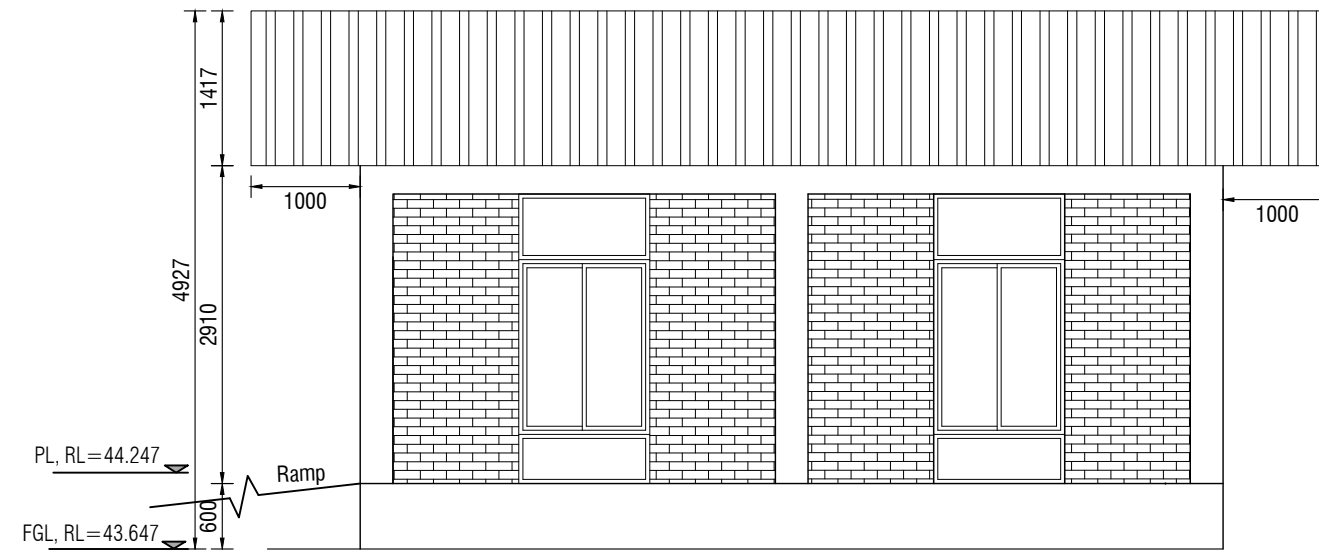
### BACK ELEVATION

SCALE: 1:75

#### Finishing Legend

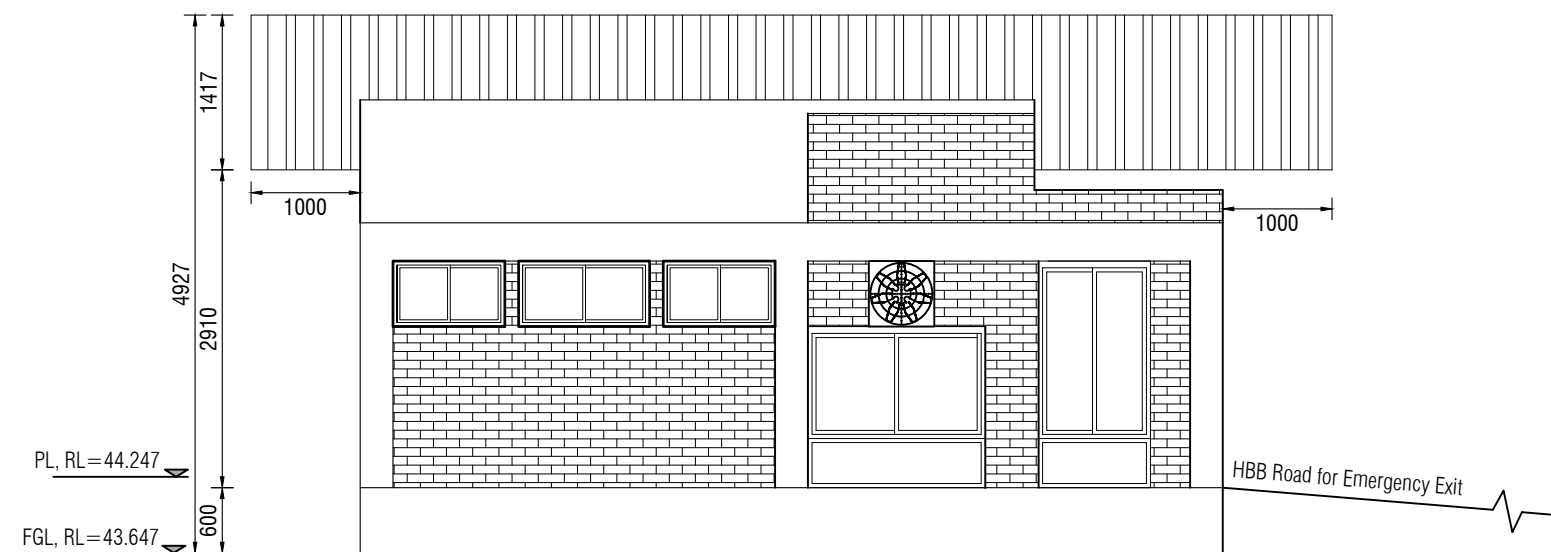
- 10 Hole machine made ceramic bricks with out side pointing
- In side of wall and all concrete surface will Cement mortar plaster.
- Dado up to PL Cement mortar plaster with NCF.

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**RIGHT SIDE ELEVATION**

SCALE: 1:70



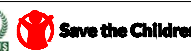


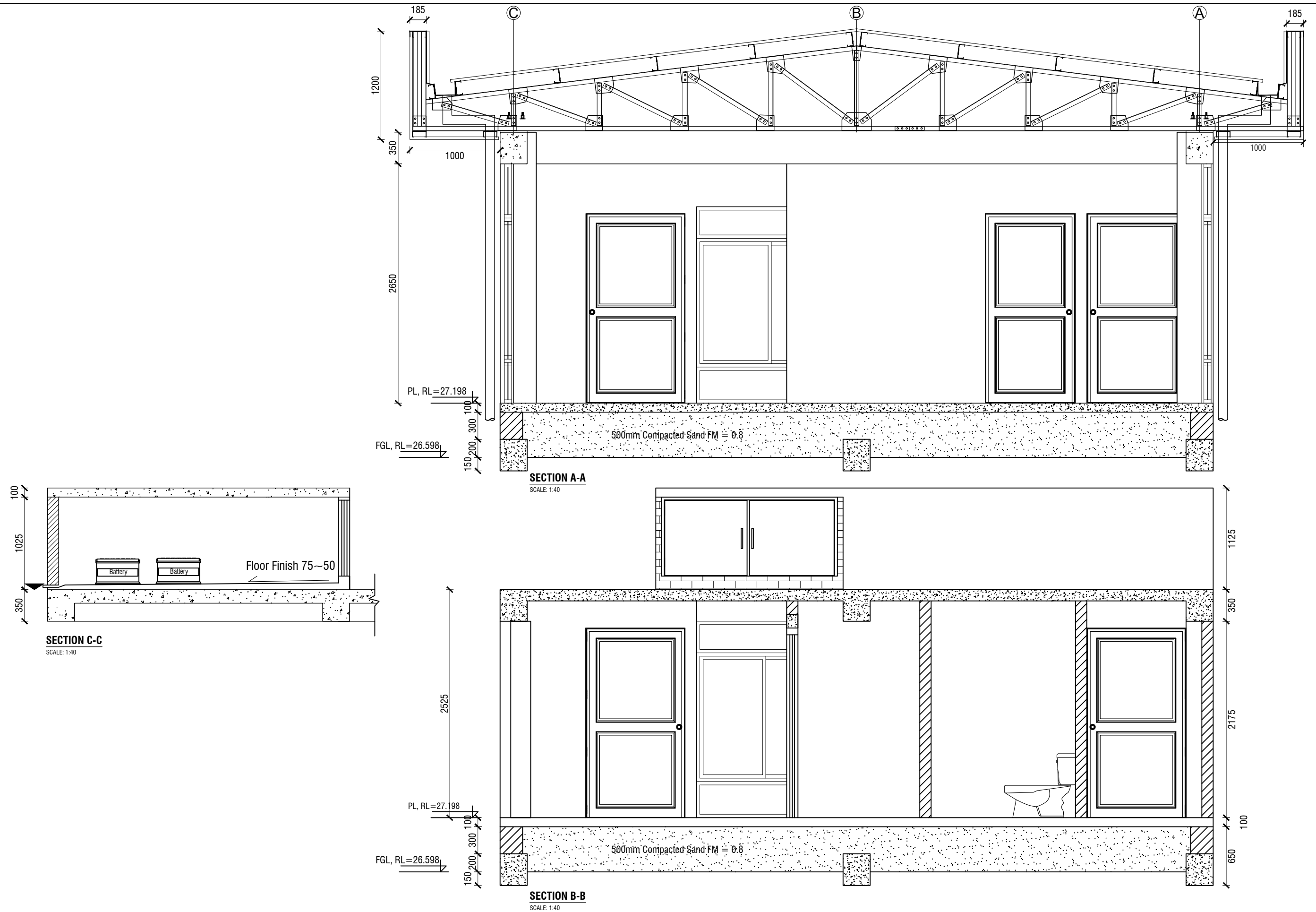
**LEFT SIDE ELEVATION**




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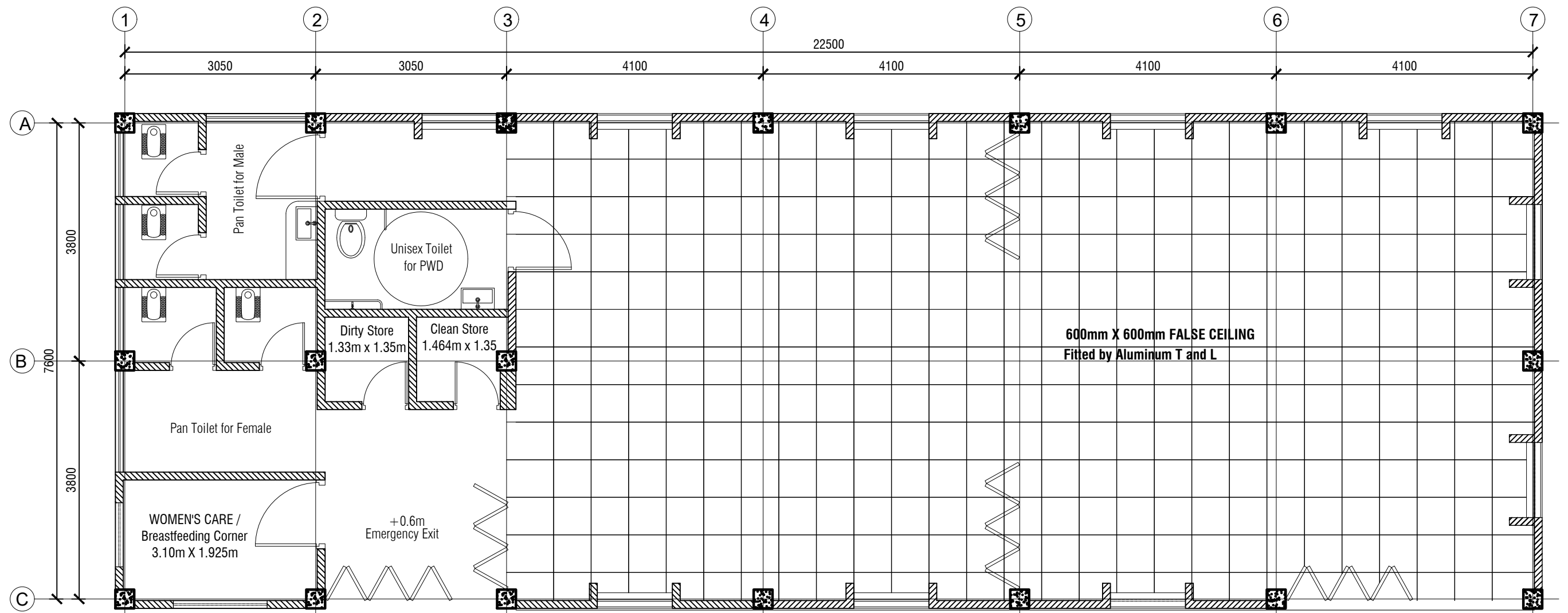
**Finishing Legend**

- 10 Hole machine made ceramic bricks with out side pointing
- In side of wall and all concrete surface will Cement mortar plaster.
- Dado up to PL Cement mortar plaster with NCF.

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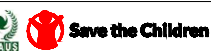


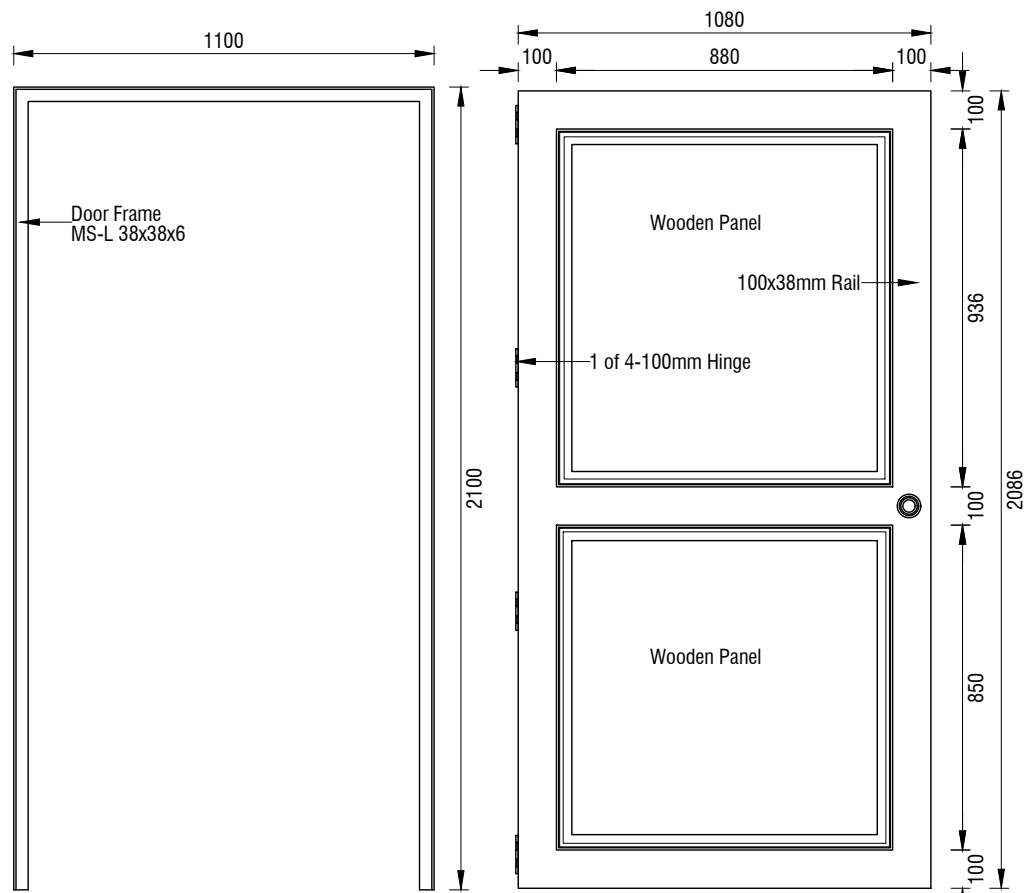
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**FALSE CEILING PLAN**

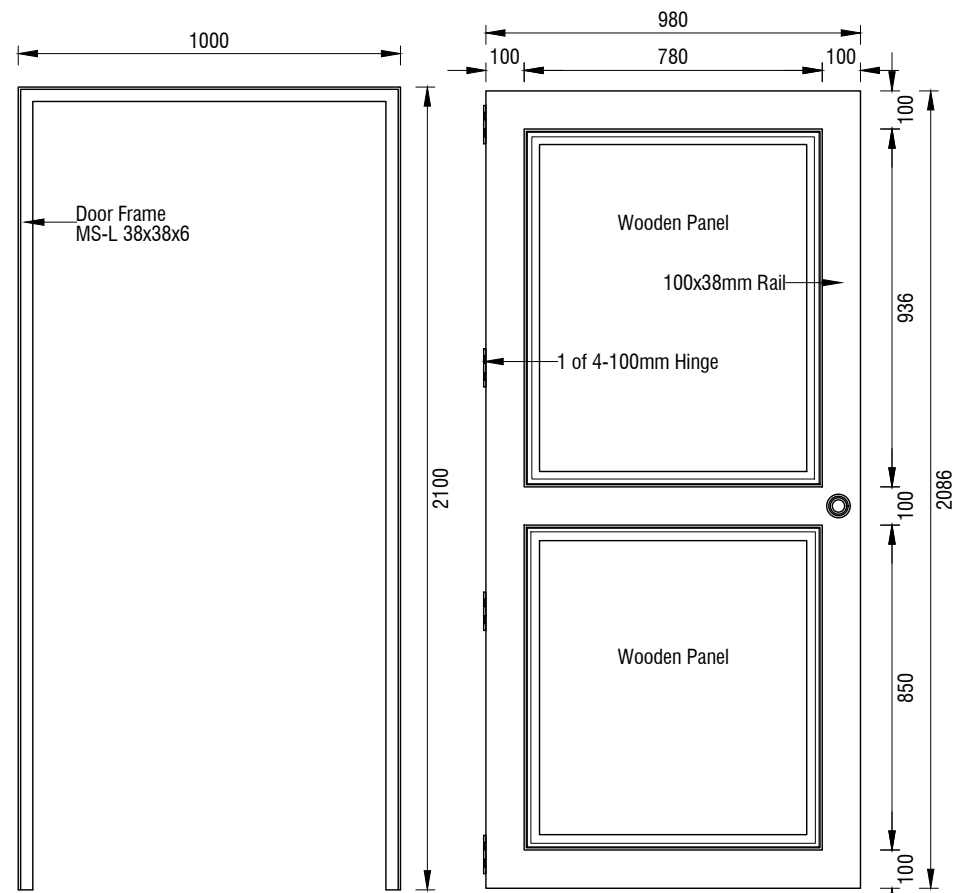
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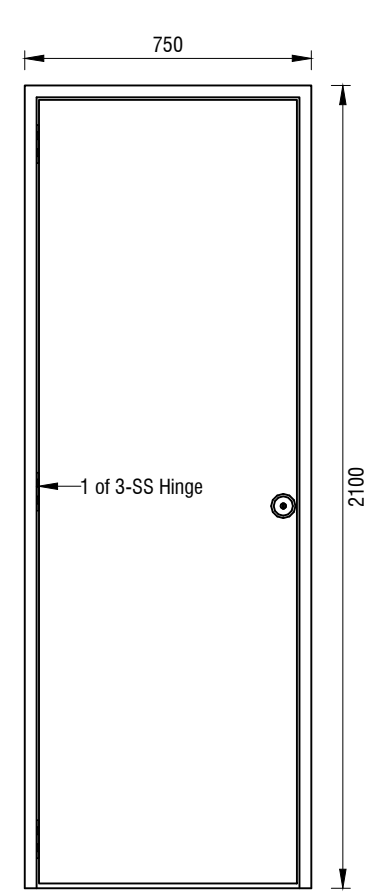
**DOOR FRAME (D)**

**DOOR SHUTTER (D)**



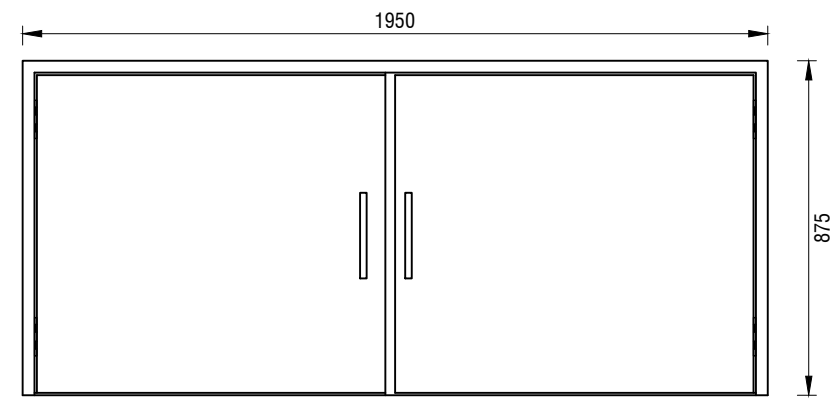
**DOOR FRAME (D1)**

**DOOR SHUTTER (D1)**

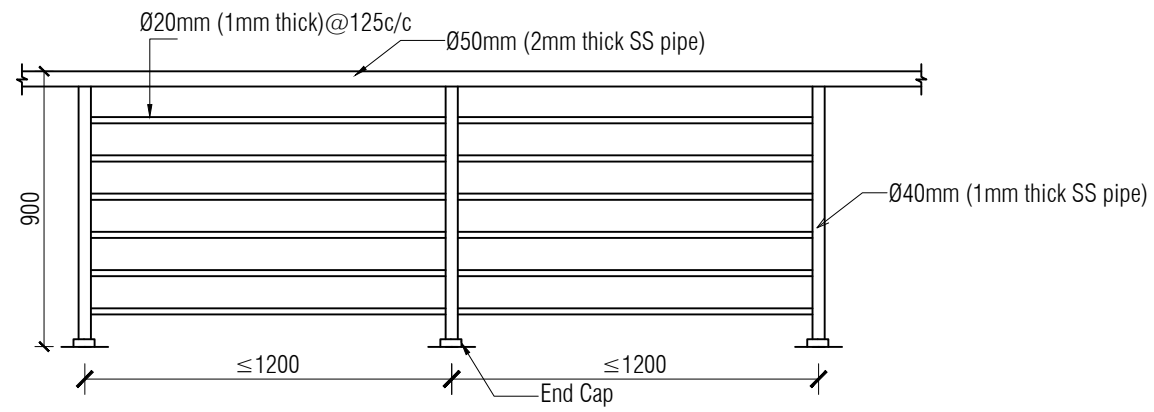


**DOOR SHUTTER (E)**

Door Schedule							
Type	Total Number	SIZE		OPENING TYPE	MATERIAL	GLAZING	Handle & Locker
		Width	HGT				
D	002	1100	2100	Swing	Wood	Wood Vernish	Shutter Lock
D1	001	1000	2100	Swing	Wood	Wood Vernish	Shutter Lock
E	006	750	2100	Swing	uPVC Door	Pre-Colored	Tower bolt
D2	001	1950	875	Double Swing	MS Sheet and Angle	Wood Vernish	Shutter Lock

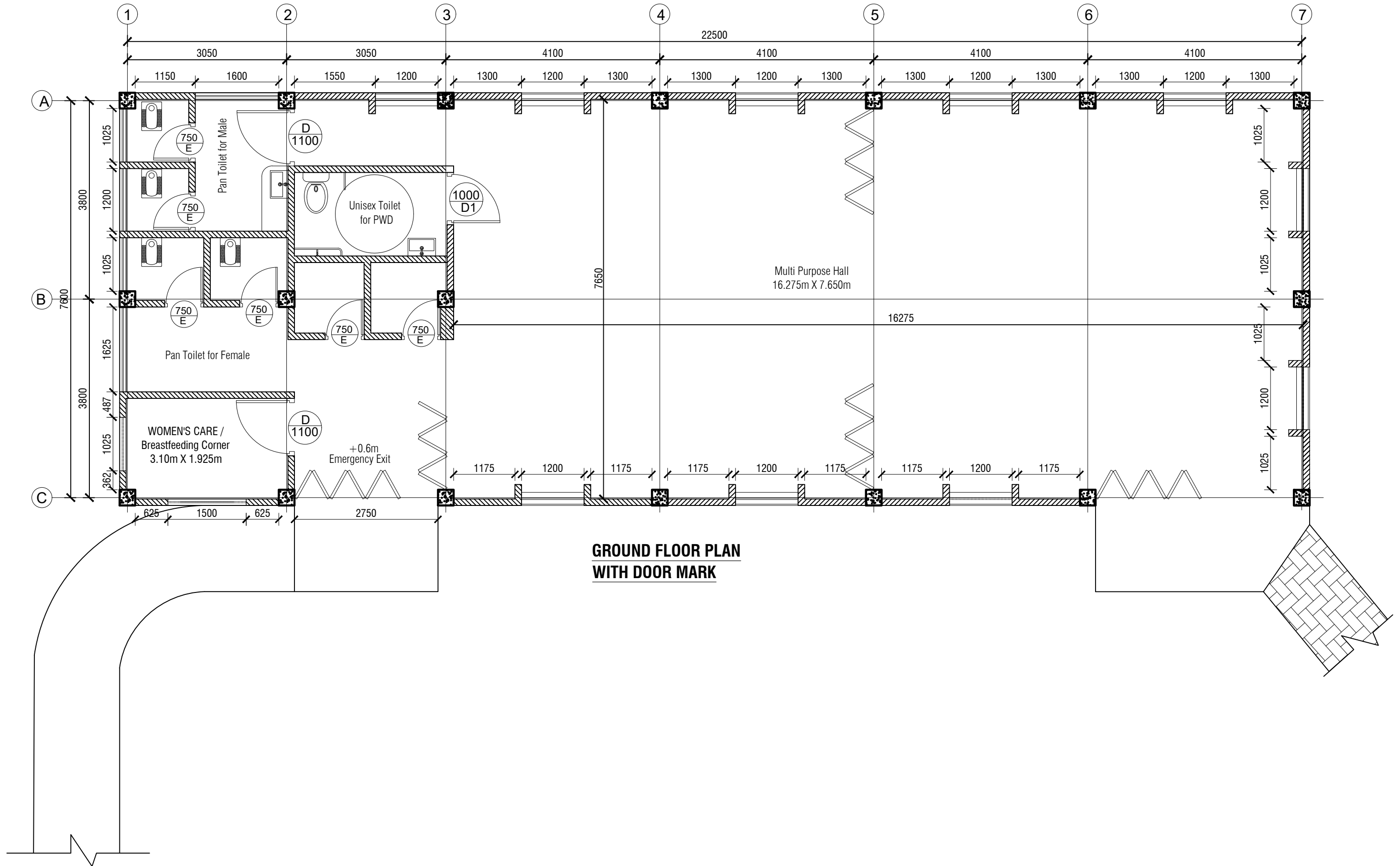


**DOOR FOR BATTERY ROOM (D2)**






**RAILING DETAILS**

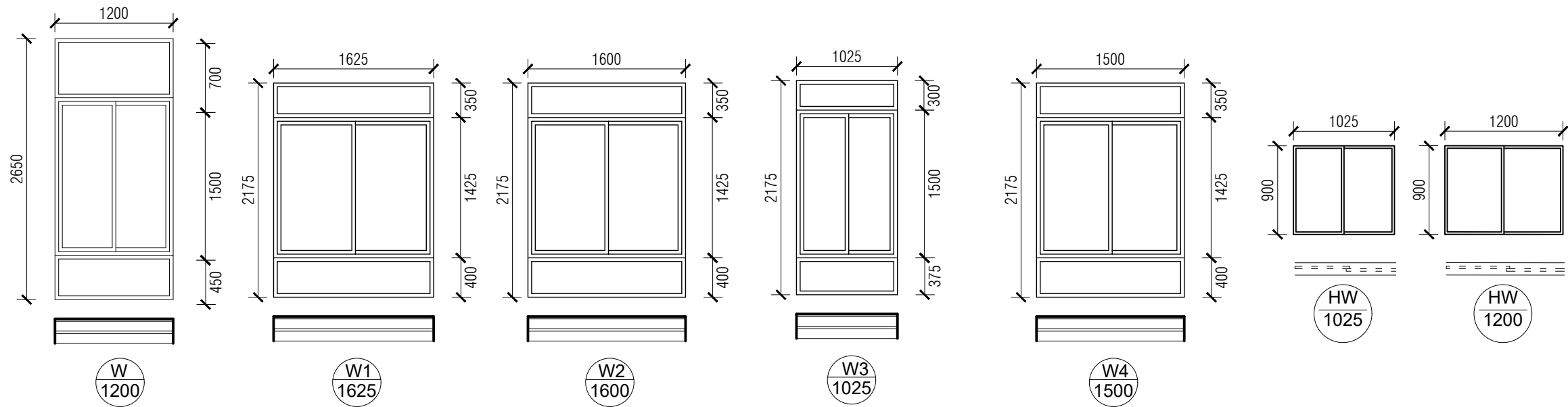
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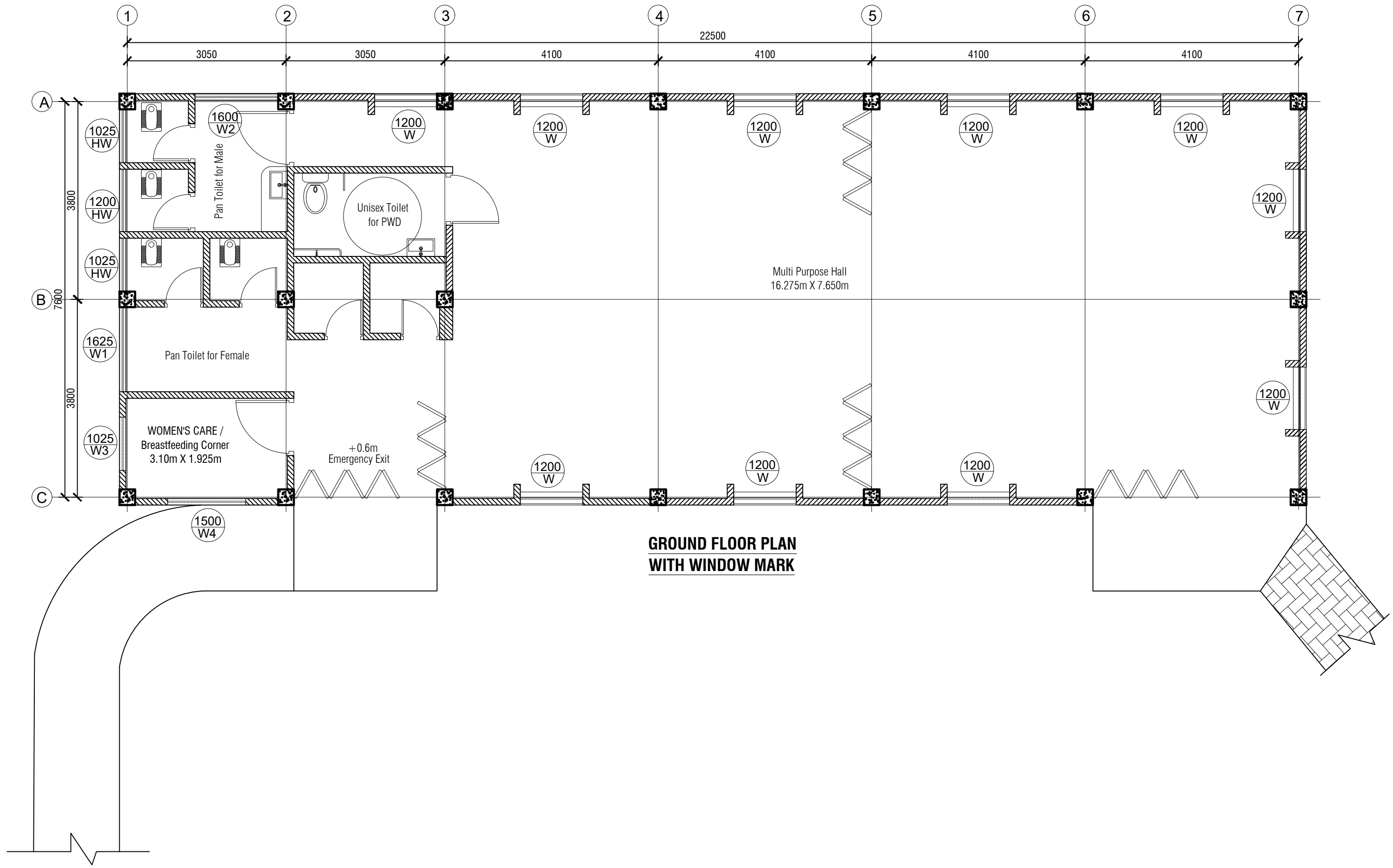
**GROUND FLOOR PLAN  
WITH DOOR MARK**

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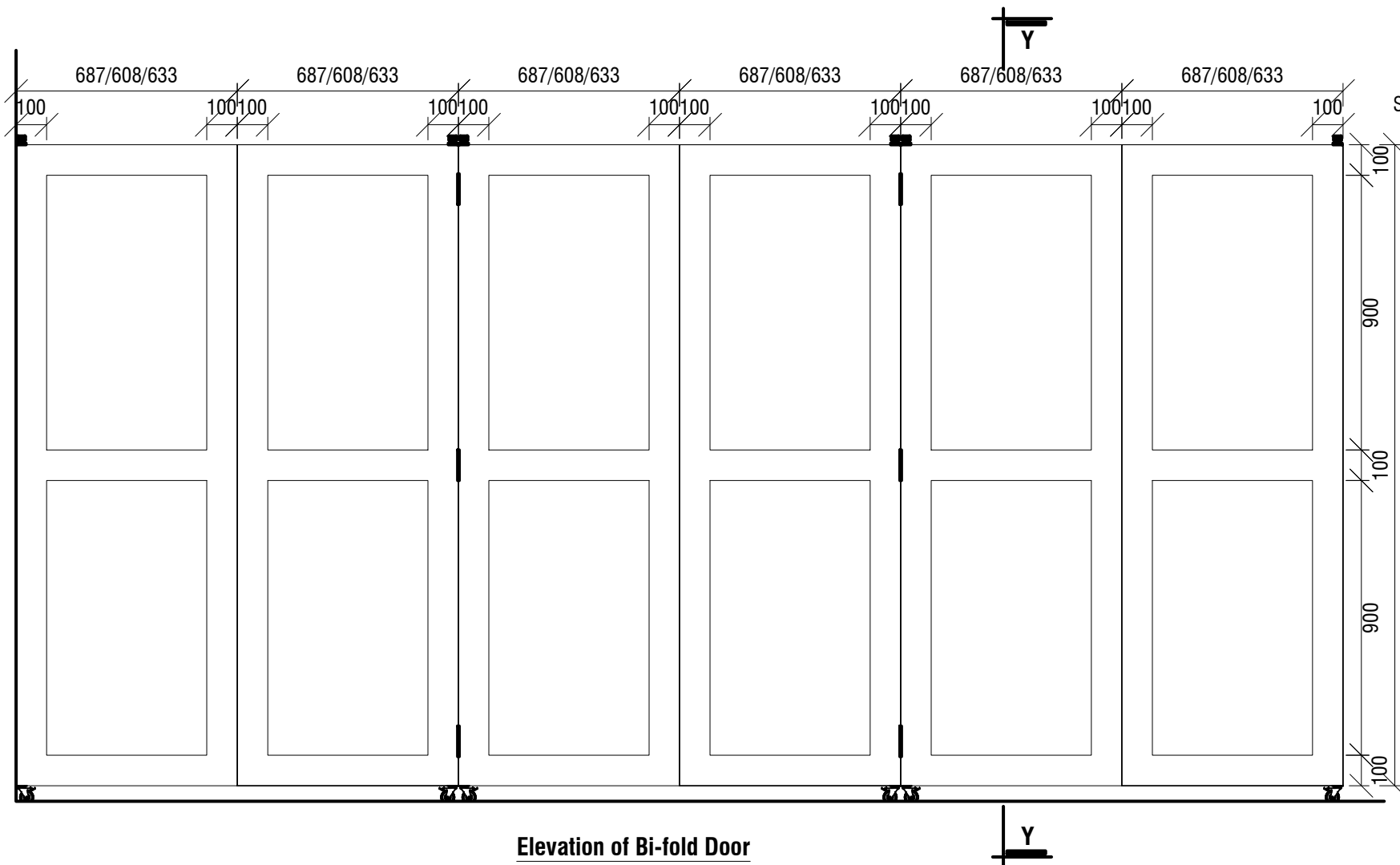


Window Schedule									
	Window								GLAZING
		SIZE			MATERIAL	FRAME			
Total	Type	WD	HGT	THK		MATERIAL	PAINT	OPER.	
10	W	1200	2650	25	5mm Thick Distortion Free Clear Glass	Aluminium Thickness not less than 1.5mm	Silver	Sliding & Fixed	Clear
001	W1	1625	2175	25					
001	W2	1600	2175	25					
001	W3	1025	2175	25					
001	W4	1500	2175	25					
002	HW	1025	900	25					
001	HW	1200	900	25					

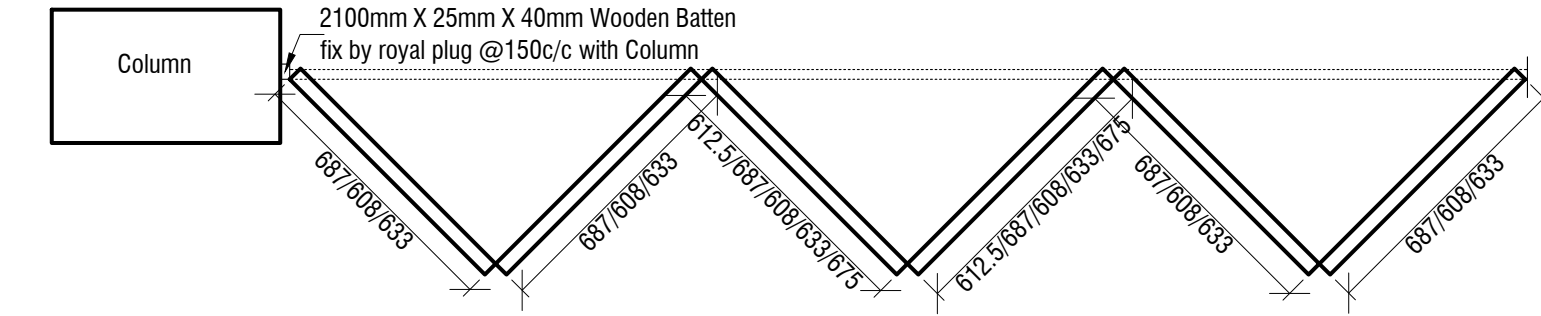


GROUND FLOOR PLAN  
WITH WINDOW MARK

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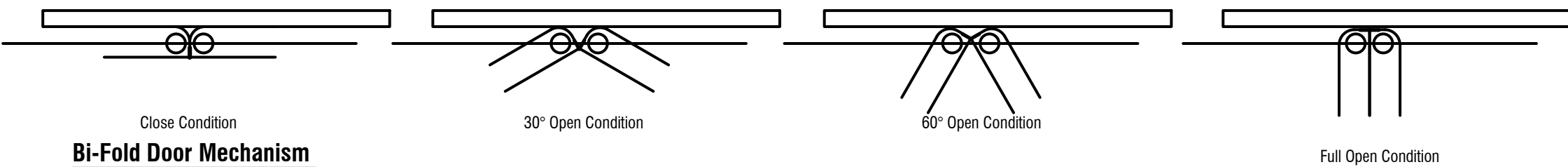


Elevation of Bi-fold Door

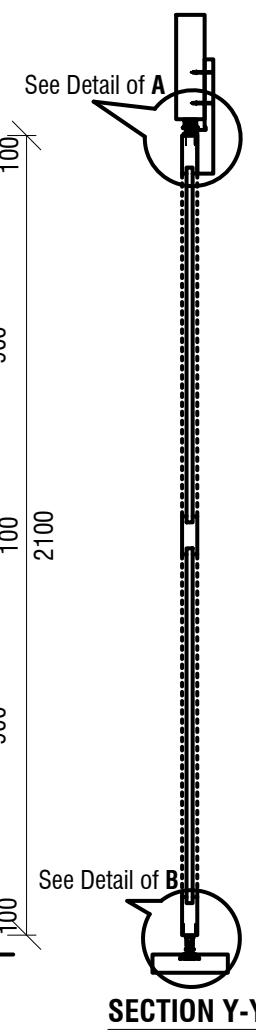


Plan of Bi-fold Door (Half)

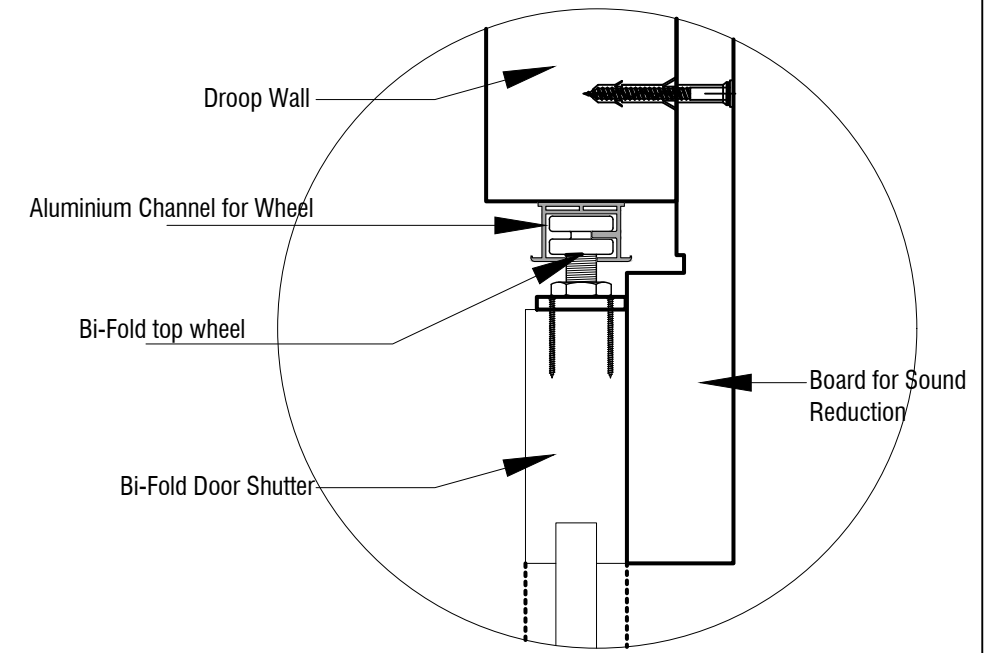
Bi-Fold Panel Dimension	Door Location
687	Emergency Exit
608	Multi Purpose Hall Partition
633	Main Entry



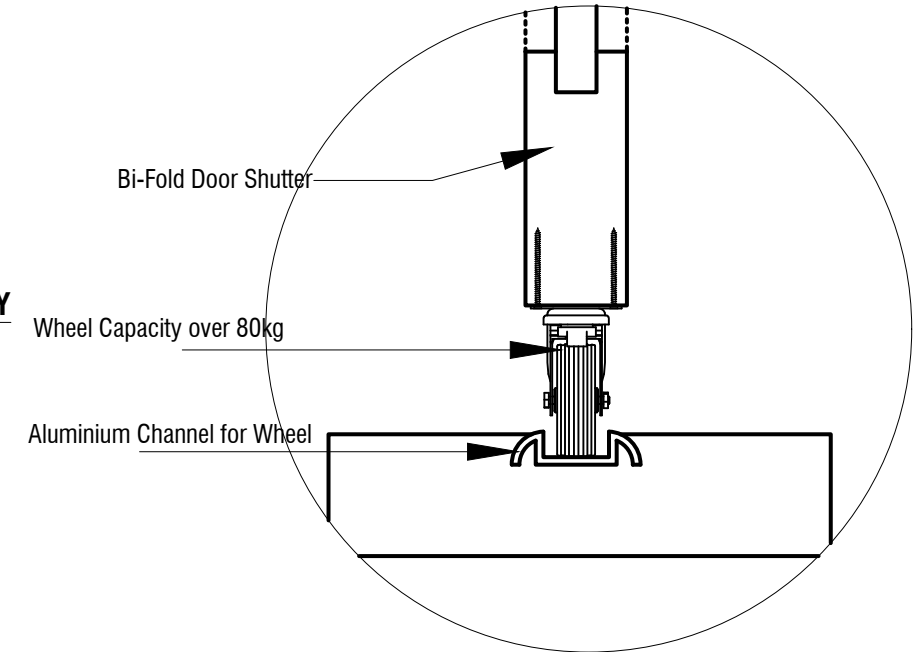
Bi-Fold Door Mechanism



SECTION Y-Y



Detail of A



Detail of B

NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:	SHEET NO:
 MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	Package No: SCI/MPDS/B11-20-01 Revision No: Issued for Tender	FOLDING DOOR DETAIL  All Dimension are in Millimeter unless mentioned	A-11 SCALE AS SHOWN



**USAID**  
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**Save the Children**

# Multipurpose Disaster Shelter Support (MPDS) Project

## STRUCTURAL DESIGN & DRAWINGS

### FOR

CONSTRUCTION OF MULTIPURPOSE DISASTER SHELTER AT TELUNIAPARA (PARA CENTER) UNDER  
AZIZNAGAR UNION, UPAZILA: LAMA, DISTRICT: BANDARBAN

**Issued for Tender**



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

APRIL, 2023

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NOTES

THIS NOTE VALID FOR THE DRAWING RELATED TO THIS PROJECT:

1. PLEASE DO NOT SCALE FROM THE DRAWINGS.
2. ALL DIMENSIONS ON THIS DRAWINGS SHALL BE CHECKED ON SITE BEFORE WORK COMMENCES. FIGURED DIMENSIONS SHALL BE TAKEN IN PREFERENCE TO SCALE DIMENSIONS.
3. NO KICKER SHALL BE MADE FOR COLUMNS UNDER ANY CONDITION.
4. ALL AGGREGATES SHALL BE PROPERLY WASHED.
5. PROJECT ENGINEER , SITE ENGINEER , CONTRACTORS & THE SUB CONTRACTORS SHALL CHECK AND CONFIRM THE FOLLOWING PARAMETERS AS PER DRAWINGS BEFORE BEGINNING THE WORKS:

a) REINFORCEMENT POSITION

a) DEVELOPMENT LENGTH

b) CLEAR COVER

c) CONCRETE MIX RATIO

d) ALL DIMENSIONS AND LEVEL
6. PROJECT ENGINEER , SITE ENGINEER , CONTRACTORS & THE SUB CONTRACTORS IS TO NOTIFY THE INFRASTRUCTURE MANAGER/MANAGER-ENGINEERING ABOUT ANY DISCREPANCIES / DIFFERENCES CONTAINED IN THE DRAWING (IN RELATION TO OTHER DRAWINGS) BEFORE BEGINNING THE WORK .

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DRAWINGS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF MPDS WHETHER THE PROJECT FOR WHICH THEY ARE MADE IS EXECUTED OR NOT. THEY ARE NOT TO BE USED ON OTHER PROJECTS OR EXTENSIONS TO THE PROJECT OR OTHER SIMILAR PROJECTS EXCEPT ANY WRITTEN AGREEMENT.

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 - 2019, ACI 318-19/318R-19, 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-II 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):

COARSE SAND (ANGULAR SHAPE) F.M = 2.0 ~2.8  
LOCAL SAND Medium (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 525 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 FOR FOOTING:

CONCRETE COMPRESSIVE STRENGTH  $f_c = 25$  MPa. AT 28 DAYS  
PROPOSED MIXING RATIO = 1:1.5:3 (FIXED)  
MAXIMUM WATER CEMENT RATIO = 0.40  
CEMENT (BDS EN 197-1 : 2003) = PORTLAND COMPOSITE CEMENT (CEM-II)  
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 =  $\leq 30$   
MINIMUM SLUMP = 75MM  
MIXING METHOD = USING CONCRETE MIXER

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

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<div><div></div><div>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div></div>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban	SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<div>Package No: SCI/MPDS/B11-20-01</div> <div>Revision No:</div> <div>Issued for Tender</div>	GENERAL NOTES-1	All Dimension are in Millimeter unless mentioned	<div>SUB-01</div> <div>SCALE</div> <div>AS SHOWN</div>



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

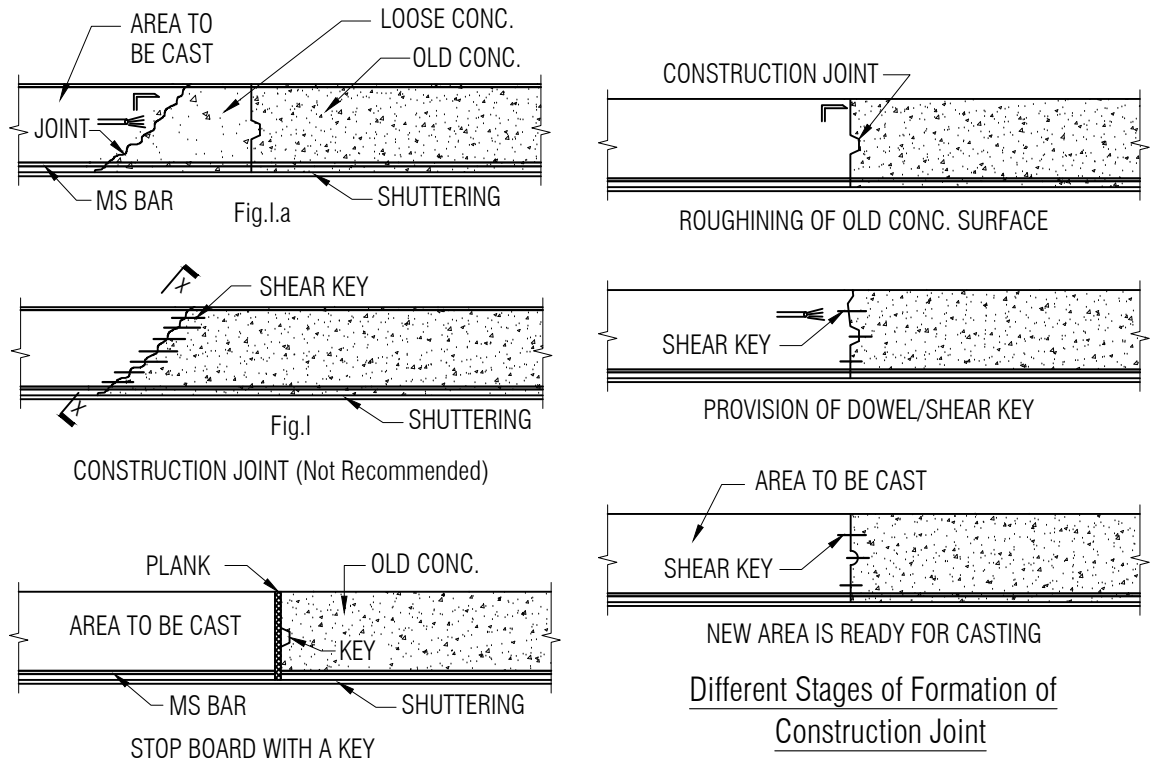
4. SUB STRUCTURE:

4a) FOUNDATION:

- i) THE BUILDING HAS BEEN DESIGNED FOR 1 - STORIED MULTIPURPOSE DISASTER SHELTER BUILDING.  
ii) FOUNDATION TYPE - R.C.C. INDIVIDUAL FOOTING.  
iii) ANY LOOSE POCKET FOUND IN FOUNDATION BED IS TO BE FILLED UP WITH COMPACTED SAND OF MIN FM 2.5 .  
iv) DEPTH OF FOUNDATION: AS PER DRAWING.

4b) CHAIRS:

- i) USE CHAIRS OF NECESSARY DIMENSION MADE OF 10Ø /12Ø/16Ø BAR TO SUPPORT TOP BARS @ 750mm c/c.



5. CONCRETE CLEAR COVER FOR REINFORCING BARS:

Member	Location / Condition	Thickness of Cover	Figure
Footing	Bottom	75	
	Side	75	
Column	Above Ground Level	* 40	
	Below ground level	* 75	
U.Ground R.C.C (200mm & above)	Exterior	50	
	Interior	50	

6. CURING OF R.C.C WORK :

11a) CURING TIME MINIMUM 21 DAYS (UNLESS OTHERWISE SPECIFIED)

11b) METHOD OF CURING :

- i) HORIZONTAL SURFACE - BY POUNDING OF WATER  
ii) OTHER SURFACES - BY WRAPPING MOIST JUTE FABRIC OR SPRINKLING WATER BY HOSE PIPE FREQUENTLY.

7. SCHEDULE FOR REMOVING FORM WORK:

12a) VERTICAL SIDES

- i) FOR BEAM = 48 hr.  
ii) COLUMN = 72 hr.

12b) BOTTOM SIDES : ALLOW MINIMUM ONE DAY PER FEET OF BEAM SPAN LENGTH BUT NOT LESS THAN 14 DAYS.

12c) SLAB : MINIMUM 28 DAYS.

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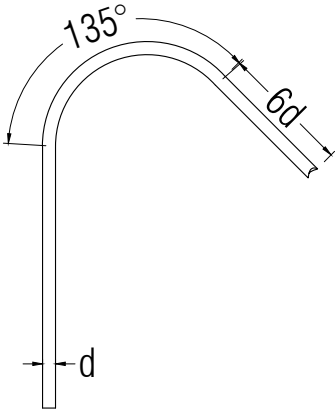
8. EARTH QUAKE CONSIDERATION:

8a) LAP OR DEVELOPMENT LENGTH (SPECIALLY FOR EARTHQUAKE CONSIDERATION):  
UNLESS OTHERWISE MENTIONED IN THE DRAWINGS, LAP LENGTH OF BARS SHALL BE :

BAR DIA (mm)	TENSION (mm)		COMPRESSION (mm)
	TOP BARS (50d)	BOTTOM BARS (50d)	ALL BARS (50d)
8Ø	400	400	400
10Ø	500	500	500
12Ø	600	600	600
16Ø	800	800	800
20Ø	1000	1000	1000
22Ø	1100	1100	1100
25Ø	1250	1250	1250
28Ø	1400	1400	1400
32Ø	1600	1600	1600

8b) FOR SEISMIC CONSIDERATION MAXIMUM 50% LAP SPLICE FOR COLUMN MUST BE LOCATED WITHIN CENTER HALF OF LENGTH IN EACH FLOOR.

8c) FOR SEISMIC CONSIDERATION ALL TIE BAR IN COLUMN MUST BE BEND AS SHOWN IN FIG.



8d) STIRRUP & MAIN BAR MUST BE KEPT IN RIGHT ANGLE.


9. SOME MORE NOTE :

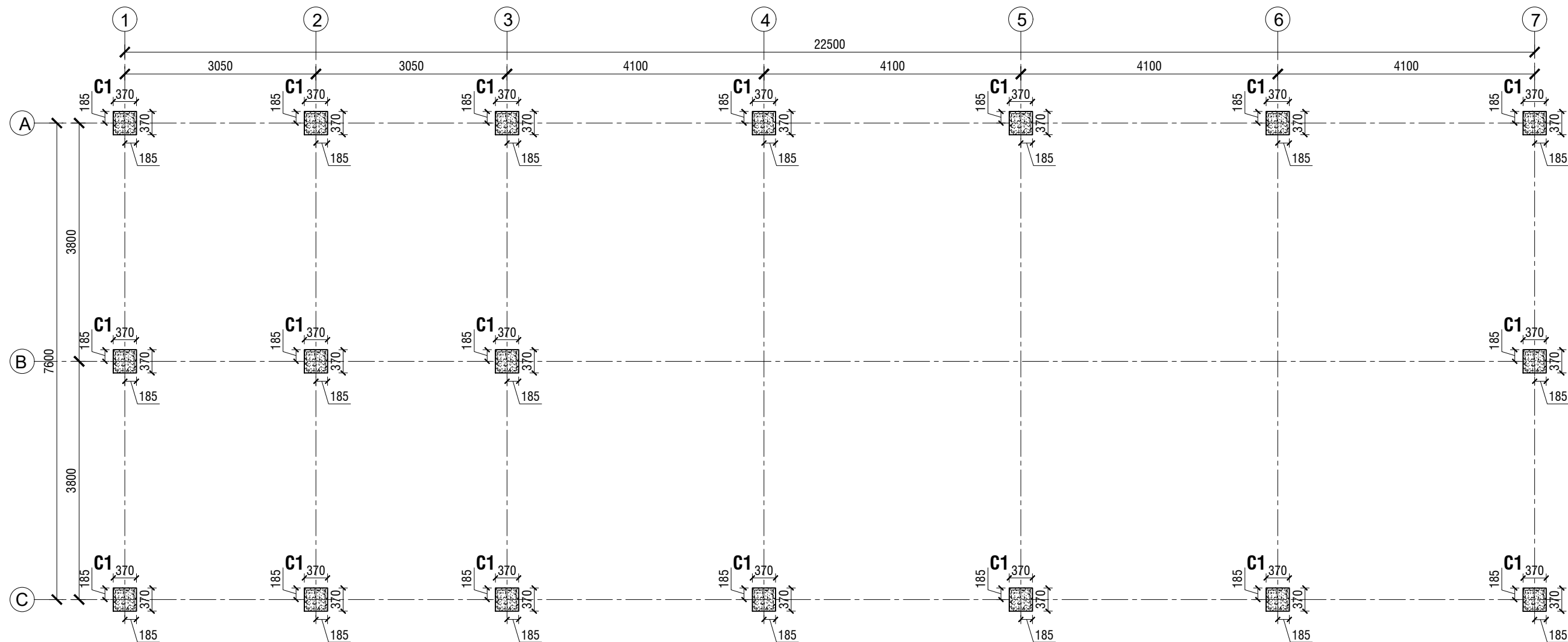
- a) REINFORCEMENT FOR FALSE SLAB ARE 10mmØ @ 150mm c/c.
- b) ALL FALSE SLAB THICKNESS ARE 75mm UNLESS INDICATED WITHIN THE DRAWING.
- c) ALL FALSE SLAB AND LINTEL BOTTOM LEVEL SHOULD BE MAINTAINED AS PER INSTRUCTION OF ARCHITECTURAL DRAWINGS.
- d) ALL OUT SIDE MEASUREMENT OF FALSE SLAB MUST BE RE-CHECKED FROM ARCHITECTURAL DRAWING.
- e) TEST FREQUENCY OF MATERIALS:

SL	Item Work	Type of Test	Test Frequency
01	Concrete	Sand FM	One/50m³
		W/A Coarse Aggregate	One/50m³
		LAA / ACV	One/50m³
		Gradation of CA	One/50m³
		Setting Time of Cement	One/50m³
		Compressive Strength of Cement (7, 28 days)	One/50m³ (Before Construction)
		Compressive Strength of Concrete (7, 28 days)	One/50m³ (During Construction)
02	Brick Work	Compressive Strength of Brick	One set /300 m³
		Water Absorption of Brick	One set /300 m³
		Efflorescence of Brick	One set /300 m³
		Setting Time of Cement	One set /300 m³
		CS of Cement (7, 28 days)	One set /300 m³
		Sand FM	One set /300 m³
03	Reinforcement	Unit weight, Elongation & Tensile Strength	One set / Dia/ 10000Kg
04	Plaster	Sand FM	One/3000m²
		Setting Time of Cement	One/3000m²
05	Others Item	Any	As per CODE/Schedule




Note: If the number of tests to be performed as per specified test frequency for any item becomes a whole number with a fraction equal to 0.20 or less in that case the actual number of the test shall be the whole number only. On the other hand, if the fraction is more than 0.20 then the actual number of tests for that item shall be rounded to the next whole number. The engineer in Charge has the right to increase the no of tests for any item beyond the set frequency as deemed necessary to ensure the quality and the contractor is to perform the additional tests on his own. For any additional test by the Engineer in charge required to ensure the quality, the bill will be as per the actual voucher of the recognized testing institute.

MPDS has the right to test any materials in their own laboratory with or without the presence of the contractor or his representative. No payment and voucher will be made for any test in the MPDS laboratory.

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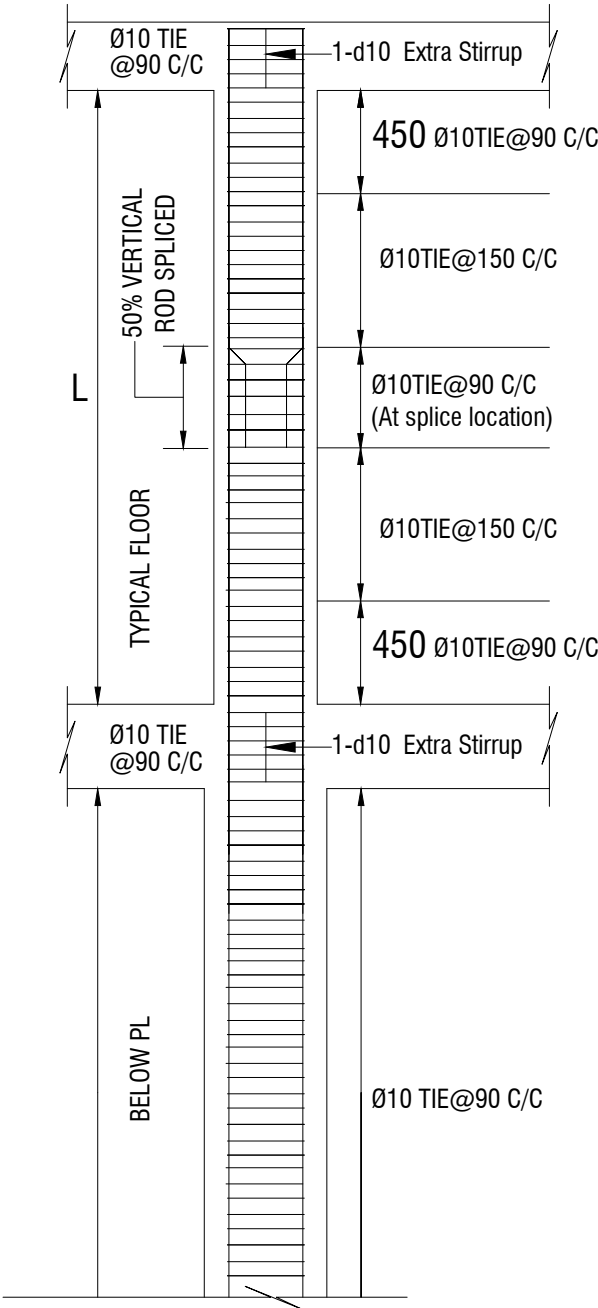
**COLUMN LAYOUT PLAN**  
SCALE: 1:75

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COLUMN SCHEDULE:




COL.ID	Below PL	Above PL
C1	<div><div>370</div><div>370</div><div>6-16mmØ</div><div>TIE:10mmØ @90 mm c/c</div><div>Clear Cover 75mm</div></div>	<div><div>300</div><div>300</div><div>6-16mmØ</div><div>TIE:10mmØ @90/150/90 mm c/c</div><div>Clear Cover 40mm</div></div>

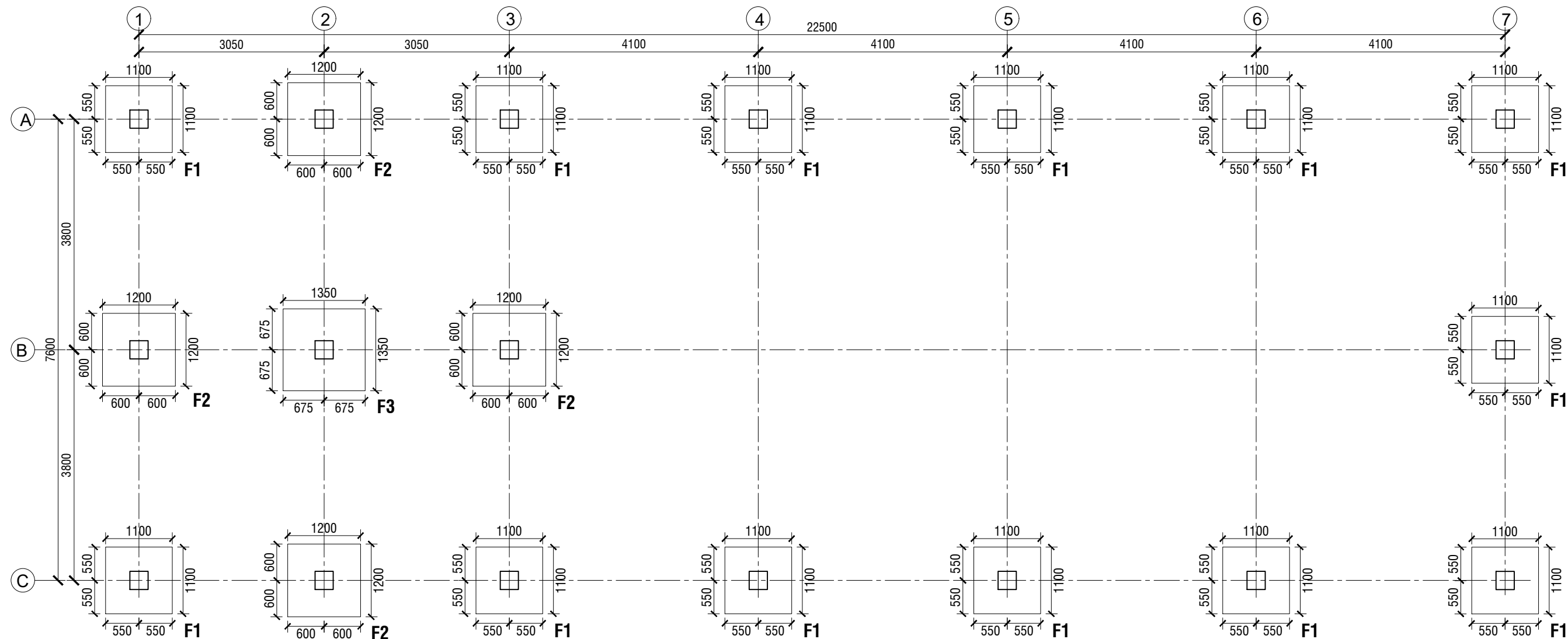
COLUMN TIE ARRANGEMENT





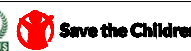
NOTES FOR CRUSHING STRENGTH OF CONCRETE

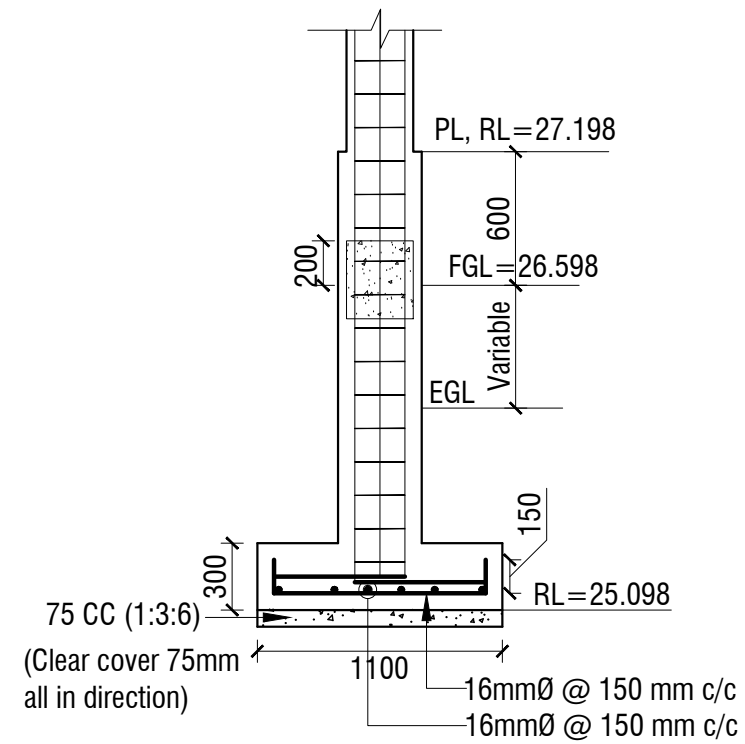
- Concrete Compressive Strength  $F_c'$  = 25 MPa. at 28 Days
- Proposed Mixing Ratio = 1:1.5:3 (Fixed)
- Maximum Water Cement Ratio = 0.40
- Cement (BDS EN 197-1 : 2003) = Portland Composite Cement (CEM-II)
- Admixture (ASTM-C494) = Type-A or approved by E-I-C
- Fine Aggregate (Sand) FM = 2.2
- Course Aggregate (Chips) = 20mm Down Well Graded Crushed stone
- LAA value for Course Aggregate =  $\leq 30$
- Minimum Slump = 75mm
- Mixing Method = Using Concrete Mixer

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<div><div> <b>USAID</b> FROM THE AMERICAN PEOPLE</div><div> <b>care</b> GATEWAY</div><div> <b>Save the Children</b></div></div> <div>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<div>Package No: SCI/MPDS/B11-20-01</div> <div>Revision No:</div> <div>Issued for Tender</div>	<b>COLUMN SCHEDULE</b>	All Dimension are in Millimeter unless mentioned	<div>SUB-05</div> <div>SCALE</div> <div>AS SHOWN</div>

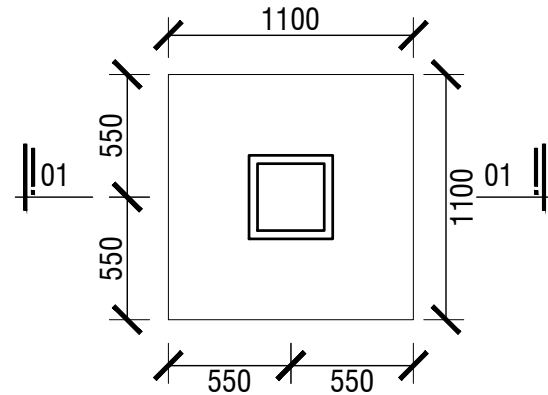


**FOOTING LAYOUT PLAN**  
SCALE: 1:75

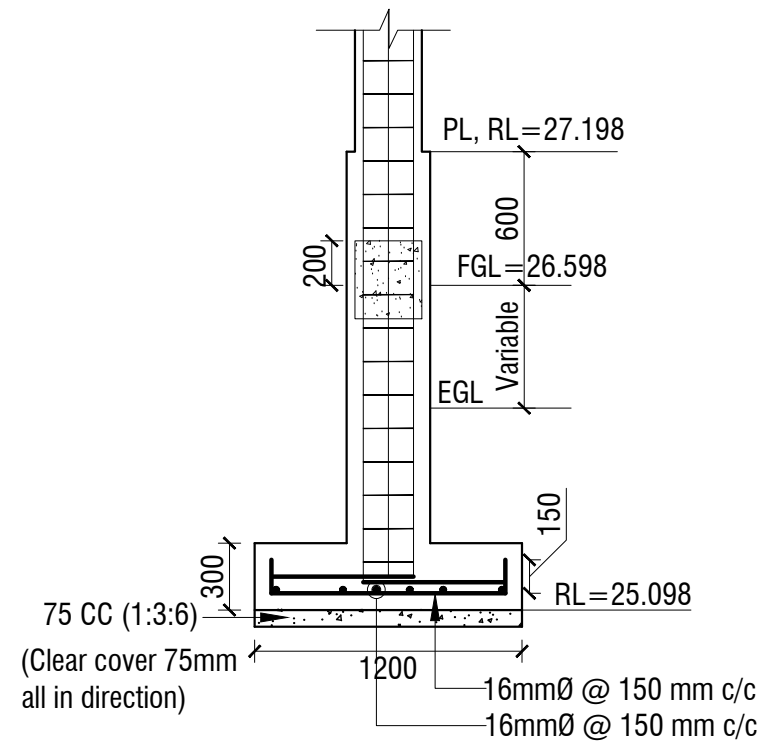
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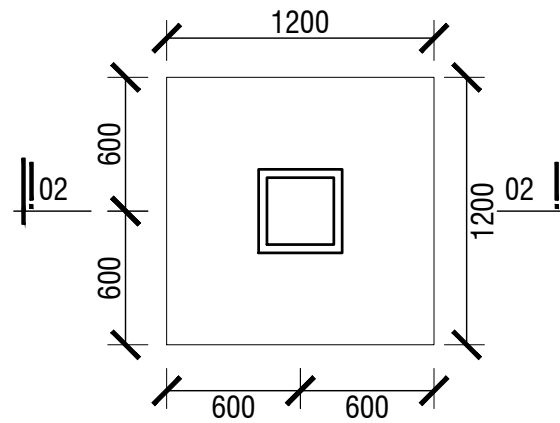
**FOOTING SECTION ( 01-01)**



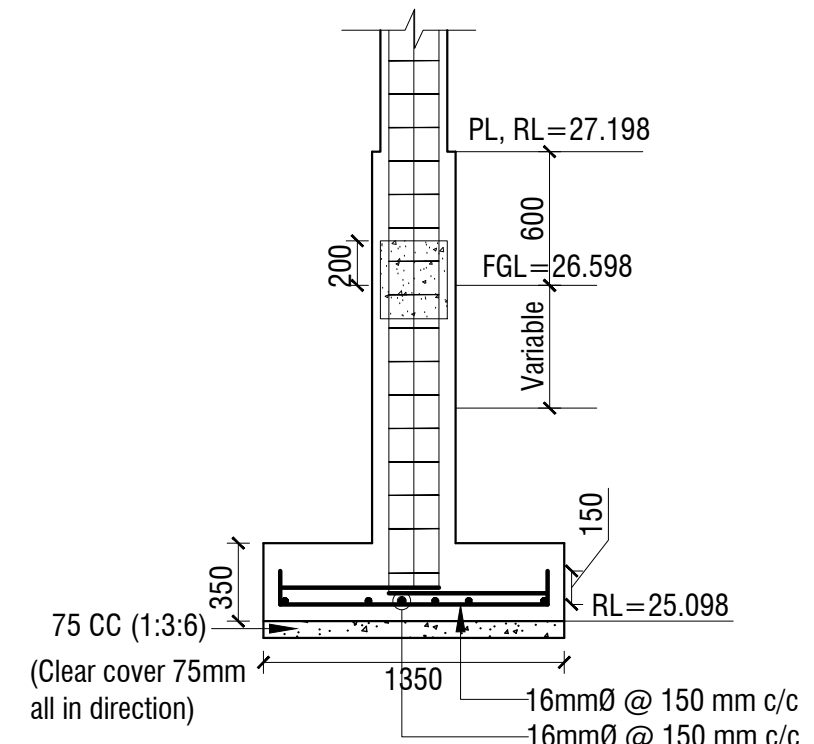
**FOOTING PLAN (F1)**



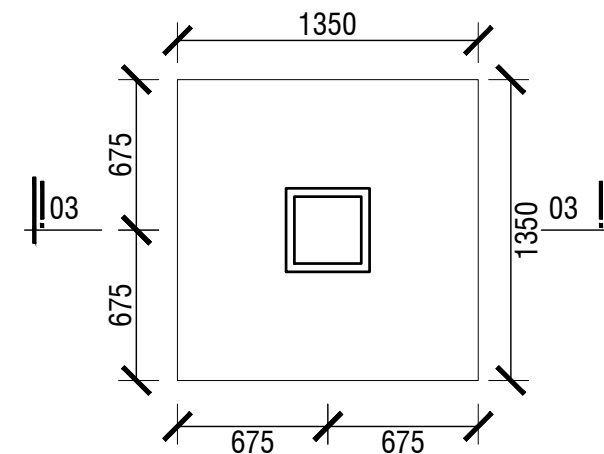
**FOOTING SECTION ( 02-02)**





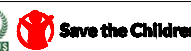
**FOOTING PLAN (F2)**



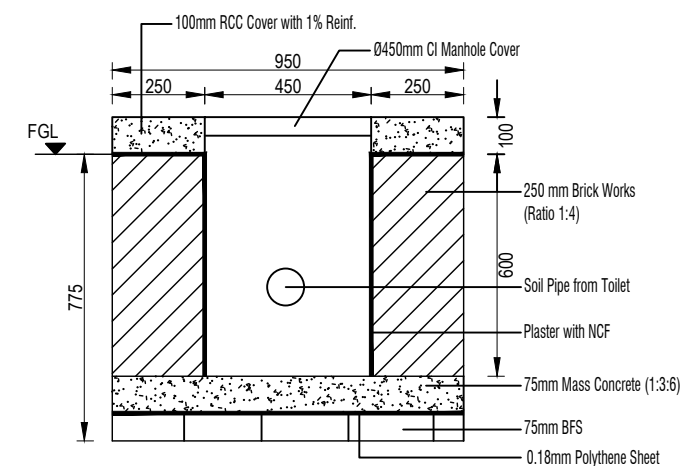
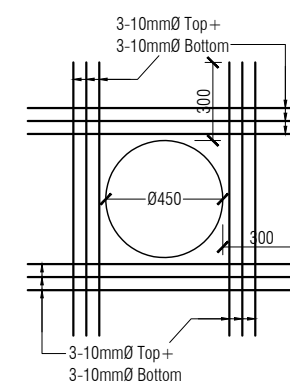
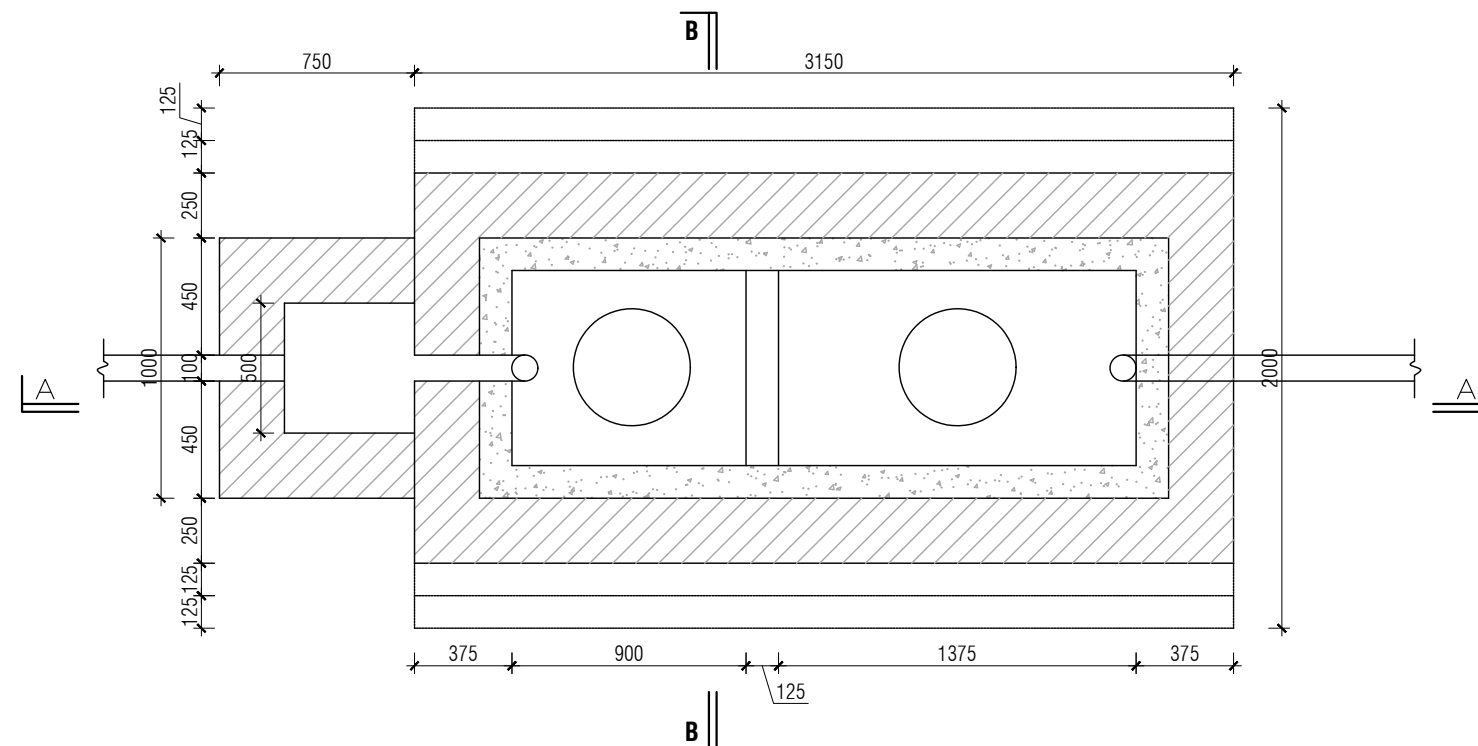
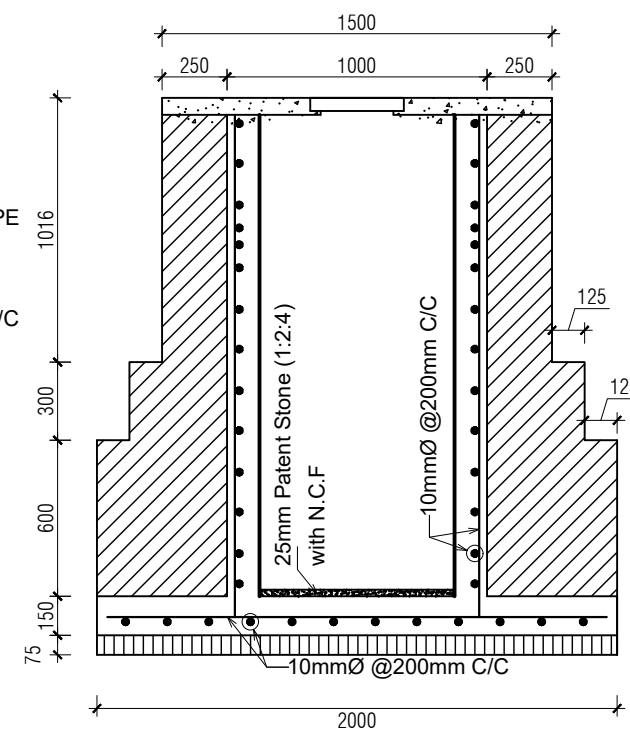
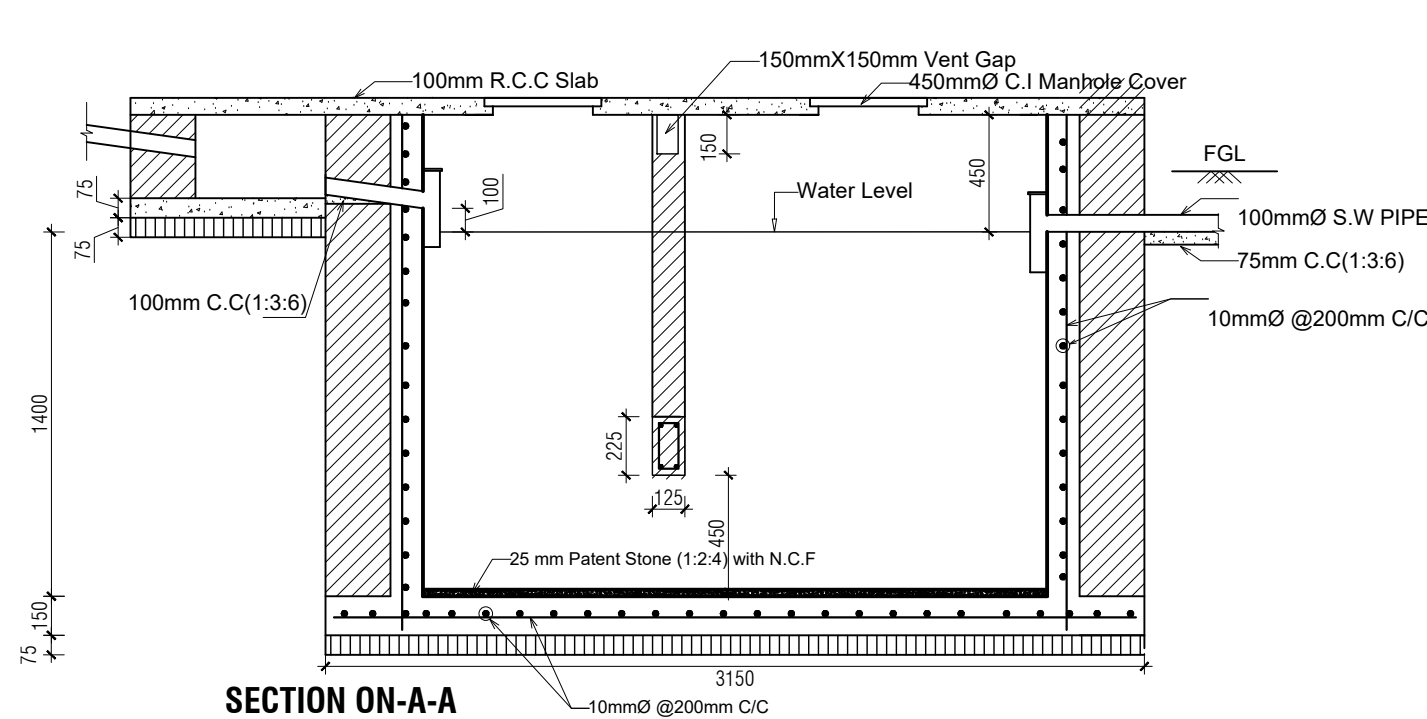
**FOOTING SECTION ( 03-03)**





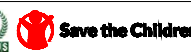
**FOOTING PLAN (F3)**

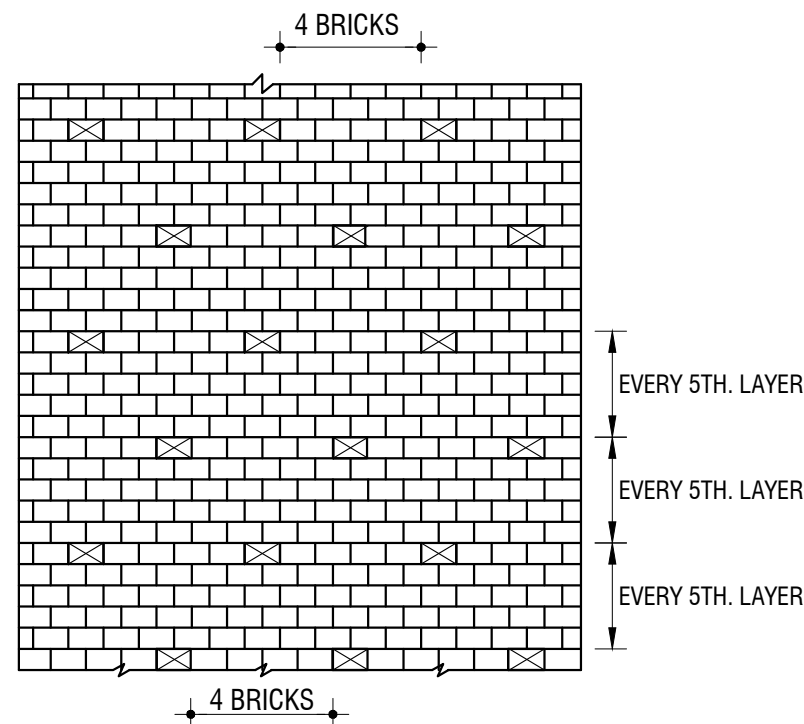
NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:	SHEET NO:
   <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban  <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>DETAILS OF FOOTING</b> All Dimension are in Millimeter unless mentioned	<b>SUB-07</b> <b>SCALE</b> AS SHOWN



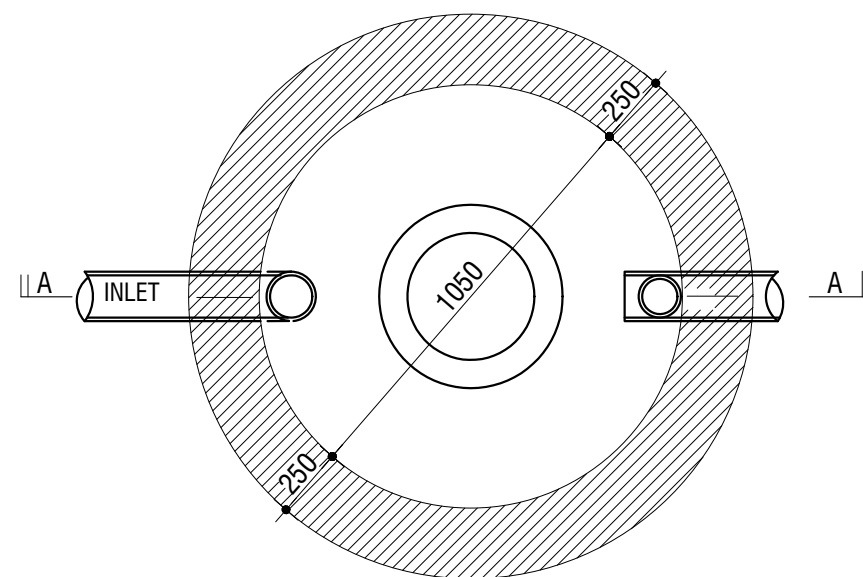


Septic Tank Location is shown in Page GEN-02

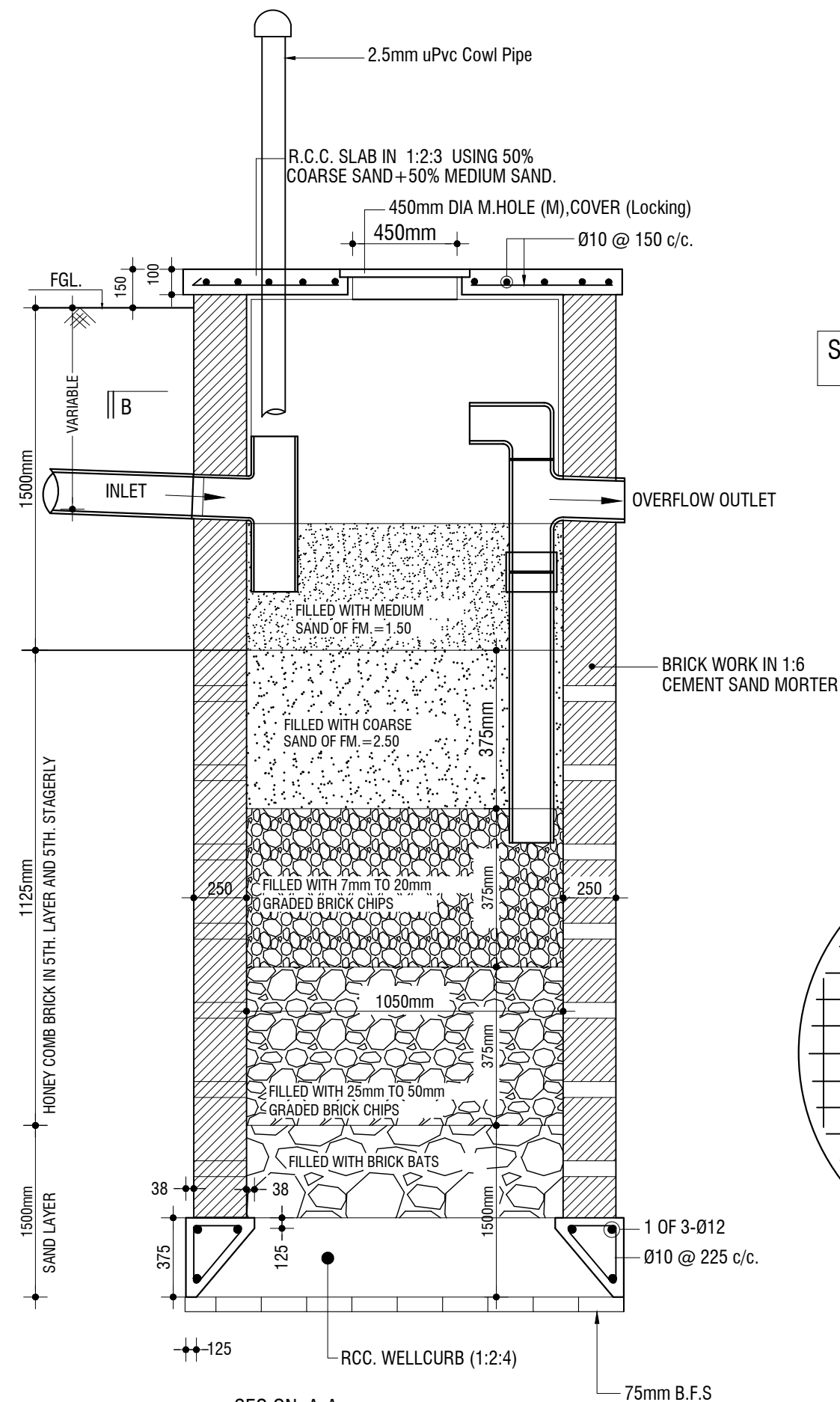
NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:	SHEET NO:
   <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>SEPTIC TANK DETAIL</b> All Dimension are in Millimeter unless mentioned	<b>SUB-08</b> <b>SCALE</b> AS SHOWN



ELEVATION OF SOAK WELL(PART)

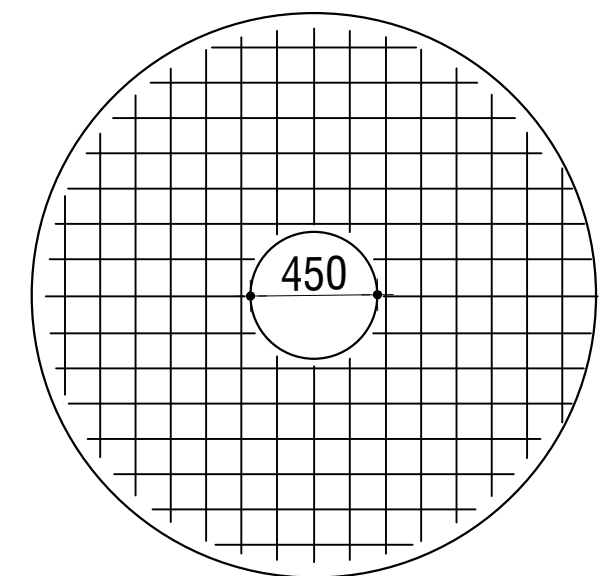


PLAN OF SOAK WELL & OUT LET OF SOAK WELL



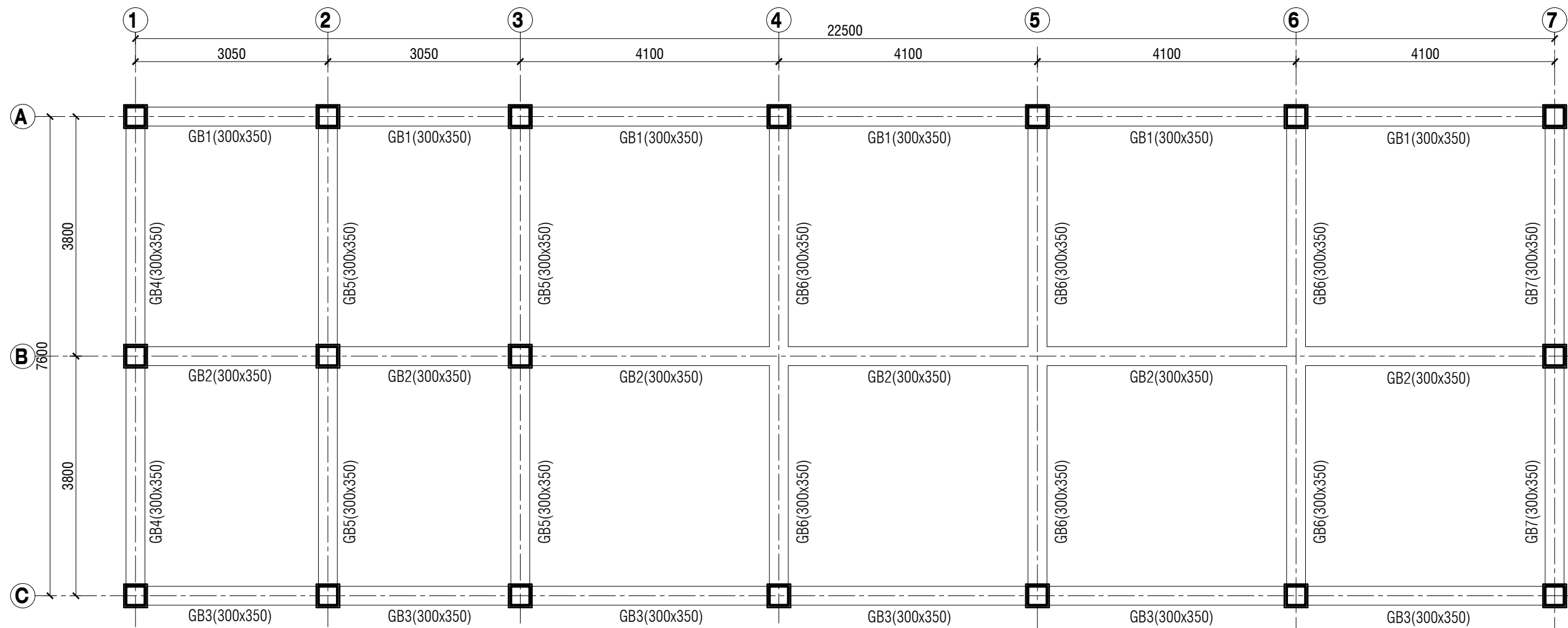
SEC ON A-A

Soak Well Location is shown in Page **GEN-02**






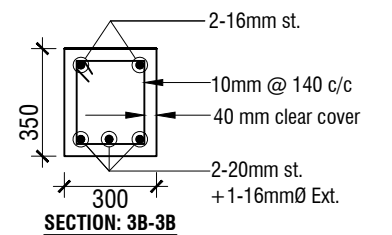
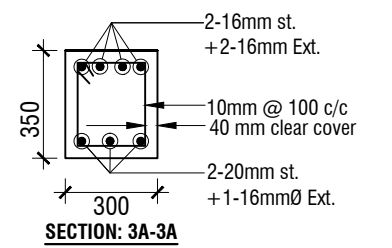
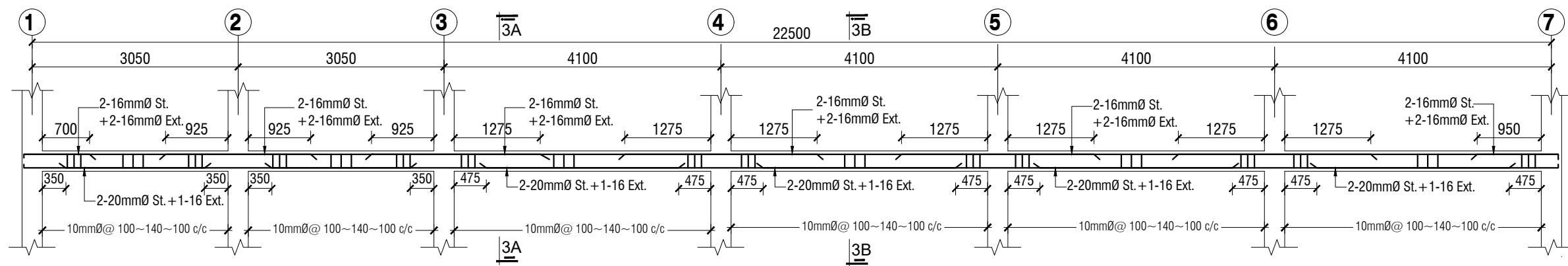
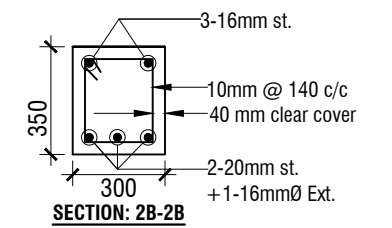
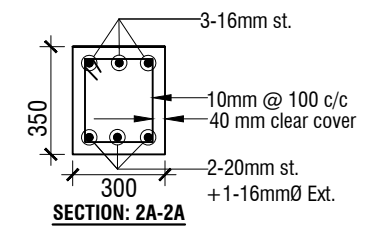
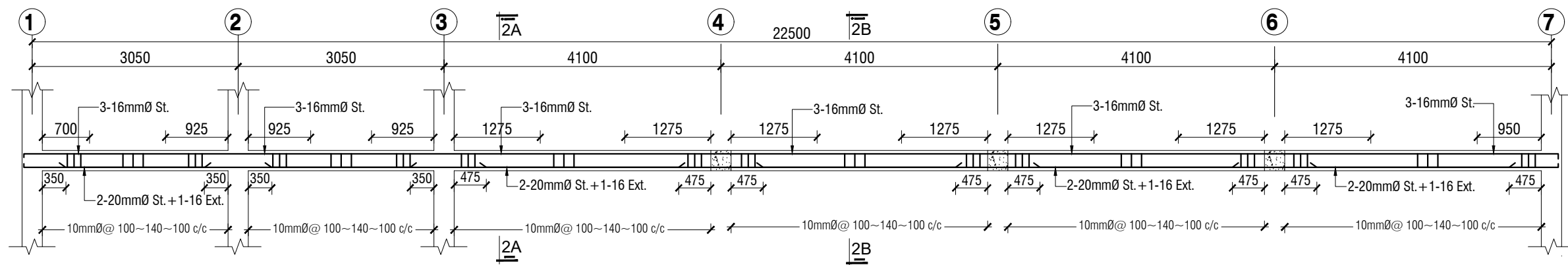
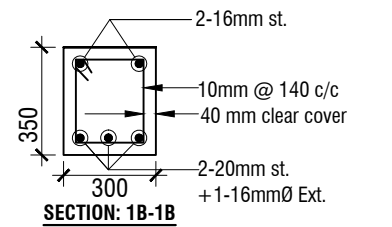
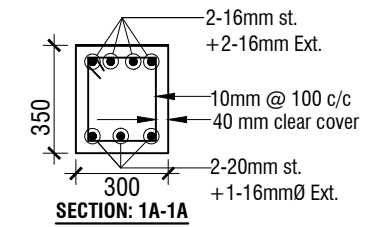
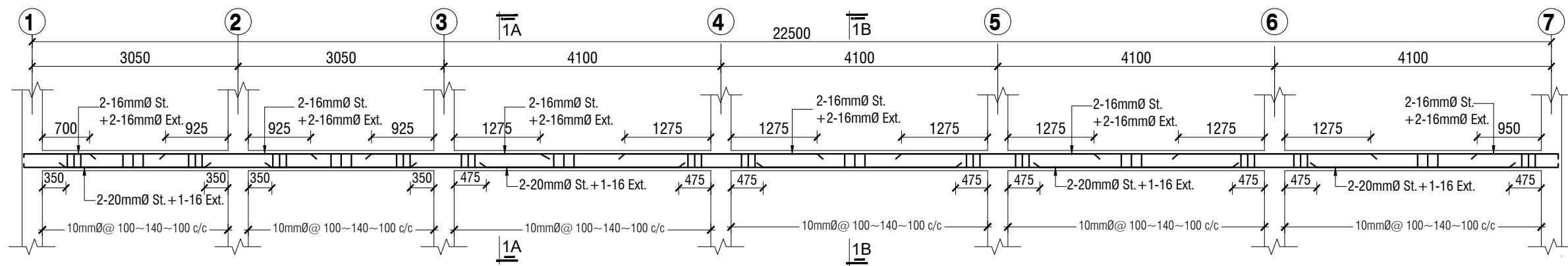
REINF. PLAN OF TOP SLAB

NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN 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 Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>SOAK WELL DETAILS</b> All Dimension are in Millimeter unless mentioned	<b>SUB-09</b> <b>SCALE</b> AS SHOWN

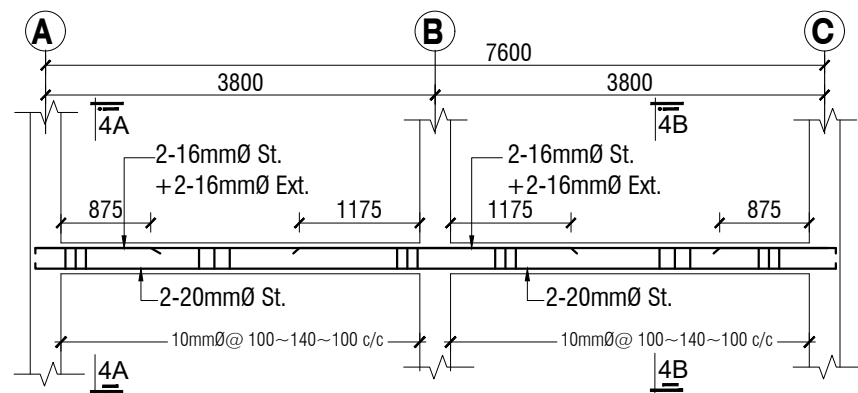


GRADE BEAM LAYOUT PLAN  
SCALE: 1:75

NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<div></div> <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>FLOOR BEAM LAYOUT PLAN</b>	All Dimension are in Millimeter unless mentioned	<div>SUP-01</div> <div>SCALE</div> <div>AS SHOWN</div>

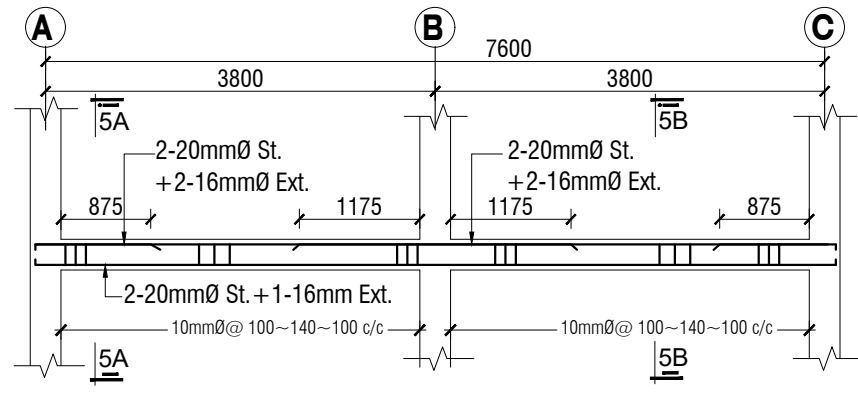


NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:	SHEET NO:
<b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>FLOOR BEAM DETAILS-1</b>	All Dimension are in Millimeter unless mentioned <b>SUP-02</b> <b>SCALE</b> AS SHOWN

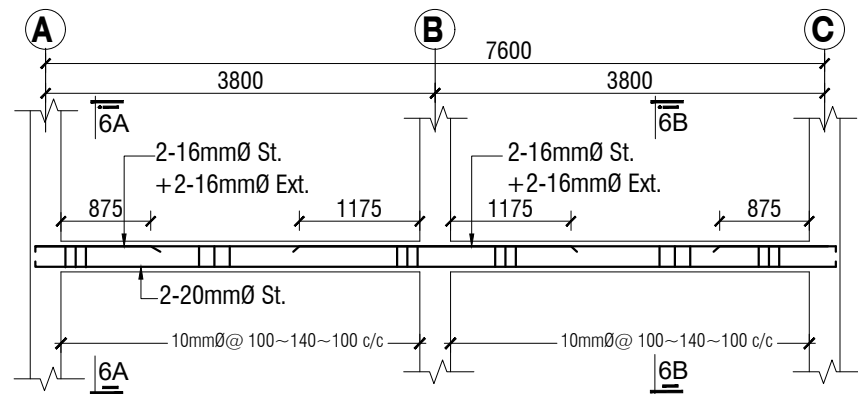


**LONG SECTION OF GRADE BEAM GB4 (300x350)**

SCALE: 1:75

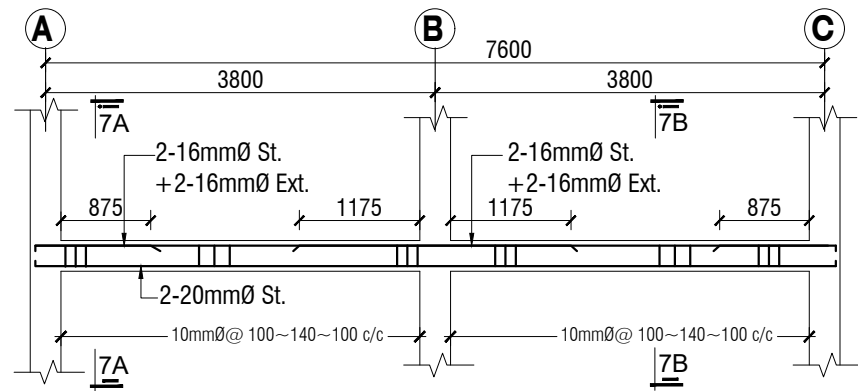


**LONG SECTION OF GRADE BEAM GB5 (300x350)**

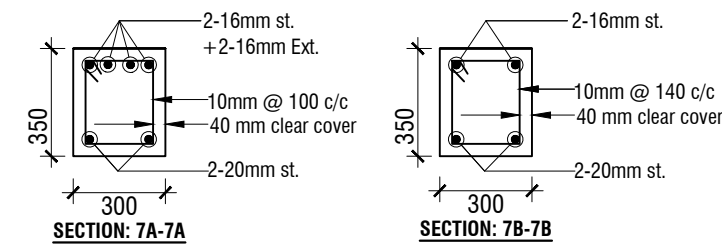
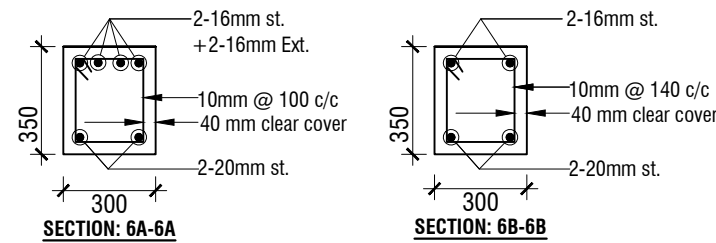
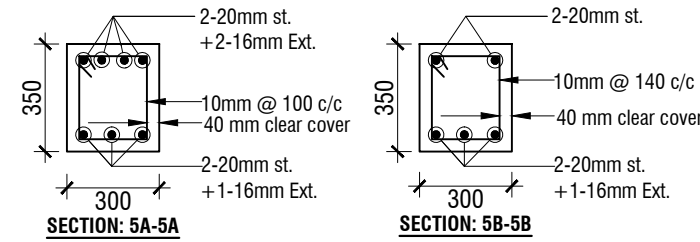
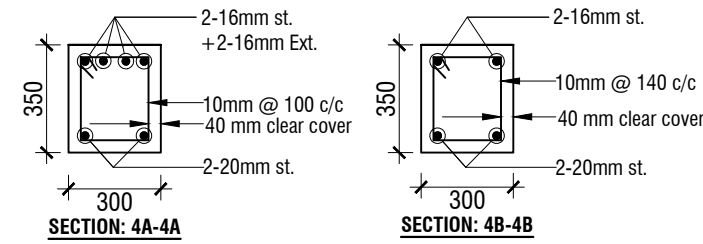




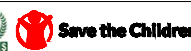
**LONG SECTION OF GRADE BEAM GB6 (300x350)**

SCALE: 1:75



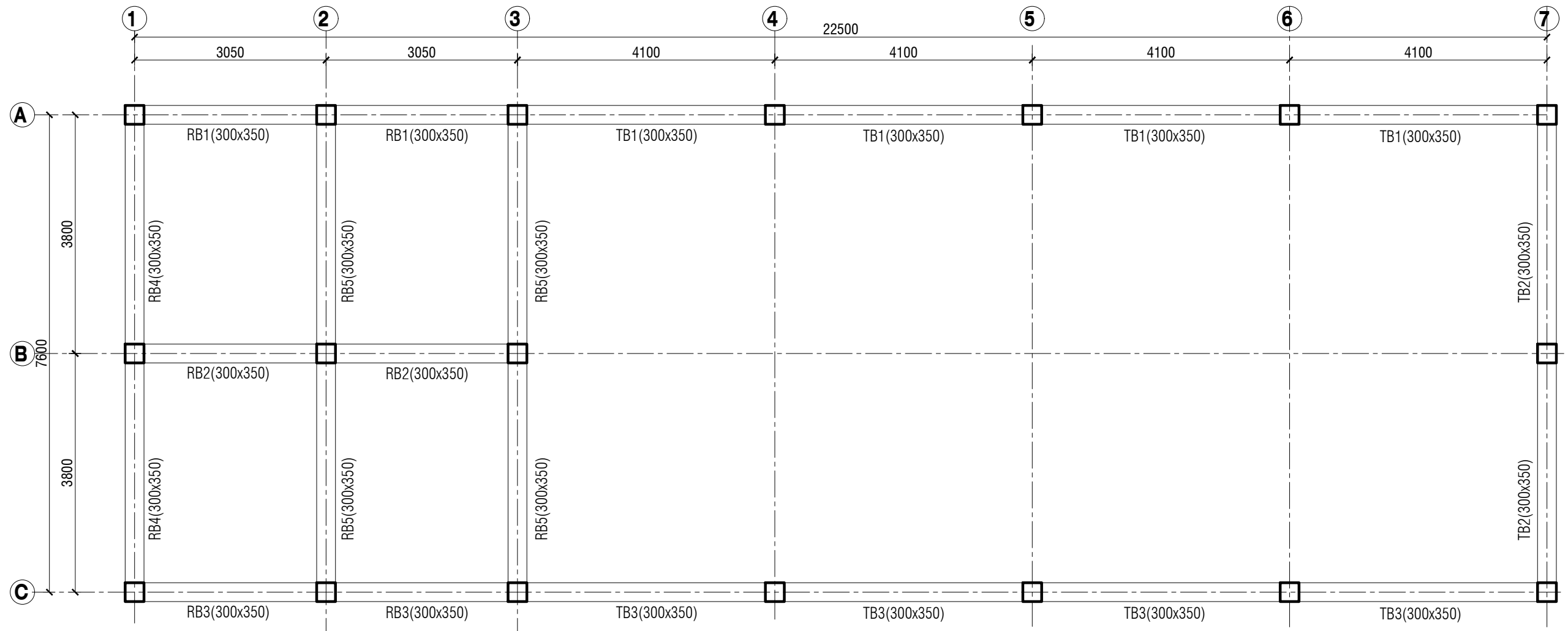
**LONG SECTION OF GRADE BEAM GB7 (300x350)**






NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN 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 Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>GRADE &amp; GRADE BEAM DETAILS-2</b>	All Dimension are in Millimeter unless mentioned SUP-03 <b>SCALE</b> AS SHOWN



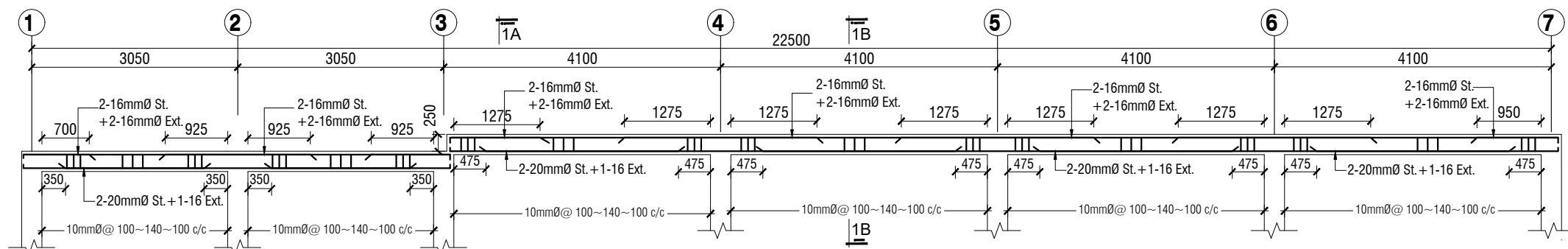




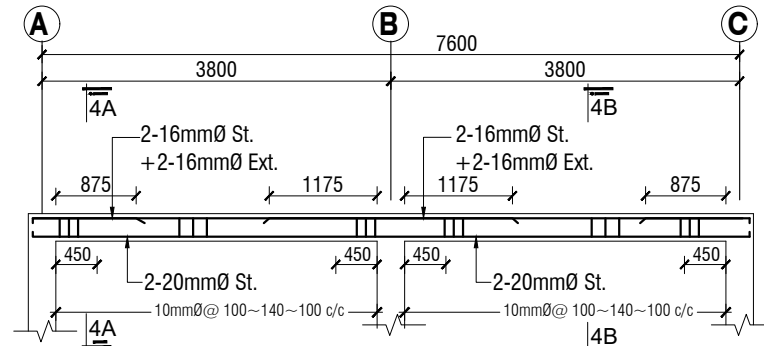
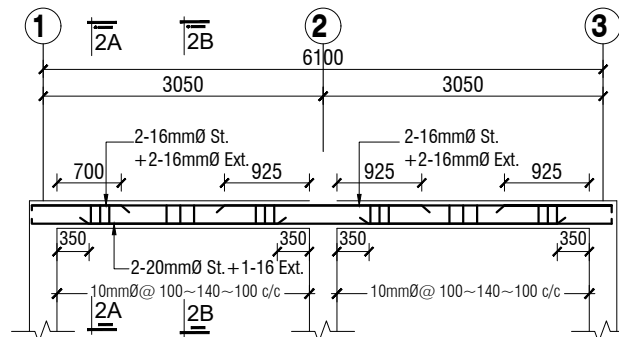
ROOF & TIE BEAM LAYOUT PLAN  
SCALE: 1:75

NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<div></div> <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>ROOF &amp; TIE BEAM LAYOUT PLAN</b>	All Dimension are in Millimeter unless mentioned	<div>SUP-05</div> <div>SCALE</div> <div>AS SHOWN</div>

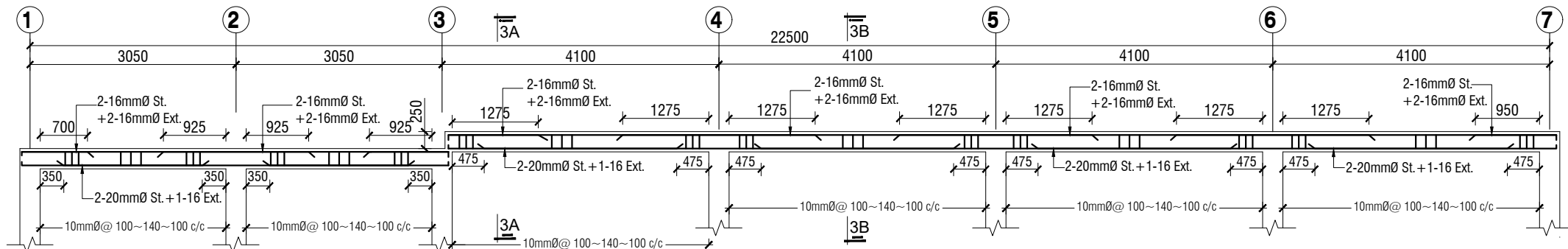




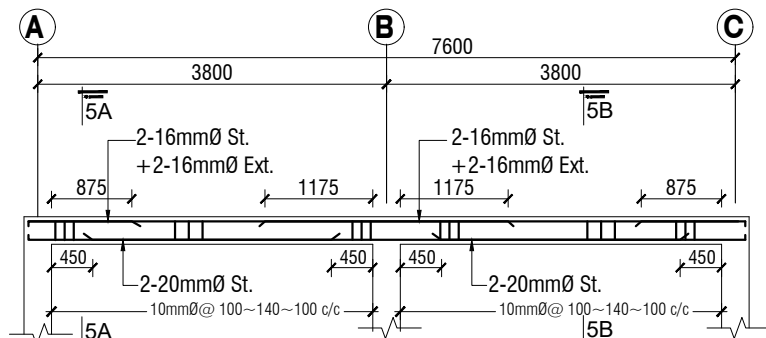
**LONG SECTION OF TIE BEAM TB1 (300x350)**



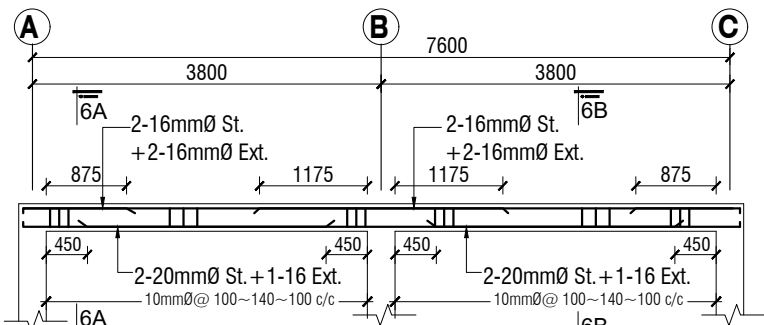
SCALE: 1:75



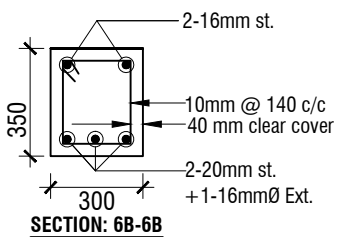
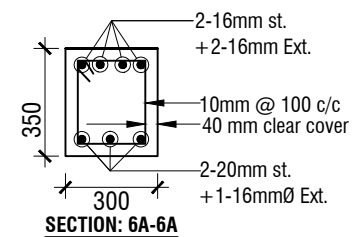
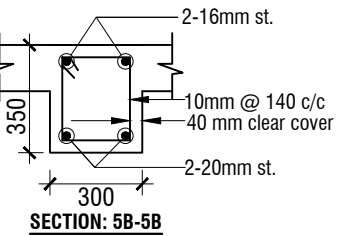
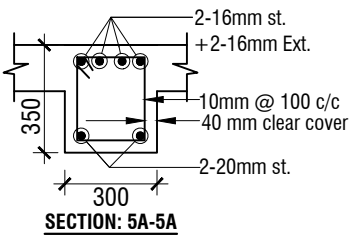
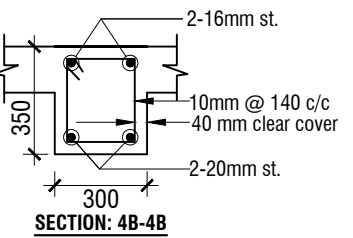
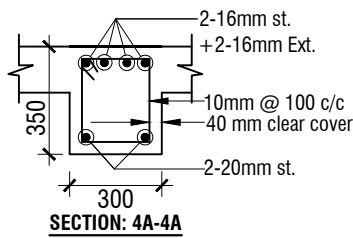
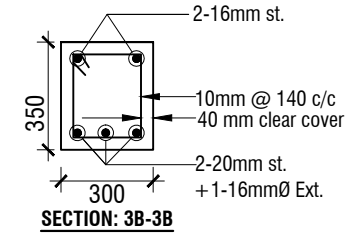
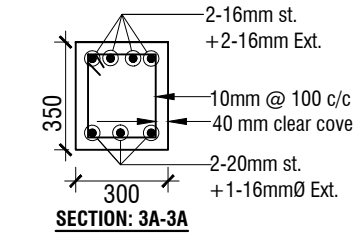
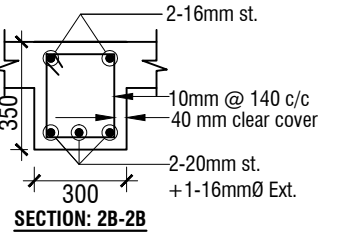
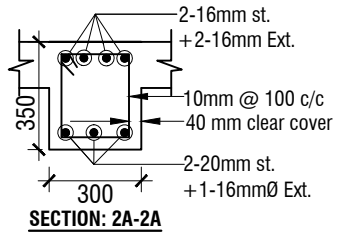
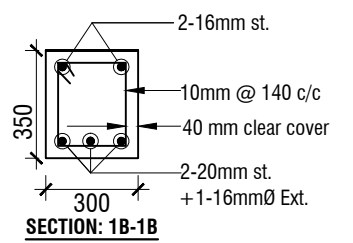
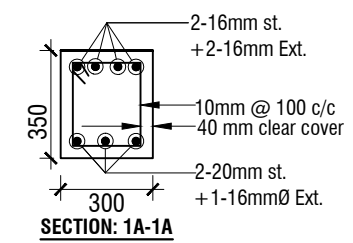
**LONG SECTION OF TIE BEAM TB3 (300x350)**



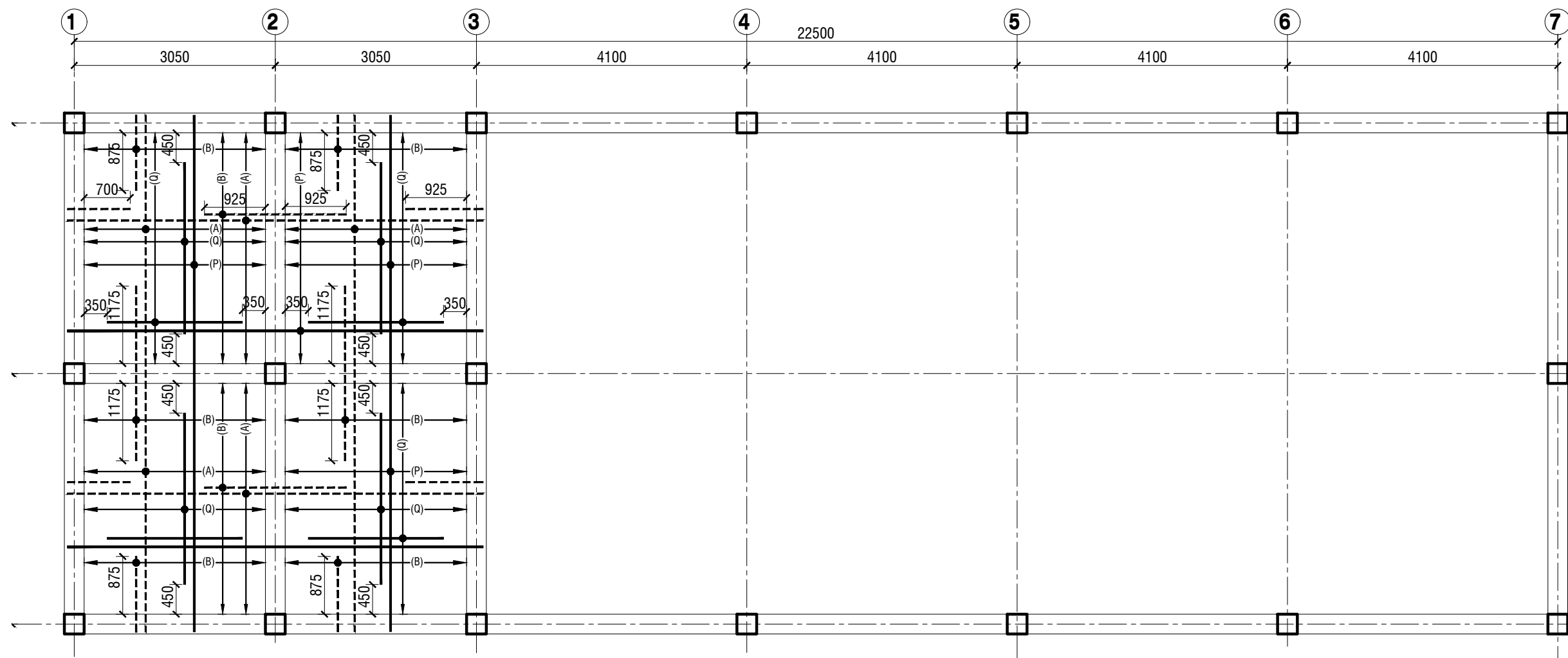
SCALE: 1:75



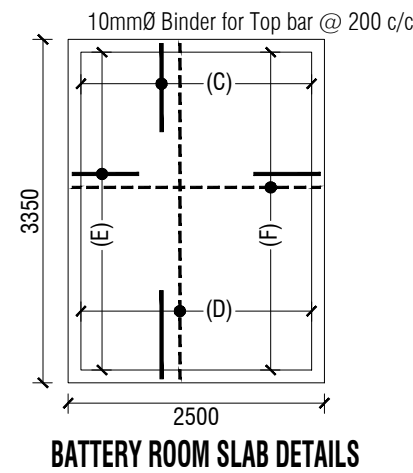
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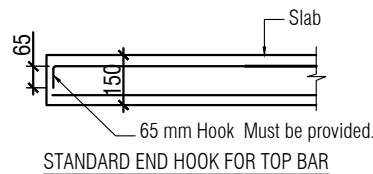
NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:	SHEET NO:
<b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>ROOF &amp; TIE BEAM DETAILS</b> All Dimension are in Millimeter unless mentioned	SUP-06 SCALE AS SHOWN



**ROOF SLAB DETAILS**  
SCALE: 1:75



**BATTERY ROOM SLAB DETAILS**



**LEGEND**

CLEAR COVER OF BOTT. REINF. 25mm  
CLEAR COVER OF TOP REINF. 40mm.

Bottom Bars:  
P= 10mmØ-240mm c/c  
Q= 10mmØ-240mm c/c Alt with (A)  
D= 10mmØ -160mm c/c  
F= 10mmØ-160mm c/c

Top Bars:  
A=10mmØ-280mm c/c  
B= 10mmØ-280mm c/c Alt with (P)  
E= 10mmØ-130mm c/c  
C= 10mmØ-140mm c/c

T= Slab Thickness in mm

SLAB THICKNESS MARKED AS T=125mm, OTHERWISE MENTIONED.

INDICATES TOP REINFORCEMENT.

INDICATES BOTTOM REINFORCEMENT.

NAME OF PROJECT:

**MULTIPURPOSE DISASTER SHELTER  
SUPPORT (MPDS) PROJECT**

NAME OF WORK:

Construction of Multipurpose Disaster Shelter at  
Teluniapara (Para Center) under Aziznagar Union,  
Upazila: Lama, District: Bandarban

**FUNDED BY: USAID**

ORIGINAL DESIGN BY:

**SPACE SOLUTION FOR SOCIAL  
INTEGRATION LIMITED**  
1/12, Block G, Lalmatia,  
Dhaka-1205, Bangladesh

DESIGN MODIFIED BY:

MD. FORKANUL HAQUE  
Manager-Engineering, MPDS  
Save the Children International

VERIFIED BY:

TUSHAR KANTI ROY  
Infrastructure Manager, MPDS  
CARE Bangladesh

PACKAGE INFO.

Package No: SCI/MPDS/B11-20-01

Revision No:

Issued for Tender

DRAWING TITLE:

**ROOF SLAB DETAILS**

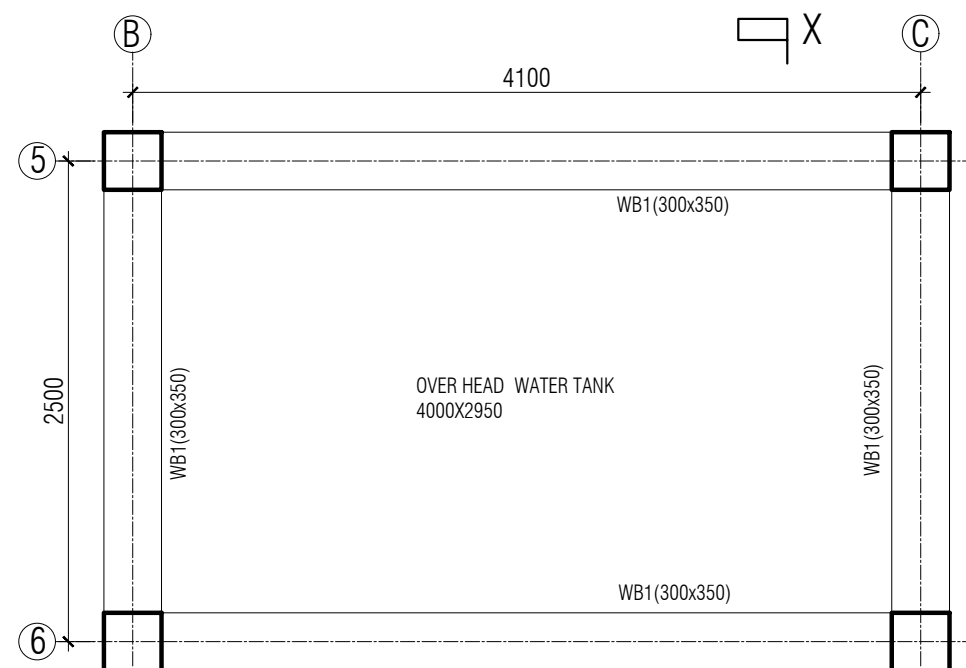
All Dimension are in Millimeter  
unless mentioned

SHEET NO:

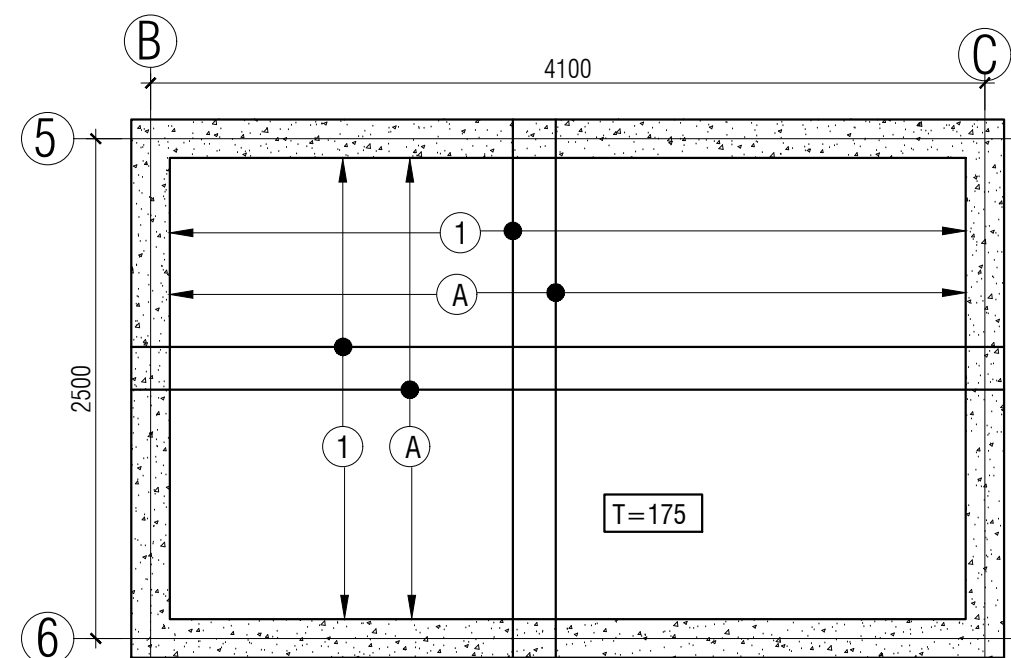
SUP-07

SCALE

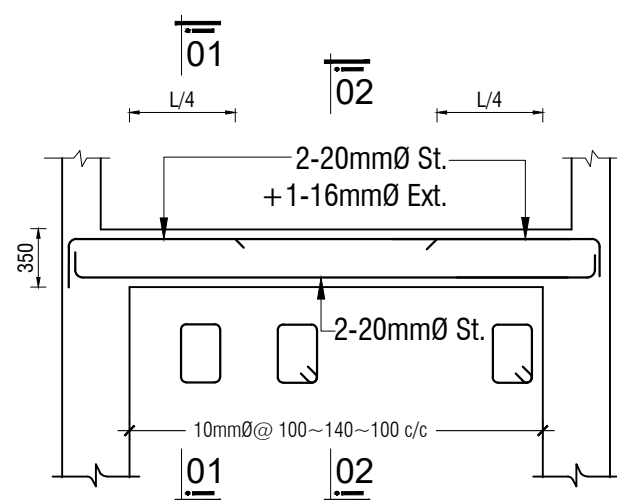
AS SHOWN



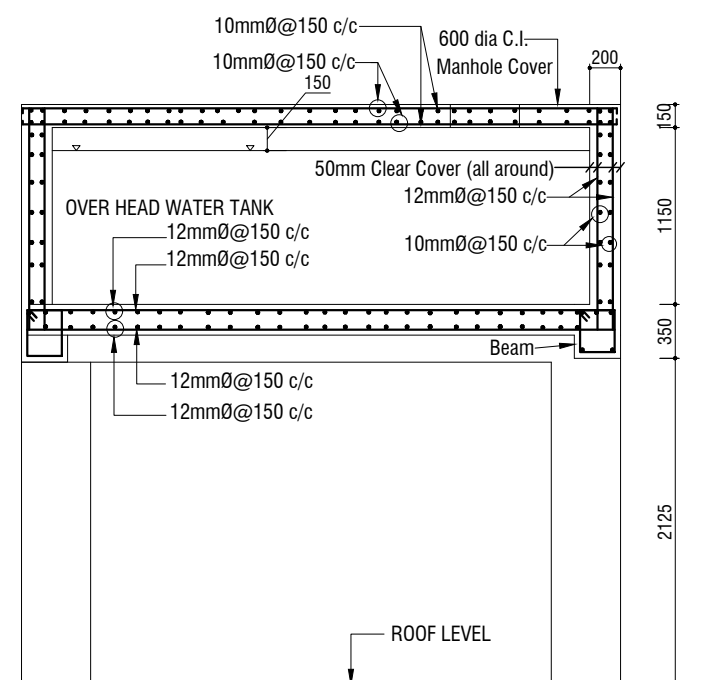
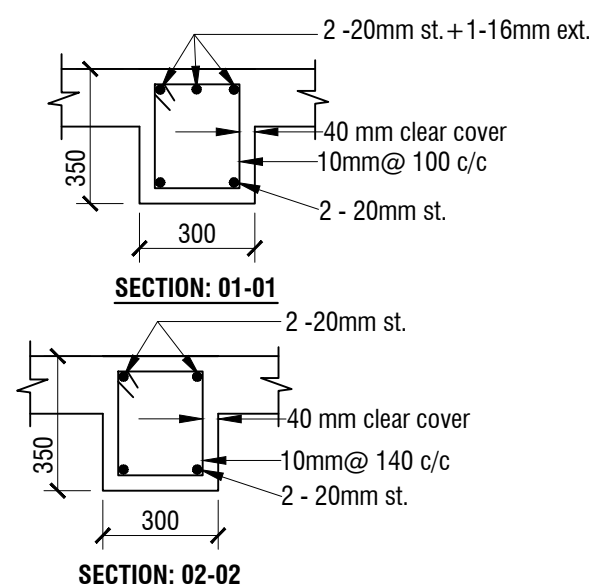
**OVERHEAD WATER TANK BOTTOM SLAB  
BEAM LAYOUT PLAN**  
SCALE: 1:40



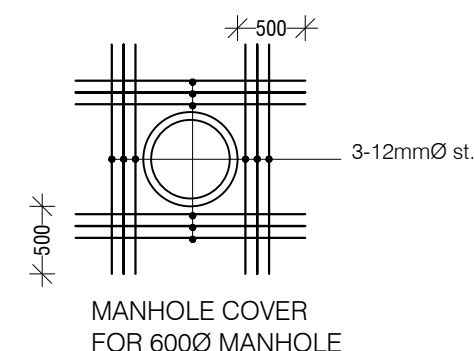
**OVERHEAD WATER TANK BOTTOM SLAB  
BEAM LAYOUT PLAN**  
SCALE: 1:40






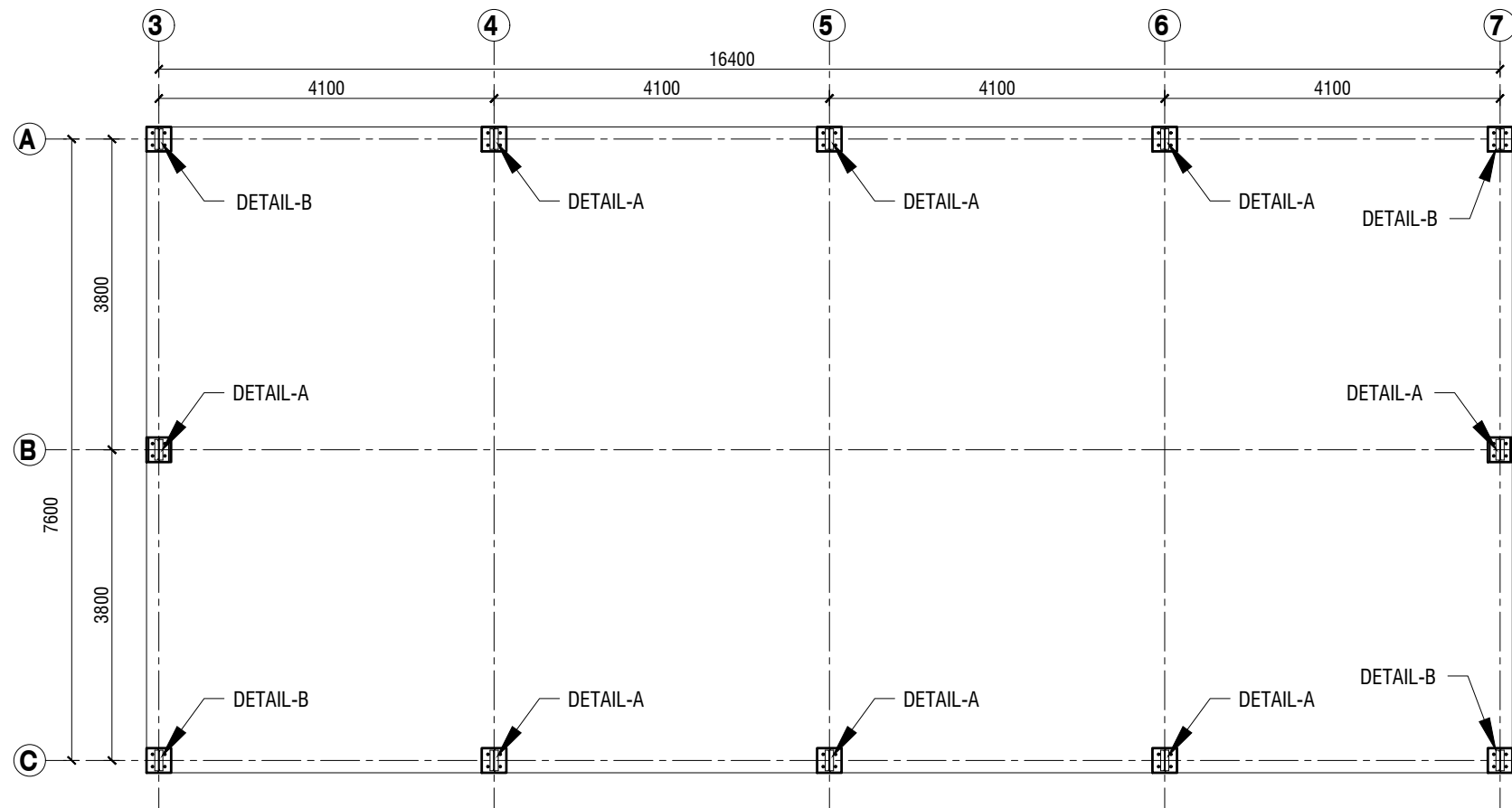
**LONG SEC. OF FLOOR BEAM WB-1 (300 X 350)**



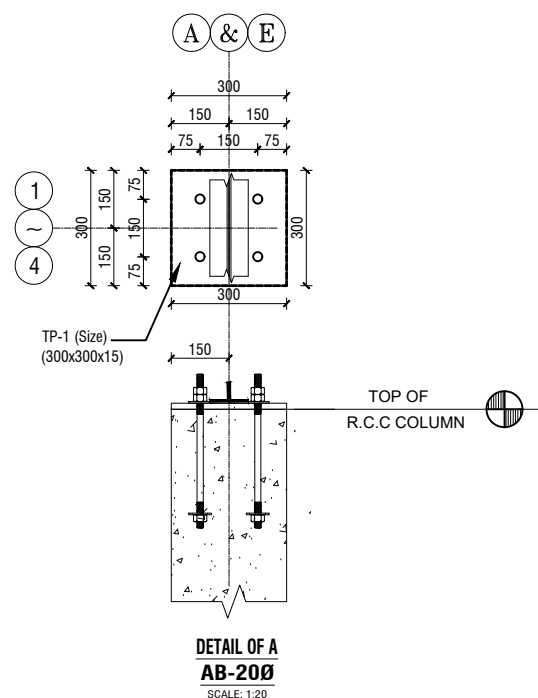
**SECTION OF O.H.W.T : X-X**



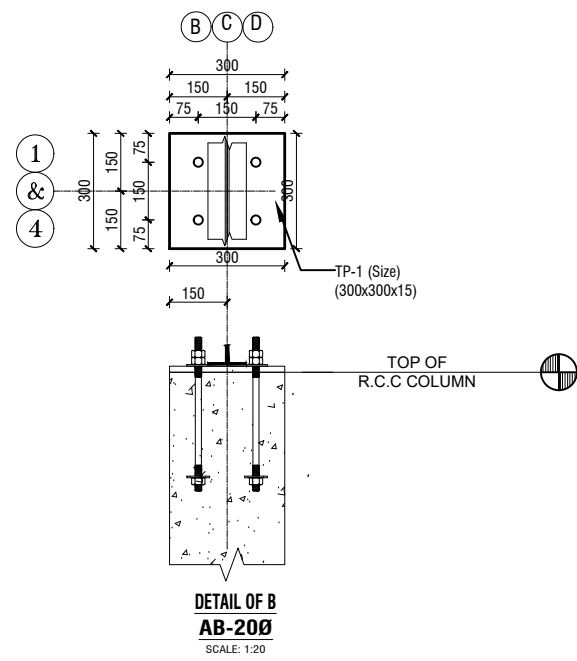
NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:	SHEET NO:
   <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban  <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>OVER HEAD WATER RESERVOIR DETAIL</b>	All Dimension are in Millimeter unless mentioned SUP-08 <b>SCALE</b> AS SHOWN



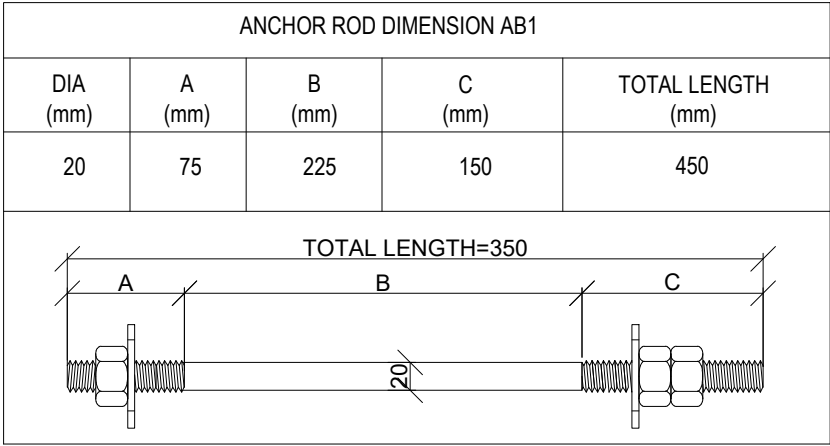
**ANCHOR BOLT LAYOUT PLAN**  
SCALE: 1:85




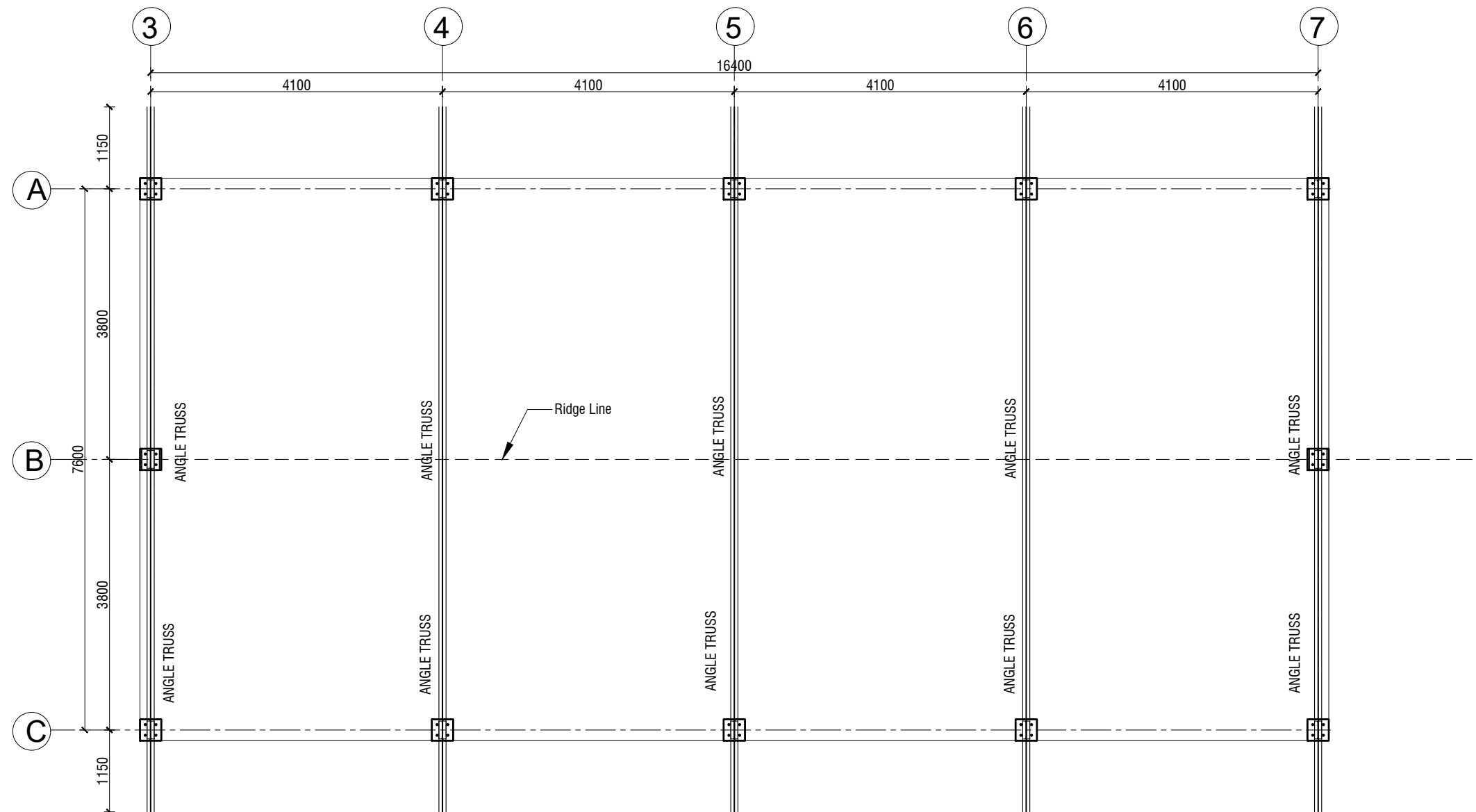
**DETAIL OF A**  
**AB-200**  
SCALE: 1:20



**DETAIL OF B**  
**AB-200**  
SCALE: 1:20

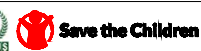




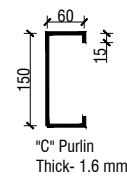
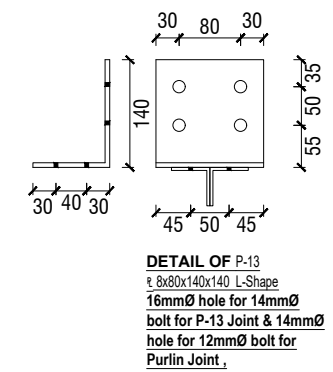
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 MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	Package No: SCI/MPDS/B11-20-01 Revision No: Issued for Tender	ANCHOR BOLT LAYOUT PLAN & DETAIL	All Dimension are in Millimeter unless mentioned	SUP-09 SCALE AS SHOWN








**MS ANGLE LAYOUT PLAN**

SCALE: 1:75

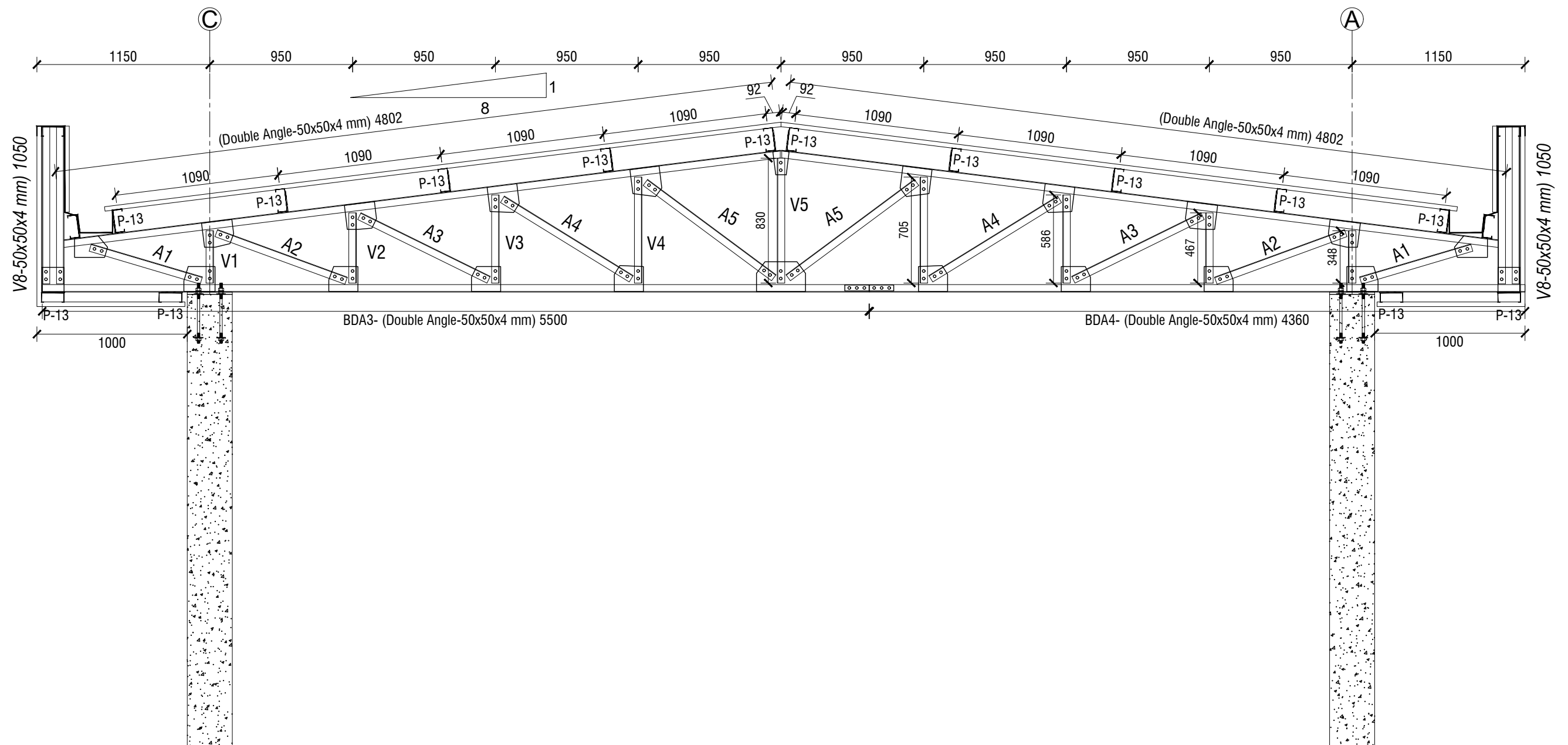
NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
<div></div> <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>MS ANGLE LAYOUT PLAN</b>	All Dimension are in Millimeter unless mentioned	<b>SUP-10</b> <b>SCALE</b> AS SHOWN



NAME OF PROJECT:		NAME OF WORK:	ORIGINAL DESIGN 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 Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban  <b>FUNDED BY: USAID</b>	<div><div>SSS</div><div>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</div><div>1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh</div></div>	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<div>Package No:</div> <div>SCI/MPDS/B11-20-01</div> <div>Revision No:</div> <div></div> <div>Issued for Tender</div>	PURLIN LAYOUT PLAN & DETAIL	All Dimension are in Millimeter unless mentioned	<div>SUP-11</div> <div>SCALE</div> <div>AS SHOWN</div>	



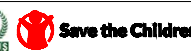


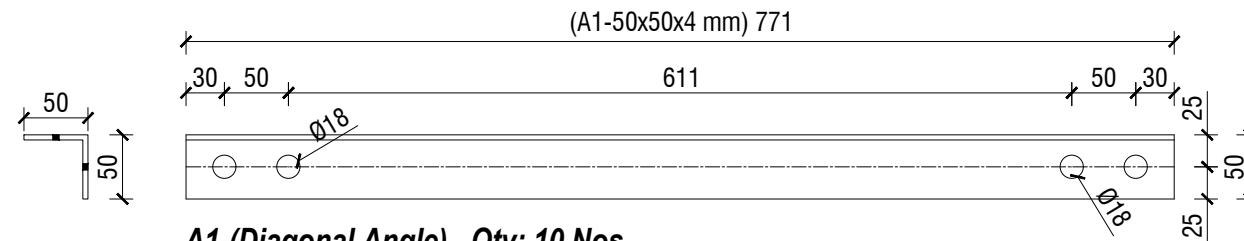




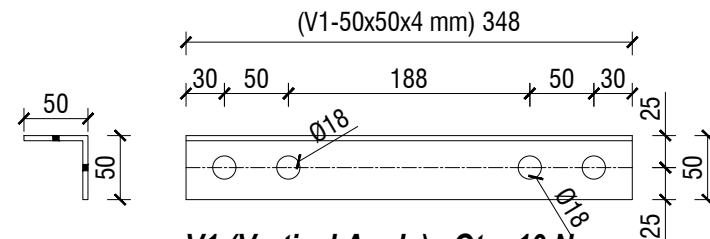
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SCALE: 1:30

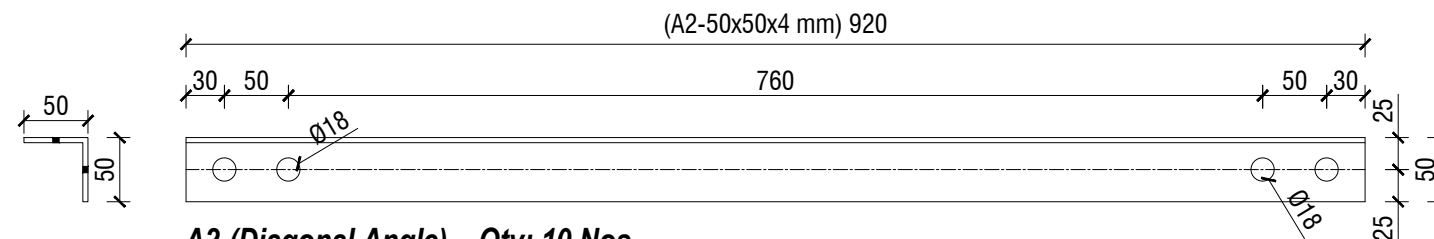
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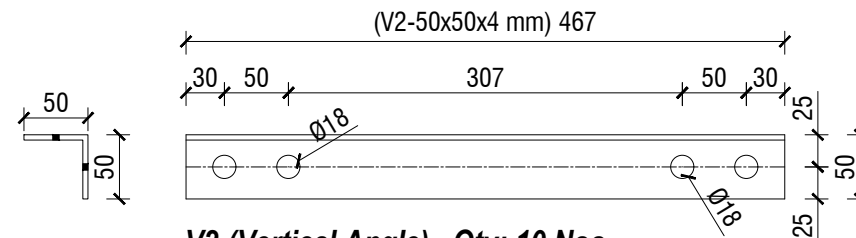
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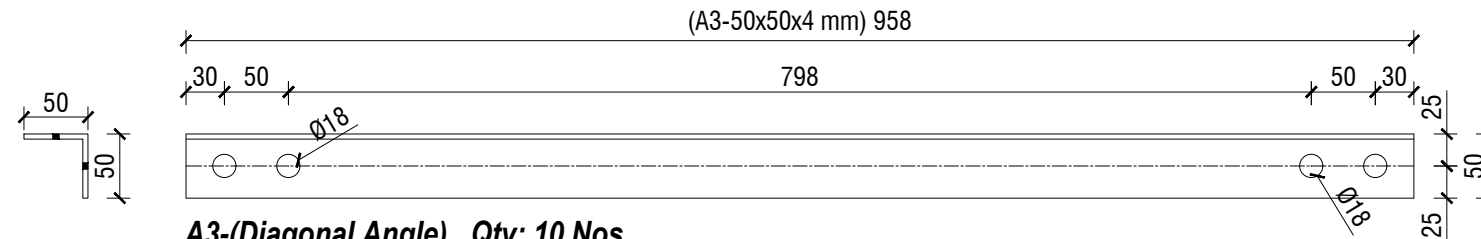
**V1-(Vertical Angle) Qty: 10 Nos.**



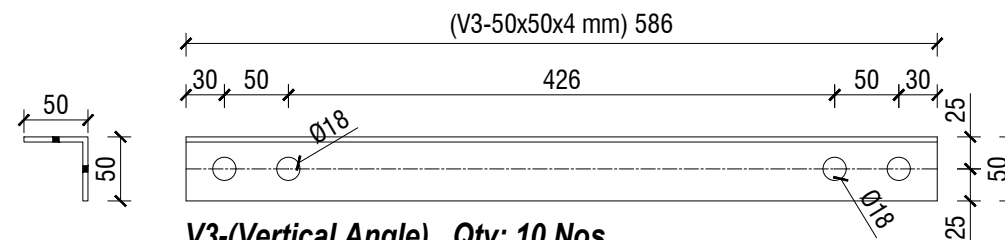
**A2-(Diagonal Angle) Qty: 10 Nos.**



**V2-(Vertical Angle) Qty: 10 Nos.**




**A3-(Diagonal Angle) Qty: 10 Nos.**



**V3-(Vertical Angle) Qty: 10 Nos.**





**DIAGONAL ANGLE & VERTICAL ANGLE DETAIL-I**

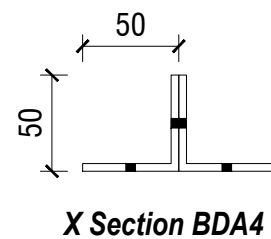
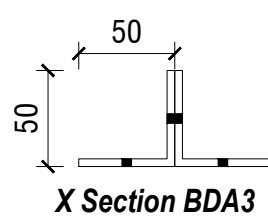
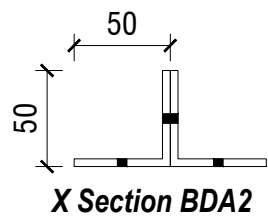
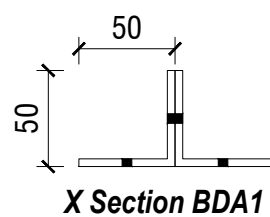
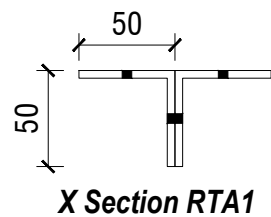
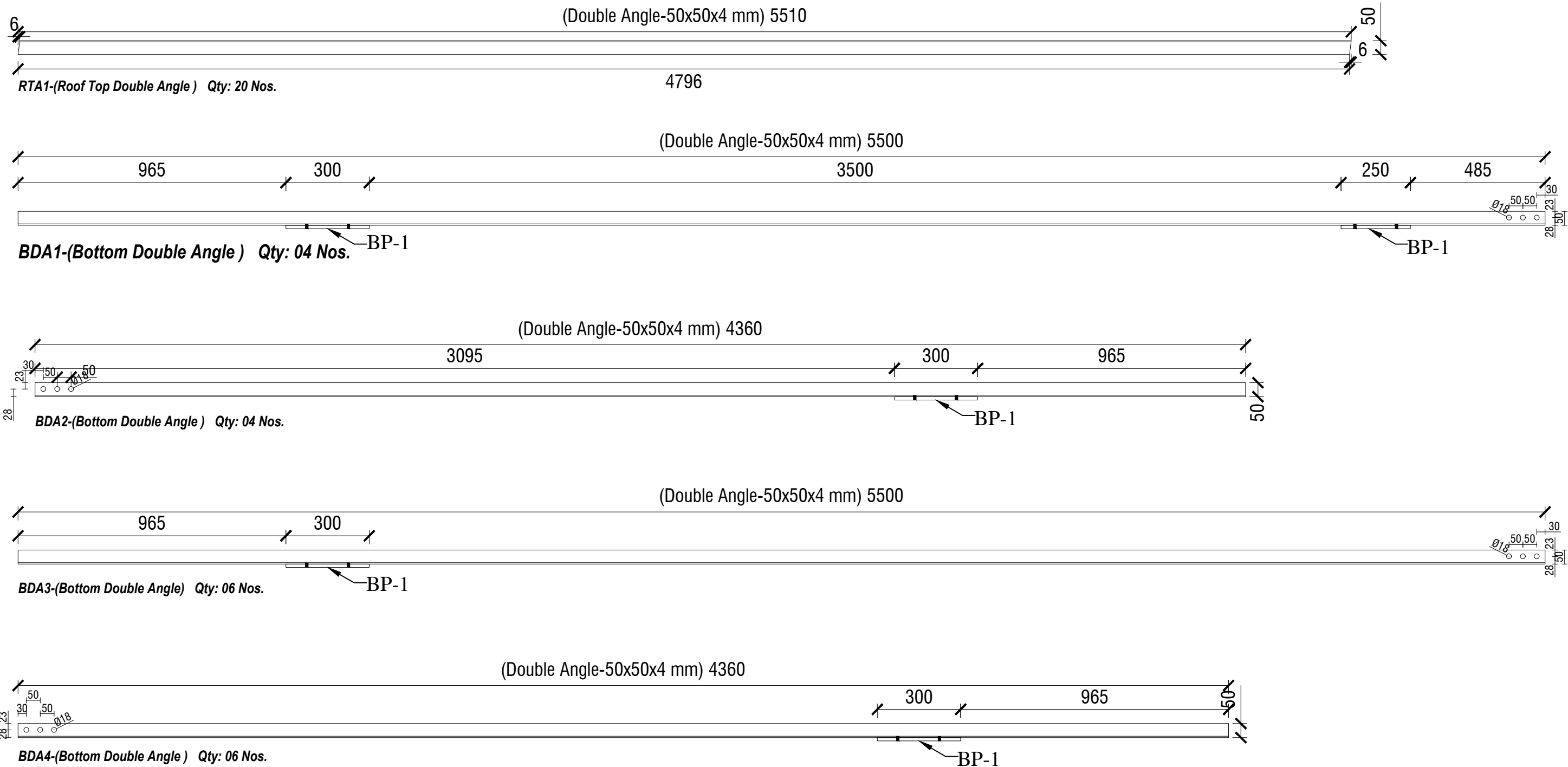
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NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
 <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban  <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01	<b>DIAGONAL ANGLE &amp; VERTICAL ANGLE DETAIL-I</b>	All Dimension are in Millimeter unless mentioned	<b>SUP-14</b>
					<b>Revision No:</b>			<b>SCALE</b>
					Issued for Tender			<b>AS SHOWN</b>

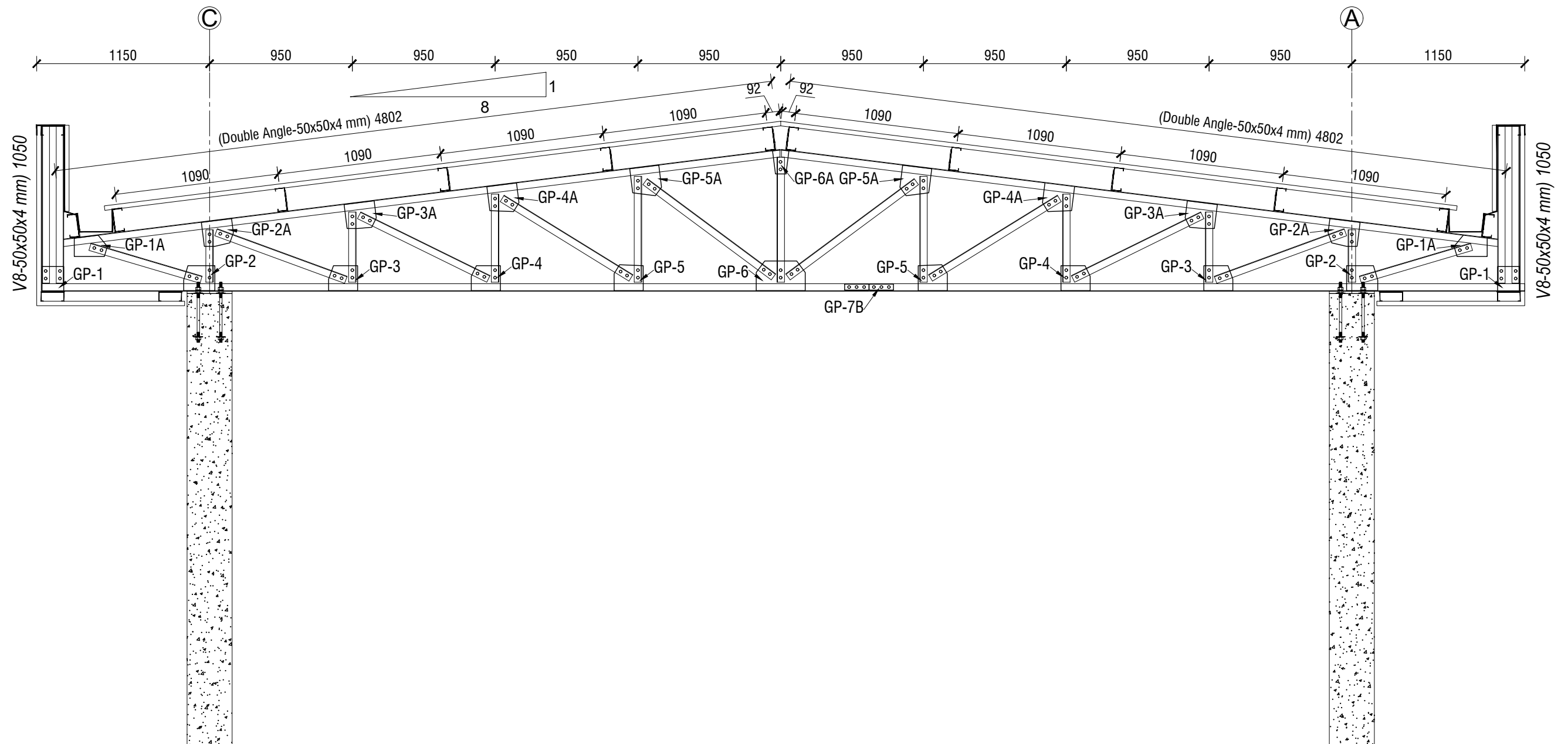


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NAME OF PROJECT:		NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.		DRAWING TITLE:		SHEET NO:
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		<div>FUNDED BY:</div> USAID								SCALE
						Issued for Tender				AS SHOWN



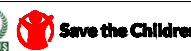


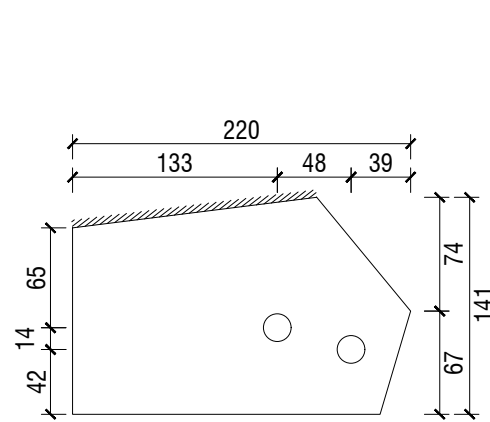
NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:		SHEET NO:
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### CROSS SECTION @ GRID 3 & 7

SCALE: 1:30

NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN 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 Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>GUSSET PLATE LOCATIONS</b> All Dimension are in Millimeter unless mentioned	<b>SUP-17</b> <b>SCALE</b> AS SHOWN

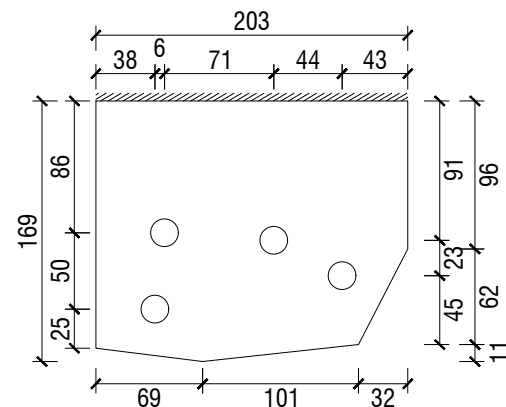


**DETAIL OF GP-1A**

ℓ 6x220x141

18mmØ hole for 16mm Ø bolt

Qty: 10 Nos.

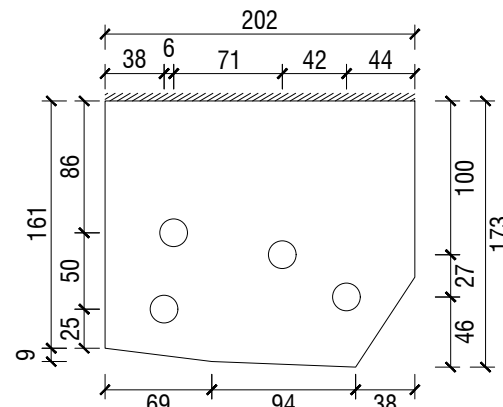


**DETAIL OF GP-2A**

ℓ 6x203x169

18mmØ hole for 16mm Ø bolt

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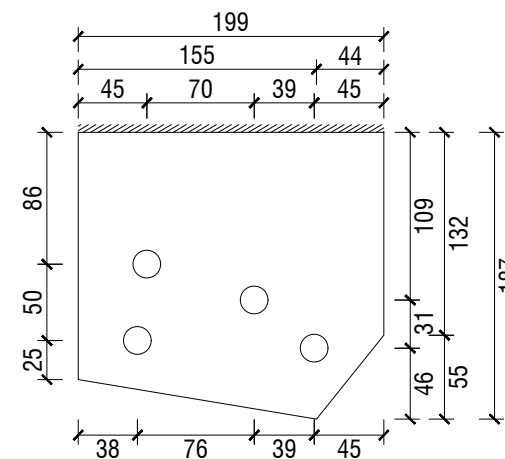


**DETAIL OF GP-3A**

ℓ 6x202x173

18mmØ hole for 16mm Ø bolt

Qty: 10 Nos.

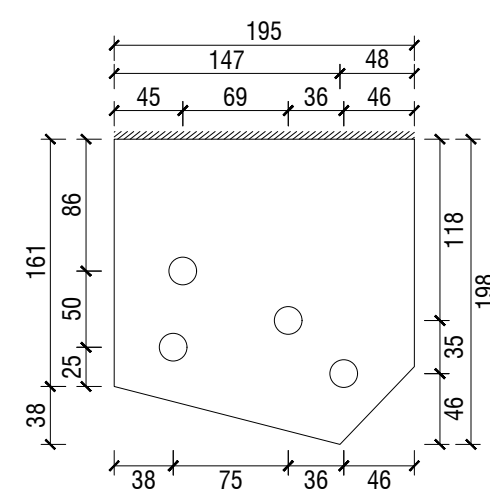


**DETAIL OF GP-4A**

ℓ 6x199x187

18mmØ hole for 16mm Ø bolt

Qty: 10 Nos.

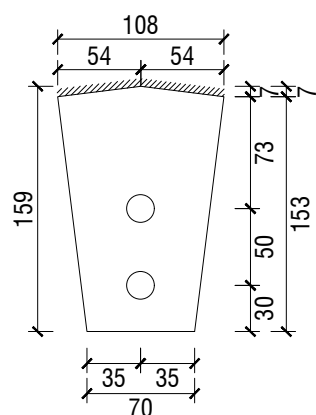


**DETAIL OF GP-5A**

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18mmØ hole for 16mm Ø bolt

Qty: 10 Nos.

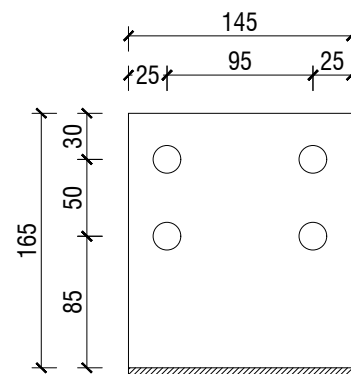


**DETAIL OF GP-6A**

ℓ 6x108x159

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Qty: 05 Nos.

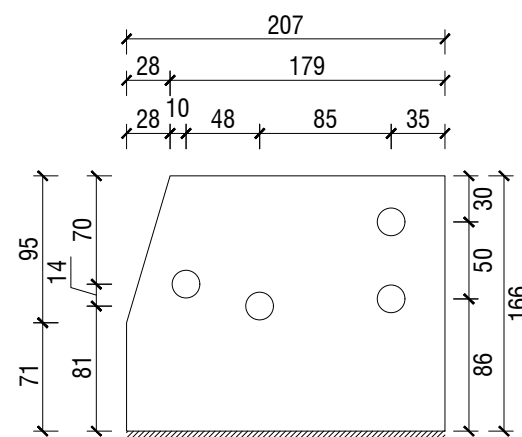


**DETAIL OF GP-1**

ℓ 6x165x145

18mmØ hole for 16mm Ø bolt

Qty: 10 Nos.

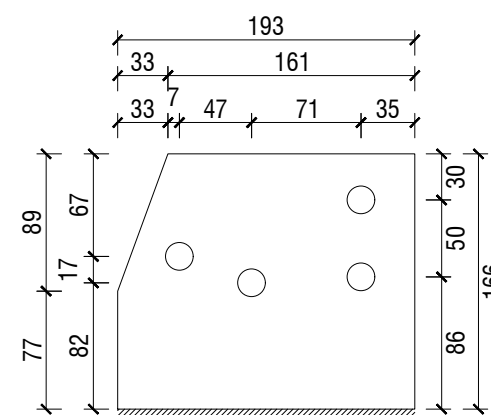


**DETAIL OF GP-2**

ℓ 6x207x166

18mmØ hole for 16mm Ø bolt

Qty: 10 Nos.

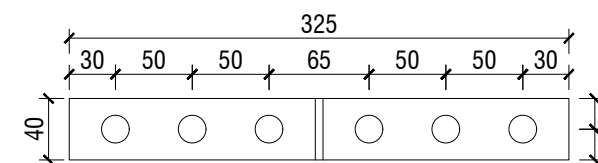


**DETAIL OF GP-3**

ℓ 6x193x166

18mmØ hole for 16mm Ø bolt

Qty: 10 Nos.

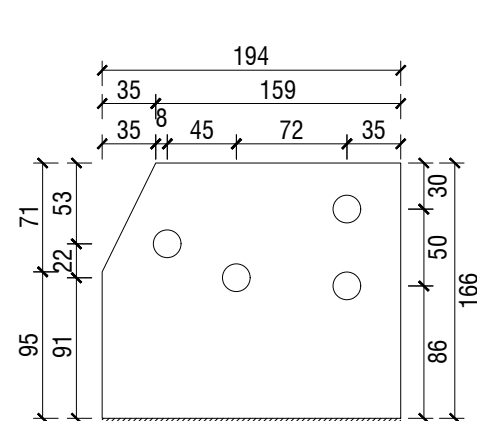


**DETAIL OF GP-7B**

ℓ 6x40x325

18mmØ hole for 16mm Ø bolt

Qty: 10 Nos.

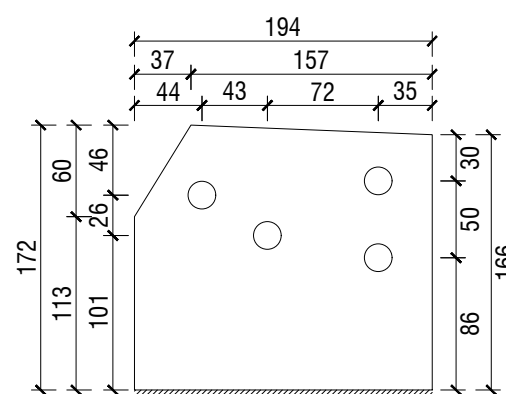


**DETAIL OF GP-4**

ℓ 6x194x166

18mmØ hole for 16mm Ø bolt

Qty: 10 Nos.

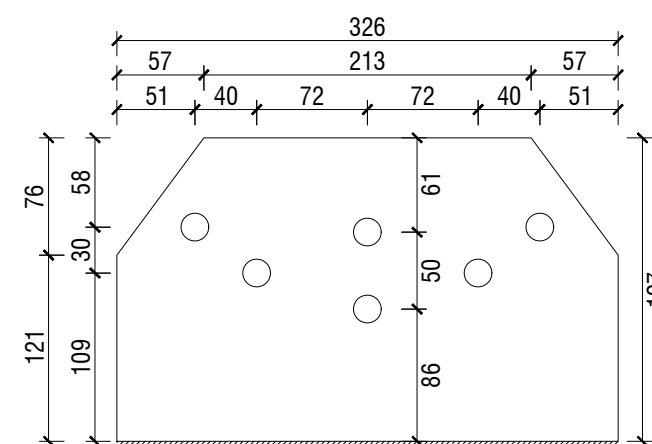


**DETAIL OF GP-5**

ℓ 6x194x172

18mmØ hole for 16mm Ø bolt

Qty: 10 Nos.

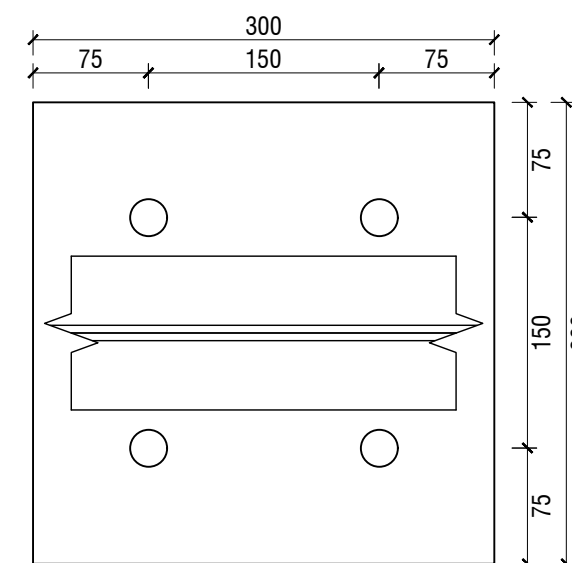


**DETAIL OF GP-6**

ℓ 6x326x197

18mmØ hole for 16mm Ø bolt

Qty: 10 Nos.



**DETAIL OF BP-1**


ℓ 15x300x300

18mmØ hole for 16mm Ø bolt

Qty: 12 Nos.

**GUSSET PLATE DETAIL**

SCALE: 1:6

NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN 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 Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>GUSSET PLATE DETAIL-I</b> All Dimension are in Millimeter unless mentioned	<b>SUP-18</b> <b>SCALE</b> AS SHOWN







# Multipurpose Disaster Shelter Support (MPDS) Project

PLUMBING DESIGN & DRAWINGS

FOR

CONSTRUCTION OF MULTIPURPOSE DISASTER SHELTER AT TELUNIAPARA (PARA CENTER) UNDER  
AZIZNAGAR UNION, UPAZILA: LAMA, DISTRICT: BANDARBAN

**Issued for Tender**

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SL	Drawing Title	Sheet No.	Revision No.
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02	NOTES FOR PLUMBING & LEGENDS	P-01	
03	USABLE WATER PIPE NETWORK (Ground Floor)	P-02	
04	SOIL & WASTE WATER PIPE NETWORK(Ground Floor)	P-03	
05	USABLE WATER PIPE NETWORK (Roof Level)	P-04	
05	SOIL & WASTE WATER PIPE NETWORK	P-05	

# NOTES FOR PLUMBING:

1.

All the plumbing drawings shall be read in conjunction with relevant architectural, structural and electrical drawings.
2.

Before commencement of work on-site measurement must be checked for all dimensions. If any discrepancy is found on drawing should be informed Engineer-in-Charge.
3.

Every branch and drain line shall be laid in a straight with a constant gradient.
4.

Floor finish in all toilets to be laid in slope towards floor drain / floor trap.
5.

Inspection pit soil & waste pit depth shall be 600 mm or shown to the relevant drawing.
6.

Orientation of Toilet Fixture should confirm with the Community discussion.  
Site specific detailed shall be provided in construction drawing.
7.

150 mm slope for 30,000mm uPVC pipe for water supply. (Slope: 1:200)
8.

All horizontal drainage pipes shall be laid at following slope

Size of Pipe	Soil Pipe	Waste & Rain Water Pipe
50 mm dia		1 in 40
100 mm dia	1 in 60	1 in 80
150 mm dia	1 in 80	1 in 100/200
275/300 mm dia	1 in 100	1 in 150




## 9. PIPE SPECIFICATIONS

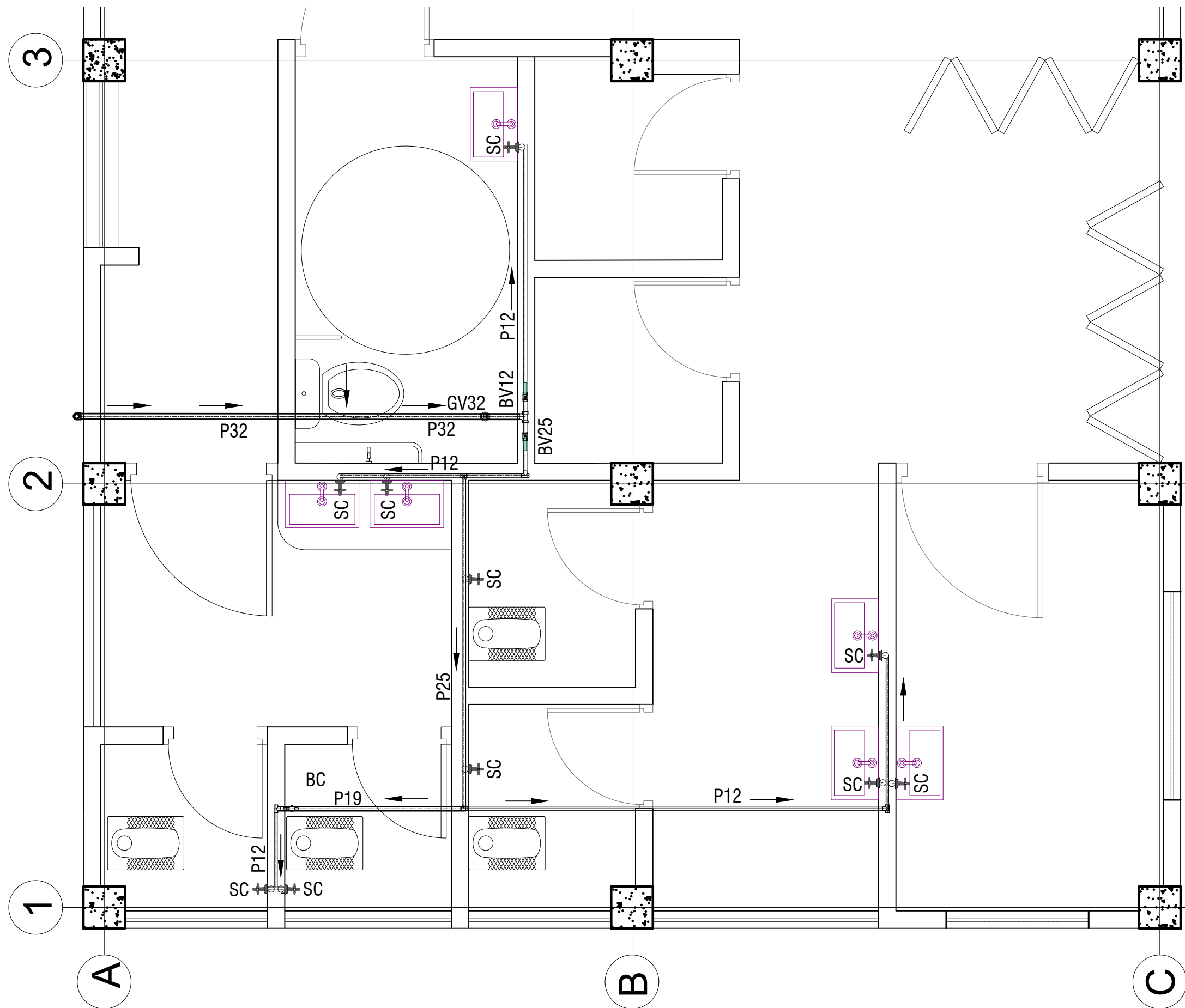
All pipe size and thickness as below (Water Supply, Waste, Soil etc.)

Pipe Size	Pipe Type	Thickness
12 mm Ø	uPVC (C-grade)	2.80 to 3.30 mm
19 mm Ø	uPVC (C-grade)	2.90 to 3.40 mm
25 mm Ø	uPVC (C-grade)	3.40 to 4.00 mm
25 mm Ø	HDPE (water supply)	2.00 to 2.40 mm
32 mm Ø	uPVC (C-grade)	3.60 to 4.20 mm
50 mm Ø	PVC (Vent Pipe)	2.50 to 3.00 mm
50 mm Ø	uPVC (Waste Water)	2.50 mm (Minimum)
100 mm Ø	PVC (Rain Water)	2.90 mm (Minimum)
100 mm Ø	uPVC (Soil Pipe)	3.40 mm (Minimum)

## Legend

- P12 = 12mm internal dia Pipe
- P19 = 19mm internal dia Pipe
- P25 = 25mm internal dia Pipe
- P32 = 32mm internal dia Pipe
- SC = Stop Cock
- BC = Bib Cock
- FT = 100mm Ø Floor Trap
- PC = Pillar Cock
- SW = Shower
- CS = Concealed Stop Cock
- = Water Flow Direction
- GV32 = 32mm Gate Valve
- BV25 = 25mm Ball Valve
- BV19 = 19mm Ball Valve
- BV12 = 12mm Ball Valve
- P50 = 50mm internal dia Pipe
- P100 = 100mm internal dia Pipe
- FT = 100mm Ø Floor Trap
- = Water Flow Direction
- = Waste water Pipe, Slope 1:80
- = Soil Pipe, Slope 1:60

NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN 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>Save the Children</div></div></div><div>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</div></div></div>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban	SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<div>Package No: SCI/MPDS/B11-20-01</div> <div>Revision No:</div> <div>Issued for Tender</div>	NOTES FOR PLUMBING & LEGENDS	All Dimension are in Millimeter unless mentioned	<div>P-01</div> <div>SCALE</div> <div>AS SHOWN</div>




- Legend**
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  - P19 = 19mm internal dia Pipe
  - P25 = 25mm internal dia Pipe
  - P32 = 32mm internal dia Pipe
  - SC = Stop Cock
  - BC = Bib Cock
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  - PC = Pillar Cock
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  - = Water Flow Direction
  - GV32 = 32mm Gate Valve
  - BV25 = 25mm Ball Valve
  - BV19 = 19mm Ball Valve

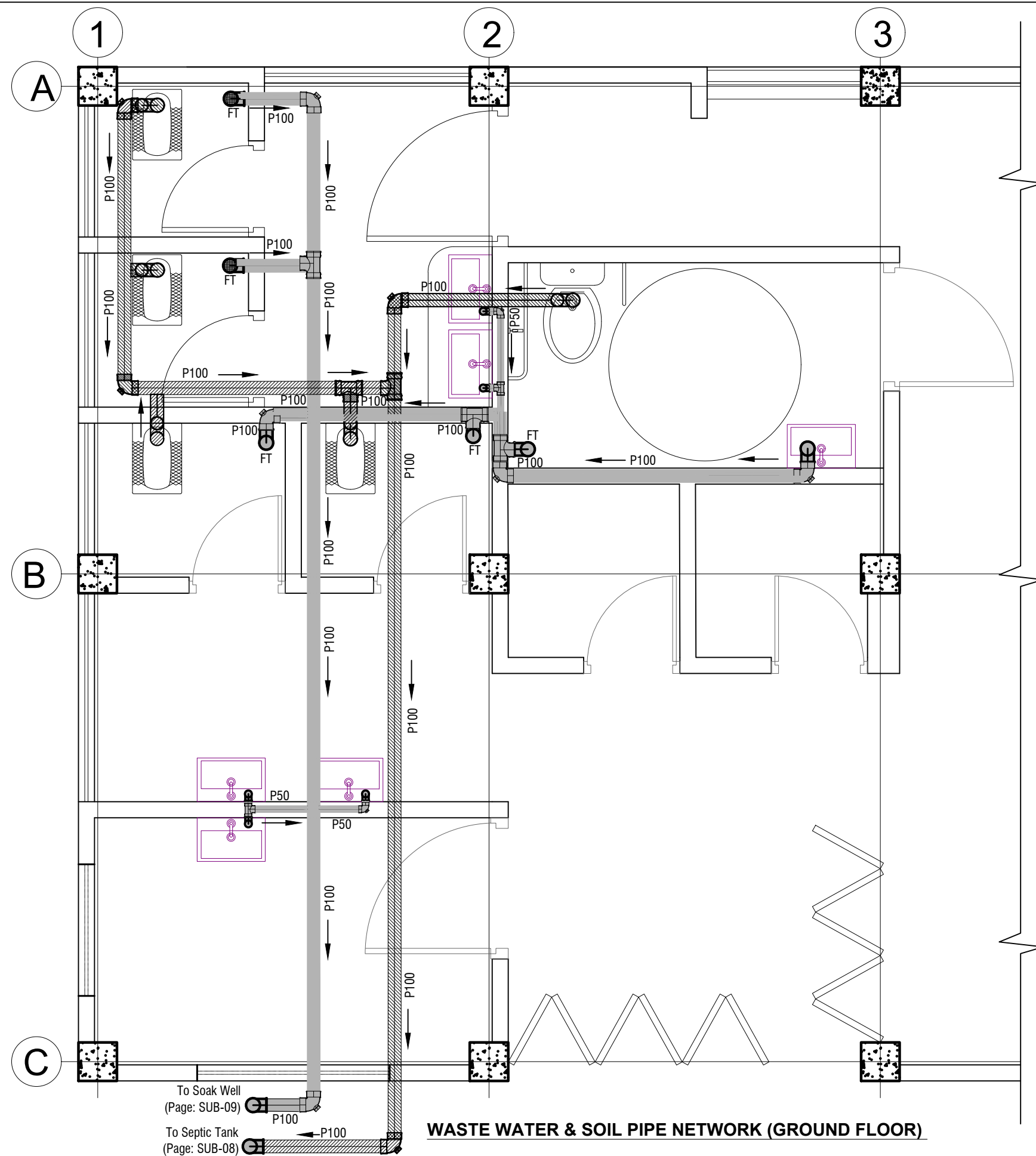
All Fixture are symbolic  
Design and specification will reflect in Bill of Quantity

**Note:**  
Orientation of Toilet Fixture should confirm with the  
Community discussion. Site specific detailed shall be  
provided in construction drawing.

- Note:**
- All pipes shall be Firmly concealed with Wall and Bib/Stop cock point will be exposed up to Wall finish.
  - Where Wall not Available The pipe will hang firmly and closely with the ceiling by clamp, screw, royal plug/bold.

## USABLE WATER PIPE NETWORK (GROUND FLOOR)

NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN 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 Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>USABLE WATER PIPE NETWORK (Ground Floor)</b> All Dimension are in Millimeter unless mentioned	<b>P-02</b> <b>SCALE</b> AS SHOWN

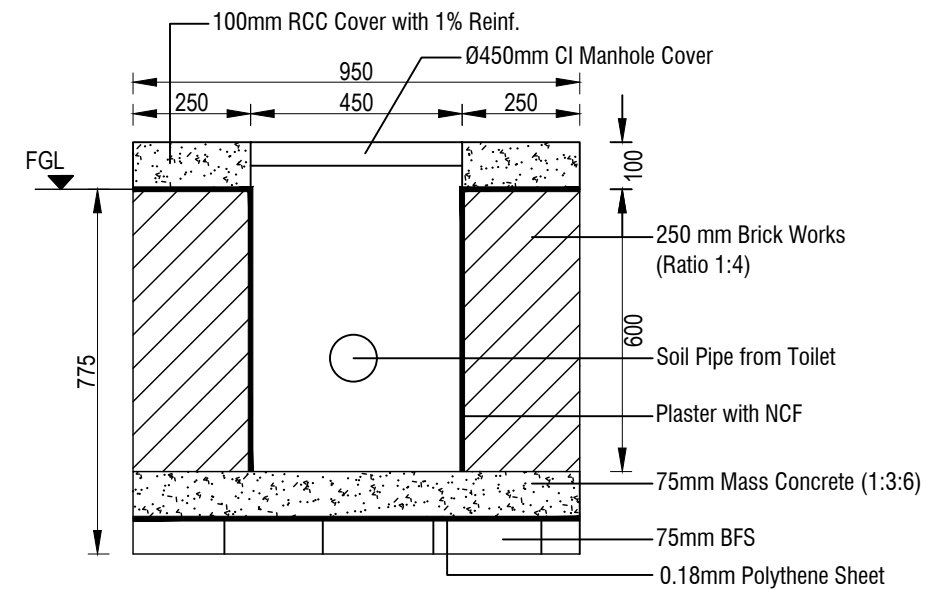


#### Legend

- P50 = 50mm internal dia Pipe  
P100 = 100mm internal dia Pipe  
FT = 100mm Ø Floor Trap  
 = Water Flow Direction  
 = Waste water Pipe, Slope 1:80  
 = Soil Pipe, Slope 1:60

#### Note:

- All soil and waste water will pass through pipe placed under the ground floor slab and pipe will end at the pit.



**CROSS SECTION OF INSPECTION PIT**

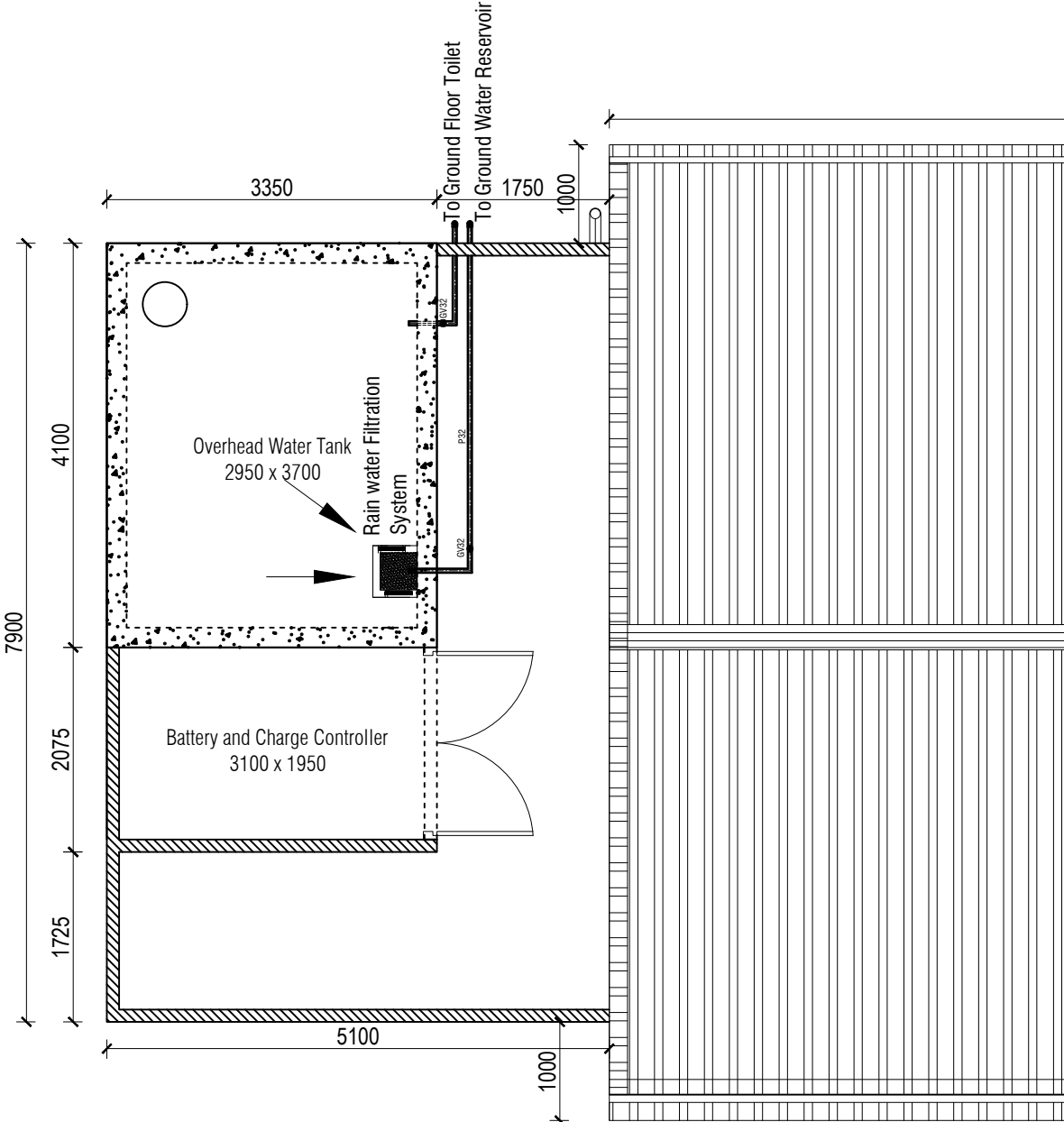
**WASTE WATER & SOIL PIPE NETWORK (GROUND FLOOR)**

NAME OF PROJECT:	NAME OF WORK:	ORIGINAL DESIGN BY:	DESIGN MODIFIED BY:	VERIFIED BY:	PACKAGE INFO.	DRAWING TITLE:	SHEET NO:
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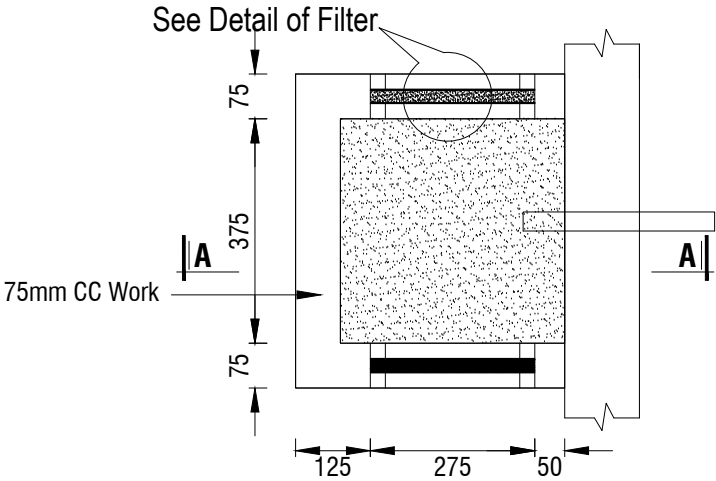
**uPVC Pipe Specification:**  
Specific Gravity not less than 1.35  
Comply with BDS ISO TR 4191:2008 of ASTM Standard  
For 32mm Wall thickness not less than 3.6mm  
For 25mm Wall thickness not less than 3.4mm

**Note:** Rain Water Down Pipe Will Connect to Drainage System Shown in Page GEN-02

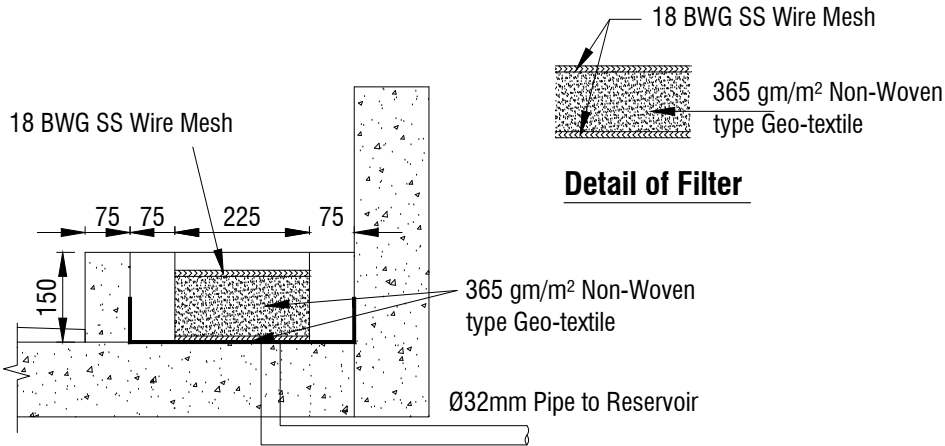
**uPVC Pipe Specification:**  
Specific Gravity not less than 1.35  
Comply with BDS ISO TR 4191:2008 of ASTM Standard  
For 32mm Wall thickness not less than 3.6mm  
For 25mm Wall thickness not less than 3.4mm






**USABLE WATER PIPE NETWORK**  
SCALE: 1:70



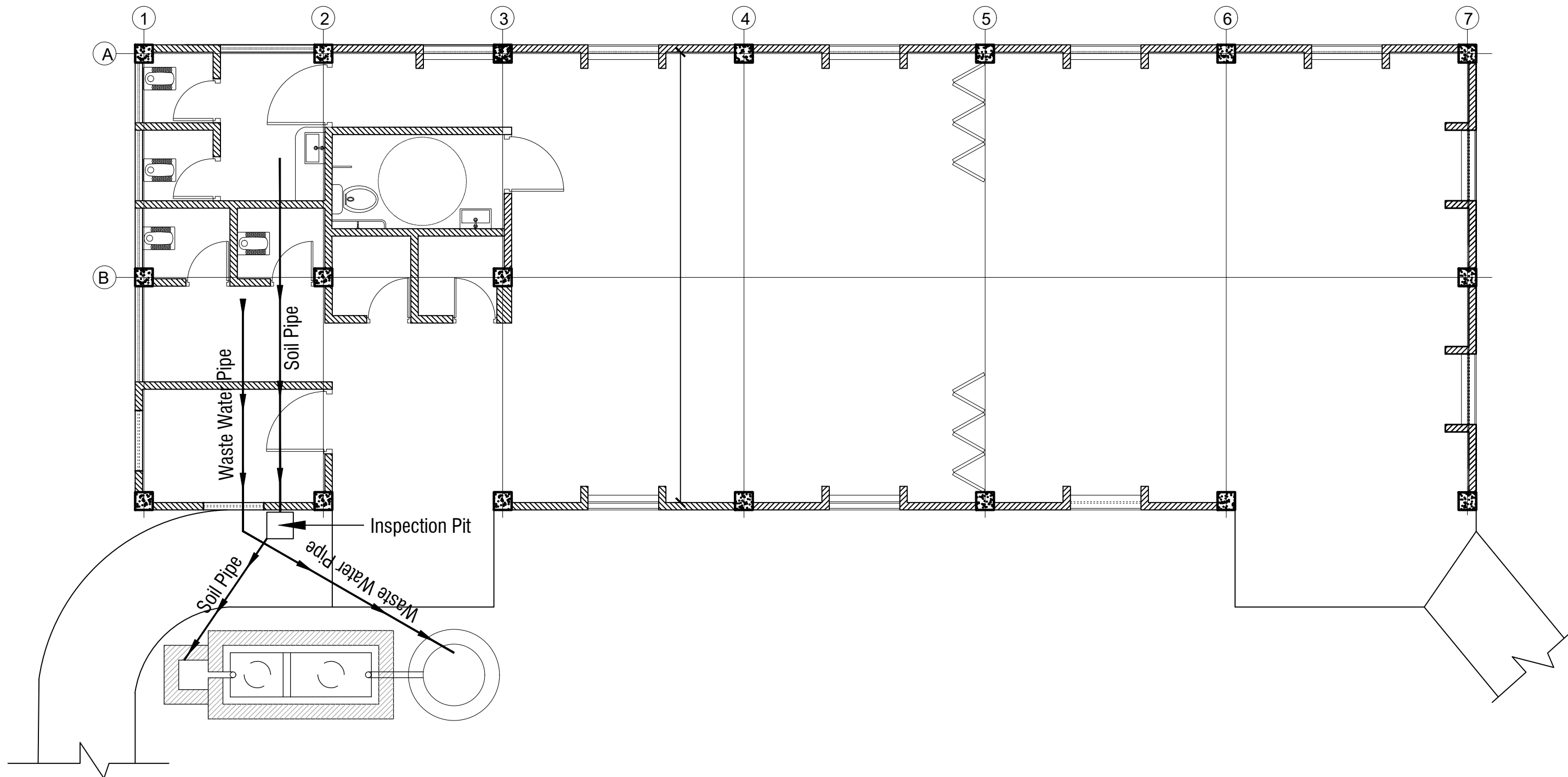
**Plan of Rain Water Collection Point**

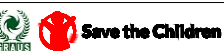




**Section A-A**

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<div></div> <b>MULTIPURPOSE DISASTER SHELTER SUPPORT (MPDS) PROJECT</b>	Construction of Multipurpose Disaster Shelter at Teluniapara (Para Center) under Aziznagar Union, Upazila: Lama, District: Bandarban <b>FUNDED BY: USAID</b>	<b>SPACE SOLUTION FOR SOCIAL INTEGRATION LIMITED</b> 1/12, Block G, Lalmatia, Dhaka-1205, Bangladesh	MD. FORKANUL HAQUE Manager-Engineering, MPDS Save the Children International	TUSHAR KANTI ROY Infrastructure Manager, MPDS CARE Bangladesh	<b>Package No:</b> SCI/MPDS/B11-20-01 <b>Revision No:</b> Issued for Tender	<b>SOIL &amp; WASTE WATER PIPE NETWORK</b>	All Dimension are in Millimeter unless mentioned	<b>P-05</b> <b>SCALE</b> AS SHOWN





# Multipurpose Disaster Shelter Support (MPDS) Project

ELECTRICAL DESIGN & DRAWINGS

















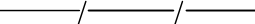
FOR

CONSTRUCTION OF MULTIPURPOSE DISASTER SHELTER AT TELUNIAPARA (PARA CENTER) UNDER  
AZIZNAGAR UNION, UPAZILA: LAMA, DISTRICT: BANDARBAN

**Issued for Tender**

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04	ROOF FLOOR ELECTRICAL PLAN	E-03	
05	CIRCUIT DIAGRAM, SCHEMATIC DIAGRAM and EARTHING PIT DETAILS	E-04	




## ELECTRICAL LEGEND

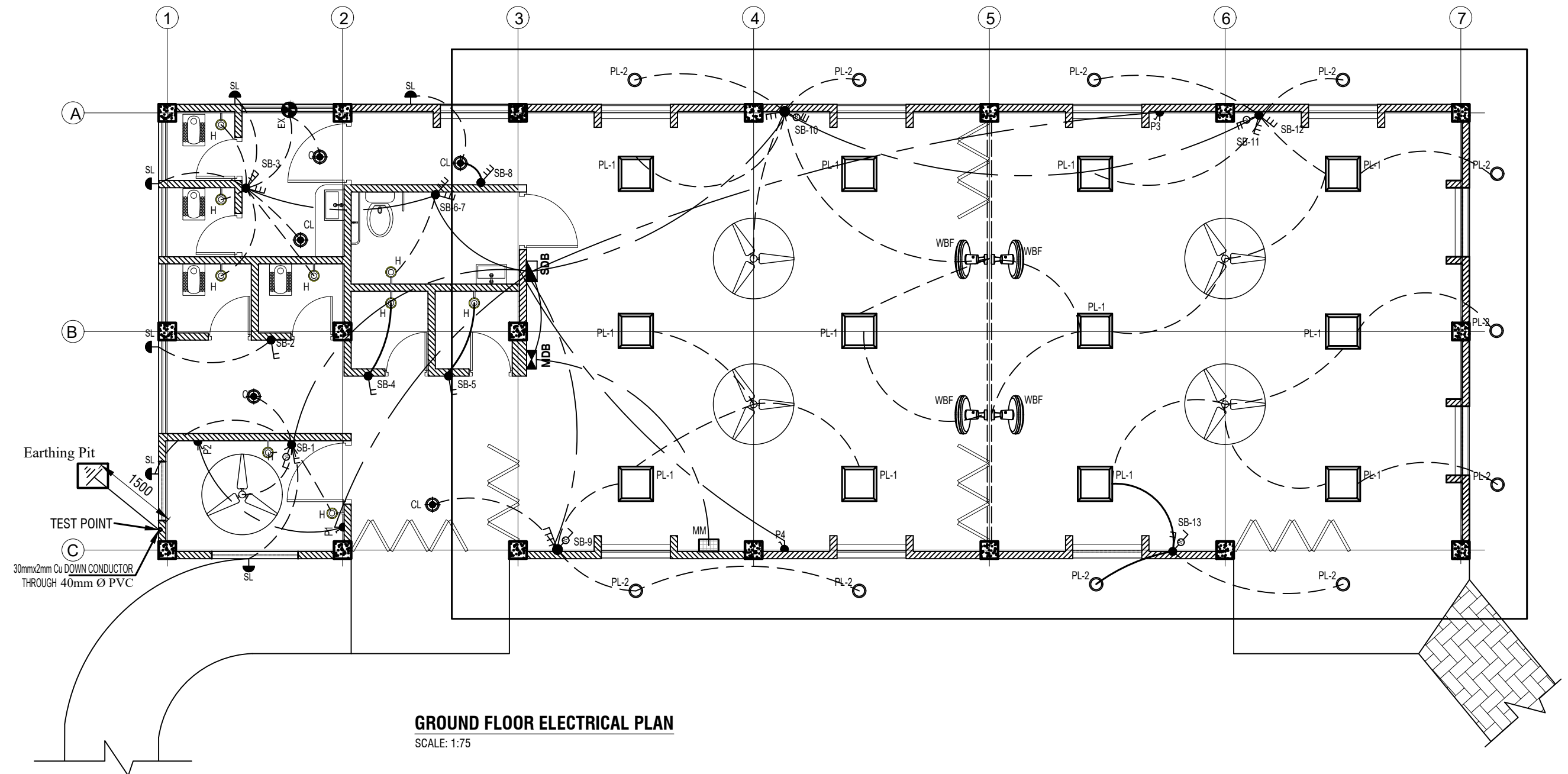
	MDB	MAIN DISTRIBUTION BOARD
	SDB	SUB-DISTRIBUTION BOARD
	MM	MAIN / MOTHER METER FROM BPDB
	SB	1-GANG SWITCH BOARD(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL
	SB	2-GANG SWITCH BOARD(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL
	SB	3-GANG SWITCH BOARD(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL
	SB	4-GANG SWITCH BOARD(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL
	RB	FAN REGULATOR I/C SWITCH(NORMAL POWER SUPPLY) 1200mm ABOVE FLOOR LEVEL
	CL	1X12W/9W CEILING SURFACE MOUNTED LED LIGHT FIXTURE
	PL-1	1X40W SURFACE MOUNTED PANEL (from False Ceiling) SQUARE LED LIGHT FIXTURE
	PL-2	1X12W SURFACE MOUNTED PANEL (from False Ceiling) ROUND LED LIGHT FIXTURE
	H	1X7W WALL MOUNTED LED BRACKET LIGHT FIXTURE
	F	1422mm SWEEP CEILING FAN
	EX	300mm SWEEP EXHAUST FAN
	P	16A SP ( 2/3 PIN) UNIVERSAL TYPE SWITCHED SOCKET OUTLET
	WBF	400 mm SWEEP WALL BRACKET FAN (PLASTIC BODY & BLADE)
	C1	1.5 mm <sup>2</sup> SINGLE CORE BYA (rm) FRLS CABLE
	C2	2.5 mm <sup>2</sup> SINGLE CORE BYA (rm) FRLS CABLE
	C3	4.0 mm <sup>2</sup> SINGLE CORE BYA (rm) FRLS CABLE
	C4	6.0 mm <sup>2</sup> SINGLE CORE BYA (rm) FRLS CABLE
	E4	1.5 mm <sup>2</sup> SINGLE CORE BYA (re) FRLS CABLE
	E4	2.5 mm <sup>2</sup> SINGLE CORE BYA (re) FRLS CABLE
	E4	6.0 mm <sup>2</sup> SINGLE CORE BYA (rm) FRLS CABLE
	E4	16 mm <sup>2</sup> SINGLE CORE BYA (rm) FRLS CABLE
		CONDUIT ROUTE THROUGH CEILING / WALL


## NOTE :

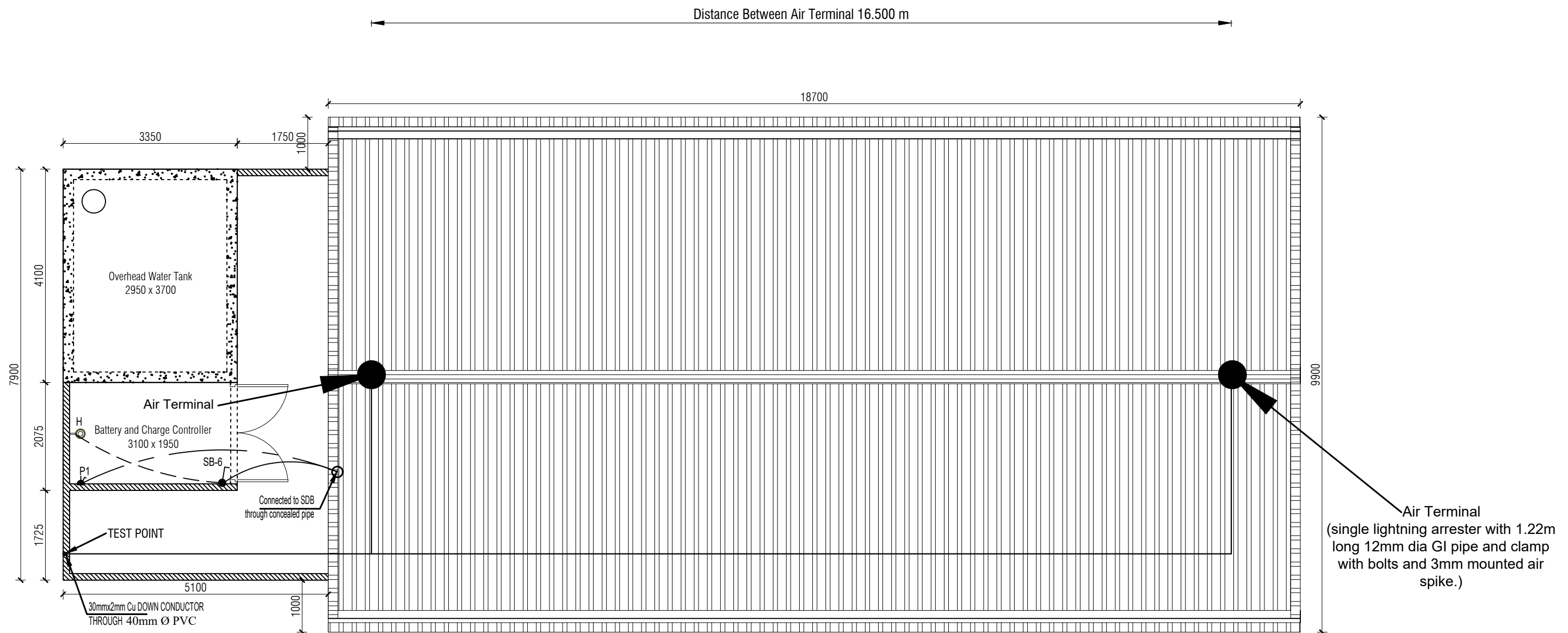
- ALL PVC CONDUIT ARE (25mm) UNLESS OTHERWISE SPECIFIED
- CONDUITS SHALL BE LAID EXPOSED ABOVE FALSE PANEL CEILING (HALL ROOM) AREA.
- CONDUITS SHALL BE CONCEALED IN R.C.C. SLAB WHERE THERE IS NO FALSE CEILING (TOILET AREA)
- CONDUITS SHALL BE CONCEALED IN WALL
- SWITCH BOARD(SB)- TO LIGHT/FAN POINT WIRING BY --- 2X1C-1.5mm<sup>2</sup> BYA rm (50% Red + 50% Black)+1X1C-1.5mm<sup>2</sup> BYA re (Green) CABLE
- SDB TO EACH SWITCH BOARD CIRCUIT WIRING BY --- AS SHOWN IN THE CIRCUIT DIAGRAM
- SDB TO EACH SOCKET CIRCUIT WIRING BY --- AS SHOWN IN THE CIRCUIT DIAGRAM
- MDB TO EACH SDB-SUB-MAIN LINE WIRING BY --- AS SHOWN IN THE CIRCUIT DIAGRAM
- ALL STEEL BOX : SWITCH BOARD/SOCKET/SDB/MDB BOX MUST BE USE -- EARTHING TERMINAL/BLOCK
- EARTHING SET -- 2SETS. (1-SET FOR LIGHTNING PROTECTION SYSTEM, 1-SET FOR MDB)- EARTH ELECTRODE -38mmØ G.I PIPE-DEPTH: 12000mm LONG
- ALL CABLE SIZES AS PER BNBC CODE
- SB- INSTALLATION HEIGHT-- 1200mm FROM F.F.L  
SOCKET INSTALLATION HEIGHT-- 75mm FROM F.F.L EXCEPT TOILET/KITCHEN  
FOR KITCHEN & TOILET-SOCKET HEIGHT -SAME OF SWITCH BOARD HEIGHT
- ANY CHANGES REQUIRED IN THE DESIGN & DRAWING SHALL BE SUBJECTED TO PRIOR APPROVAL OF THE DESIGN ENGINEER OTHERWISE THIS SHALL NOT BE BINDING UPON THE CONSULTANT.
- QUALITY CONTROL ASSURANCE AND WORKMANSHIP SHALL BE ENSURED BY THE EXECUTING AGENCY.
- CLEAR COVER FOR RCC COMPONENTS SHOULD BE MAINTAINED ACCORDING TO STRUCTURAL DESIGN AND DRAWING.

ALL THE ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH RELEVANT ARCHITECTURAL DRAWINGS




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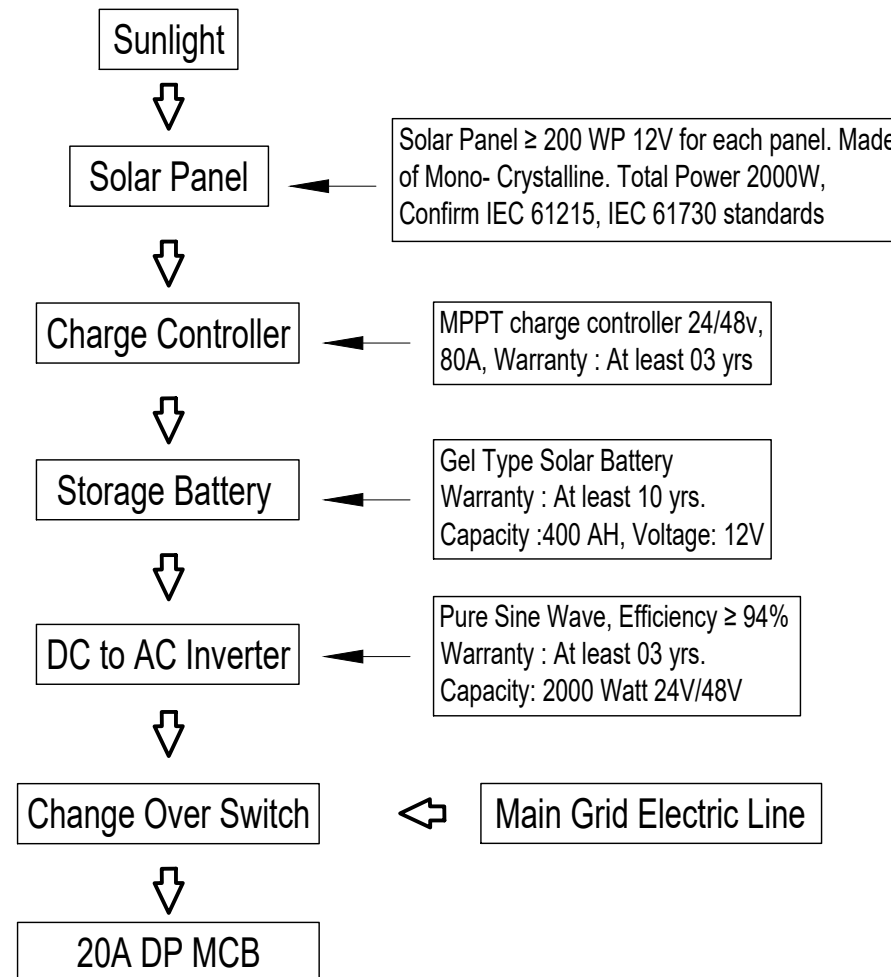
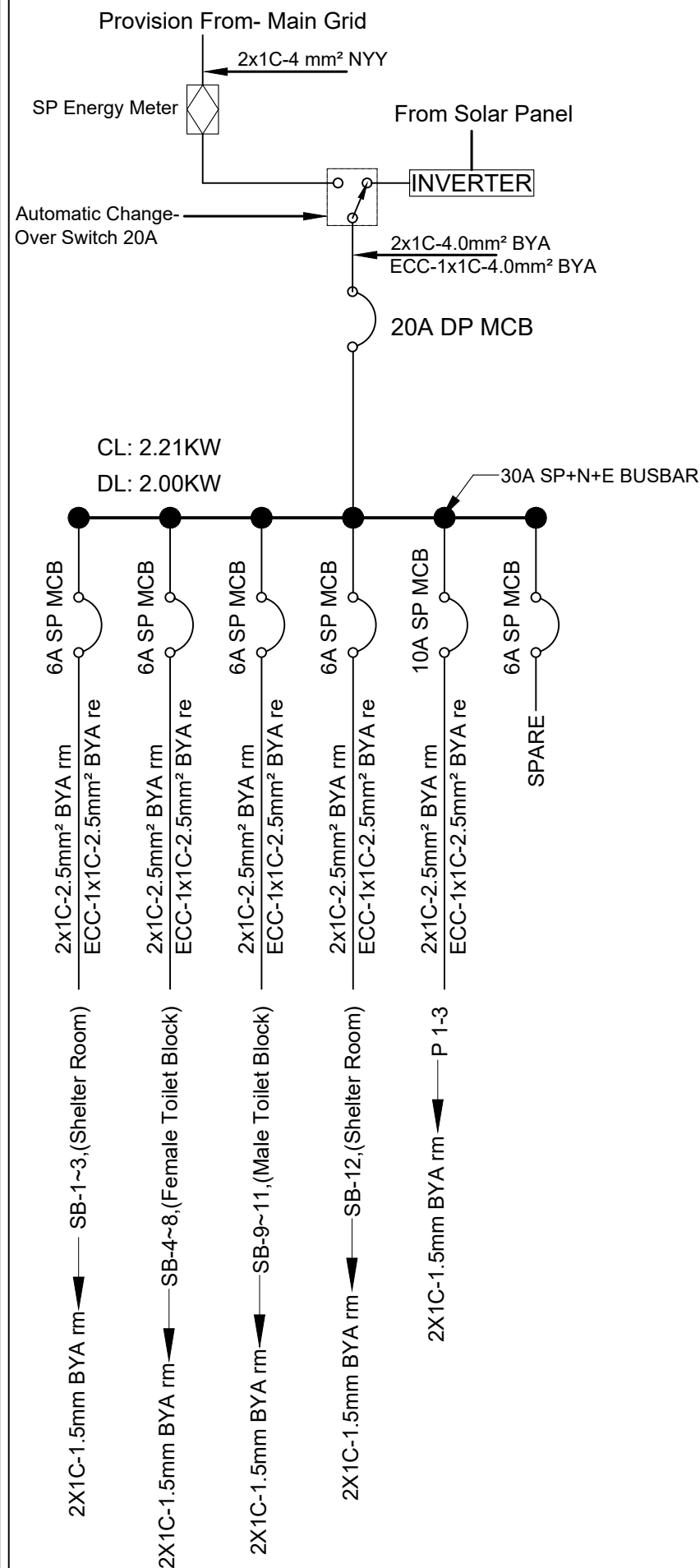


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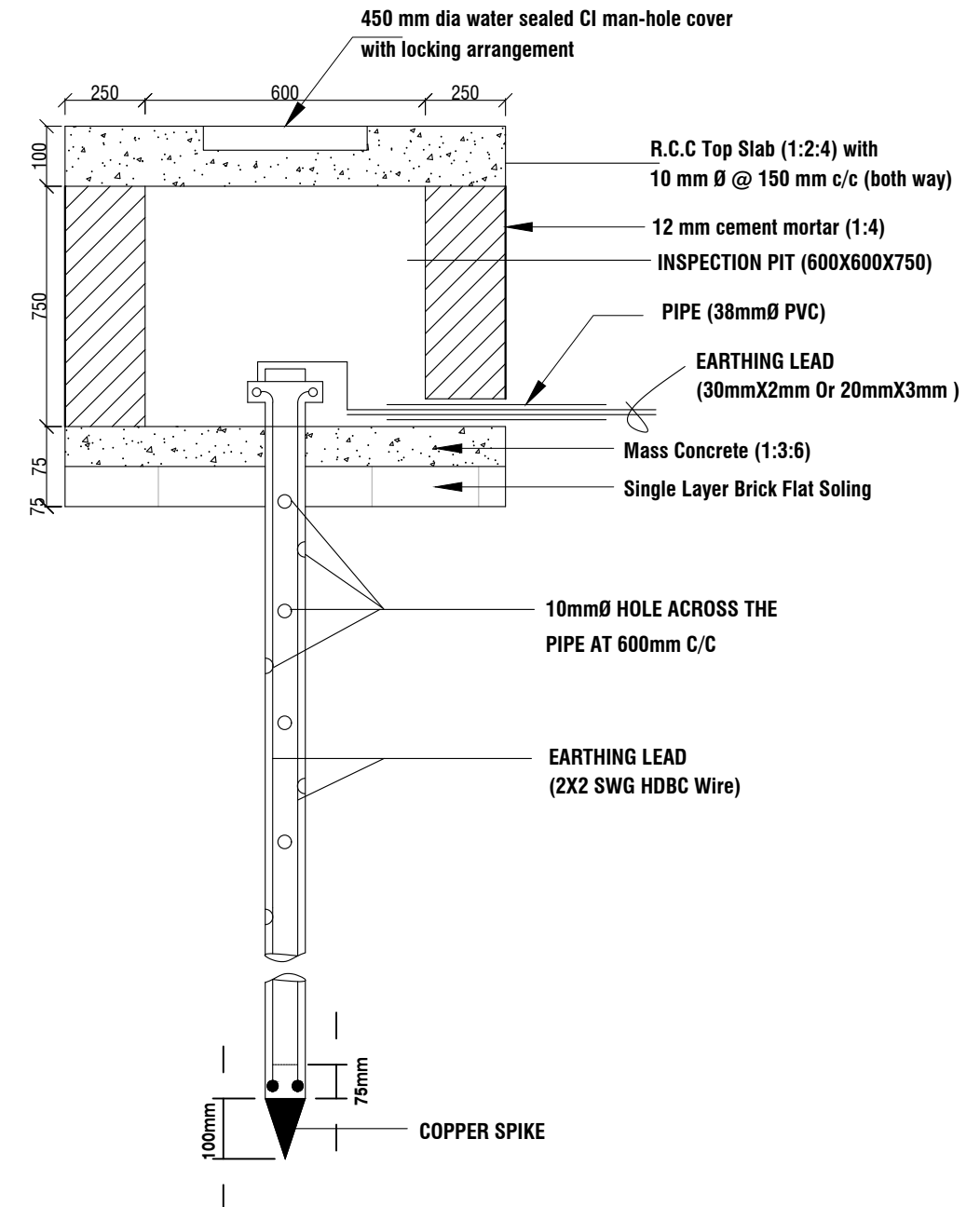


**ROOF FLOOR ELECTRICAL PLAN**  
 SCALE: 1:75

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**SCHEMATIC DIAGRAM OF SOLAR POWER**



**38mm Ø GI PIPE EARTHING DETAILS**

SUNK TO A DEPTH 12000mm (MINIMUM)

Earth resistance of Lightning protection System : 10Ω (as per NFPA780)

Air terminal to Air terminal distance ≤ 8Meter (as per NFPA780)

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