

CLIENT:



Government Of Nepal
Ministry Of Education
Central Level Project Implementation Unit (CLPIU)
Gyaneshwor, Kathmandu, Nepal.

DONOR:



Japan International Cooperation Agency

PROJECT:

Emergency School Reconstruction Project

TYPE DESIGN:

3 Small Rooms-ECD & 2 Classrooms
3C(S)



CONSULTANTS:



ORIENTAL CONSULTANTS GLOBAL Joint Venture
Global Consulting for sustainable Development



MOHRI, ARCHITECT & ASSOCIATES, INC

EWES East West Engineering Service Pvt. Ltd.
P. Box-8621, Bansbari, Kathmandu, Nepal. web: ewesnepal.com
Tel: 9771-4373316, Fax: 4650203, email - hbgewe@gmail.com

September, 2016

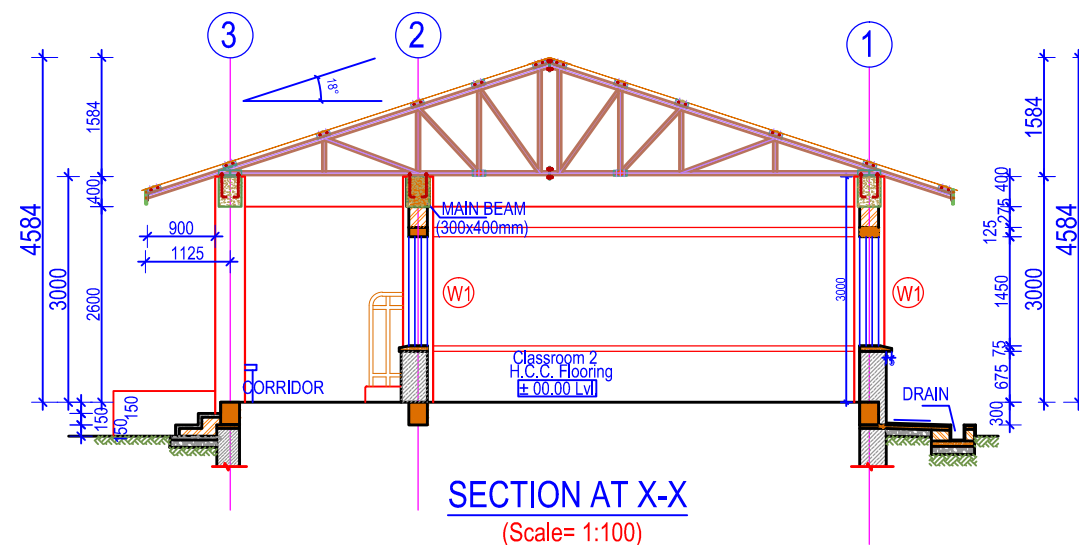
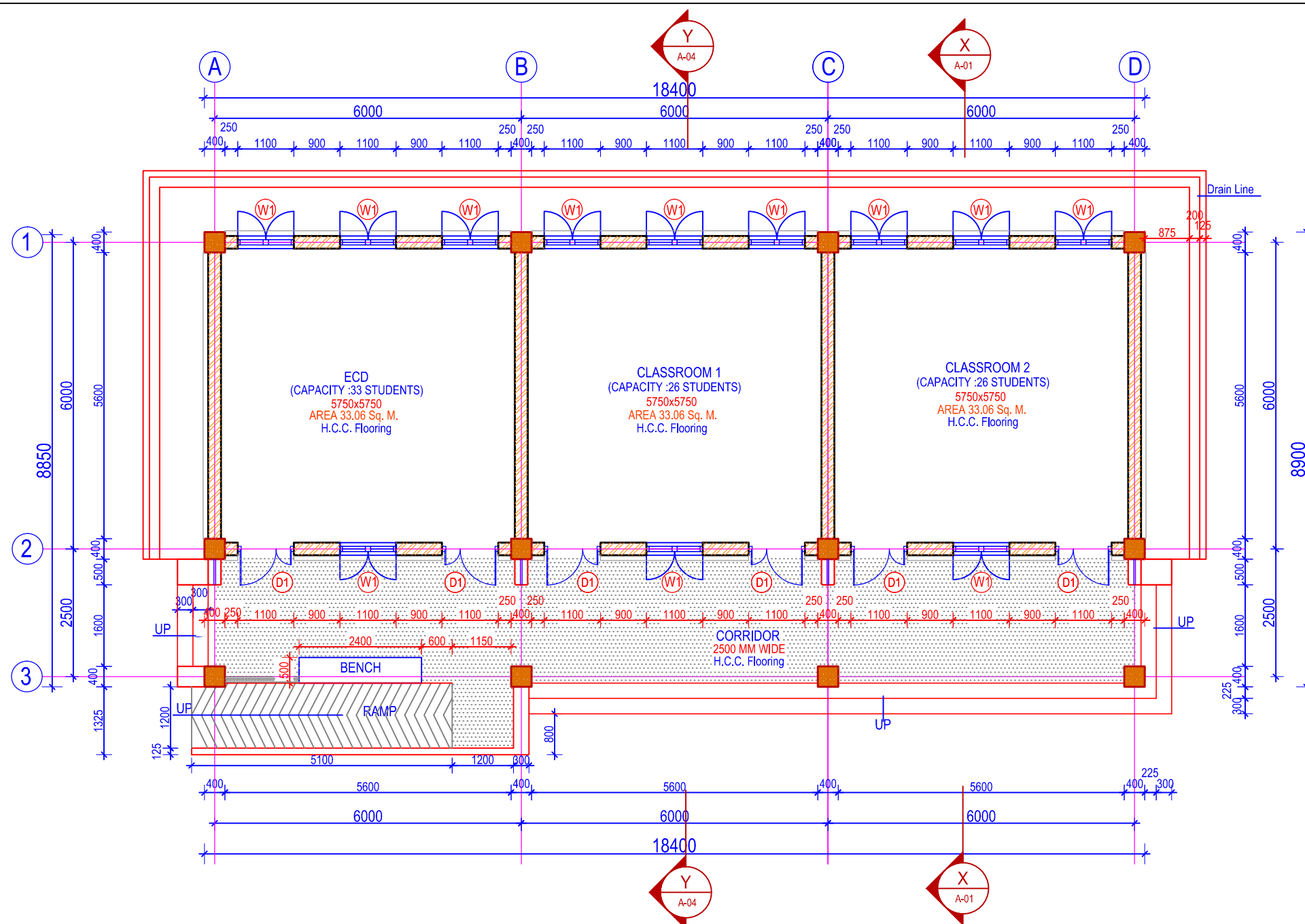
3 SMALL ROOMS- ECD & 2 CLASSROOMS 3C(S)

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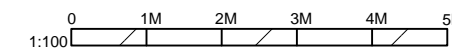
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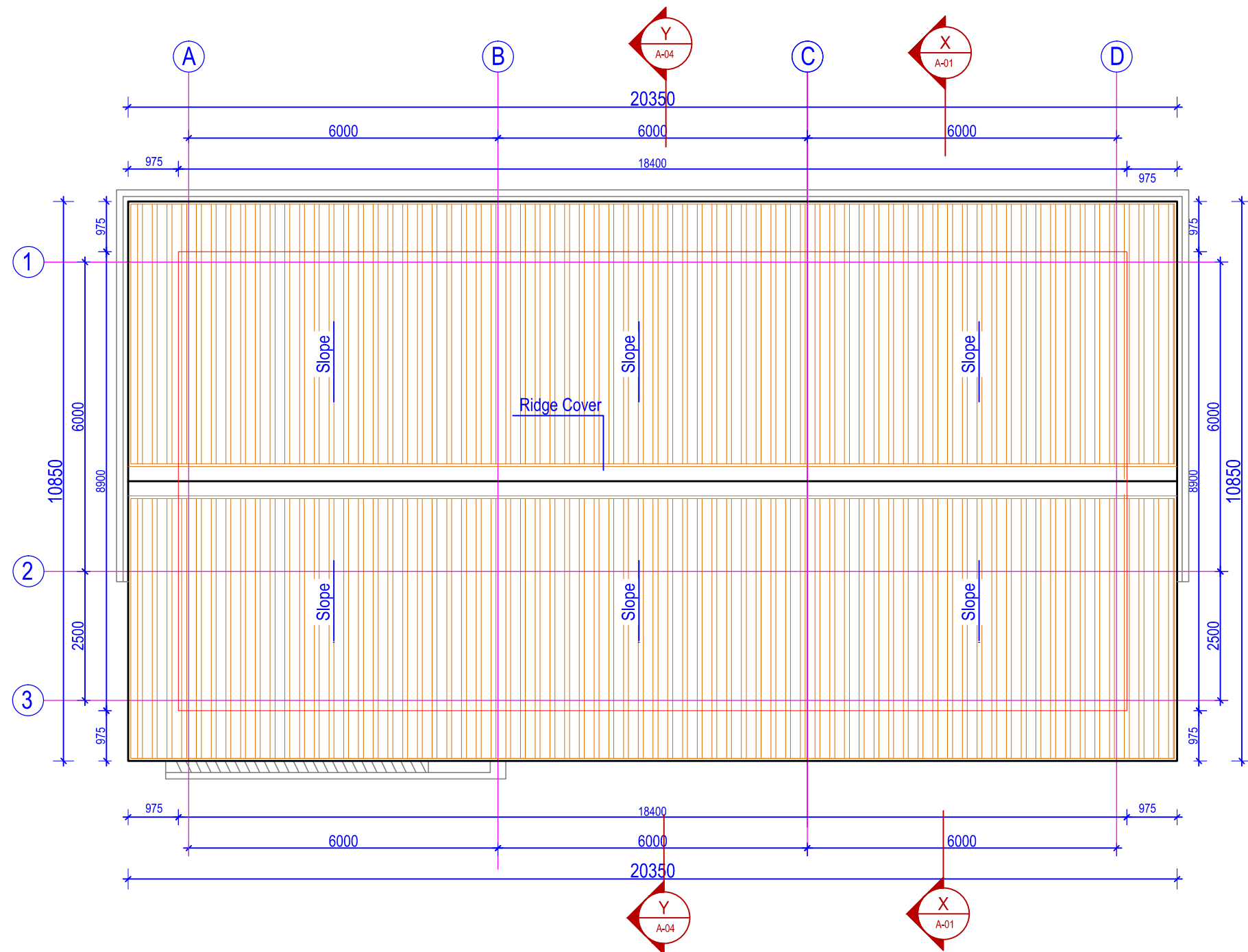
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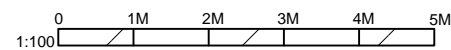
Sheet Title :	Sheet No.
GROUND FLOOR PLAN & SECTION	3C(S)

Date : September, 2016	A-01
Print Sheet : A3' Size	





ROOF PLAN



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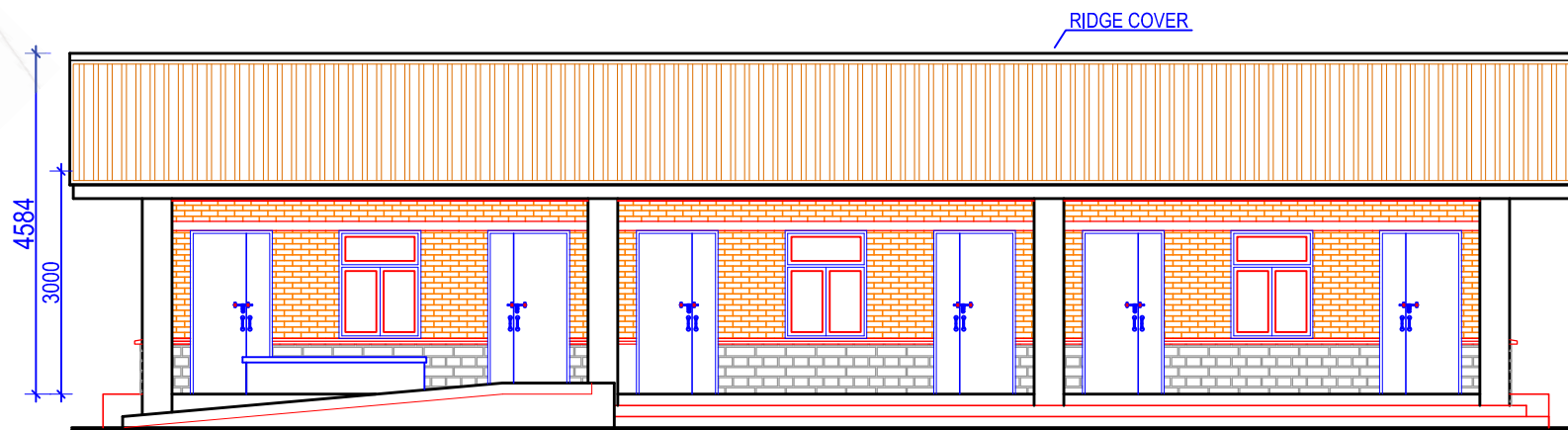
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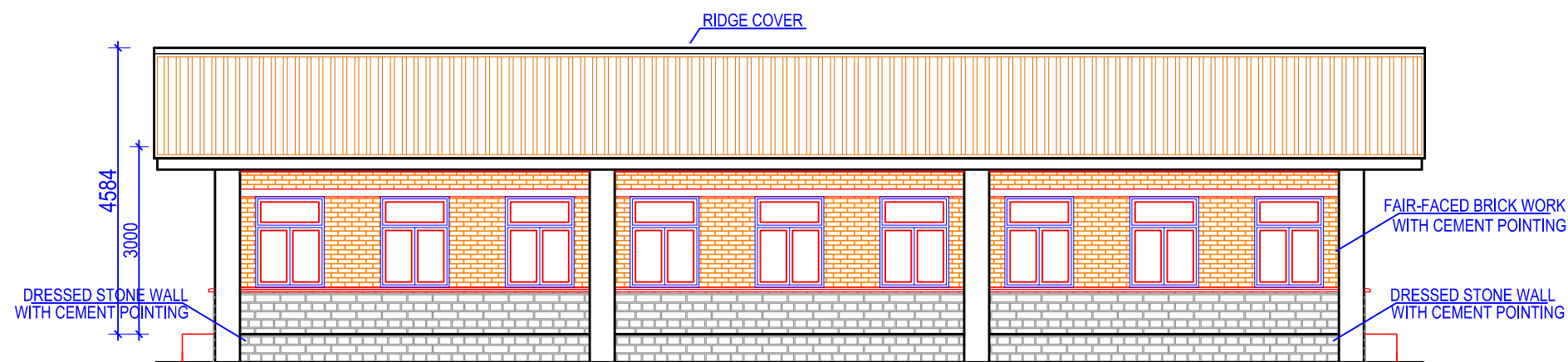
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Date : September, 2016	A-02
Print Sheet : A3' Size	



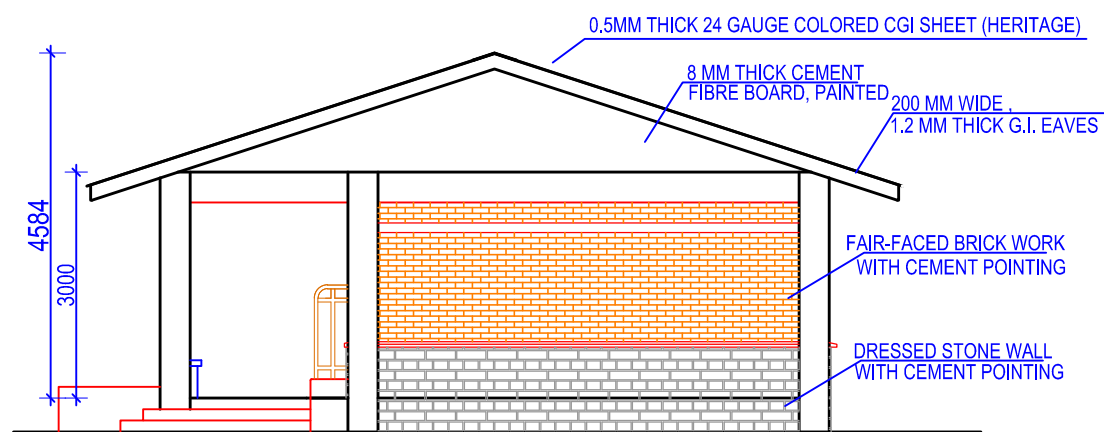
FRONT ELEVATION

(Scale= 1:100)



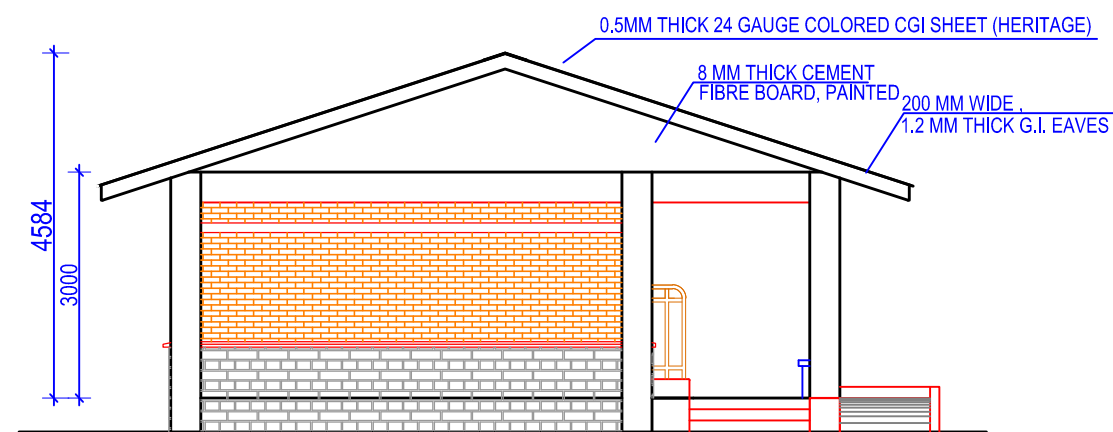
BACK ELEVATION

(Scale= 1:100)



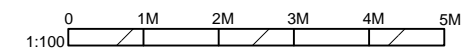
SIDE ELEVATION

(Scale= 1:100)



SIDE ELEVATION

(Scale= 1:100)



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Sheet Title :
ELEVATIONS

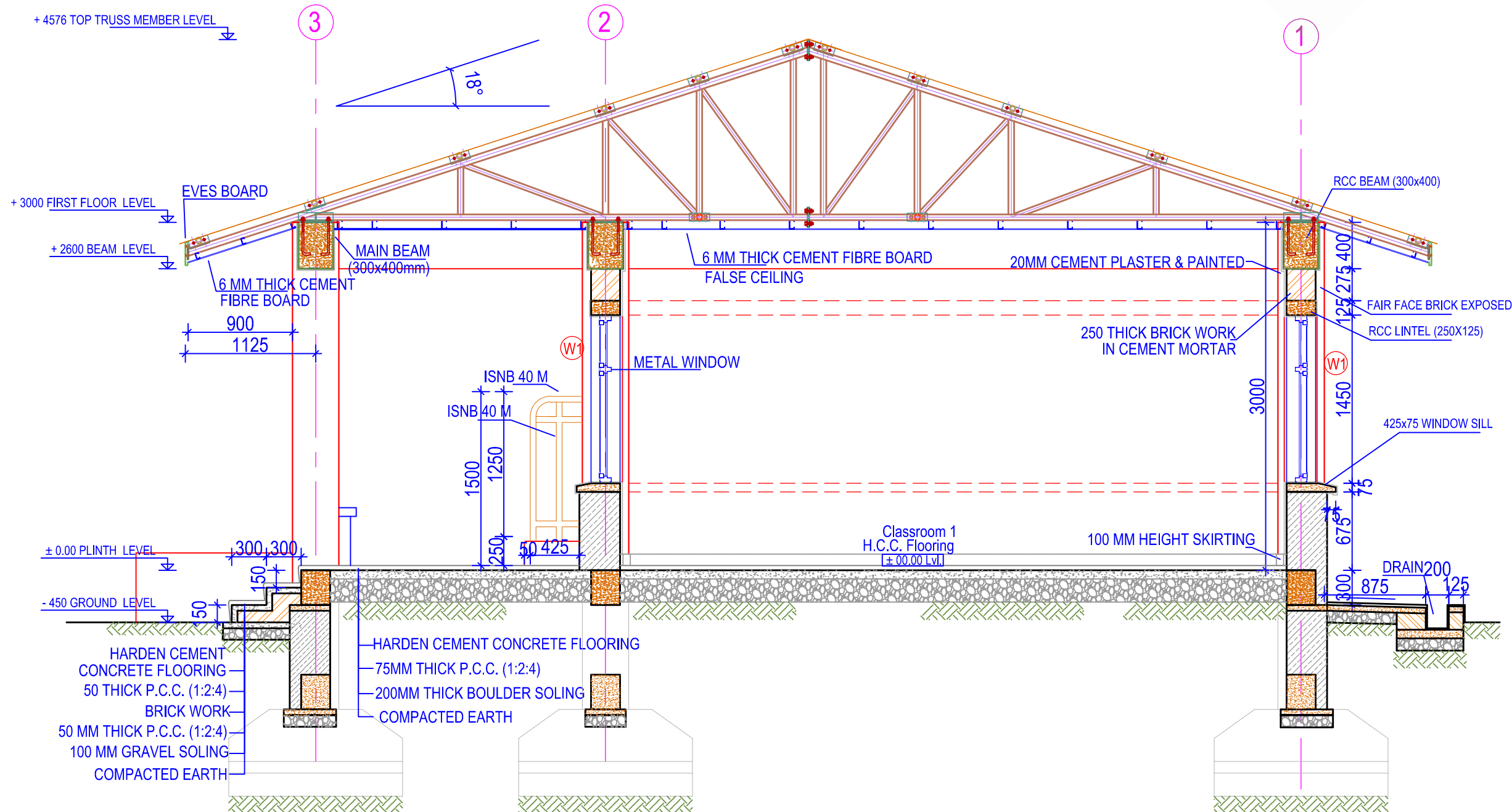
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3C(S)

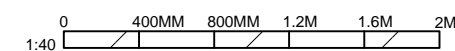
Date : September, 2016

Print Sheet : A3' Size

A-03



WALL SECTION AT Y-Y
 (Scale= 1:40)



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Sheet Title :

WALL SECTION

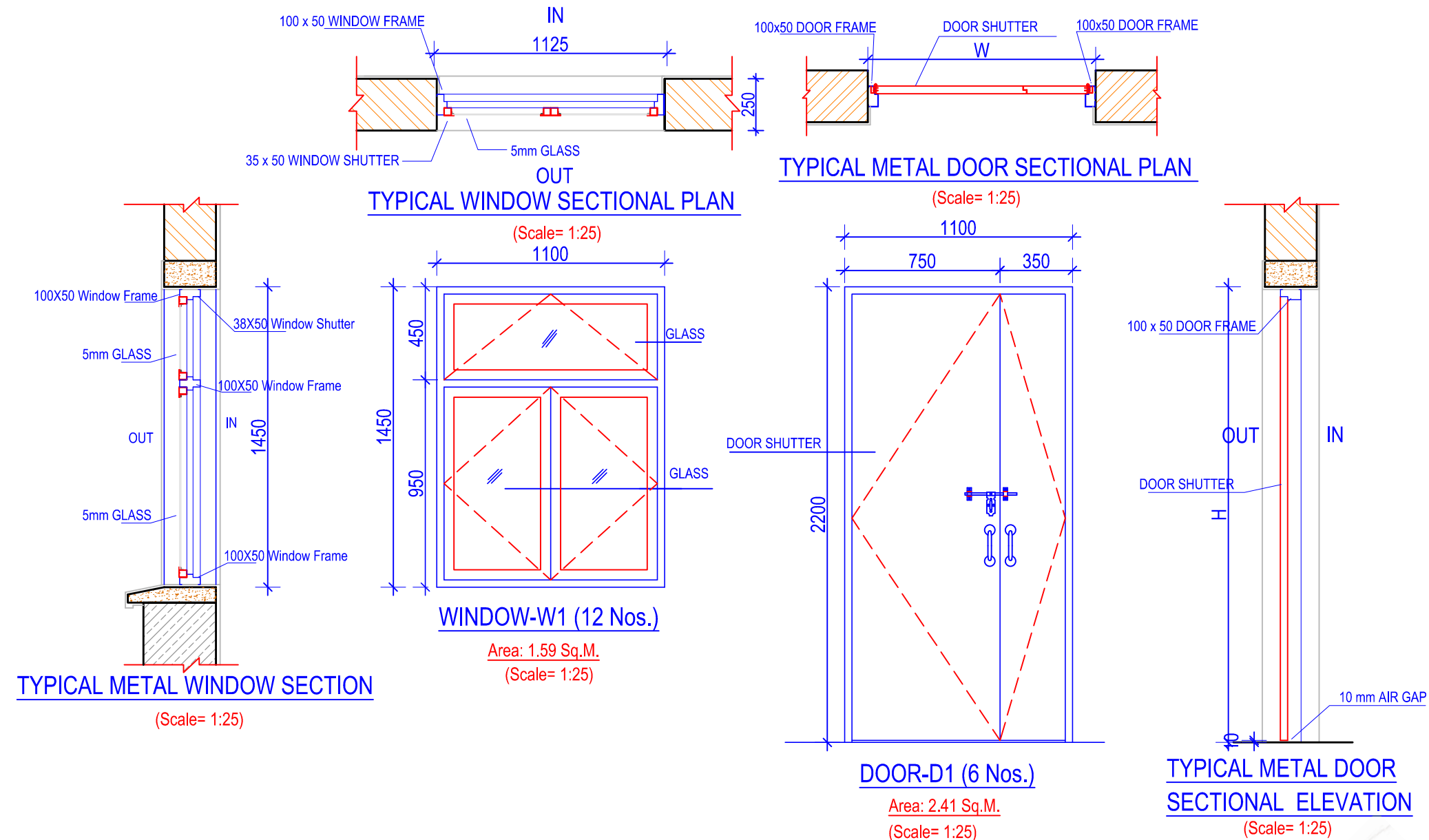
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3C(S)

Date : September, 2016

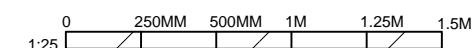
Print Sheet : A3' Size

A-04



DOORS & WINDOWS SCHEDULE:

S.N.	SYMBOL	SIZES	G.F.	TOTAL	REMARKS
1.	W1	1100 x 1450	12	12	MS Frame & Shutter Grill Only For Ground Floor
2.	D1	1100 x 2200	6	6	MS Frame & Shutter
TOTAL			18	18	



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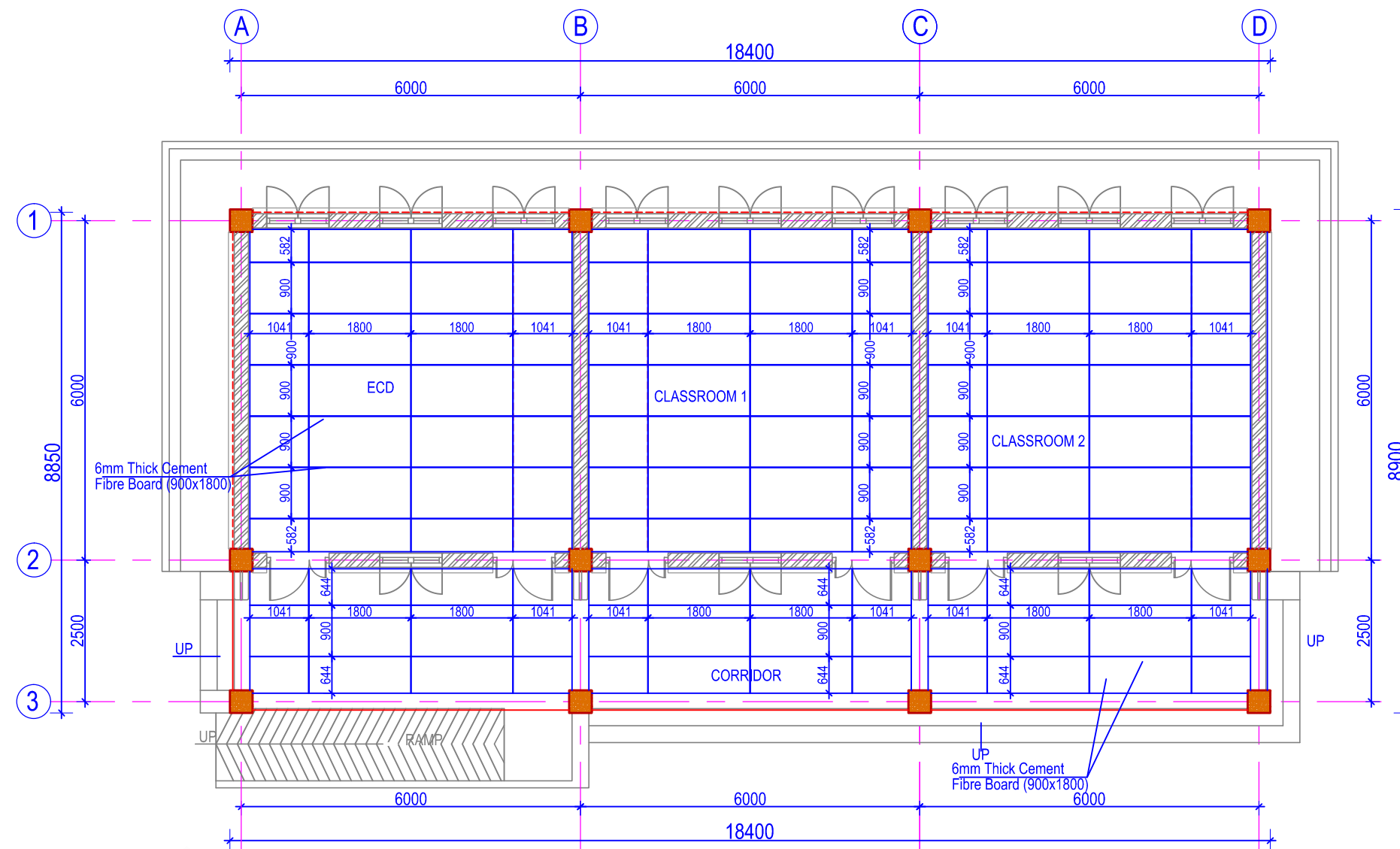
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Sheet Title :	Sheet No.
DOOR & WINDOW DETAILS	3C(S)

Date : September, 2016	A-05
Print Sheet : A3' Size	



GROUND FLOOR FALSE CEILING LAYOUT PLAN

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Gyaneshwor, Kathmandu

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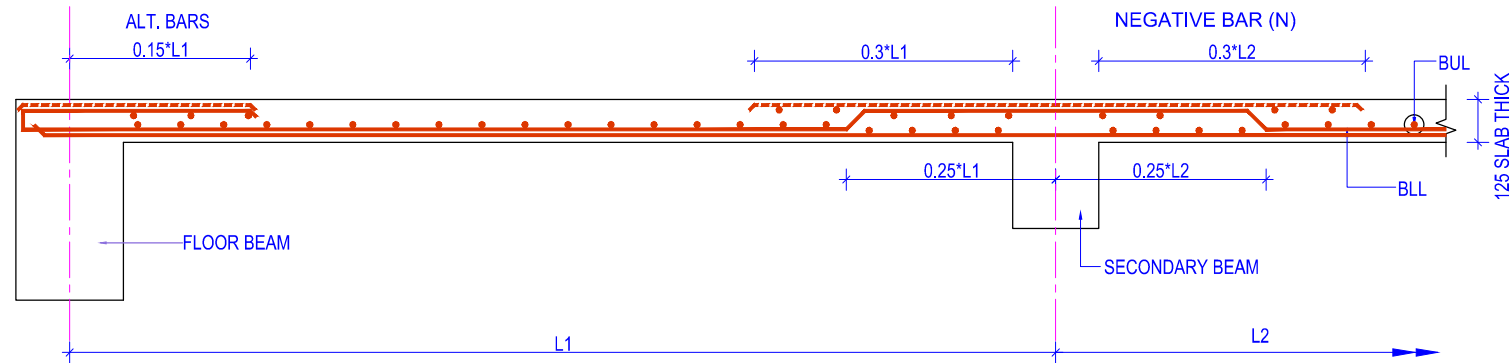
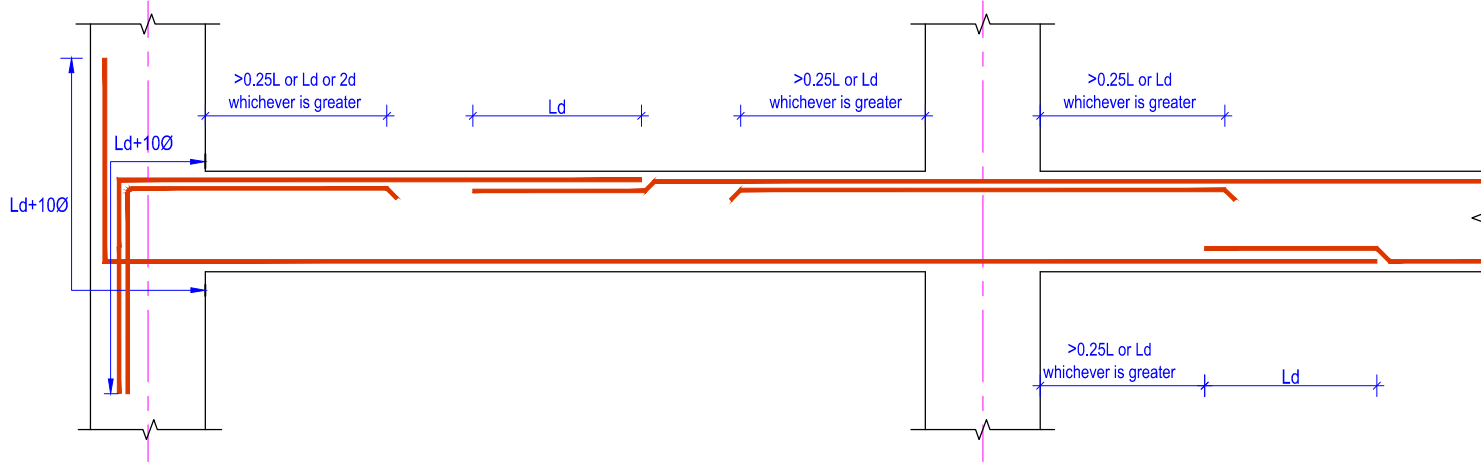
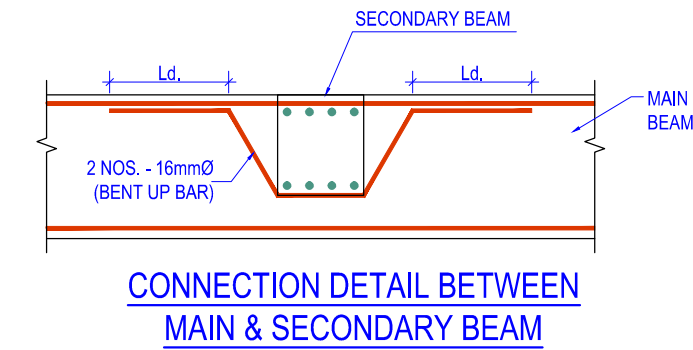
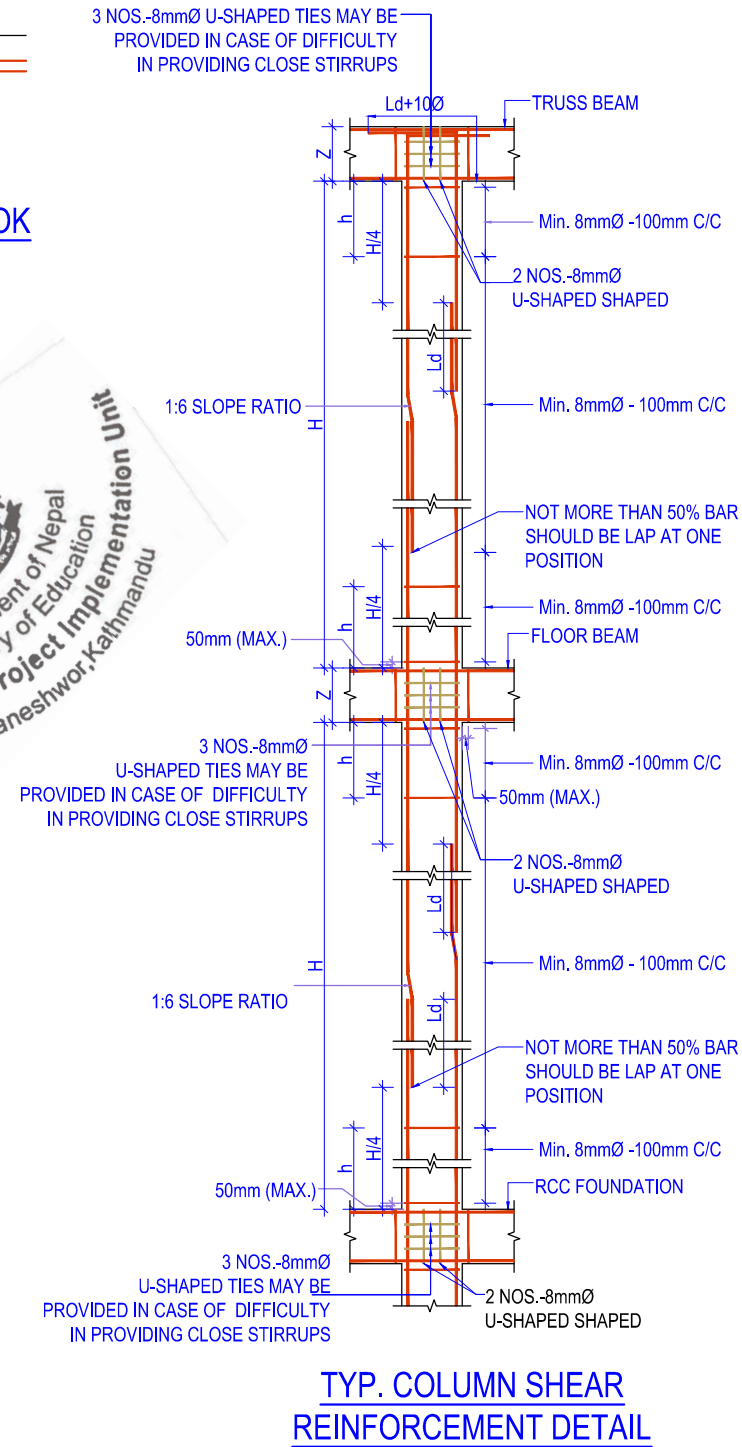
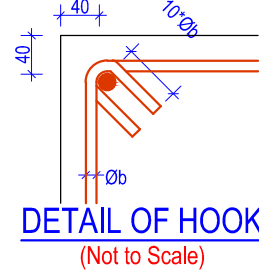
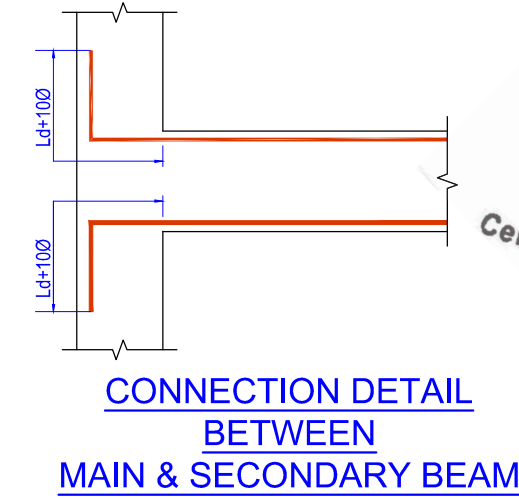
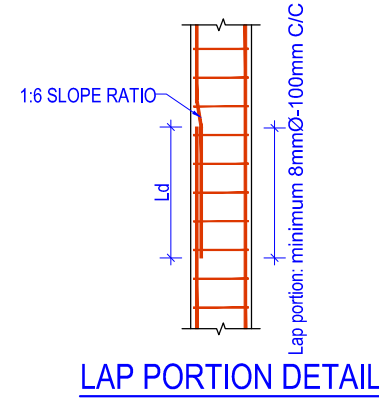
Type Design :
3 SMALL ROOMS
- ECD & 2 CLASSROOMS

Sheet Title :	Sheet No.
FALSE CEILING PLAN	3C(S)

Date : September, 2016	A-06
Print Sheet : A3' Size	

GENERAL NOTE:

1. USE M20 (1:1.5:3) GRADE CONCRETE FOR SLAB, BEAM, COLUMN, FOUNDATION, SILL & LINTEL BANDS (ALL RCC WORKS)
2. USE Fe500 GRADE STEEL ($f_y=500\text{N/mm}^2$) for stirrups Fe415 N/mm²
3. CLEAR COVER TO BARS
- a. FOR CONCRETE MEMBERS IN CONTACT WITH SOIL = MIN 50mm
- b. FOR LONGITUDINAL (VERTICAL) BARS IN COLUMN = 40mm
- c. FOR MAIN BARS IN BEAMS = 25mm
- d. FOR OUTER BARS IN SLAB = 20mm
4. BARS IN COLUMNS SHALL BE SPICED ONLY AT MID HEIGHT OF COLUMN AS PER DUCTILE DETAILING IS 13920- 2014
5. BARS SPICING IN BEAM SHALL BE AVOIDED IN THE SPAN WHERE INTERMEDIATE BEAM IS CONNECTED AND SHALL BE ONLY AS SHOWN ON DWG.
6. DEVELOPMENT / LAP LENGTH (L_d) FOR BARS.
- | BAR DIA-(mm) | 8 | 10 | 12 | 16 | 20 | 25 | 32 |
|---------------|-----|-----|-----|-----|------|------|------|
| FOR M20 L_d | 480 | 600 | 720 | 960 | 1200 | 1500 | 1920 |
7. TEMP./DISTRIBUTION REINFORCEMENT FOR SLAB - TMT 8Ø @ 150 C/C
8. CLEAR VERTICAL DISTANCE BETWEEN TWO ROWS (LAYERS) OF BARS=25mm.
9. PROVIDE SHEAR REINFORCEMENT AT 100 C/C AT LAP LOCATIONS.
10. H = CLEAR SPAN OF FLOOR.
11. h = $H/6$ OR 450mm OR LARGER LATERAL DIMENSION OF THE MEMBER ,WHICHEVER IS GREATER.
12. Z = DEPTH OF BEAM.
13. STRUCTURAL STEEL TRUSS SHALL HAVE STRENGTH F_y 345MPa
14. FOUNDATION TYPE SHOULD BE DECIDED BY SITE CONDITION AFTER EXCAVATION OF FOUNDATION.
15. IF BEARING CAPACITY IS LESS THAN 50 kN/m², FOUNDATION SHOULD BE RE-DESIGNED.
16. PROVIDE 2-16dia TORSION BARS IN 525mm DEEP BEAM



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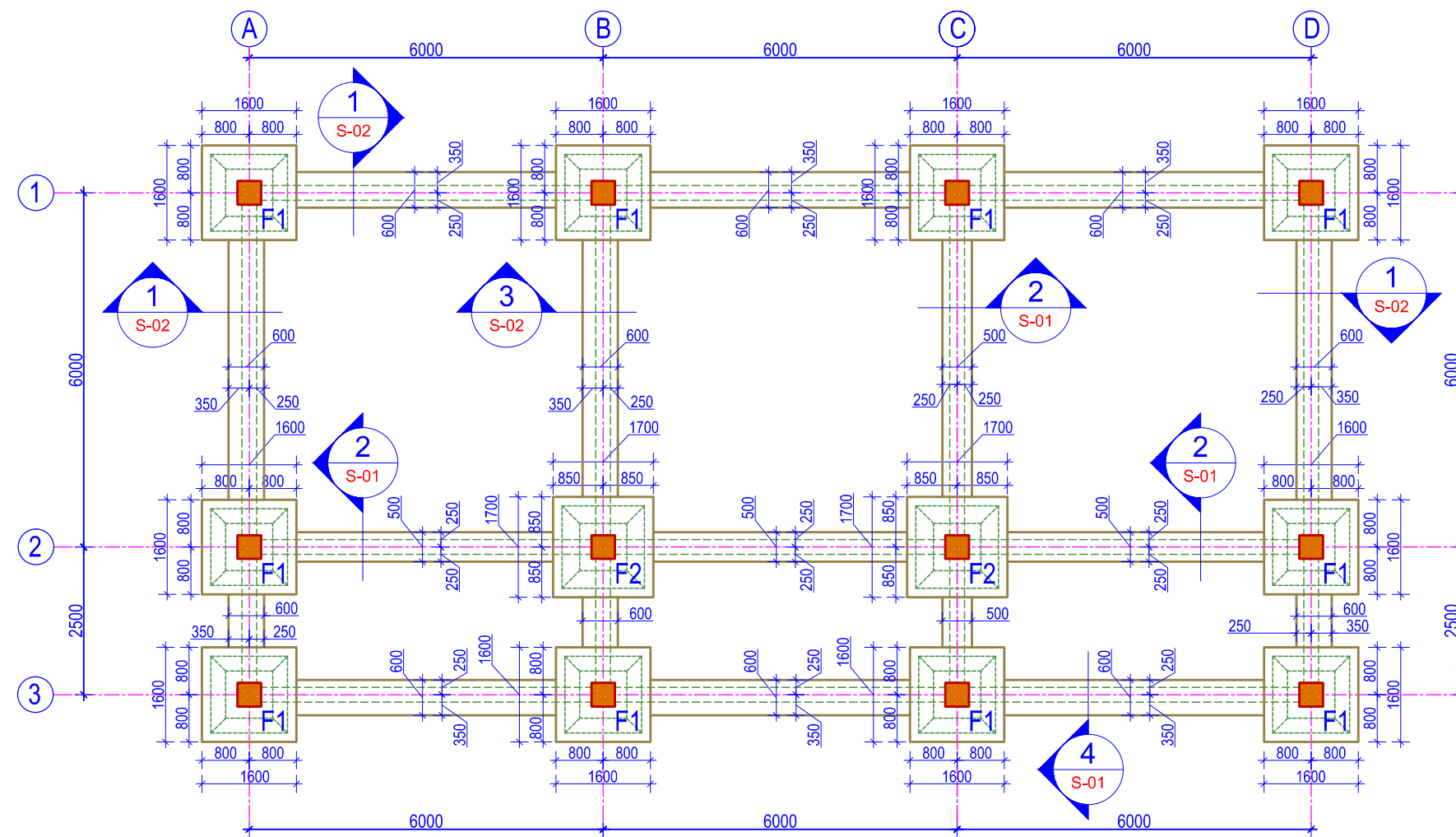
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Sheet Title : GENERAL NOTES & TYPICAL DETAILS	Sheet No. 3C(S)
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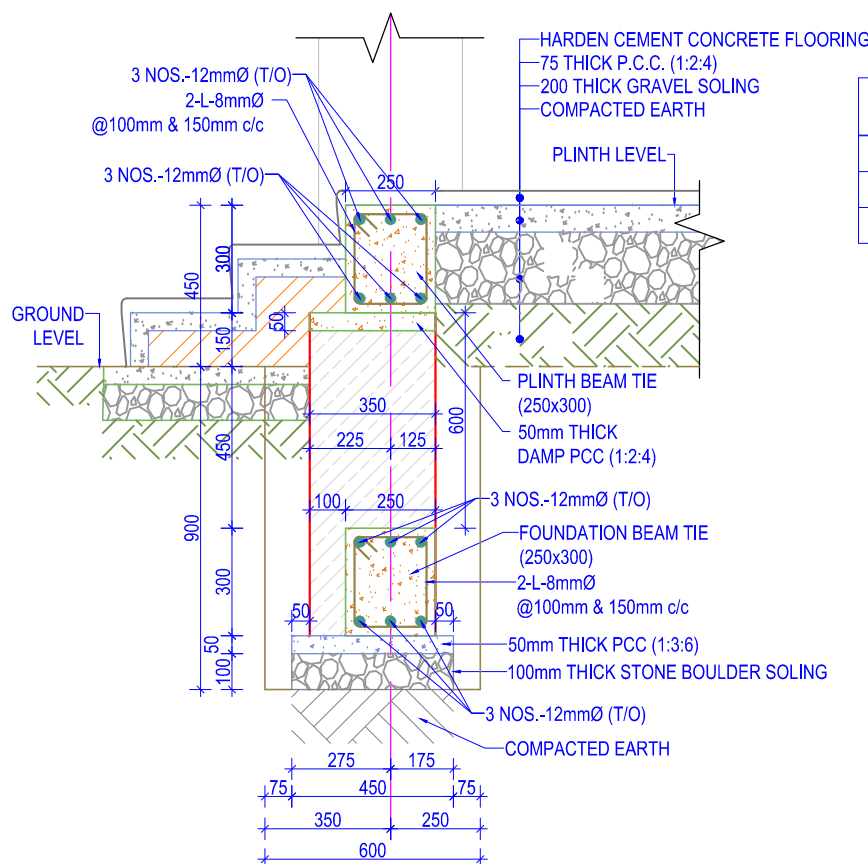
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TRENCH PLAN
(Scale= 1:100)

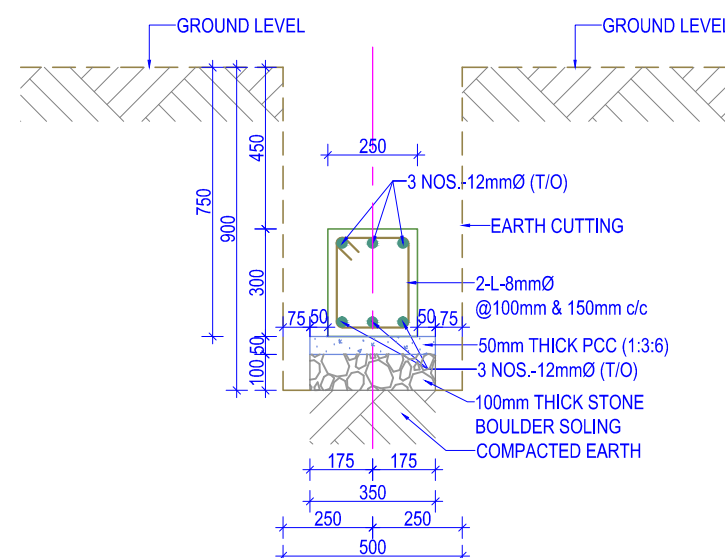


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WALL FOUNDATION DETAIL SECTION AT -4
(Scale= 1:20)

FOOTING TABLE				
S.N.	FOOTING	LENGTH	BREADTH	DEPTH
1.	F1	1300	1300	450
2.	F2	1400	1400	450

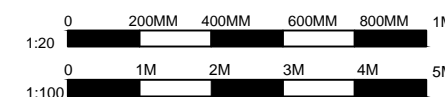


FOUNDATION BEAM TIE SECTION DETAIL AT -2
(SCALE = 1:20)

Footing Design for 3C(S)

Soil Bearing Capacity	Grid	Foundation Size L x B (mm)	Thickness (mm)	Reinforcement Each way (AS)
Above 180, 101-180, 50-100 kN/m ²	A1, B1, C1, D1, A2, D2, A3, B3, C3, D3	1300 x 1300	450	12Ø - 150 c/c
	B2, C2	1400 x 1400	450	12Ø - 150 c/c

PLINTH BEAM TIE SECTION DETAIL AT -2
(SCALE = 1:20)



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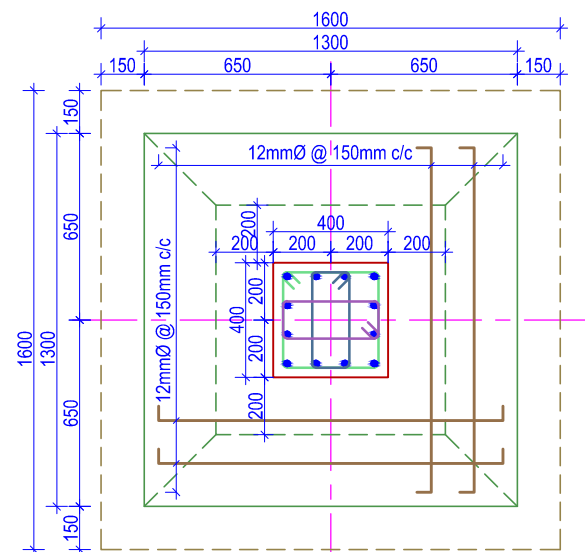
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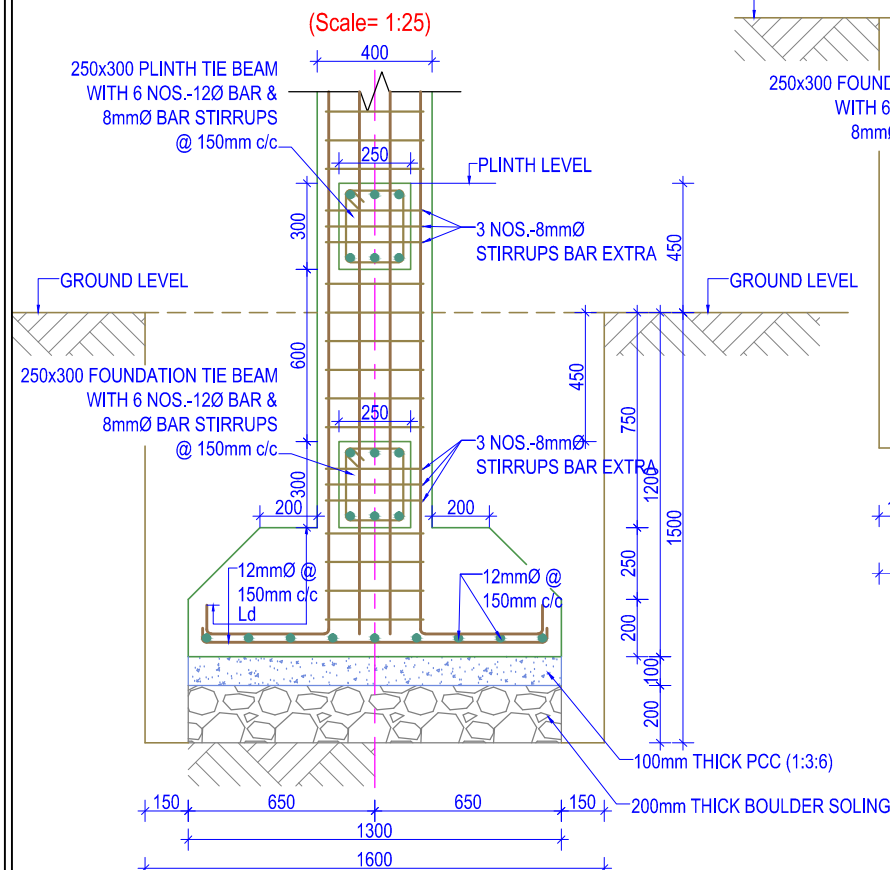
Sheet Title :
TRENCH PLAN,
TIE BEAM DETAILS &
WALL FOUNDATION DETAILS

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Print Sheet : A'3' Size

Sheet No.
3C(S)
S-01

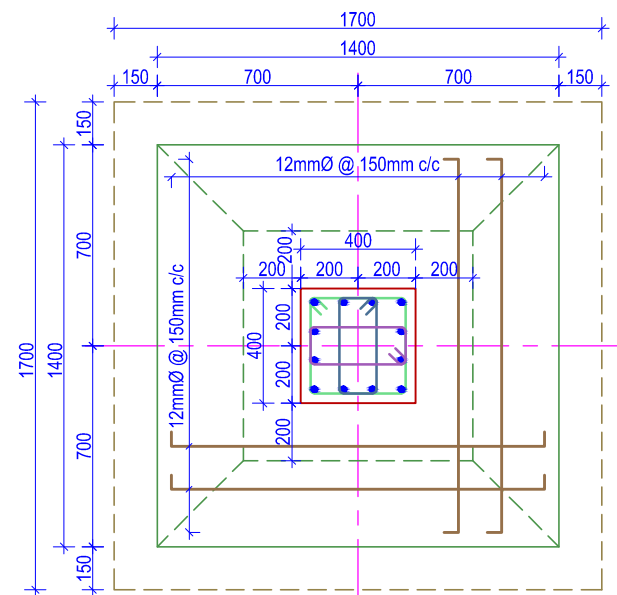


COLUMN FOOTING PLAN -F1

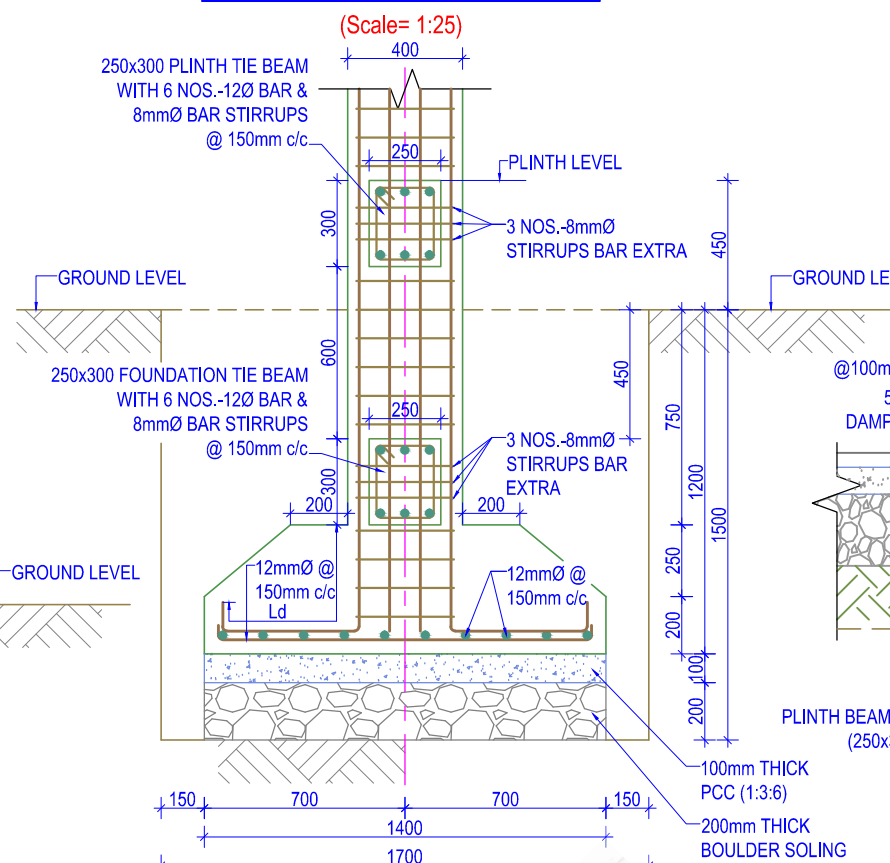


COLUMN FOOTING SECTION -F1

(Scale= 1:25)

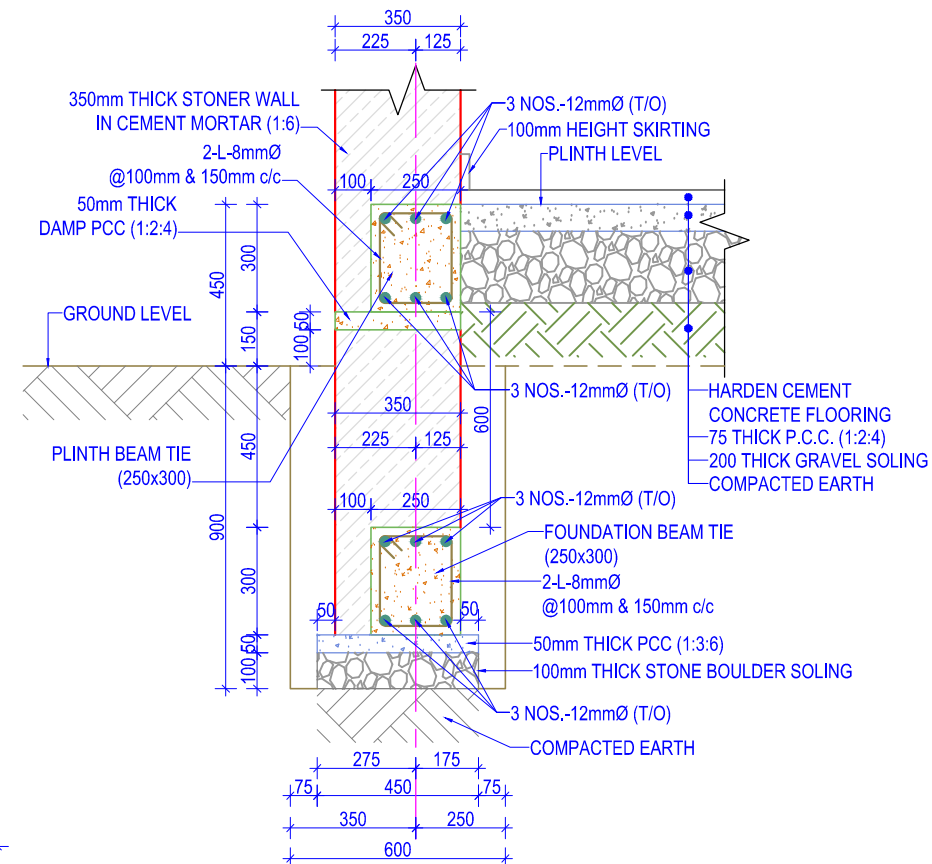


COLUMN FOOTING PLAN -F2



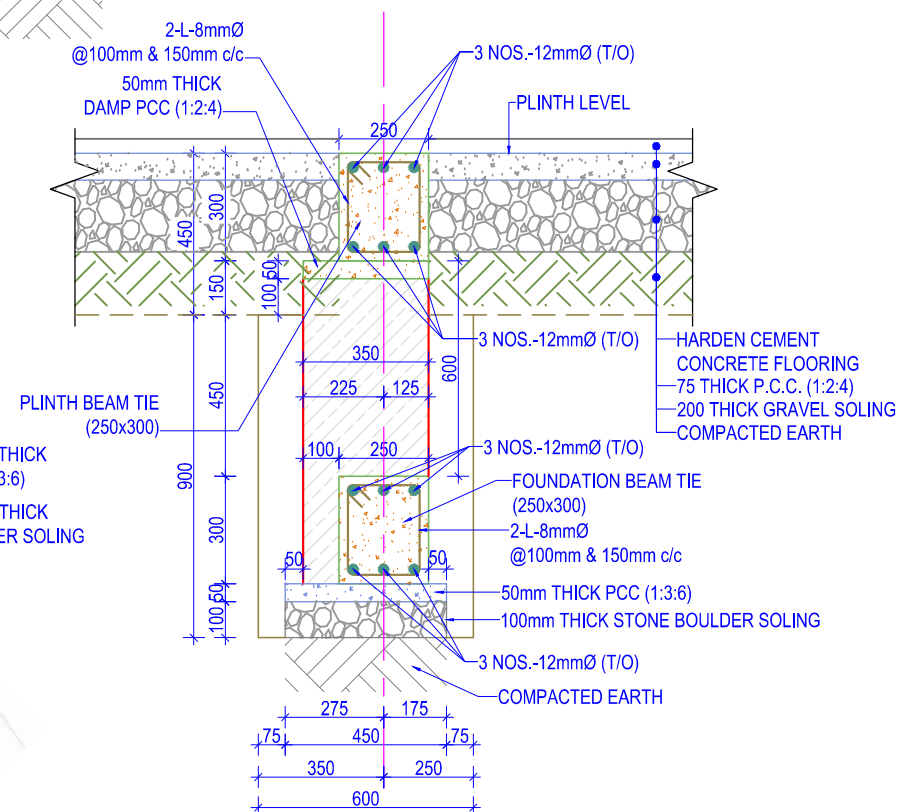
COLUMN FOOTING SECTION -F2

(Scale= 1:25)



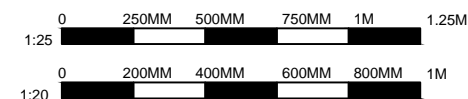
WALL FOUNDATION DETAIL SECTION AT -1

(Scale= 1:20)



WALL FOUNDATION DETAIL SECTION AT -3

(Scale= 1:20)



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3 SMALL ROOMS -
ECD & 2 CLASSROOMS

Sheet Title :

FOOTING PLAN & SECTION,
WALL FOUNDATION DETAILS

Sheet No.

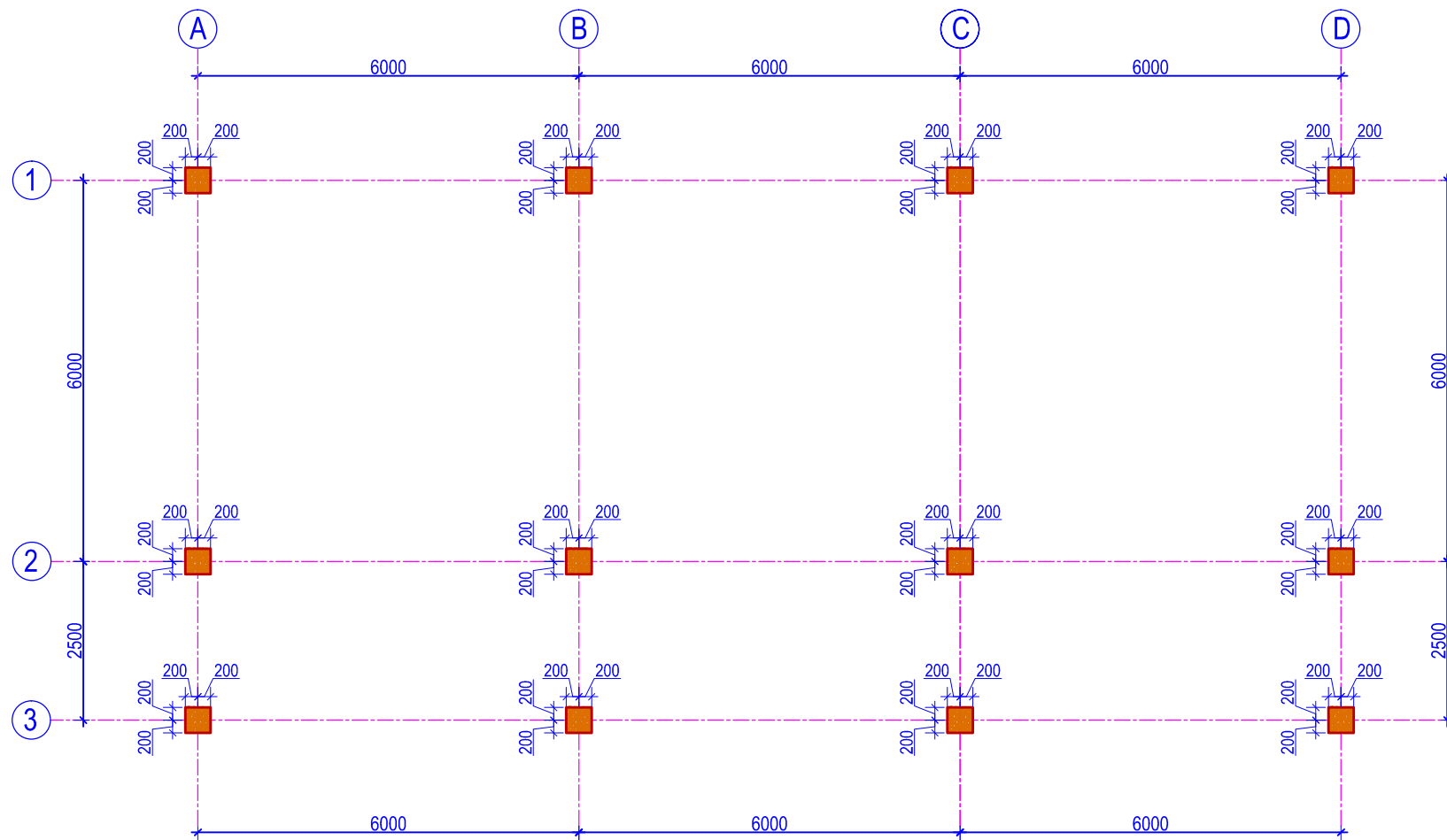
3C(S)

Date : September, 2016

Print Sheet : A'3' Size

S-02

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Ministry of Education
Central Level Project Implementation
Gyaneshwor, Kathmandu

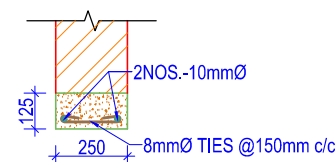


COLUMN LAYOUT PLAN

(Scale= 1:100)

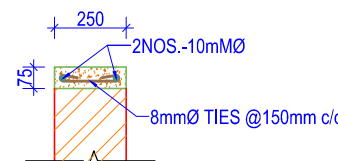
COLUMN REINFORCEMENT DETAILS

S. NO.	GRID	GRID -A	GRID -B	GRID -C	GRID -D	STIRRUPS
		COLUMN SIZE (400 x 400)	COLUMN SIZE (400 x 400)	COLUMN SIZE (400 x 400)	COLUMN SIZE (400 x 400)	
1	1, 2 & 3	 4 NOS. -16mmØ 8 NOS. -12mmØ	 4 NOS. -16mmØ 8 NOS. -12mmØ	 4 NOS. -16mmØ 8 NOS. -12mmØ	 4 NOS. -16mmØ 8 NOS. -12mmØ	 8Ø@100mm c/c & 150mm c/c



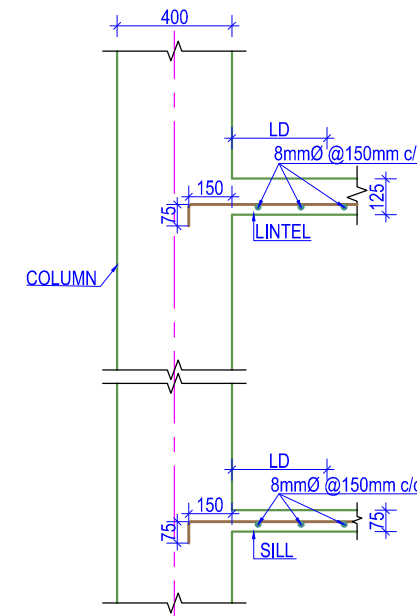
X-SECTION OF LINTEL BAND AT A-A

(Scale= 1:25)



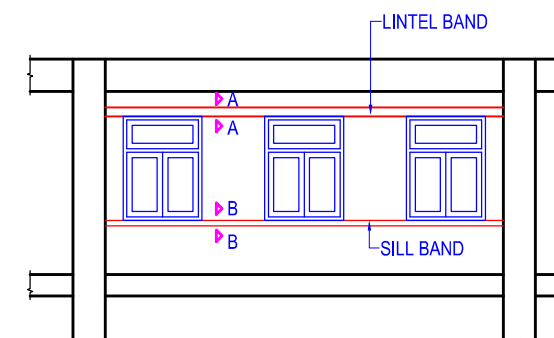
X-SECTION OF SILL BAND AT B-B

(Scale= 1:25)



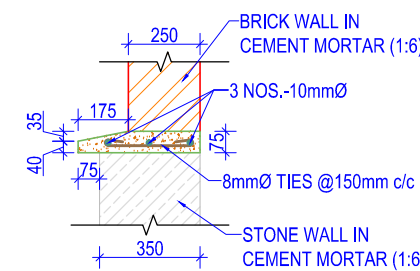
COLUMN & LINTEL JOINT DETAIL

(Scale= 1:25)



ELEVATION OF WALL WITH LINTEL & SILL BAND

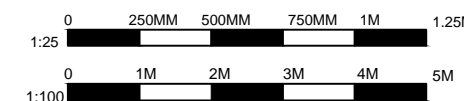
(Scale= NTS)



X-SECTION OF SILL BAND

(STONE MASONRY)

(Scale= 1:25)



NOTES:

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Government Of Nepal
Department Of Education
Sanathimi, Bhaktapur, Nepal



Donor :
**Japan International
Cooperation Agency**

Project Title:

Emergency School Reconstruction Project



ORIENTAL CONSULTANTS GLOBAL
Global Consulting for sustainable Development
Joint Venture with
MOHRI, ARCHITECT & ASSOCIATES, INC

Sub-Consultant:

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P. Box-8621, Bansbari, Kathmandu, Nepal. web: ewesnepal.com
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Mr. Tomoki Miyano

Mr. H.B. Gurung

Mr. Hisafumi Michikawa

Mr. A.S. Tamang

Mr. Wong Kuok Hung

Mr. S. Malla

Type Design :

**3 SMALL ROOMS -
ECD & 2 CLASSROOMS**

Sheet Title :

**COLUMN PLAN & DETAILS
SILL & LINTEL DETAILS**

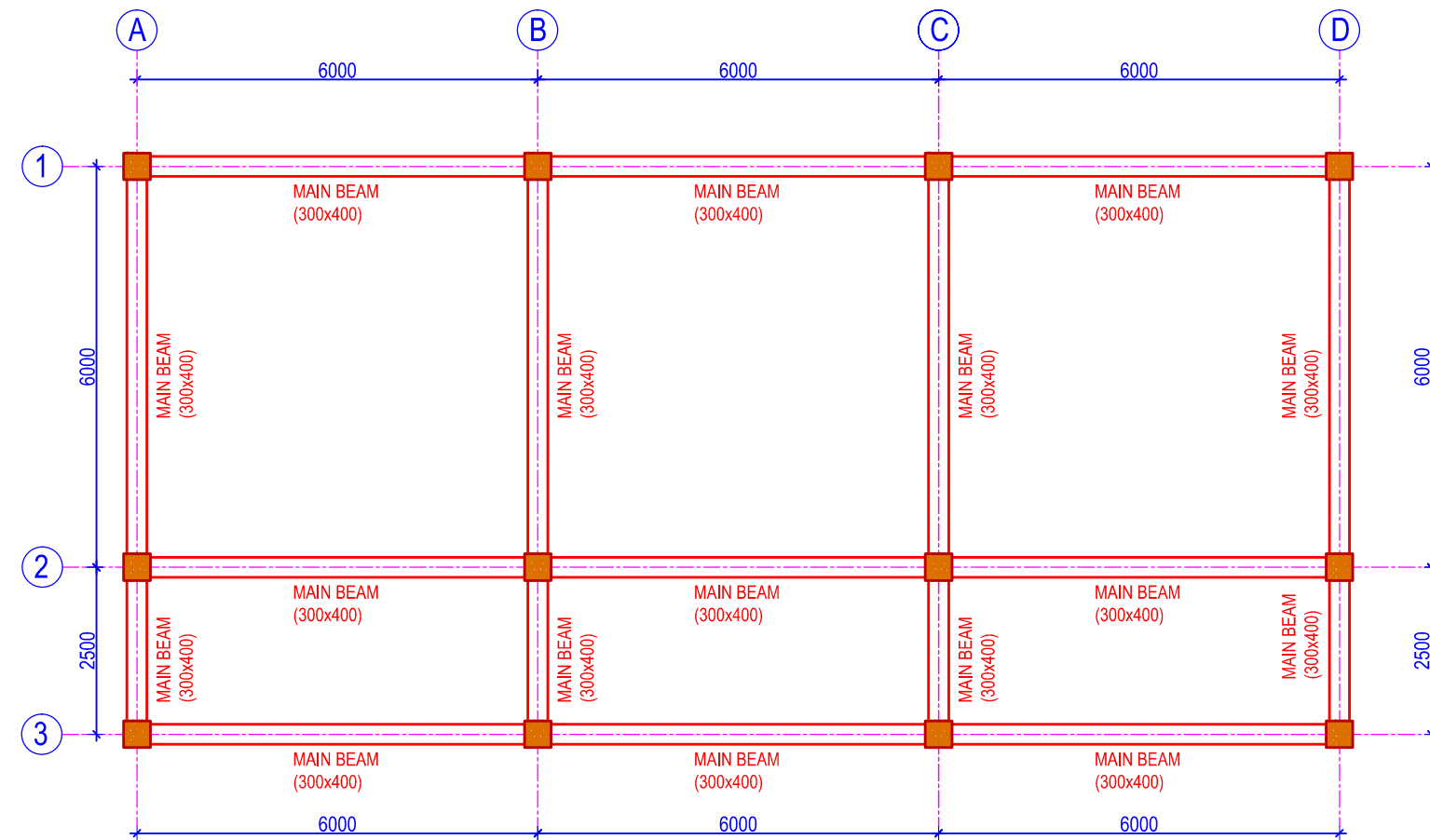
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3C(S)

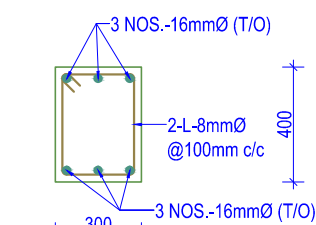
Date : September, 2016

Print Sheet : A'3' Size

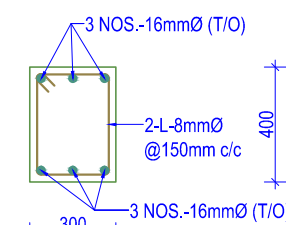
S-03



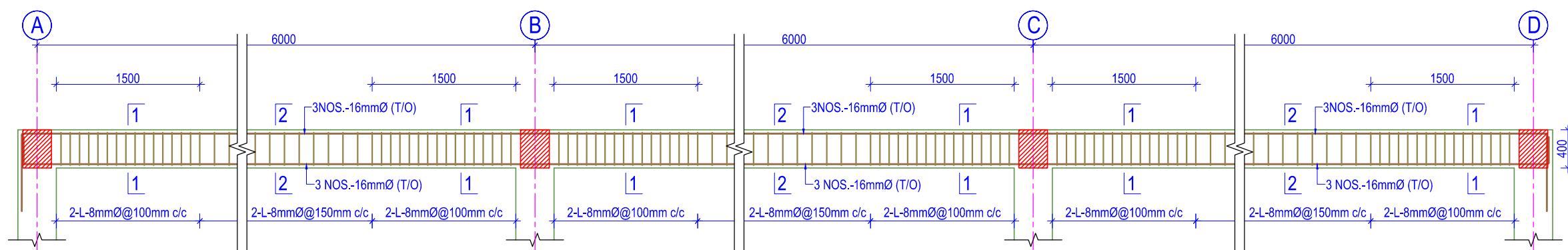
BEAM PLAN
(Scale = 1:100)



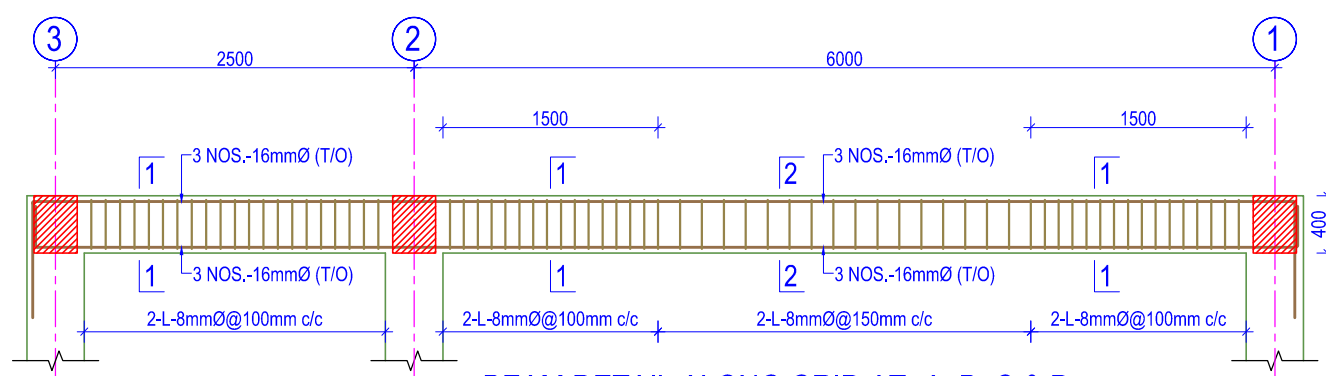
SECTION -1-1
(SCALE = 1:25)



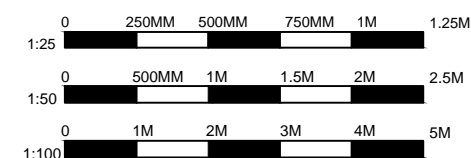
SECTION -2-2
(SCALE = 1:25)



BEAM DETAIL ALONG GRID AT -1, 2 & 3
(SCALE = 1:50)



BEAM DETAIL ALONG GRID AT -A, B, C & D
(SCALE = 1:40)



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Mr. Hisafumi Michikawa

Mr. A.S. Tamang

Mr. Wong Kuok Hung

Mr. S. Malla

Type Design :

**3 SMALL ROOMS -
ECD & 2 CLASSROOMS**

Sheet Title :
BEAM PLAN & DETAILS

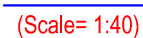
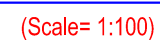
Sheet No.

3C(S)

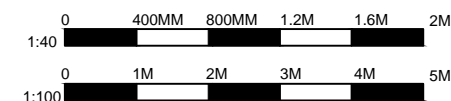
Date : September, 2016

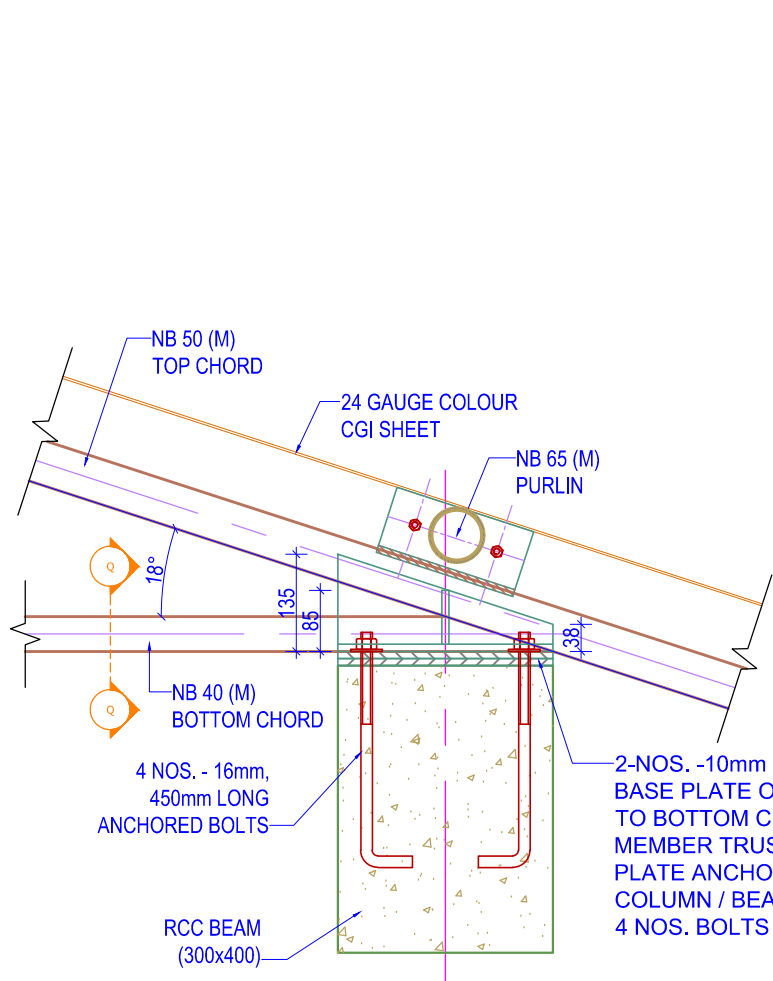
Print Sheet : A'3' Size

S-04

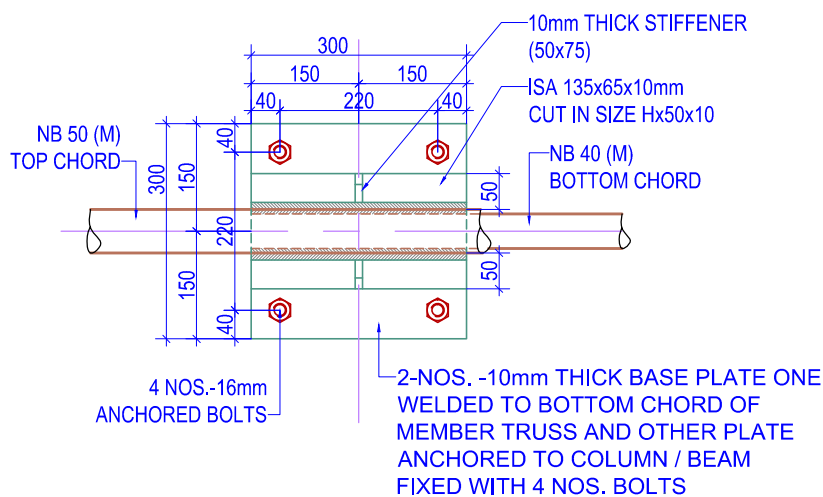


- S-05

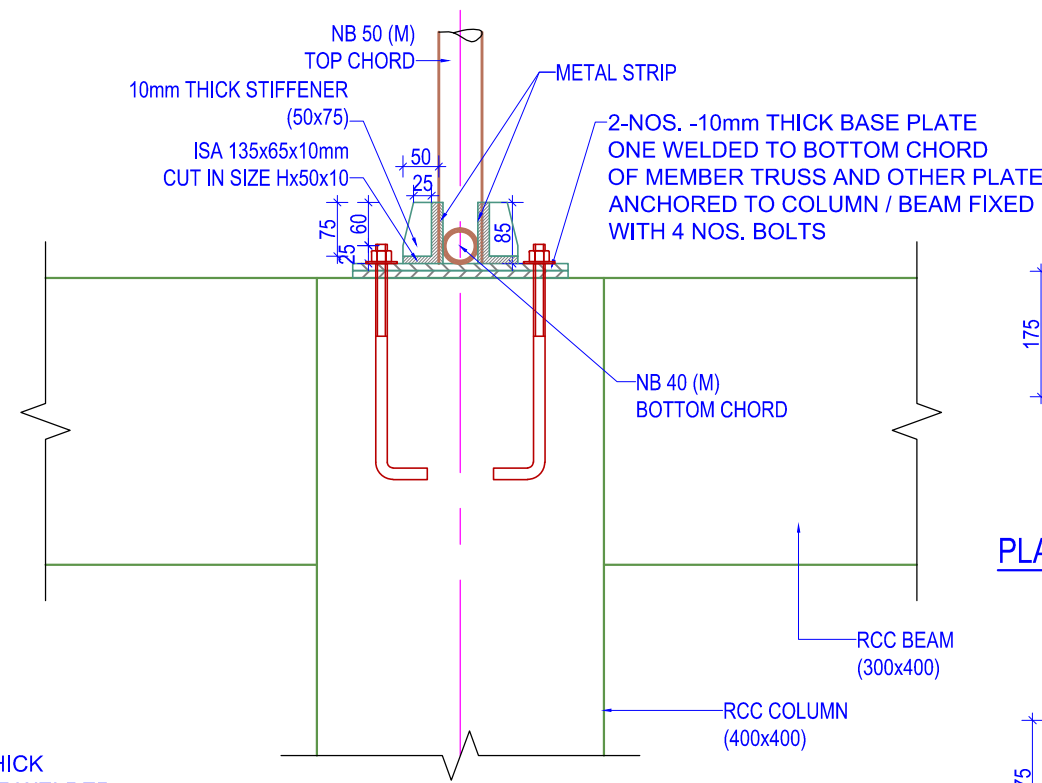




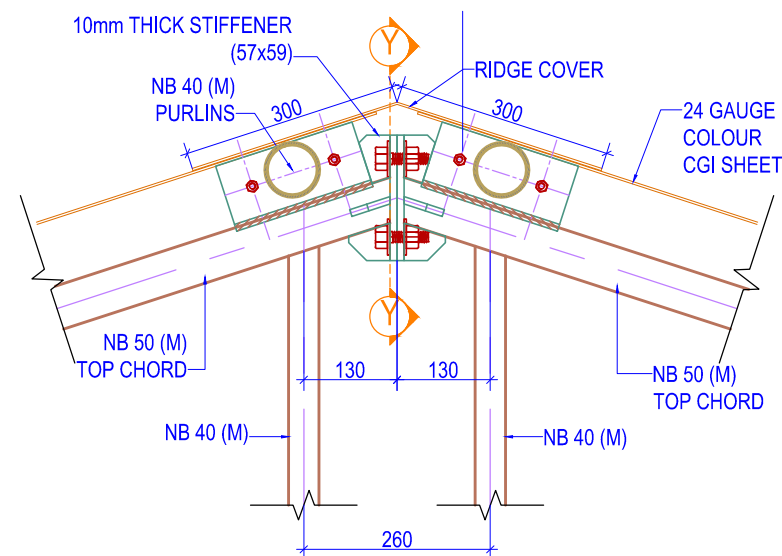
DETAIL AT -A
(Scale= 1:10)



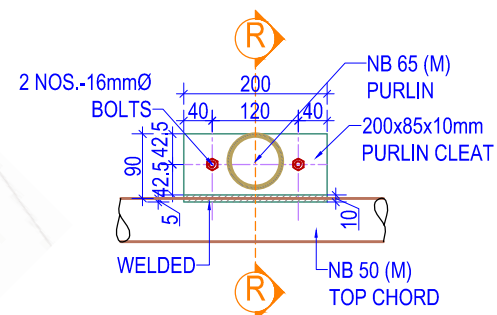
BASE PLATE PLAN AT -A
(Scale= 1:10)



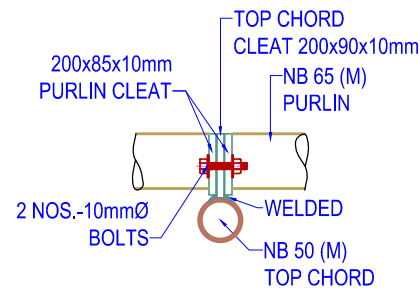
SECTION AT -Q-Q
(Scale= 1:10)



DETAIL AT -C
(Scale= 1:10)



PURLIN CLEAT DETAIL
(Scale= 1:10)



PURLIN CLEAT DETAIL SECTION -R-R
(Scale= 1:10)

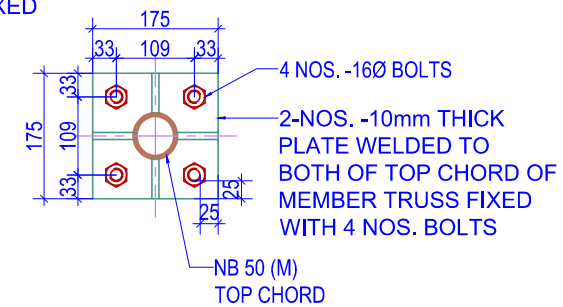


PLATE DETAIL AT -Y-Y
(Scale= 1:10)

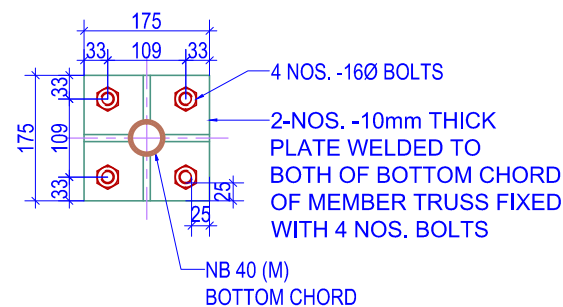
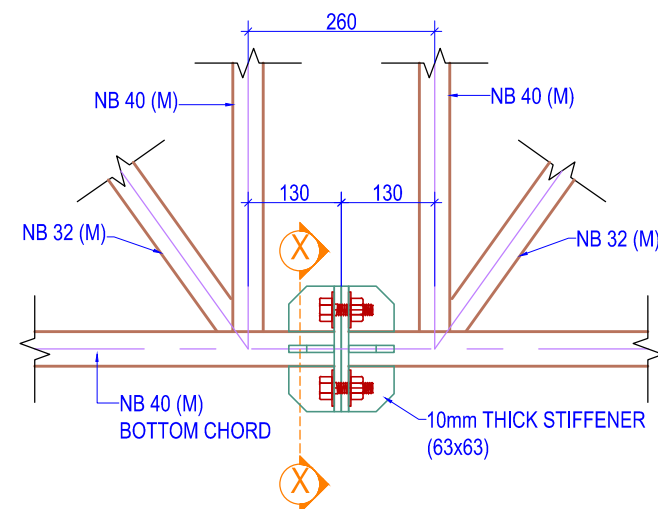


PLATE DETAIL AT -X-X
(Scale= 1:10)



DETAIL AT -B
(Scale= 1:10)

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Type Design :

3 SMALL ROOMS - ECD & 2 CLASSROOMS

Sheet Title :
TRUSS DETAILS

Sheet No.

3C(S)

Date : September, 2016

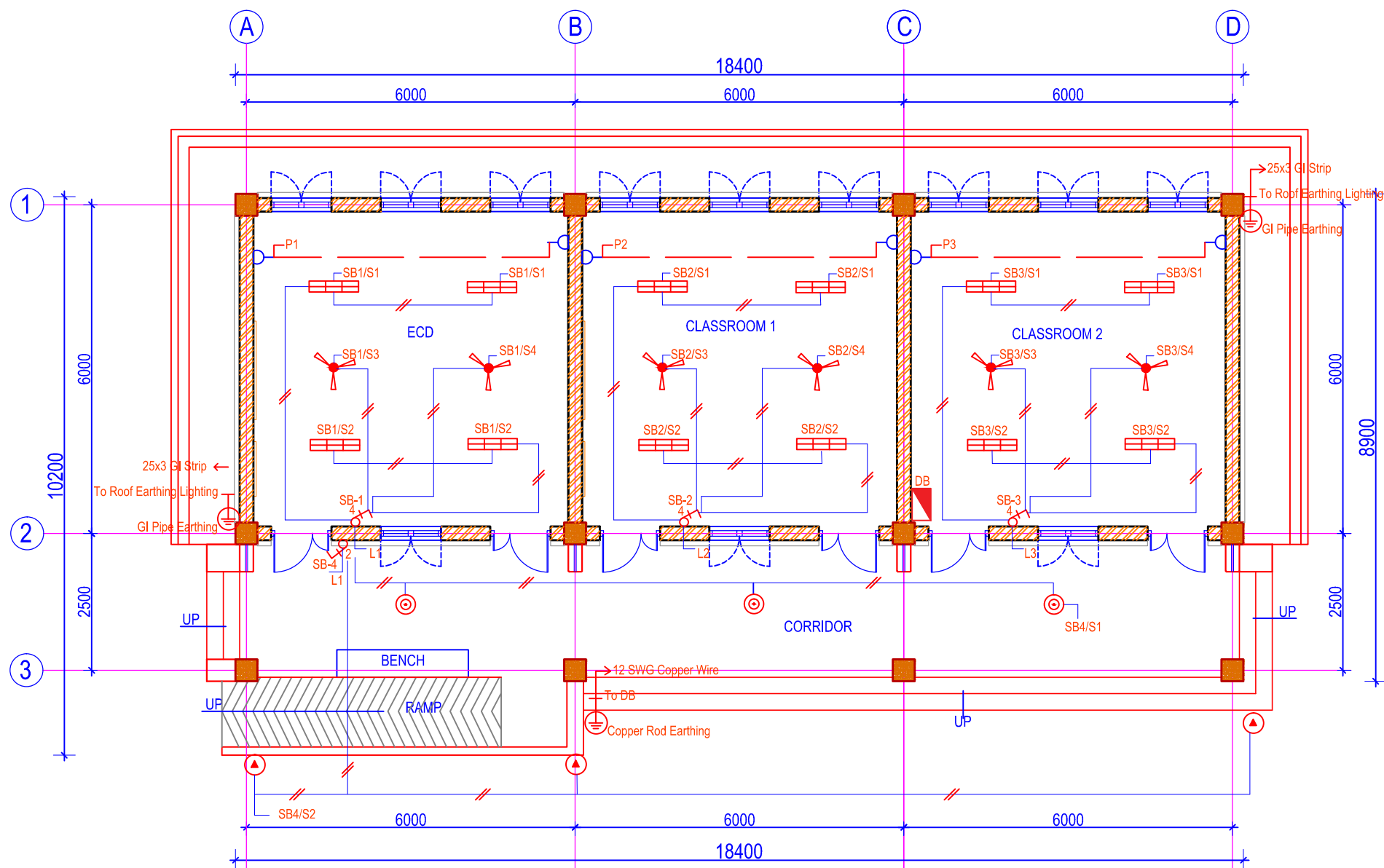
Print Sheet : A'3' Size

S-06

0 100MM 200MM 300MM 400MM 500MM
1:10

Government of Nepal
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Central Level Project Implementation Unit
Gyaneshwor, Kathmandu

S-07

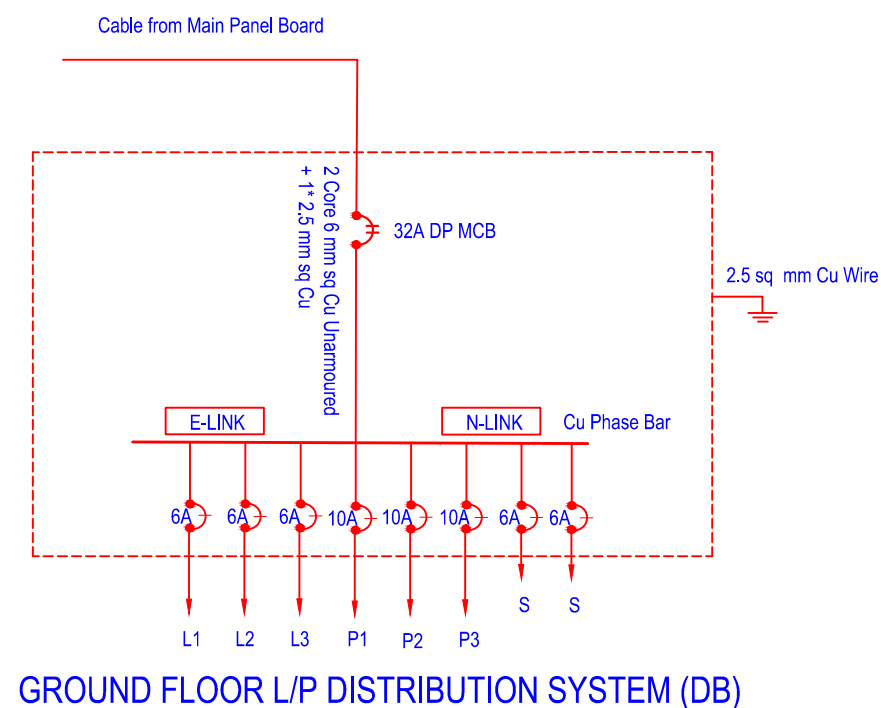


LIGHT, POWER & DB LAYOUT PLAN
(GROUND FLOOR)
(Scale= 1:100)

LEGEND

SN	SYMBOL	INDICATES	MOUNTING HEIGHT	REMARKS
1		2x28W Recess Type Mirror Optic	Attached to Ceiling	
2		1x28W Recess Type Mirror Optic	Attached to Ceiling	
3		2x28W Surface Type Mirror Optic	Attached to Ceiling	
4		1x28W Surface Type Mirror Optic	Attached to Ceiling	
5		13W CFL Dome Light	Attached to Ceiling	
6		13W CFL Recess Light	Attached to Ceiling	
7		13W LED Post Light	4 Meter Steel Pole	
8		8W CFL Wall Light		
9		1200mm Ceiling Fan	Attached to Ceiling	

SN	SYMBOL	INDICATES	MOUNTING HEIGHT	REMARKS
10		6A Power Socket	Above Skirting	
11		Two way Switch	1.25m above Finished Floor Level	
12		One way Switch	1.25m above Finished Floor Level	
13		Single Pole MCB	-	
14		Double Pole MCB	-	
15		Three Pole MCB	-	
16		NEA Meter	2.5 m above Ground Level	
17		Distribution Board	2.5 m above Ground Level	
18		Main Panel Board	2.5 m above Ground Level	



0 1M 2M 3M 4M 5M
1:100

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- The location of ramps to be adjusted as per site condition.



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Mr. Wong Kuok Hung	Mr. A.K. Dhungana

Type Design :

3 SMALL ROOMS
- ECD & 2 CLASSROOMS

Sheet Title :
LIGHT, POWER & DB
LAYOUT PLAN
(GROUND FLOOR)

Sheet No.

3C(S)

Date : September, 2016

Print Sheet : A'3' Size

E-01