

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:
4 Small Rooms
4C(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

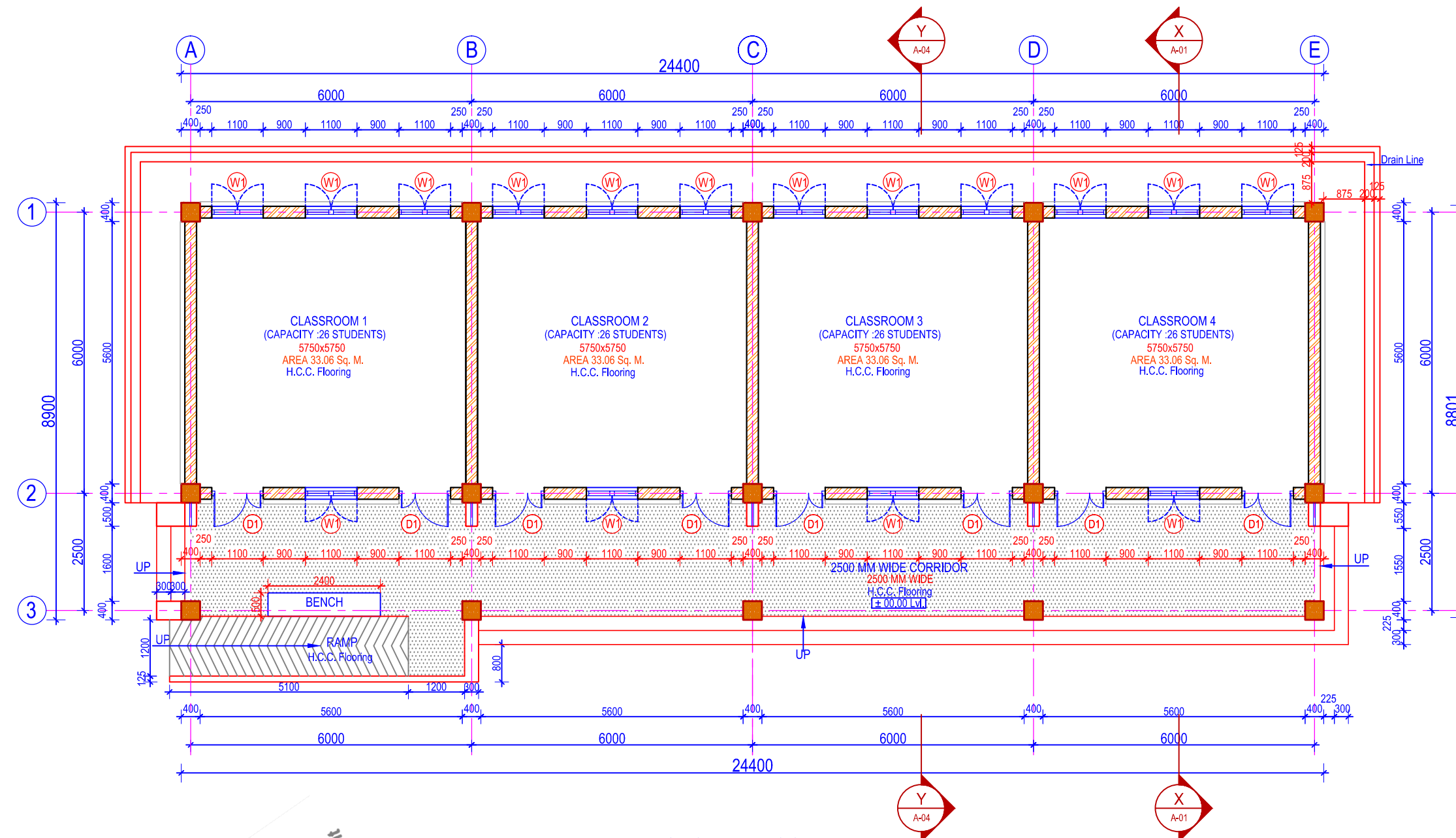
September, 2016

4 SMALL ROOMS

4C(S)

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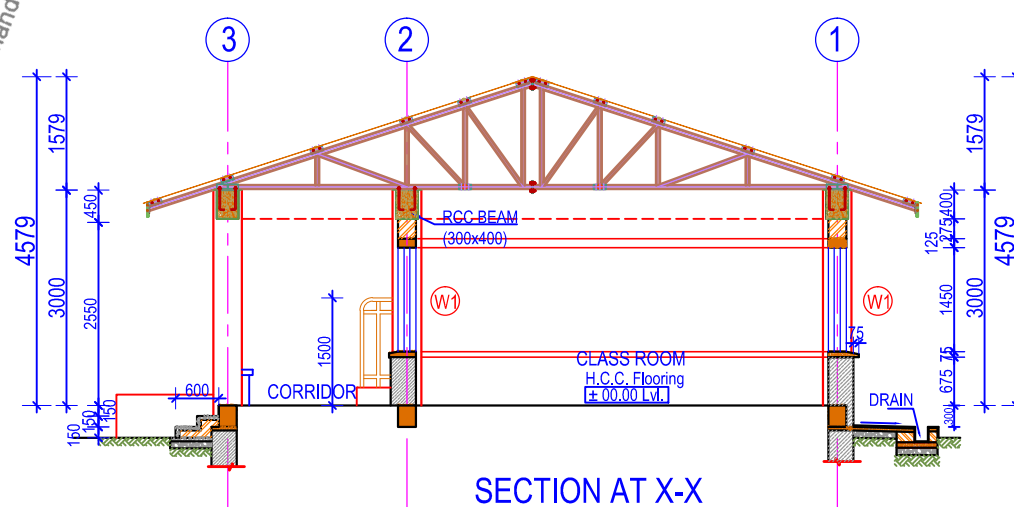
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GROUND FLOOR PLAN

Area = 217.15 Sq. M.
(Scale= 1:100)

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SECTION AT X-X

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

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Type Design :

4 SMALL CLASSROOMS

Sheet Title :
**GROUND FLOOR PLAN
& SECTION**

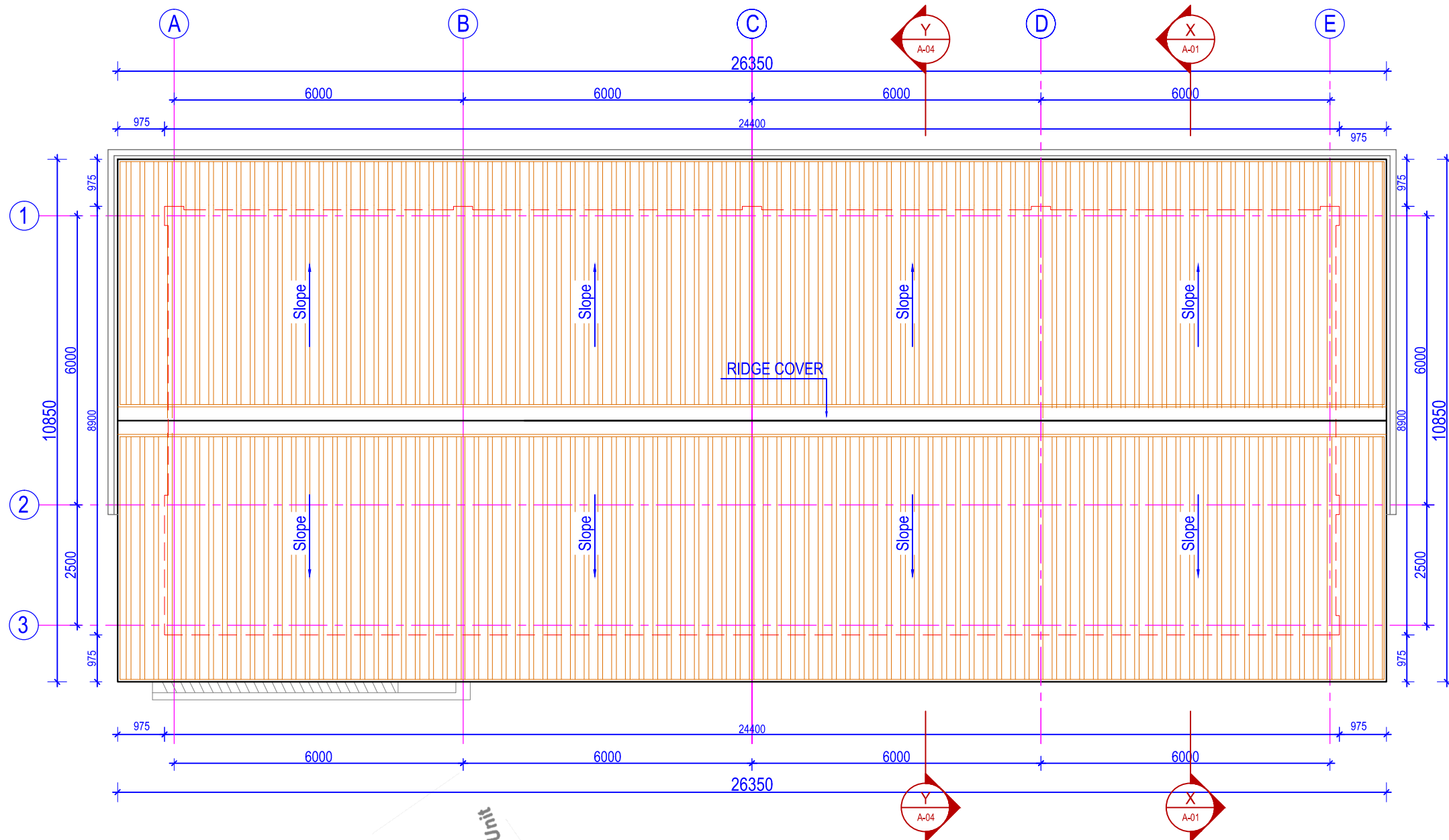
Date : September, 2016

Print Sheet : A'3' Size

Sheet No.

4C(S)

A-01



ROOF PLAN



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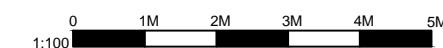
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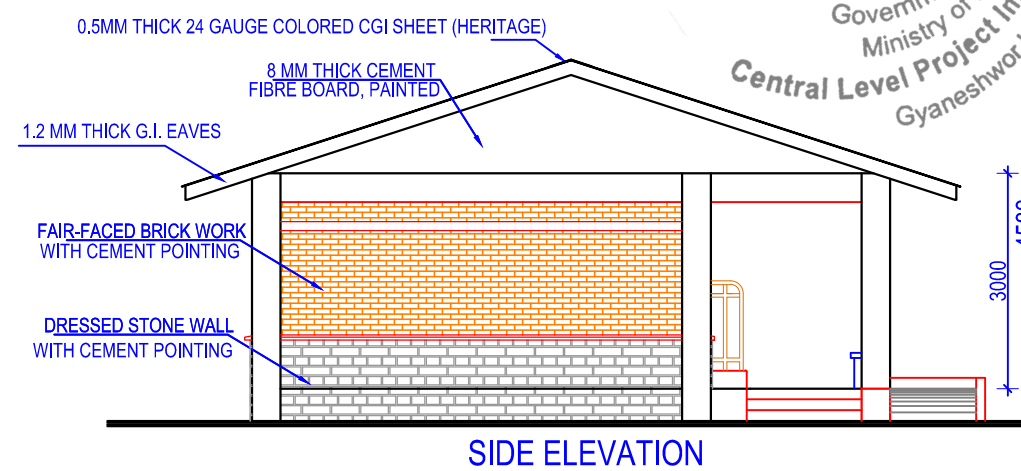
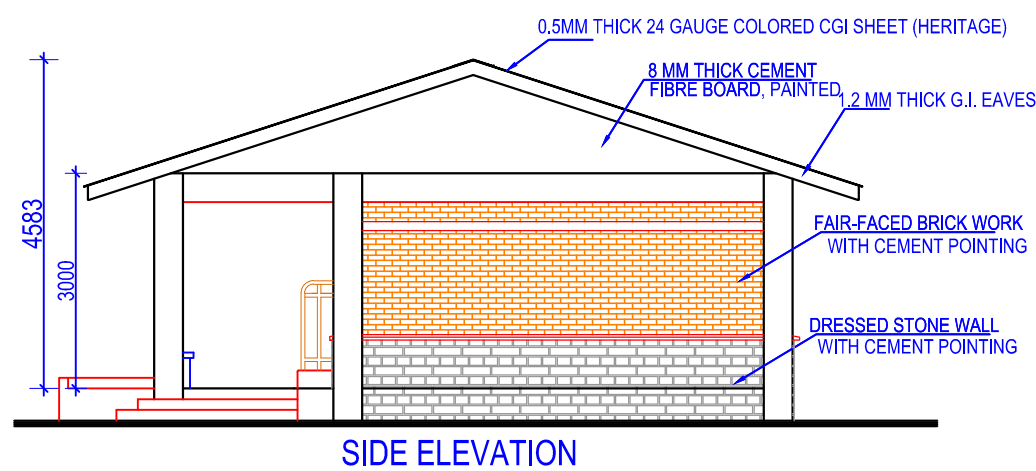
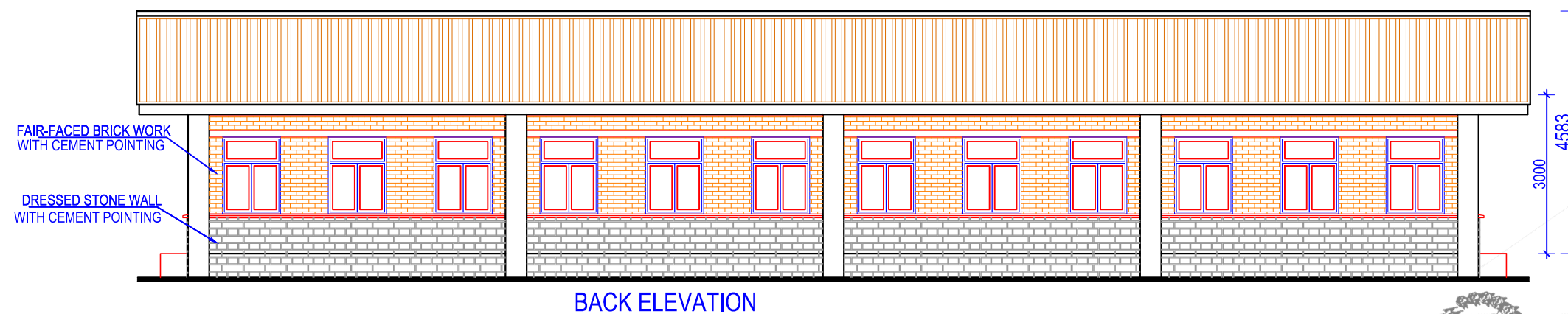
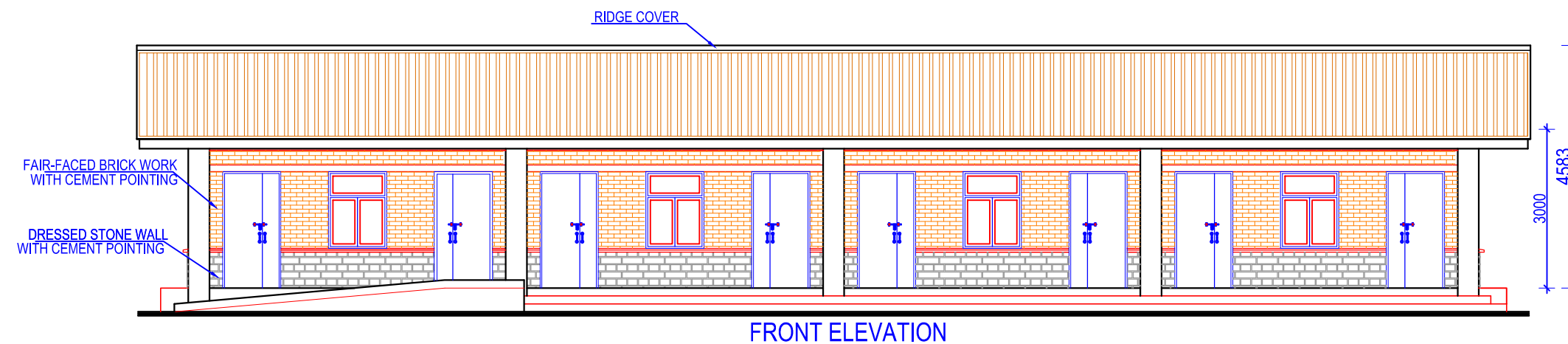
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A-02





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4 SMALL CLASSROOMS

Sheet Title :
ELEVATIONS

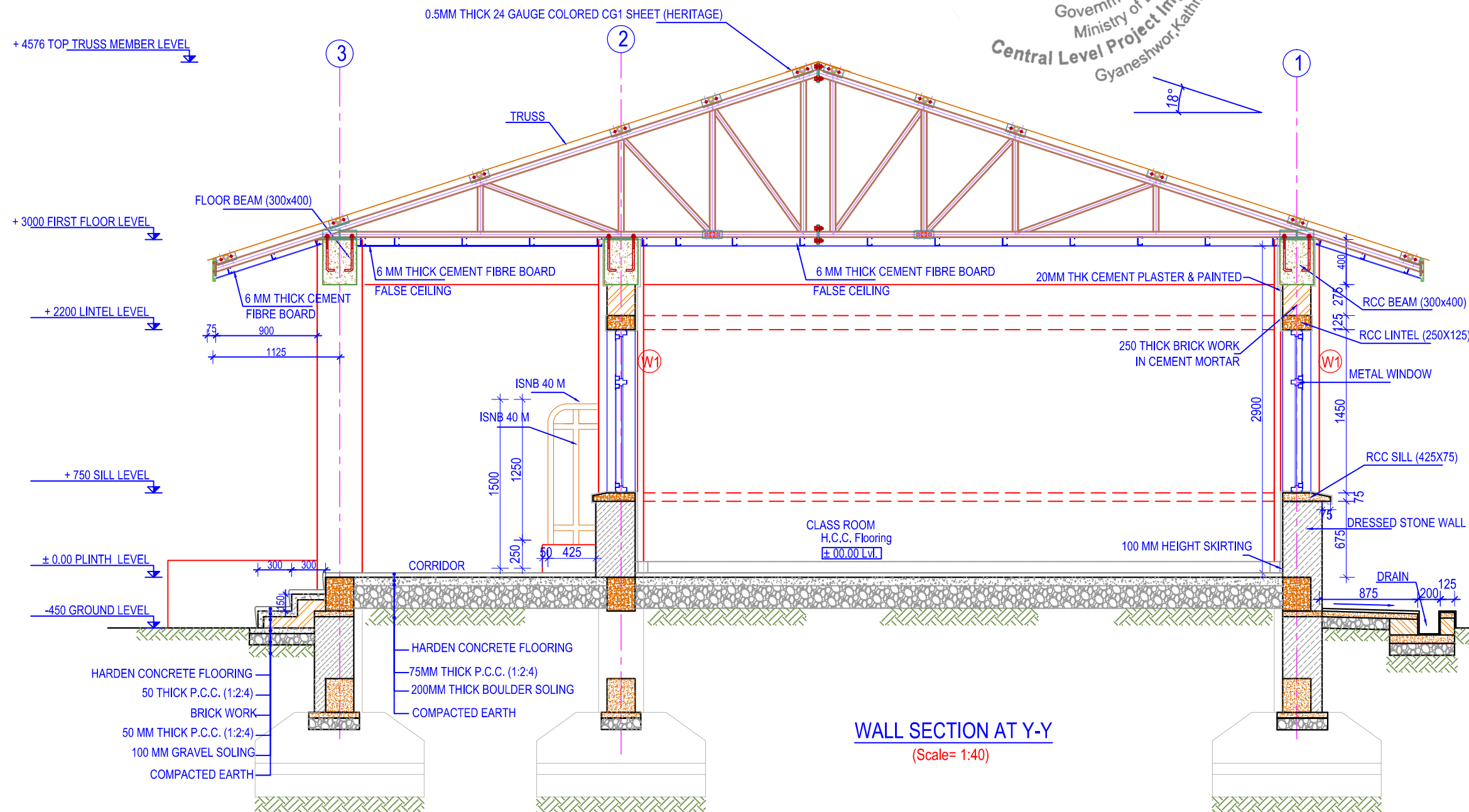
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4C(S)

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A-03



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

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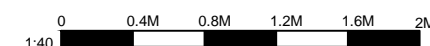
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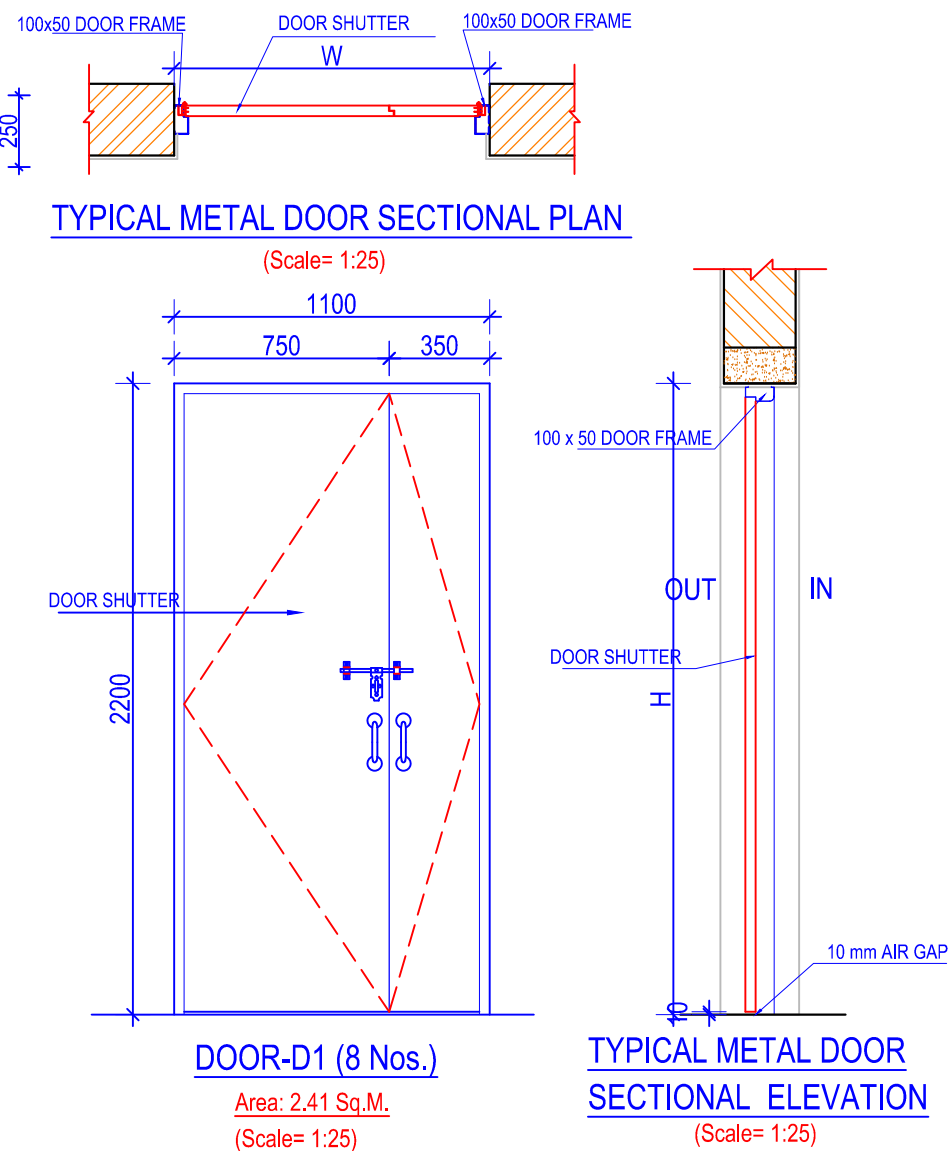
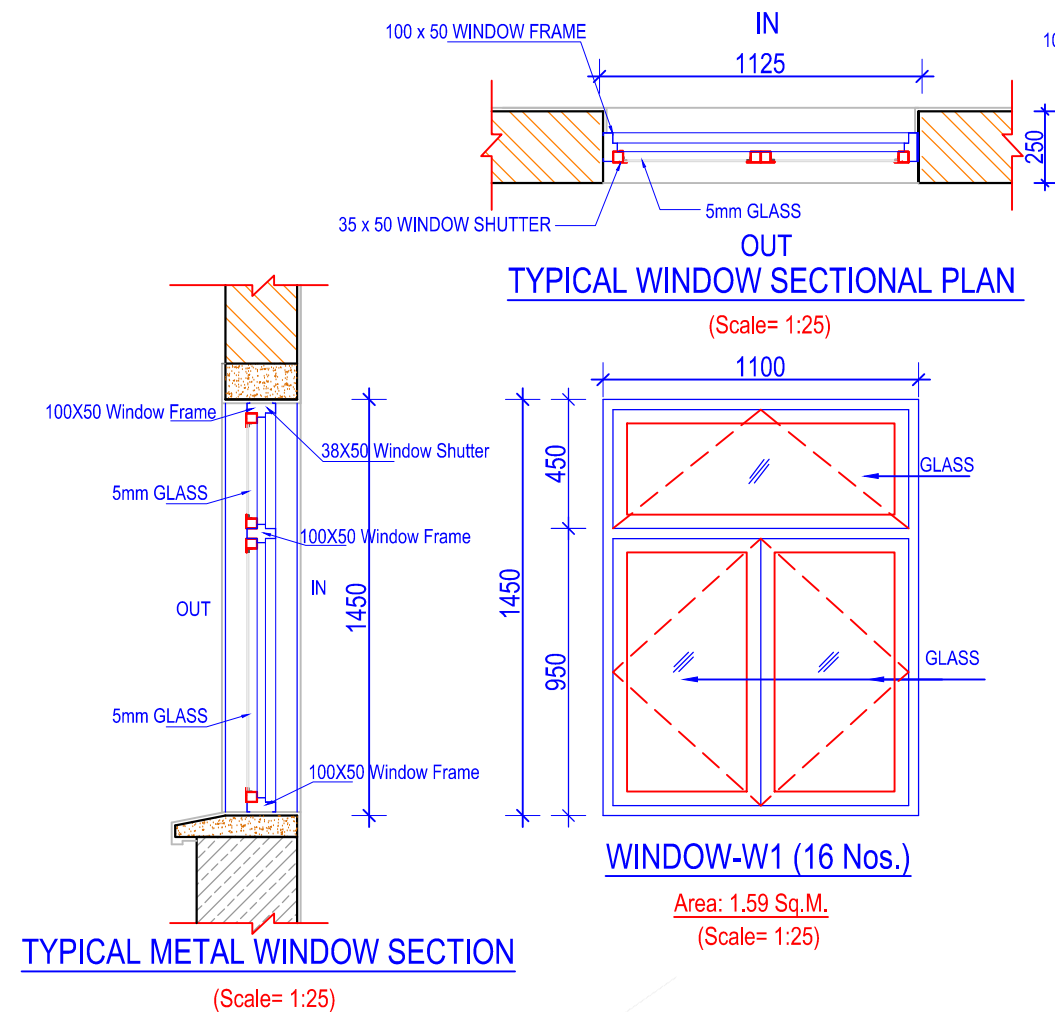
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Type Design :
4 SMALL CLASSROOMS

Sheet Title : WALL SECTION	Sheet No. 4C(S)
Date : September, 2016	A-04
Print Sheet : A'3' Size	





DOORS & WINDOWS SCHEDULE:

S.N.	SYMBOL	SIZES	G.F.	TOTAL	REMARKS
1.	W1	1100 x 1450	16	16	MS Frame & Shutter Grill Only For Ground Floor
2.	D1	1100 x 2200	8	8	MS Frame & Shutter
TOTAL			24	24	

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Type Design :

4 SMALL CLASSROOMS

Sheet Title :
DOOR & WINDOW DETAILS

Sheet No.

4C(S)

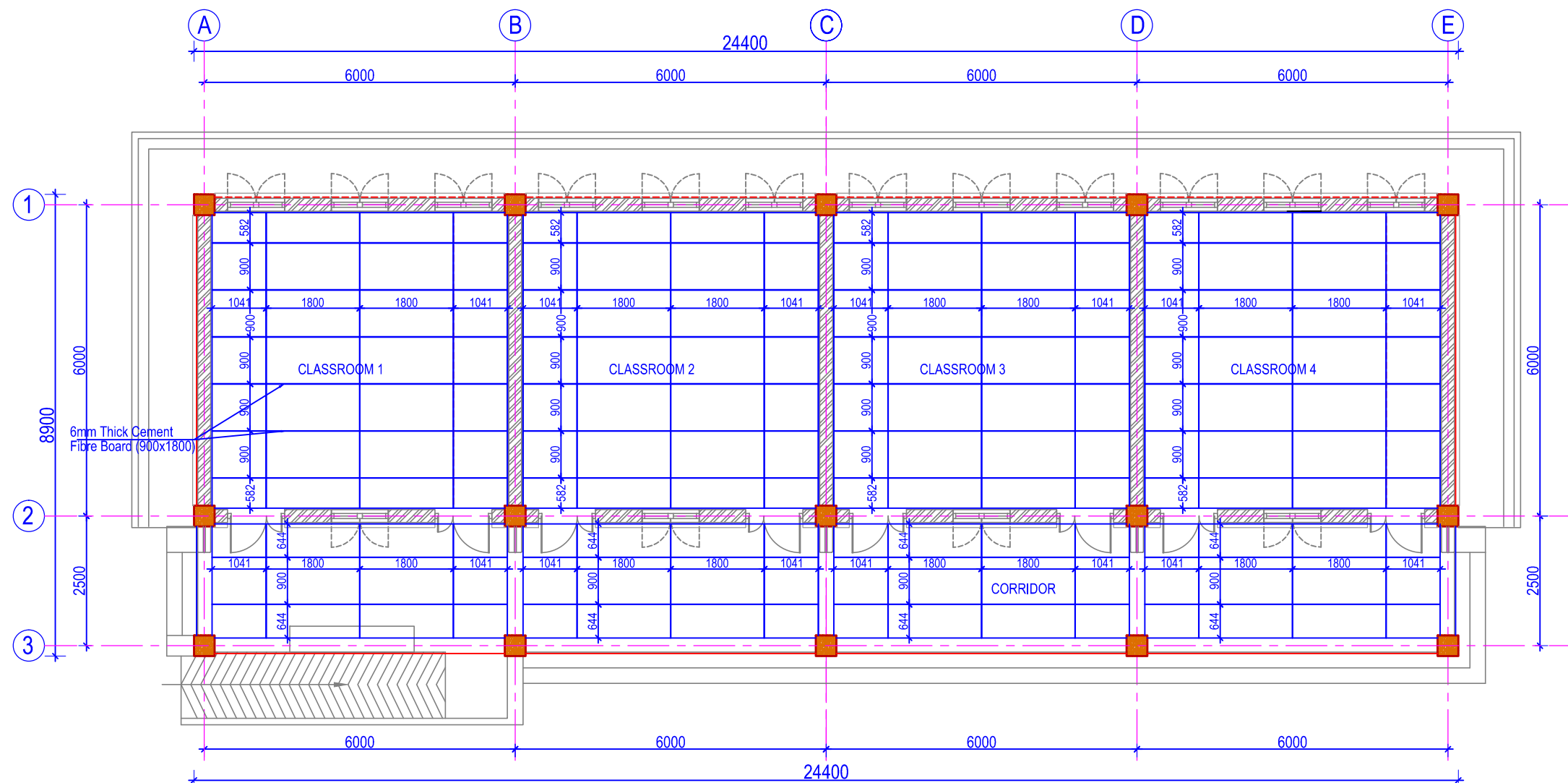
Date : September, 2016

Print Sheet : A'3' Size

A-05

0 250MM 500MM 1M 1.25M 1.5M
1:25

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GROUND FLOOR FALSE CEILING LAYOUT PLAN



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Type Design :

4 SMALL CLASSROOMS

Sheet Title :
FALSE CELING
LAYOUT PLAN

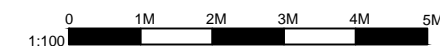
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4C(S)

Date : September, 2016

Print Sheet : A'3' Size

A-06



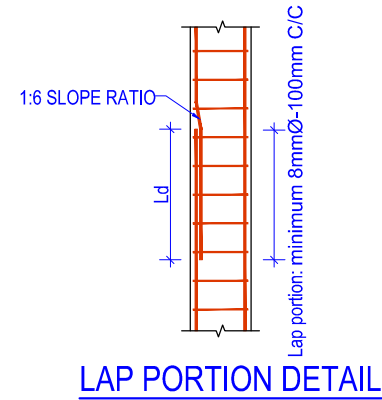
GENERAL NOTE:

- USE M20 (1:1.5:3) GRADE CONCRETE FOR SLAB, BEAM, COLUMN, FOUNDATION, SILL & LINTEL BANDS (ALL RCC WORKS)
- USE Fe500 GRADE STEEL ($f_y=500\text{N/mm}^2$) for stirrups Fe415 N/mm²
- CLEAR COVER TO BARS
 - FOR CONCRETE MEMBERS IN CONTACT WITH SOIL = MIN 50mm
 - FOR LONGITUDINAL (VERTICAL) BARS IN COLUMN = 40mm
 - FOR MAIN BARS IN BEAMS = 25mm
 - FOR OUTER BARS IN SLAB = 20mm
- BARS IN COLUMNS SHALL BE SPLICED ONLY AT MID HEIGHT OF COLUMN AS PER DUCTILE DETAILING IS 13920- 2014
- BARS SPLICING IN BEAM SHALL BE AVOIDED IN THE SPAN WHERE INTERMEDIATE BEAM IS CONNECTED AND SHALL BE ONLY AS SHOWN ON DWG.

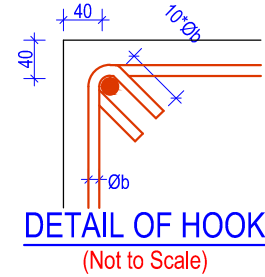
6. DEVELOPMENT / LAP LENGTH (Ld.) FOR BARS.

BAR DIA-(mm)	8	10	12	16	20	25	32
FOR M20 Ld	480	600	720	960	1200	1500	1920

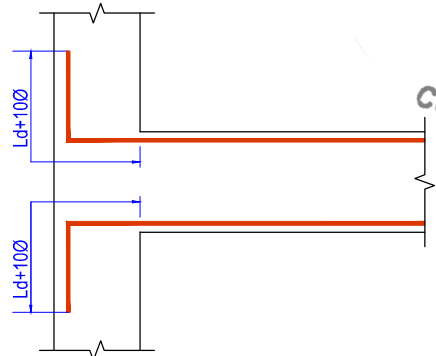
- TEMP./DISTRIBUTION REINFORCEMENT FOR SLAB - TMT 8Ø @ 150 C/C
- CLEAR VERTICAL DISTANCE BETWEEN TWO ROWS (LAYERS) OF BARS=25mm.
- PROVIDE SHEAR REINFORCEMENT AT 100 C/C AT LAP LOCATIONS.
- H = CLEAR SPAN OF FLOOR.
- h = H/6 OR 450mm OR LARGER LATERAL DIMENSION OF THE MEMBER ,WHICHEVER IS GREATER.
- Z = DEPTH OF BEAM.
- STRUCTURAL STEEL SHALL HAVE STRENGTH F_y 345MPa
- FOUNDATION TYPE SHOULD BE DECIDED BY SITE CONDITION AFTER EXCAVATION OF FOUNDATION.
- IF BEARING CAPACITY IS LESS THAN 50 kN/m², FOUNDATION SHOULD BE RE-DESIGNED.
- PROVIDE 2-16dia TORSION BARS IN 525mm DEEP BEAM



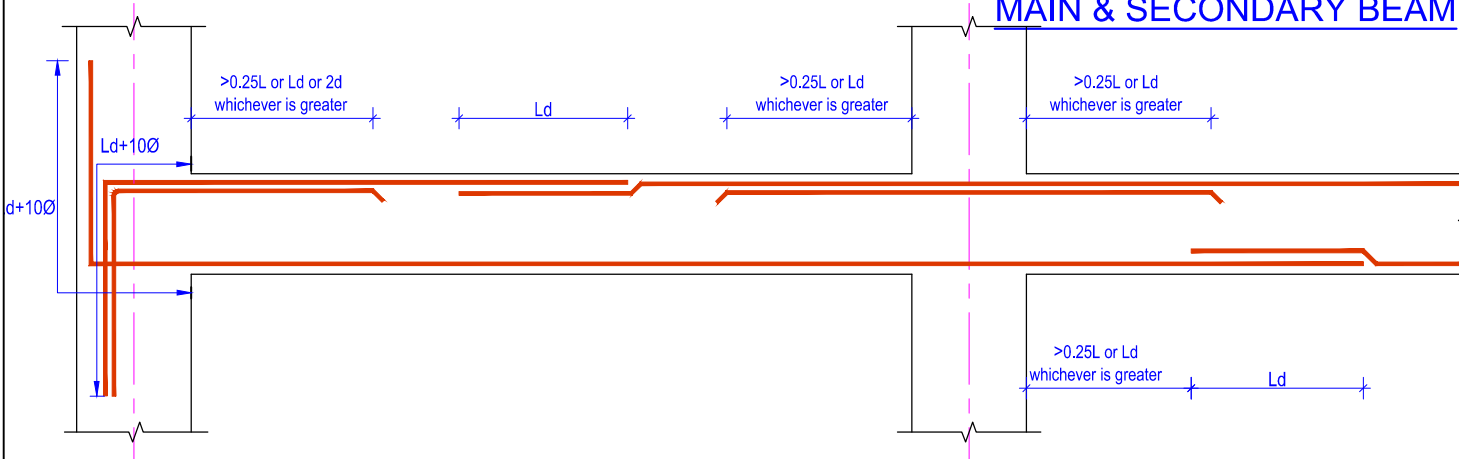
LAP PORTION DETAIL



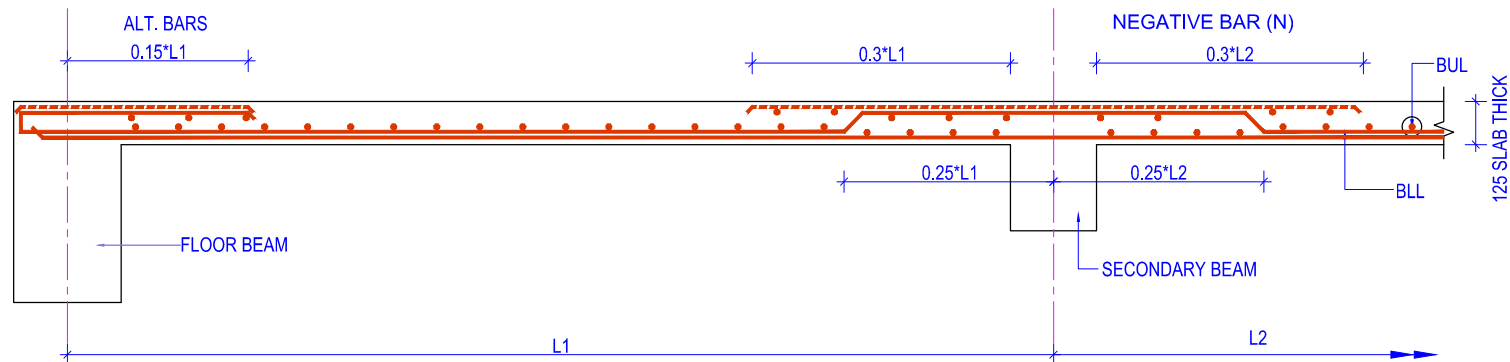
DETAIL OF HOOK
(Not to Scale)



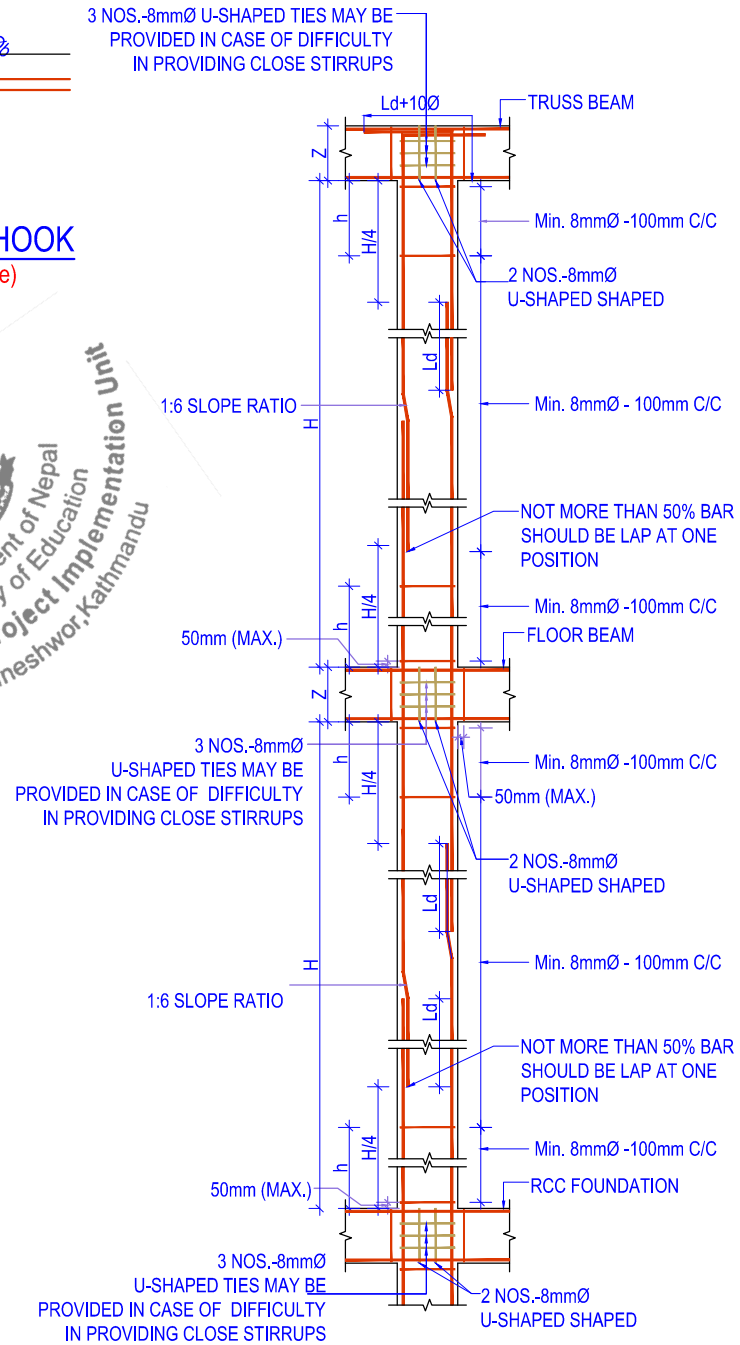
CONNECTION DETAIL
BETWEEN
MAIN & SECONDARY BEAM



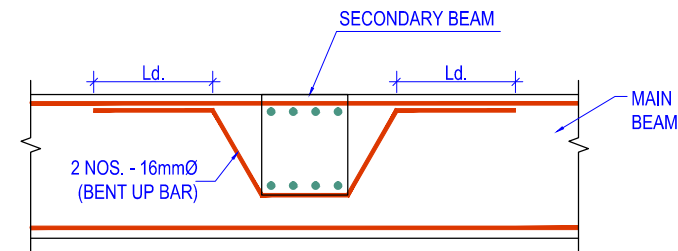
TYPICAL LAP LOCATION FOR BEAM BARS



TYPICAL BENT-UP DETAIL FOR SLAB BARS



TYP. COLUMN SHEAR
REINFORCEMENT DETAIL



CONNECTION DETAIL BETWEEN
MAIN & SECONDARY BEAM

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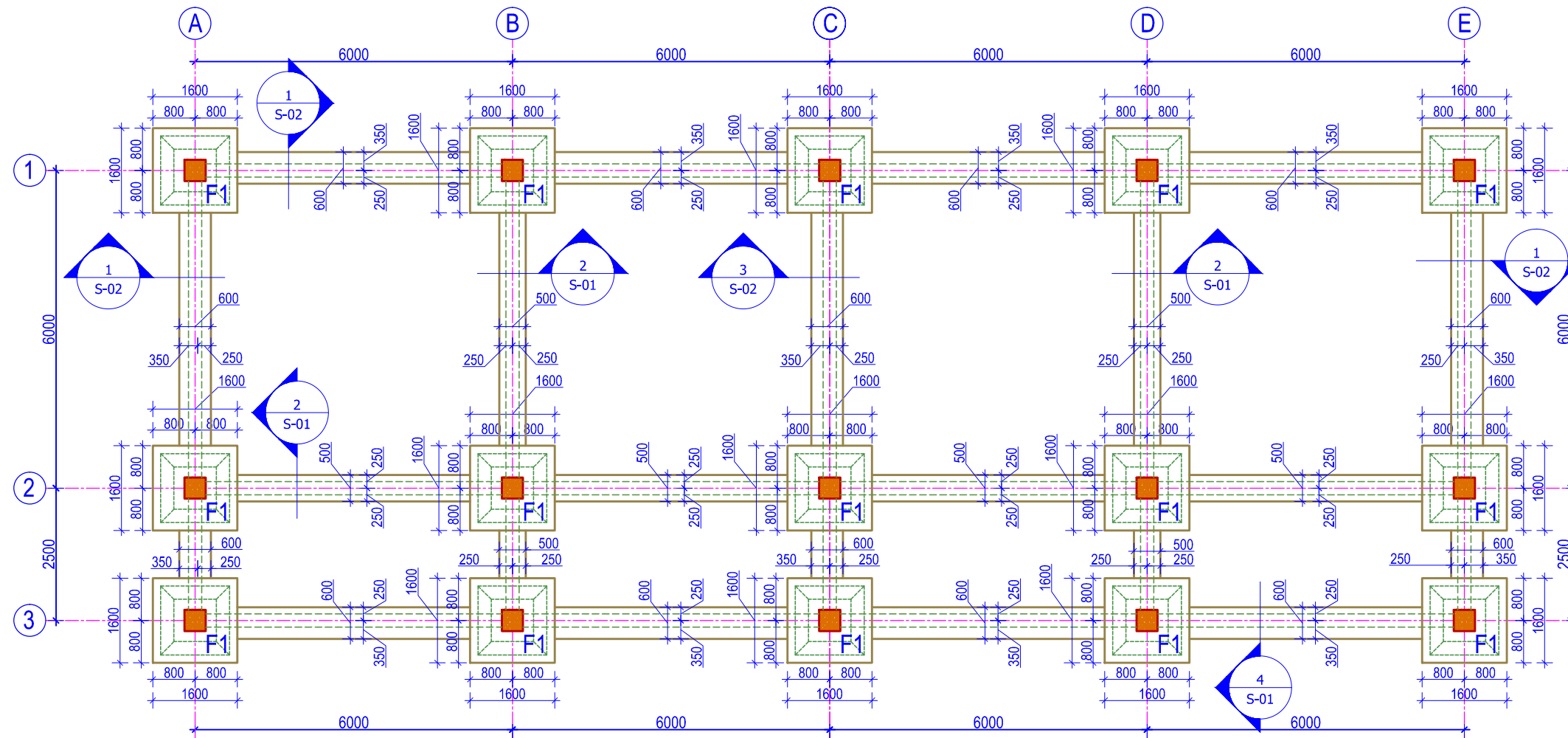
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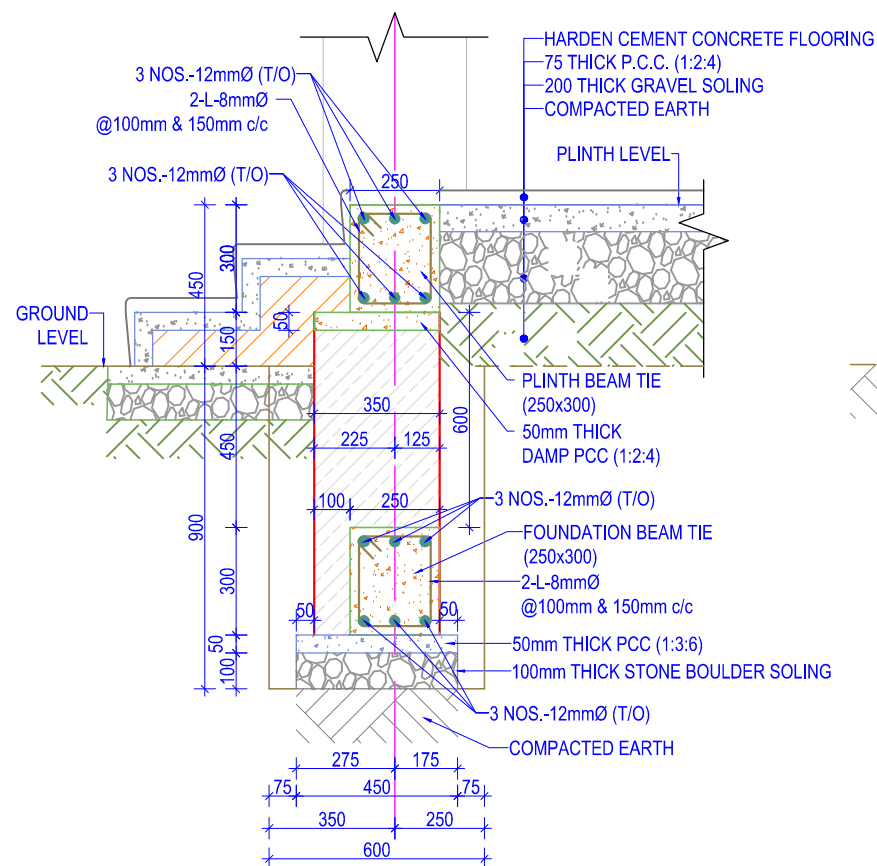
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Date : September, 2016	S-00
Print Sheet : A'3' Size	



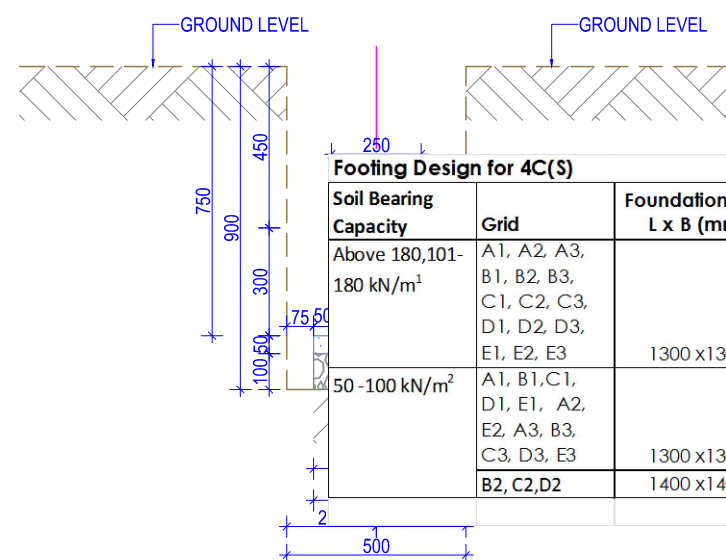
TRENCH PLAN

(Scale= 1:100)



WALL FOUNDATION DETAIL SECTION AT -4

(Scale= 1:20)



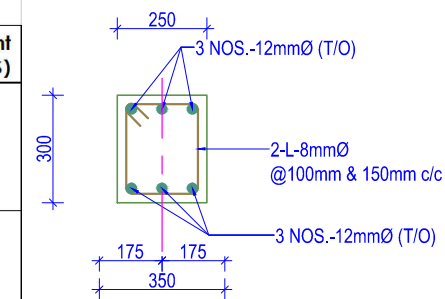
FOUNDATION BEAM TIE SECTION DETAIL AT -2

(SCALE = 1:20)

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

Footing Design for 4C(S)

Soil Bearing Capacity	Grid	Foundation Size L x B (mm)	Thickness (mm)	Reinforcement Each way (AS)
Above 180,101-180 kN/m ²	A1, A2, A3, B1, B2, B3, C1, C2, C3, D1, D2, D3, E1, E2, E3	1300 x 1300	450	12Ø - 150 c/c
50 -100 kN/m ²	A1, B1, C1, D1, E1, A2, E2, A3, B3, C3, D3, E3	1300 x 1300	450	12Ø - 150 c/c
	B2, C2, D2	1400 x 1400	450	12Ø - 150 c/c



BEAM TIE SECTION DETAIL AT -2

(SCALE = 1:20)



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TRENCH PLAN,
TIE BEAM DETAILS &
WALL FOUNDATION DETAILS

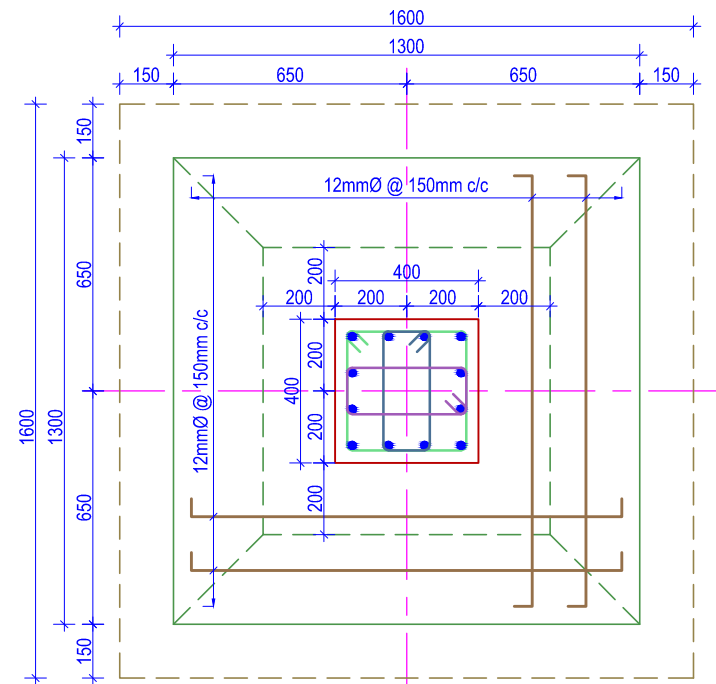
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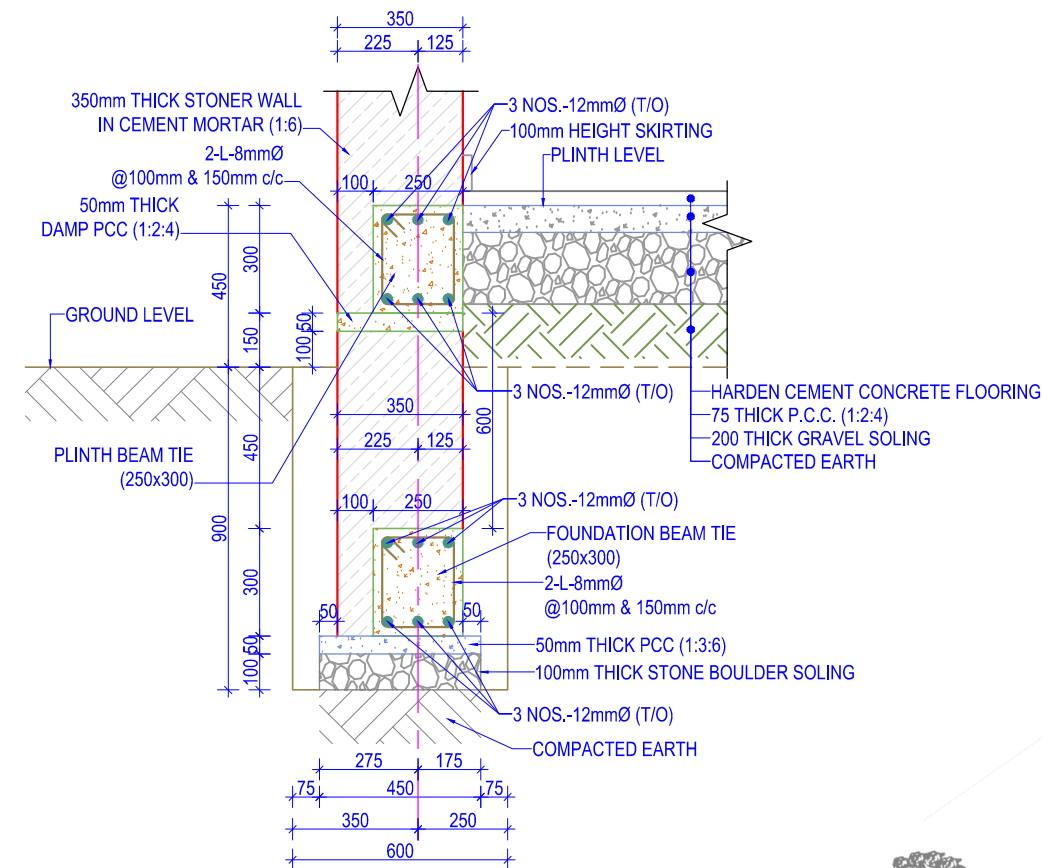
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S-01



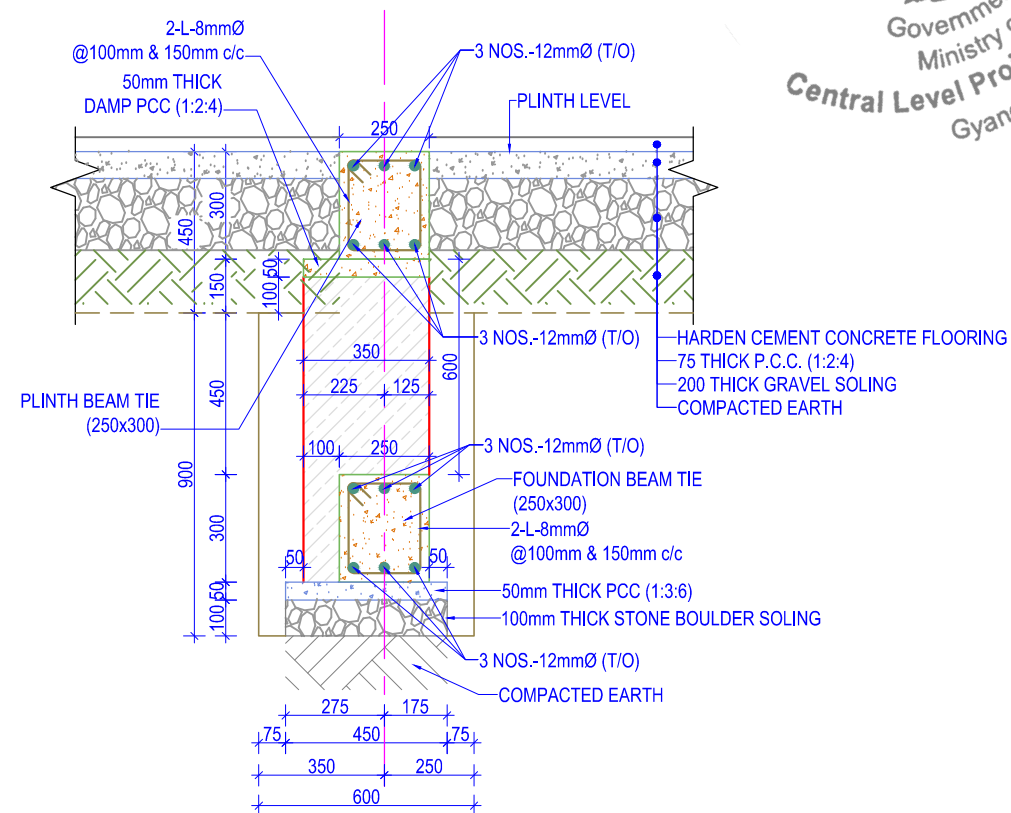
COLUMN FOOTING PLAN -F1

(Scale= 1:20)



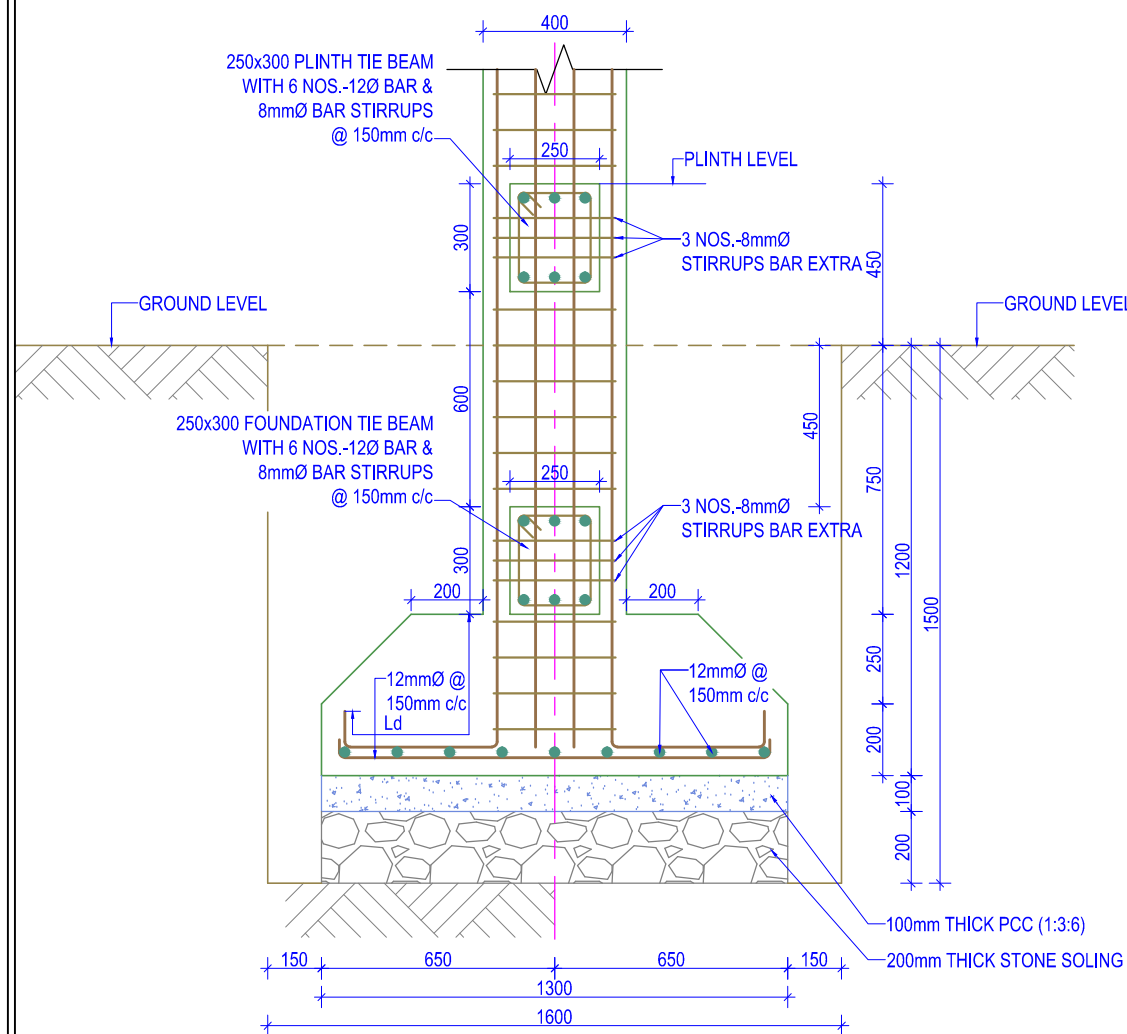
WALL FOUNDATION DETAIL SECTION AT -1

(Scale= 1:20)



WALL FOUNDATION DETAIL SECTION AT -3

(Scale= 1:20)



COLUMN FOOTING SECTION -F1

(Scale= 1:20)



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4 SMALL CLASSROOMS

Sheet Title :

FOOTING PLAN & SECTION,
WALL FOUNDATION DETAILS

Sheet No.

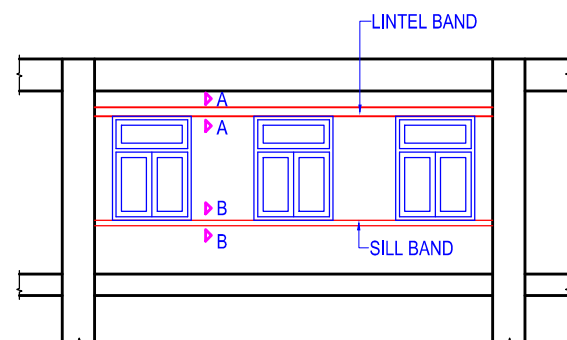
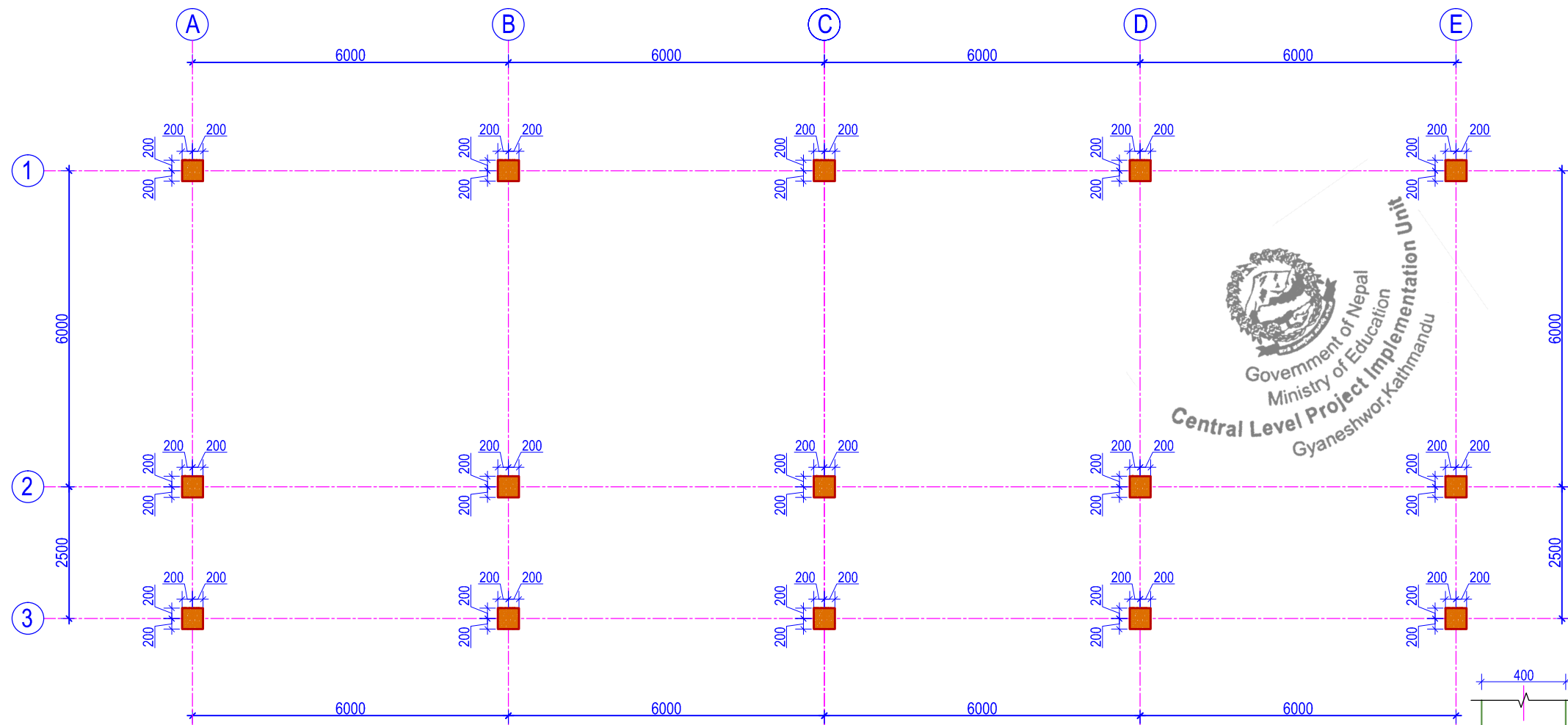
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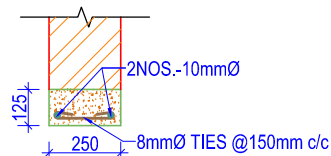
S-02



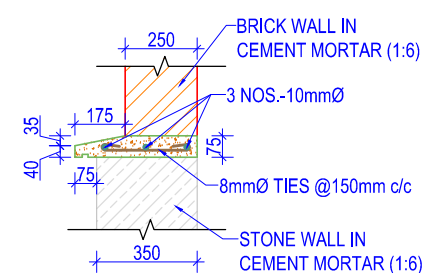


ELEVATION OF WALL WITH LINTEL & SILL BAND
(Scale= NTS)

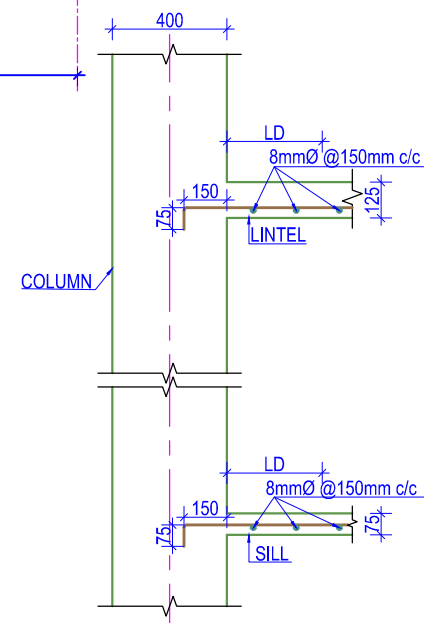
COLUMN LAYOUT PLAN
(Scale= 1:100)



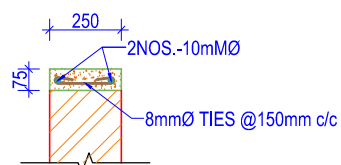
X-SECTION OF LINTEL BAND AT A-A
(Scale= 1:25)



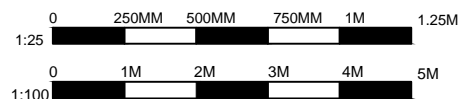
**X-SECTION OF SILL BAND
(STONE MASONRY)**
(Scale= 1:25)



COLUMN, LINTEL & SILL JOINT DETAIL
(Scale= 1:25)



X-SECTION OF SILL BAND AT B-B
(Scale= 1:25)



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Government Of Nepal
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Cooperation Agency**

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Sub-Consultant:



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Mr. Hisafumi Michikawa
Mr. Wong Kuok Hung

Mr. H.B. Gurung
Mr. A.S. Tamang
Mr. S. Malla

Type Design :

4 SMALL CLASSROOMS

Sheet Title :
**COLUMN PLAN & DETAILS
SILL & LINTEL DETAILS**

Sheet No.

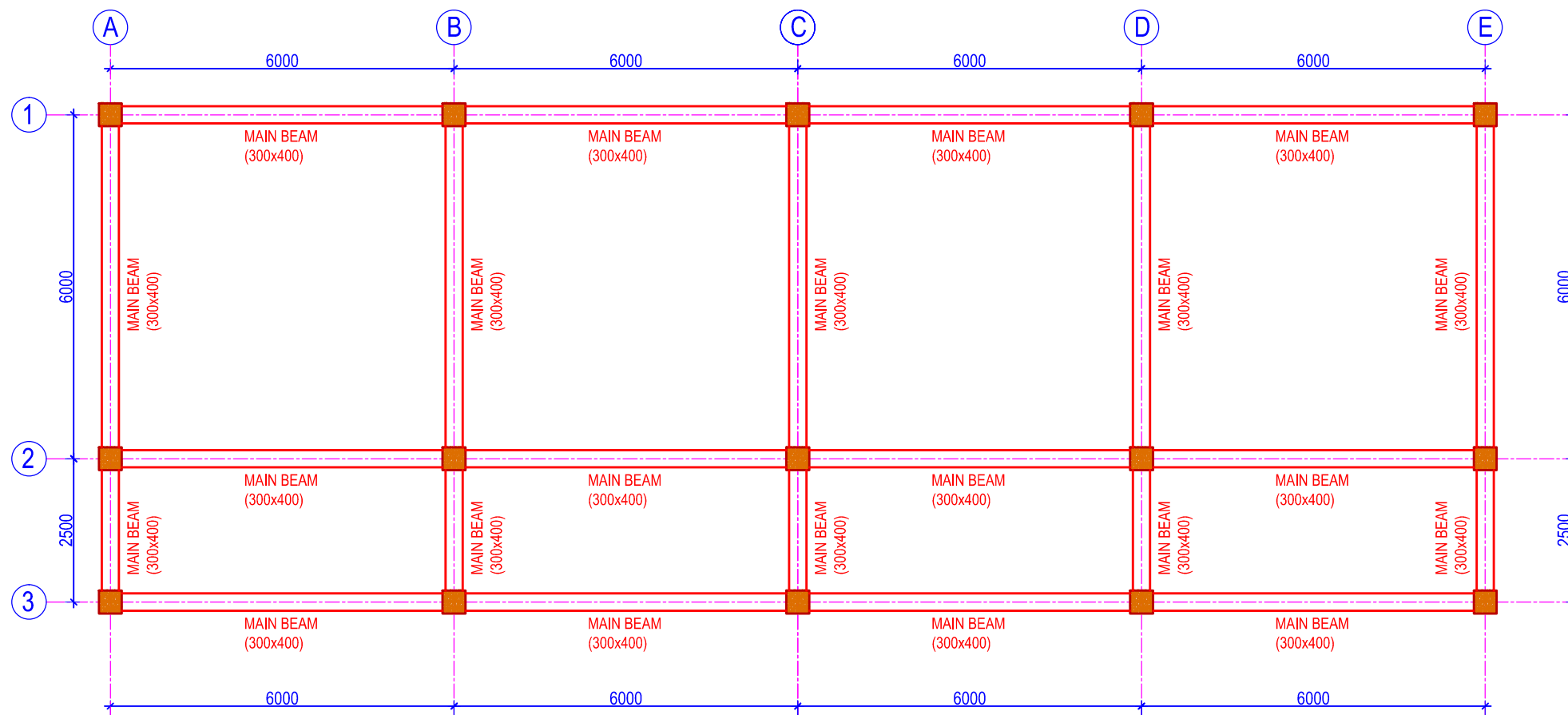
4C(S)

Date : September, 2016

Print Sheet : A'3' Size

S-03

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	<p>4 NOS. -16mmØ 8 NOS. -12mmØ</p>	<p>4 NOS. -16mmØ 8 NOS. -12mmØ</p>	<p>4 NOS. -16mmØ 8 NOS. -12mmØ</p>	<p>4 NOS. -16mmØ 8 NOS. -12mmØ</p>	<p>8Ø@100mm/c & 150mm/c</p>



BEAM PLAN
(Scale= 1:100)



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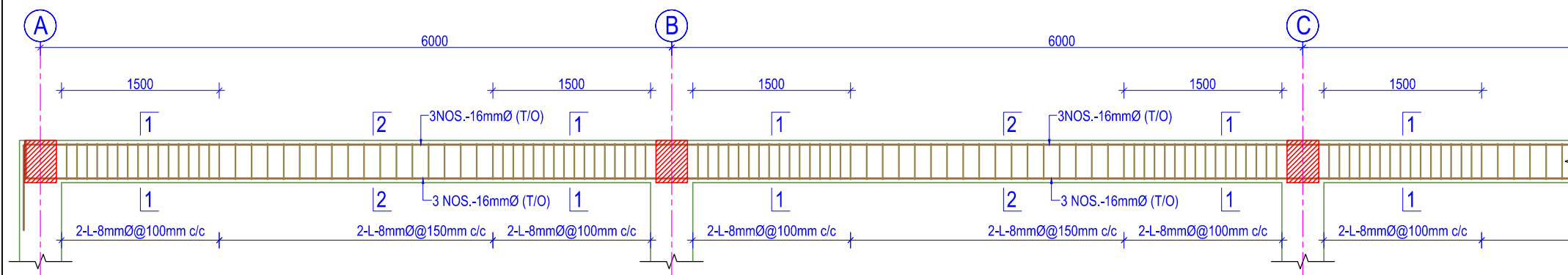
Mr. Tomoki Miyano	Mr. H.B. Gurung
Mr. Hisafumi Michikawa	Mr. A.S. Tamang
Mr. Wong Kuok Hung	Mr. S. Malla

Type Design :
4 SMALL CLASSROOMS

Sheet Title : BEAM PLAN	Sheet No. 4C(S)
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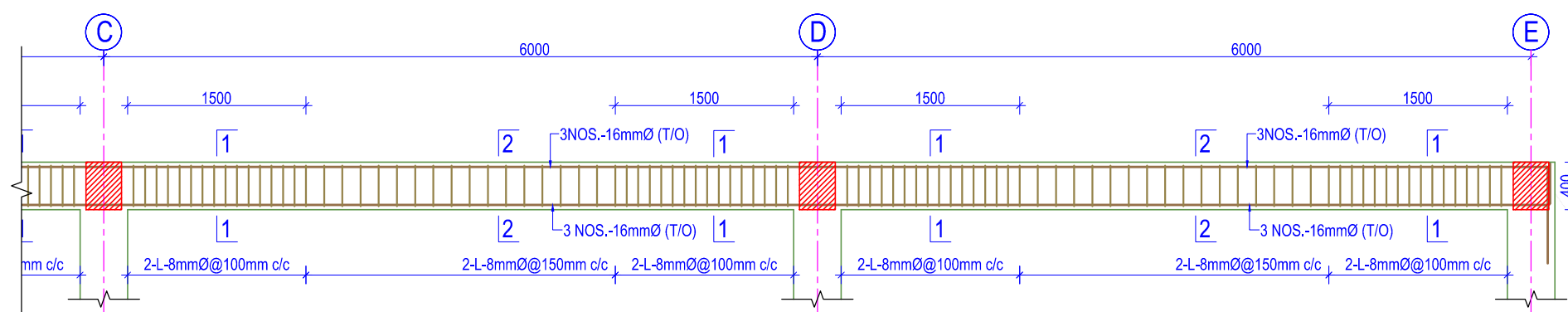
Date : September, 2016	S-04
Print Sheet : A'3' Size	

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



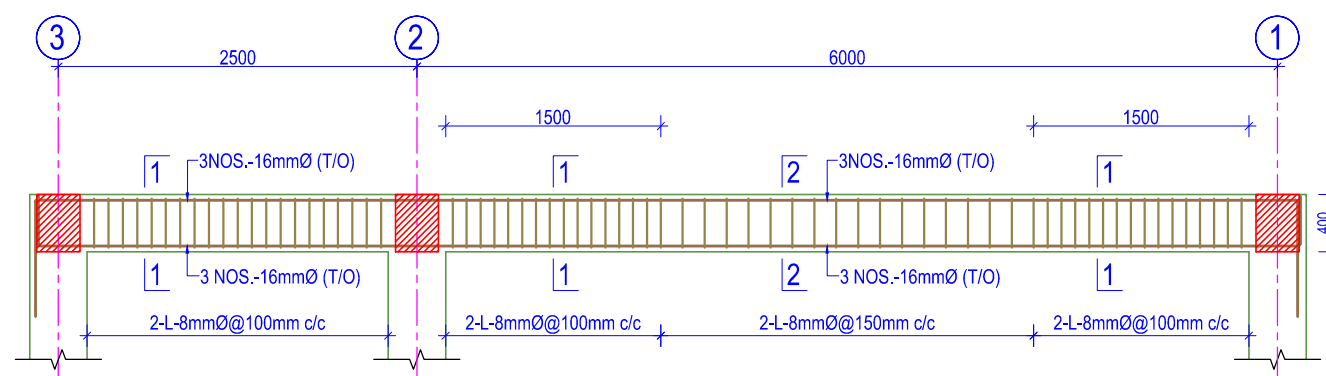
BEAM DETAIL ALONG GRID AT -1, 2 & 3

(SCALE = 1:50)



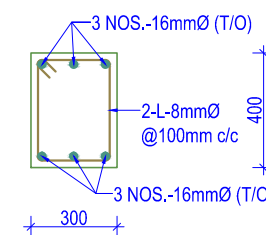
BEAM DETAIL ALONG GRID AT -1, 2 & 3

(SCALE = 1:50)



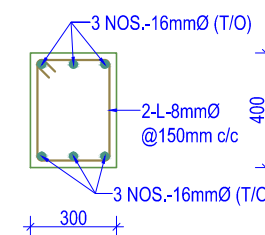
BEAM DETAIL ALONG GRID AT -A, B, C, D & E

(SCALE = 1:50)



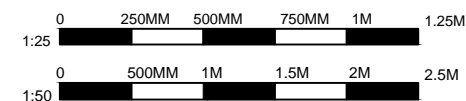
SECTION -1-1

(SCALE = 1:25)



SECTION -2-2

(SCALE = 1:25)



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Type Design :

4 SMALL CLASSROOMS

Sheet Title :
BEAM DETAILS

Sheet No.

4C(S)

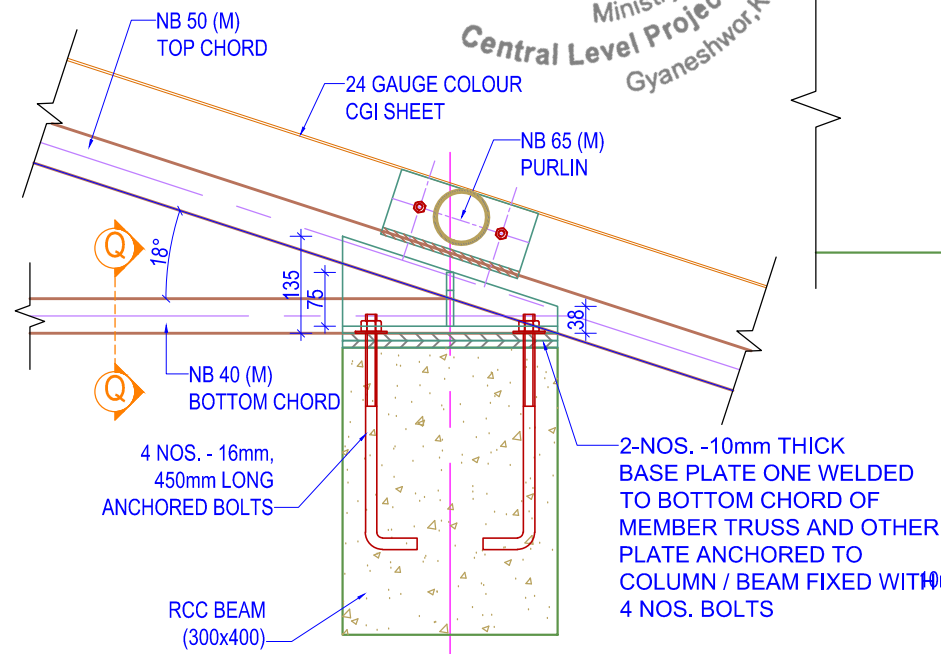
Date : September, 2016

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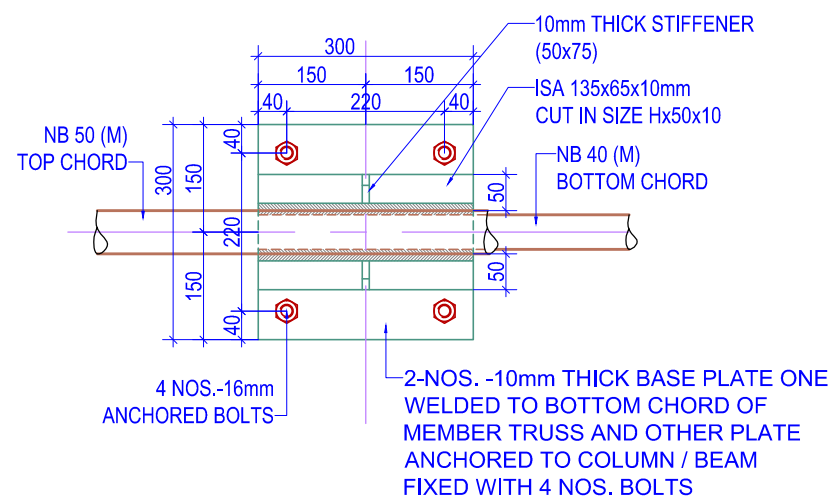
S-05



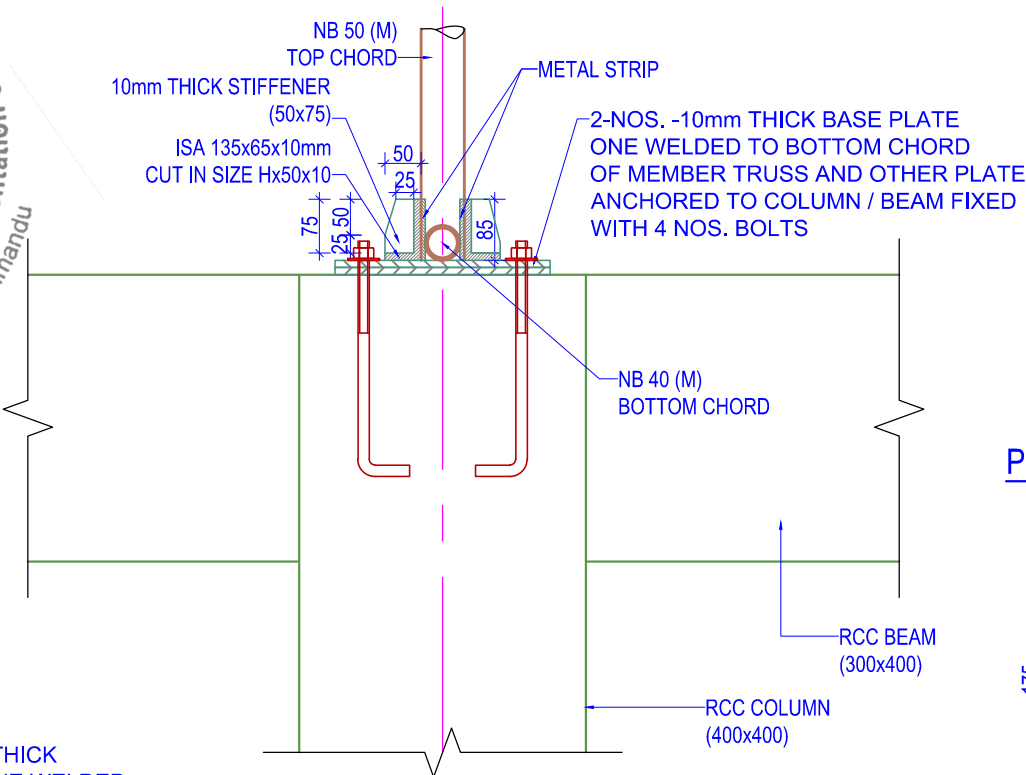
Government of Nepal
Ministry of Education
Central Level Project Implementation
Gyanseshwor, Kathmandu



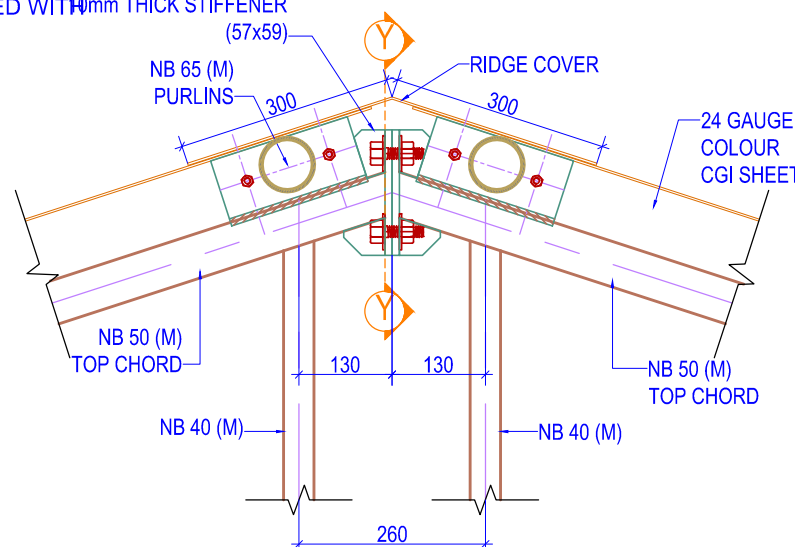
DETAIL AT -A
(Scale= 1:10)



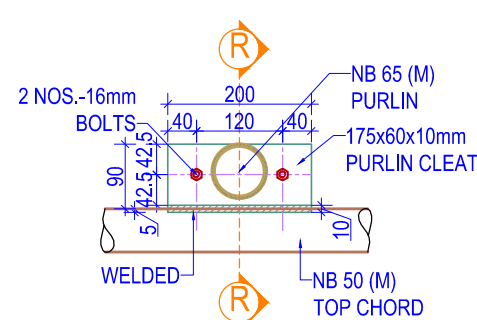
BASE PLATE PLAN AT -A
(Scale= 1:10)



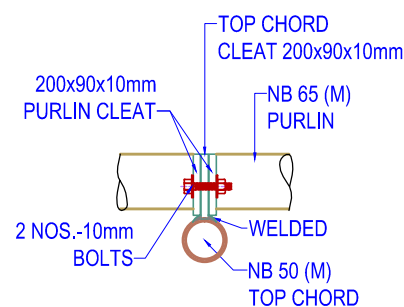
SECTION AT -Q-Q
(Scale= 1:10)



DETAIL AT -C
(Scale= 1:10)



PURLIN CLEAT DETAIL
(Scale= 1:10)



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

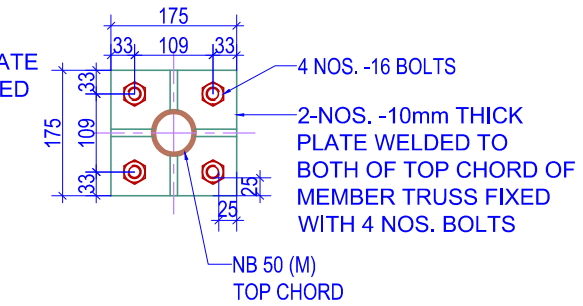


PLATE DETAIL AT -Y-Y
(Scale= 1:10)

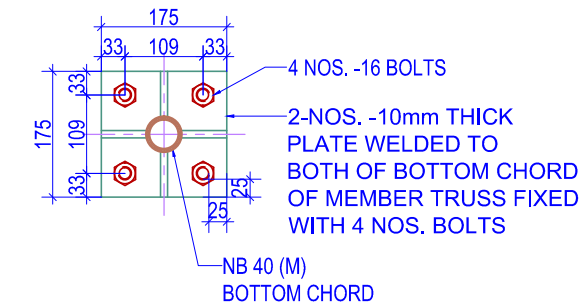
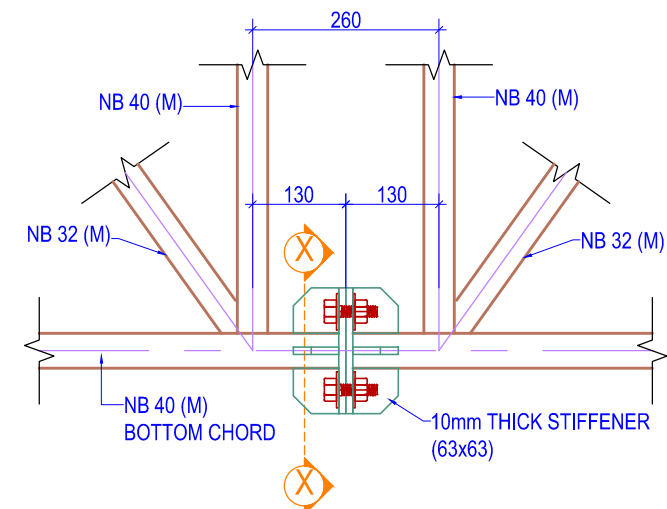


PLATE DETAIL AT -X-X
(Scale= 1:10)



DETAIL AT -B
(Scale= 1:10)

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Mr. A.S. Tamang

Mr. Wong Kuok Hung

Mr. S. Malla

Type Design :

4 SMALL CLASSROOMS

Sheet Title :
TRUSS DETAILS

Sheet No.

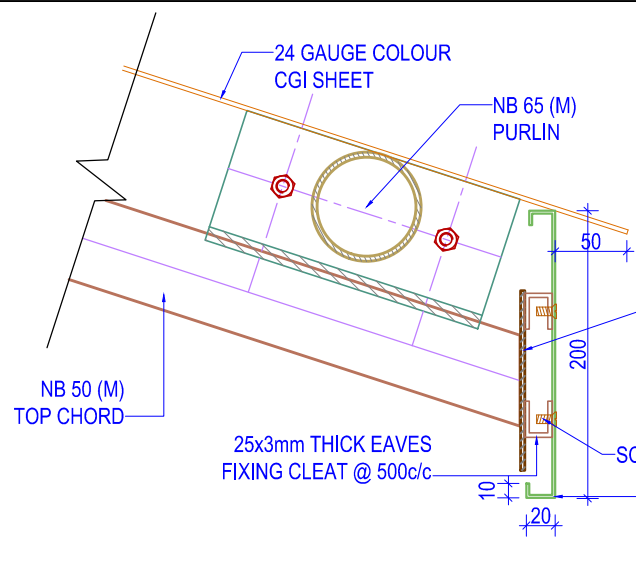
4C(S)

Date : September, 2016

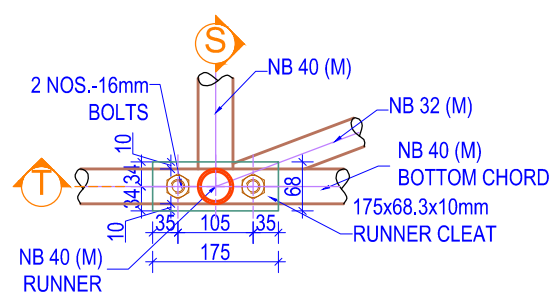
Print Sheet : A'3' Size

S-07

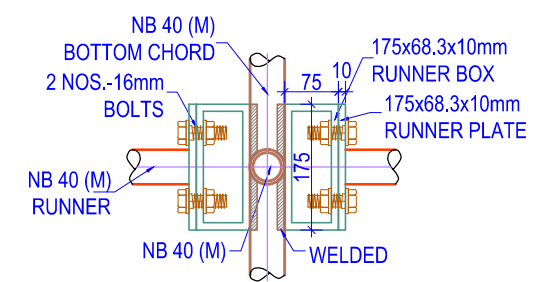




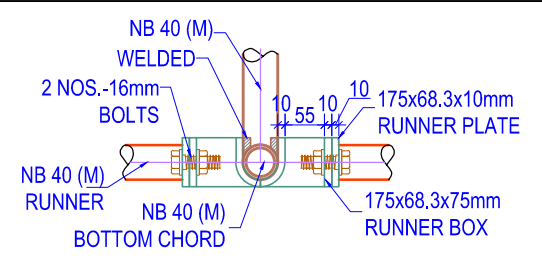
FASCIA BOARD DETAIL
(Scale= 1:5)



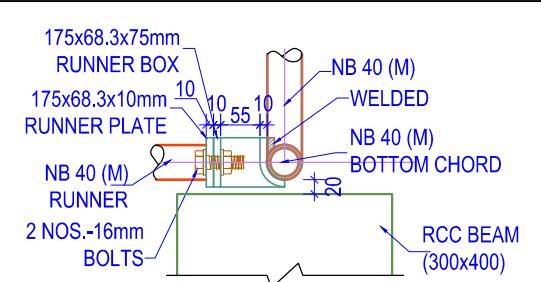
RUNNER PLATE & CONNECTION BOX DETAIL
(Scale= 1:10)



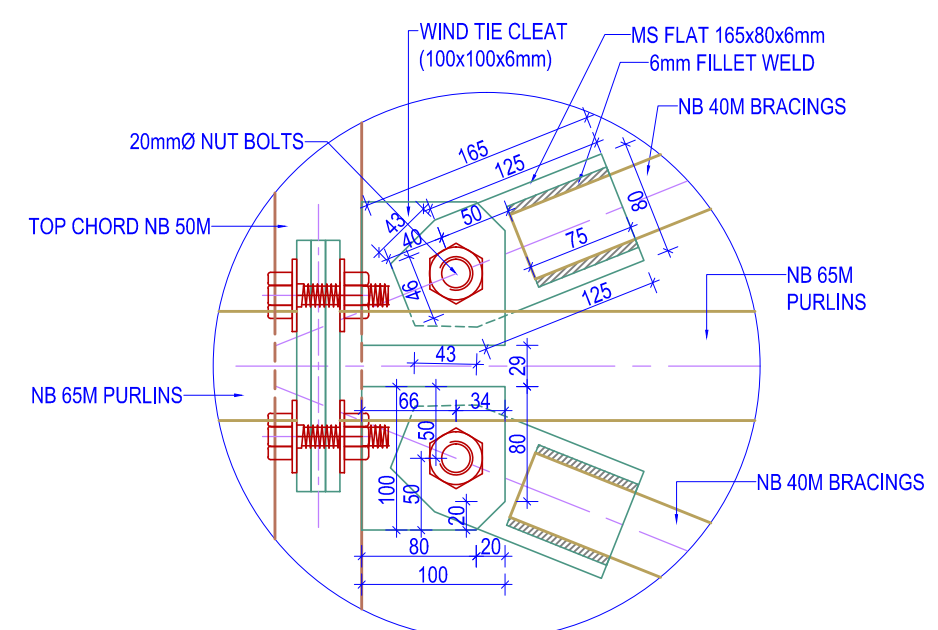
RUNNER PLATE & CONNECTION BOX DETAIL PLAN -T-T
(Scale= 1:10)



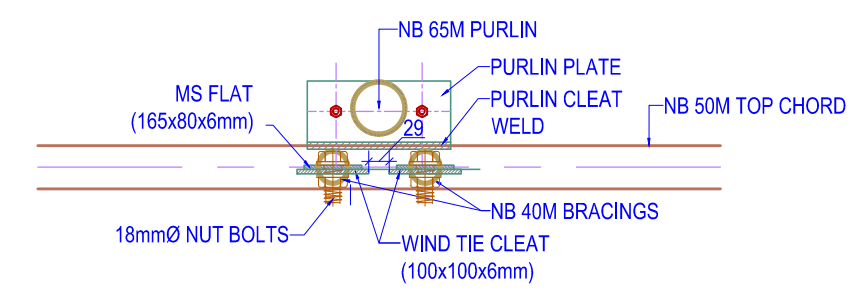
RUNNER PLATE & CONNECTION BOX DETAIL SECTION -S-S AT MID
(Scale= 1:10)



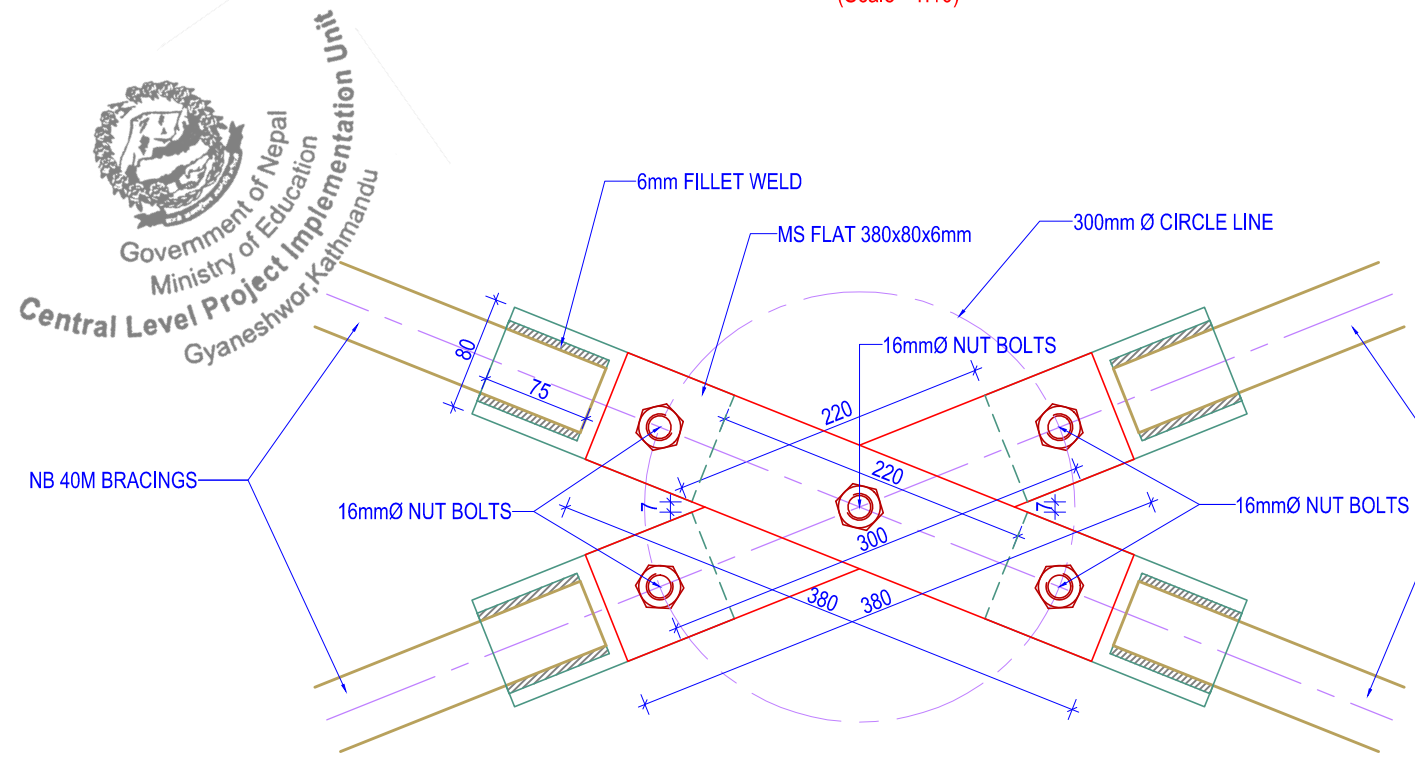
RUNNER PLATE & CONNECTION BOX DETAIL SECTION -S-S AT END
(Scale= 1:10)



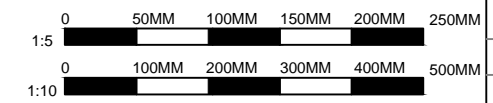
TRUSS CLEAT FOR WIND TIES DETAILS
(Scale= 1:5)



TRUSS CLEAT FOR WIND TIES SECTION DETAILS
(Scale= 1:10)



TRUSS CLEAT JUNCTION FOR WIND TIES DETAILS AT-W
(Scale= 1:5)



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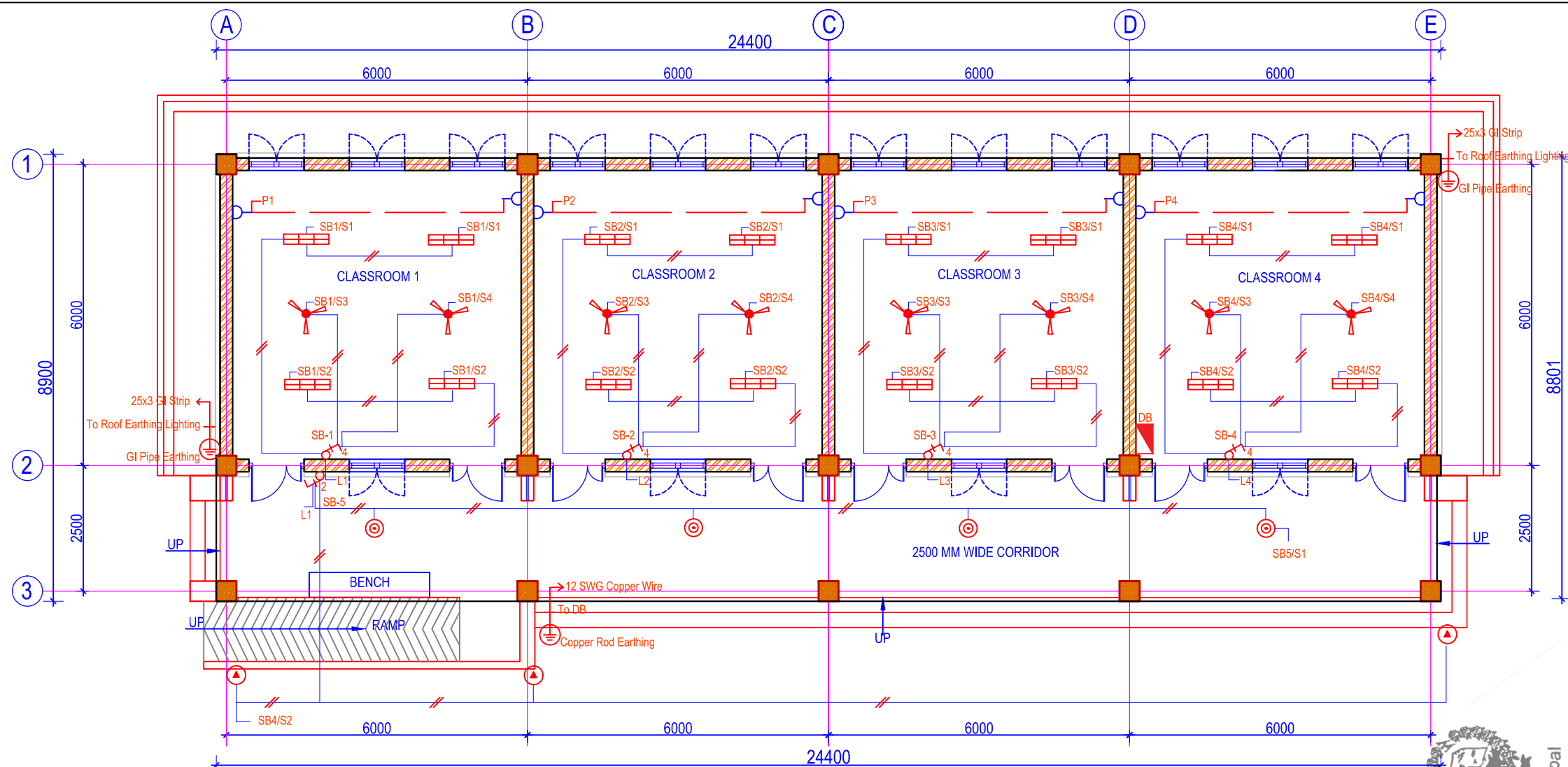
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Type Design :
4 SMALL CLASSROOMS

Sheet Title : TRUSS DETAILS	Sheet No. 4C(S)
Date : September, 2016 Print Sheet : A'3' Size	S-08



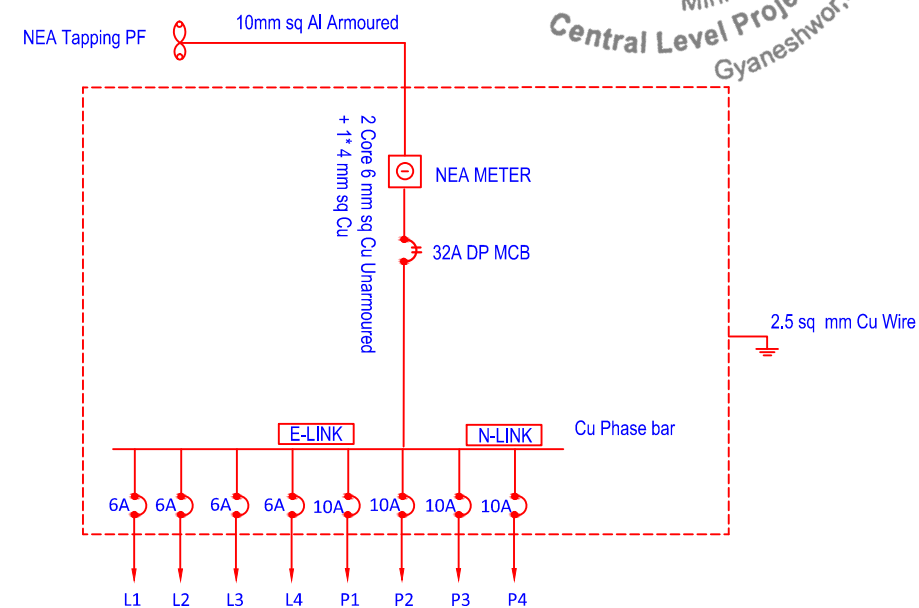
LIGHT, POWER & DB LAYOUT PLAN
(GROUND FLOOR)

(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	

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	



GROUND FLOOR L/P DISTRIBUTION SYSTEM (DB)

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 :
4 SMALL CLASSROOMS

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

Date : September, 2016
Print Sheet : A'3' Size

Sheet No.

4C(S)

E-01