

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:

**2 Storey laboratory, Library, ECD, music
& drawing room and computer room
2-LaLiEMC**



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

**2 STOREY LABORATORY, LIBRARY, ECD,
MUSIC & DRAWING ROOM AND COMPUTER ROOM
2-LaLiEMC**

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Sanothimi, Bhaktapur, Nepal



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Mr. Hisafumi Michikawa	Mr. A.S. Tamang
Mr. Wong Kuok Hung	Ms. M. Rana

Type Design :
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Sheet Title :
GROUND FLOOR PLAN

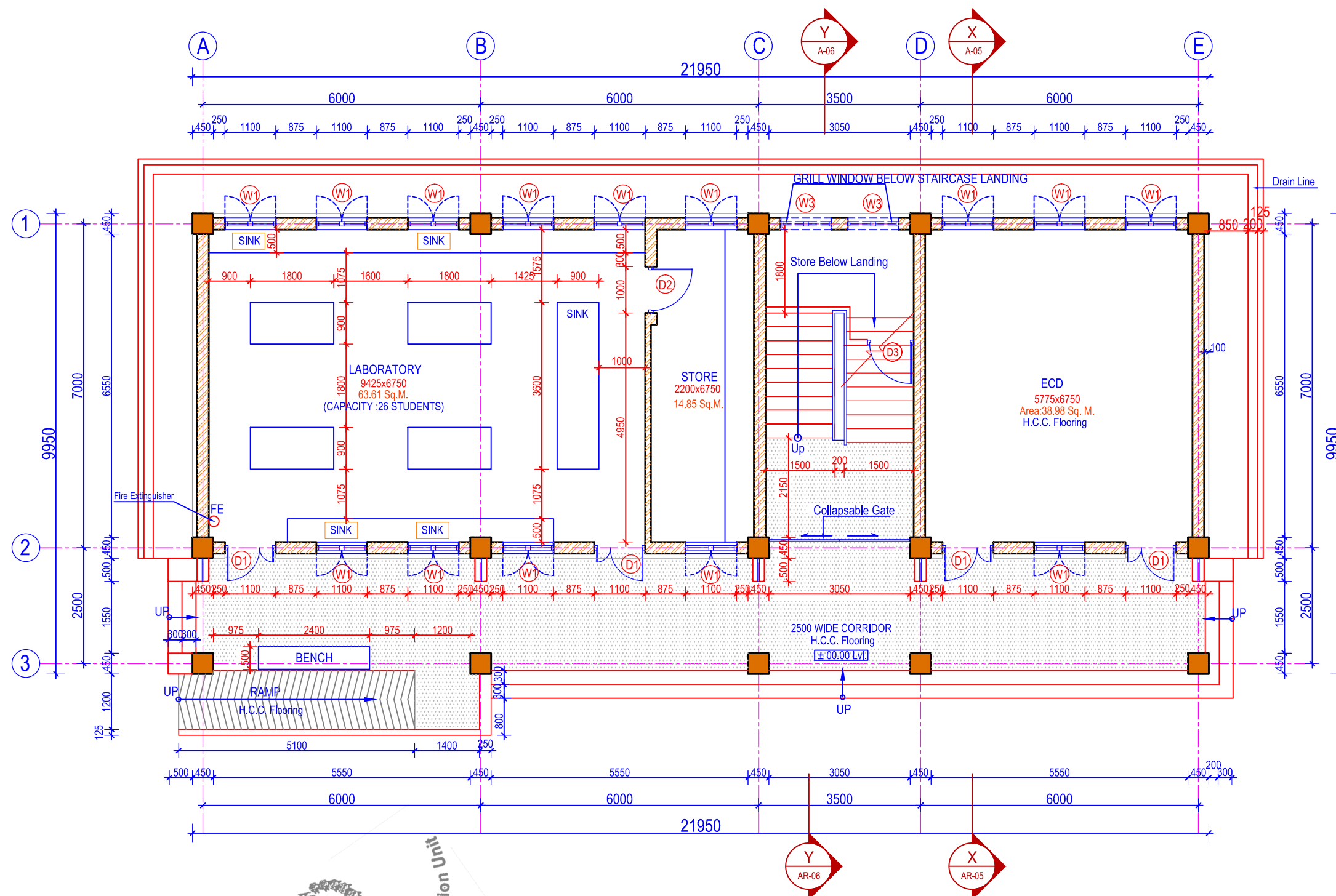
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**2-LaLi
EMC**

Date : September, 2016

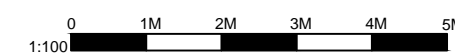
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A-01



GROUND FLOOR PLAN

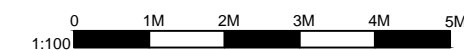
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(Scale= 1:100)



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Area = 218.40 Sq. M.)
(Scale= 1:100)



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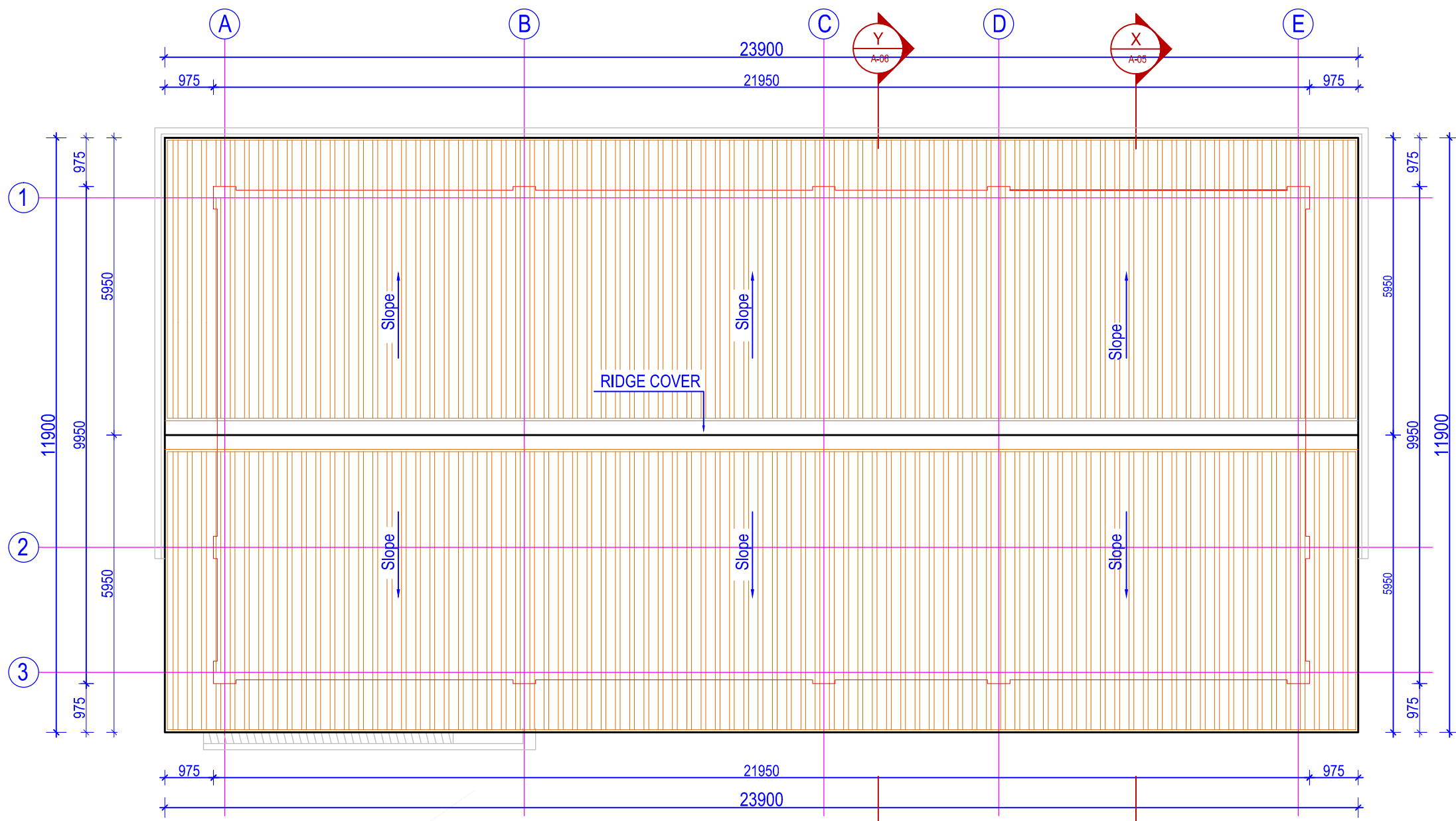
Mr. Wong Kuok Hung	Ms. M. Rana
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Print Sheet : A'3' Size

A-02



ROOF PLAN
(Scale= 1:100)



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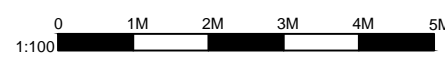
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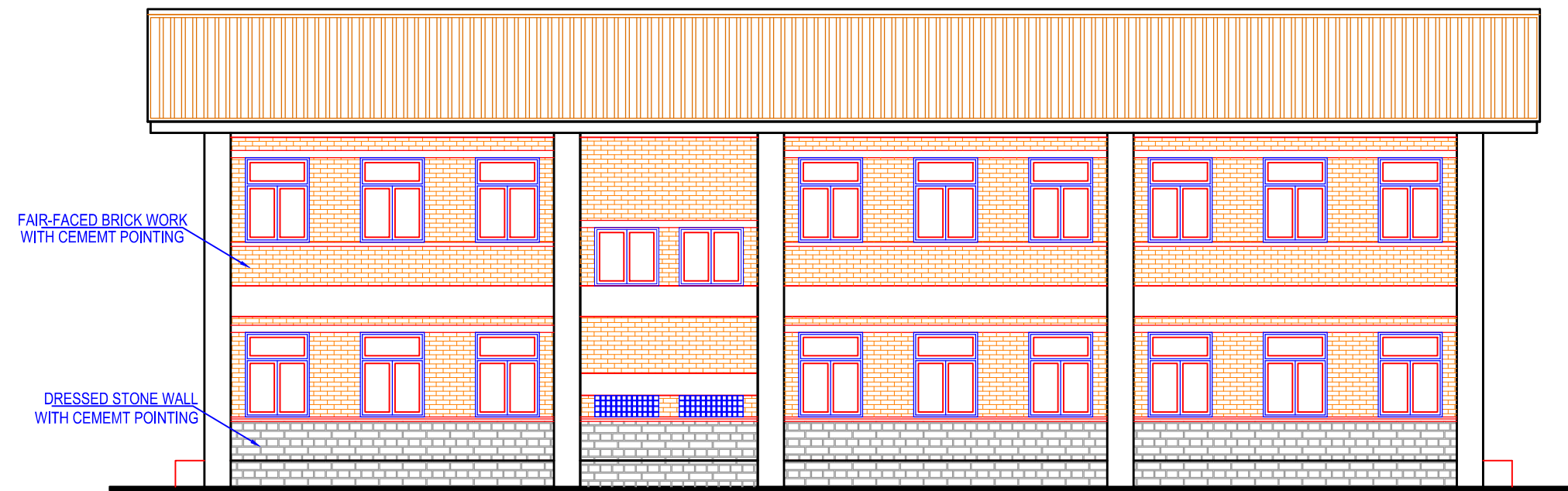
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Sheet Title : ROOF PLAN	Sheet No. 2-LaLi EMC
Date : September, 2016	A-03
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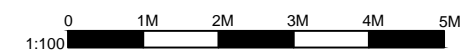




FRONT ELEVATION
(Scale= 1:100)



BACK ELEVATION
(Scale= 1:100)



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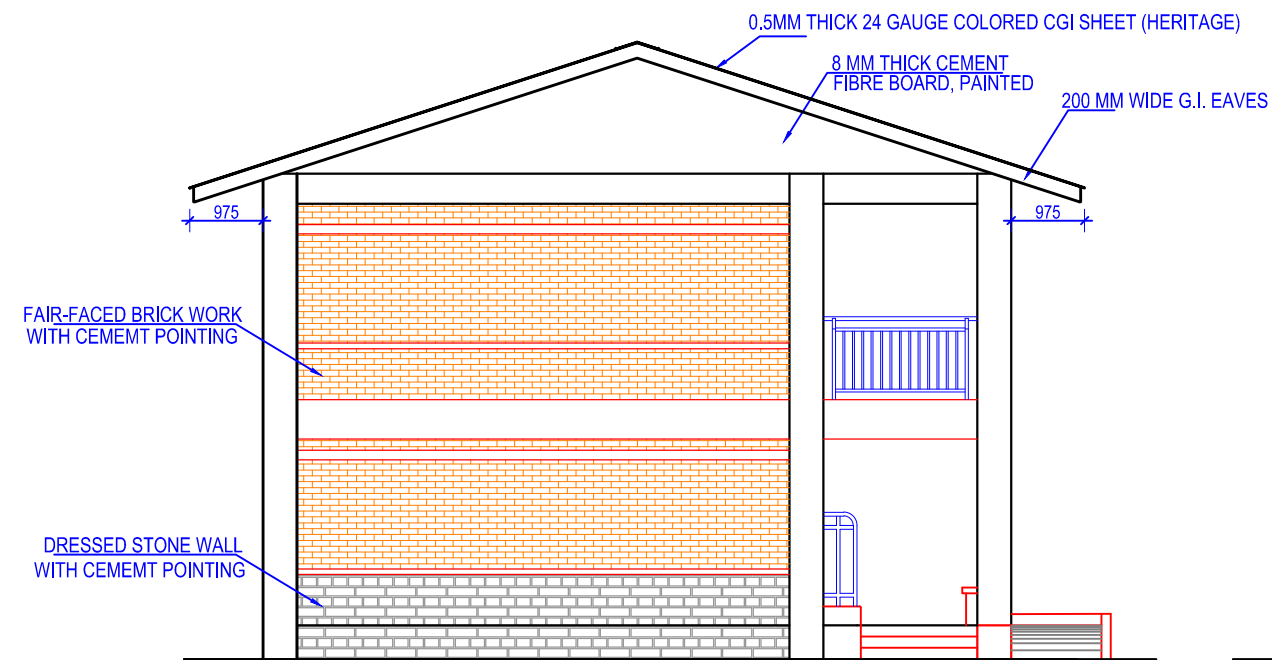
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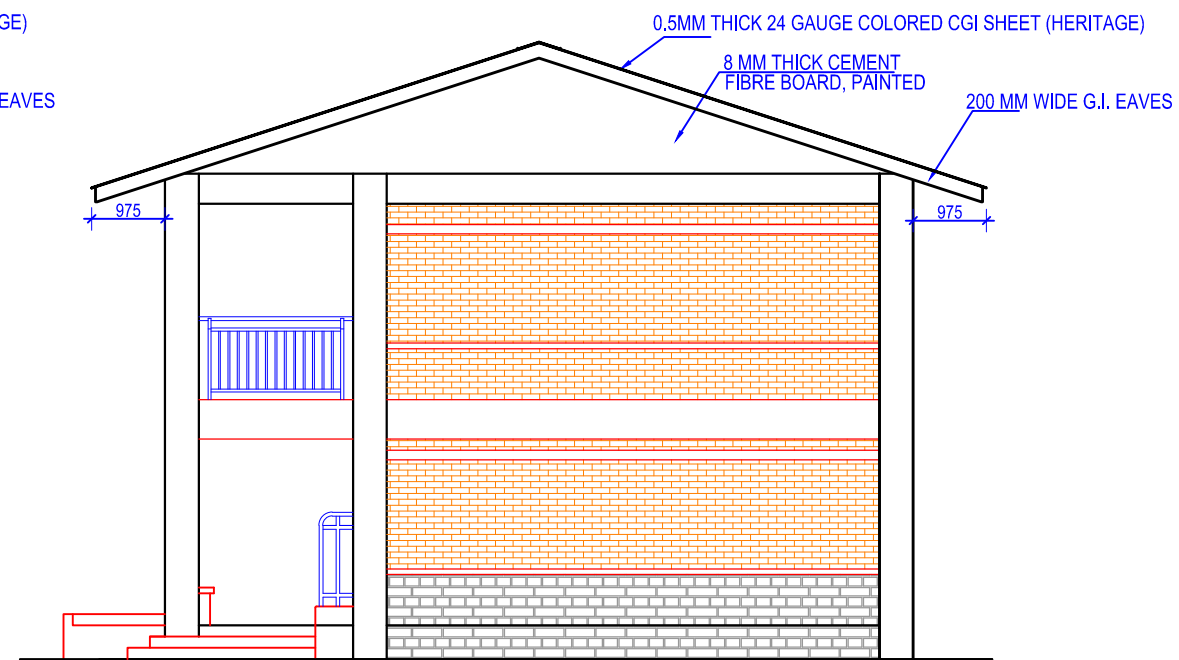
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2 STOREY LABORATORY, LIBRARY, ECD MUSIC, DRAWING & COMPUTER ROOM

Sheet Title : ELEVATIONS	Sheet No. 2-LaLi EMC
Date : September, 2016	A-04
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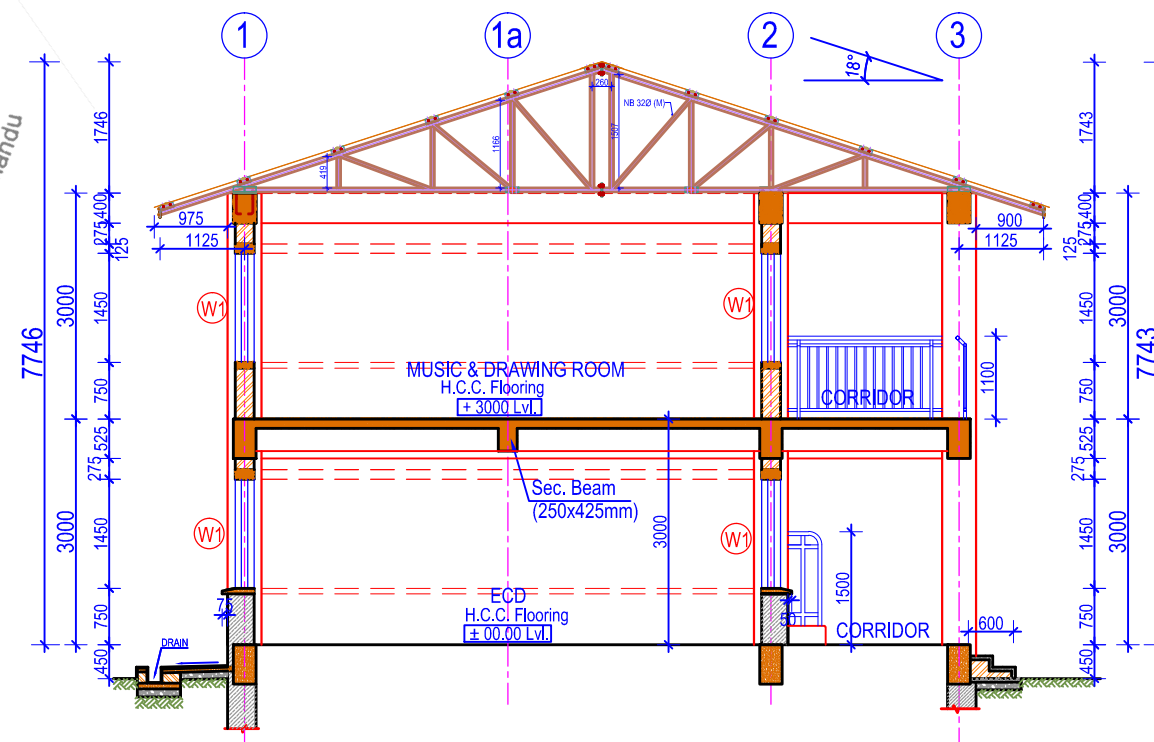


SIDE ELEVATION

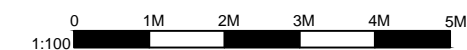


SIDE ELEVATION

Government of Nepal
Ministry of Education
Central Level Project Implementation Unit
Gyaneshwor, Kathmandu



SECTION AT X-X
(Scale= 1:100)



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MUSIC, DRAWING & COMPUTER ROOM

Sheet Title :
ELEVATIONS & SECTION

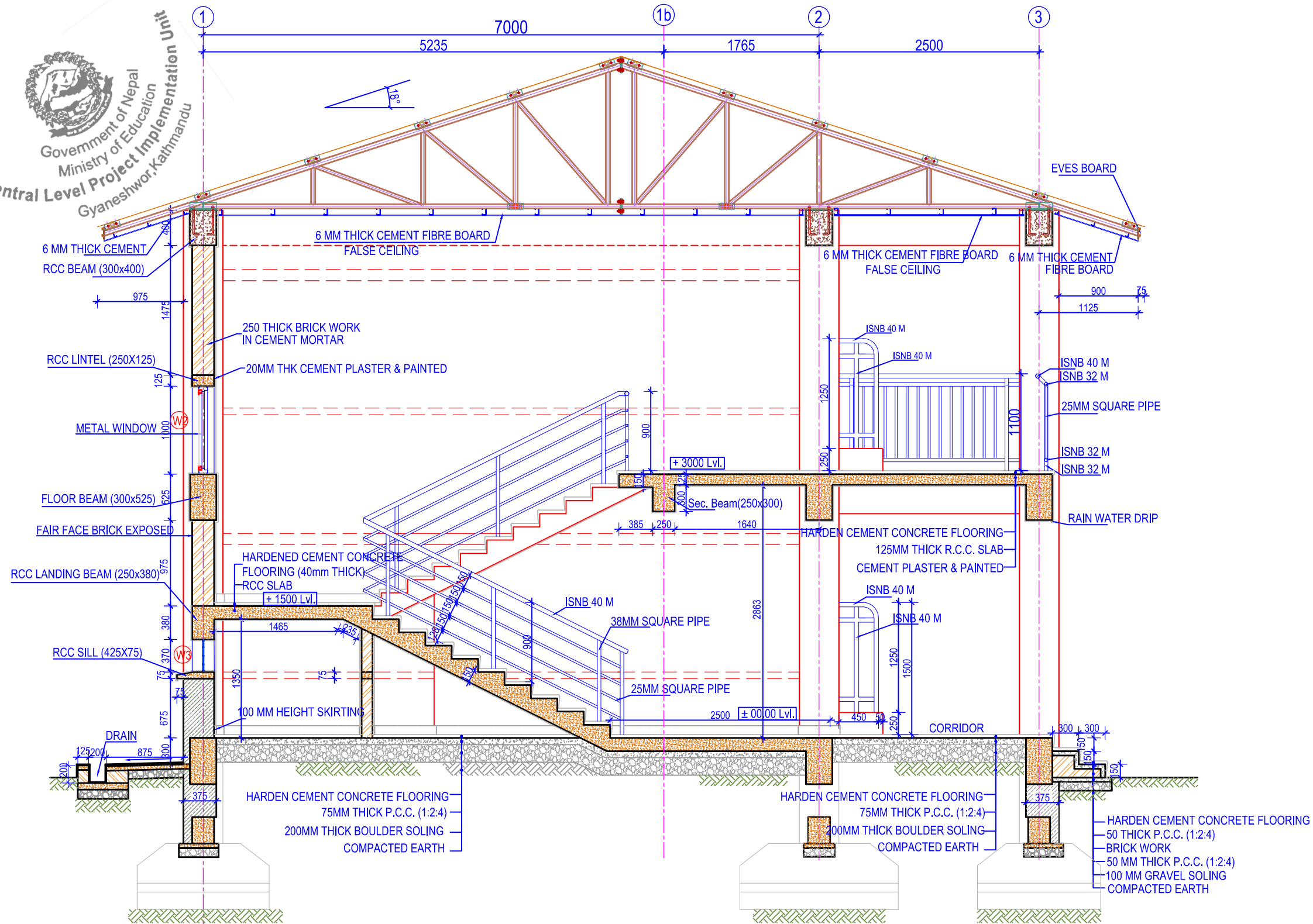
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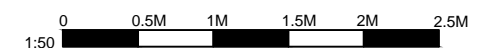
Date : September, 2016

Print Sheet : A3' Size

A-05



WALL SECTION AT Y-Y
(Scale= 1:50)



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Sheet Title :
WALL SECTION

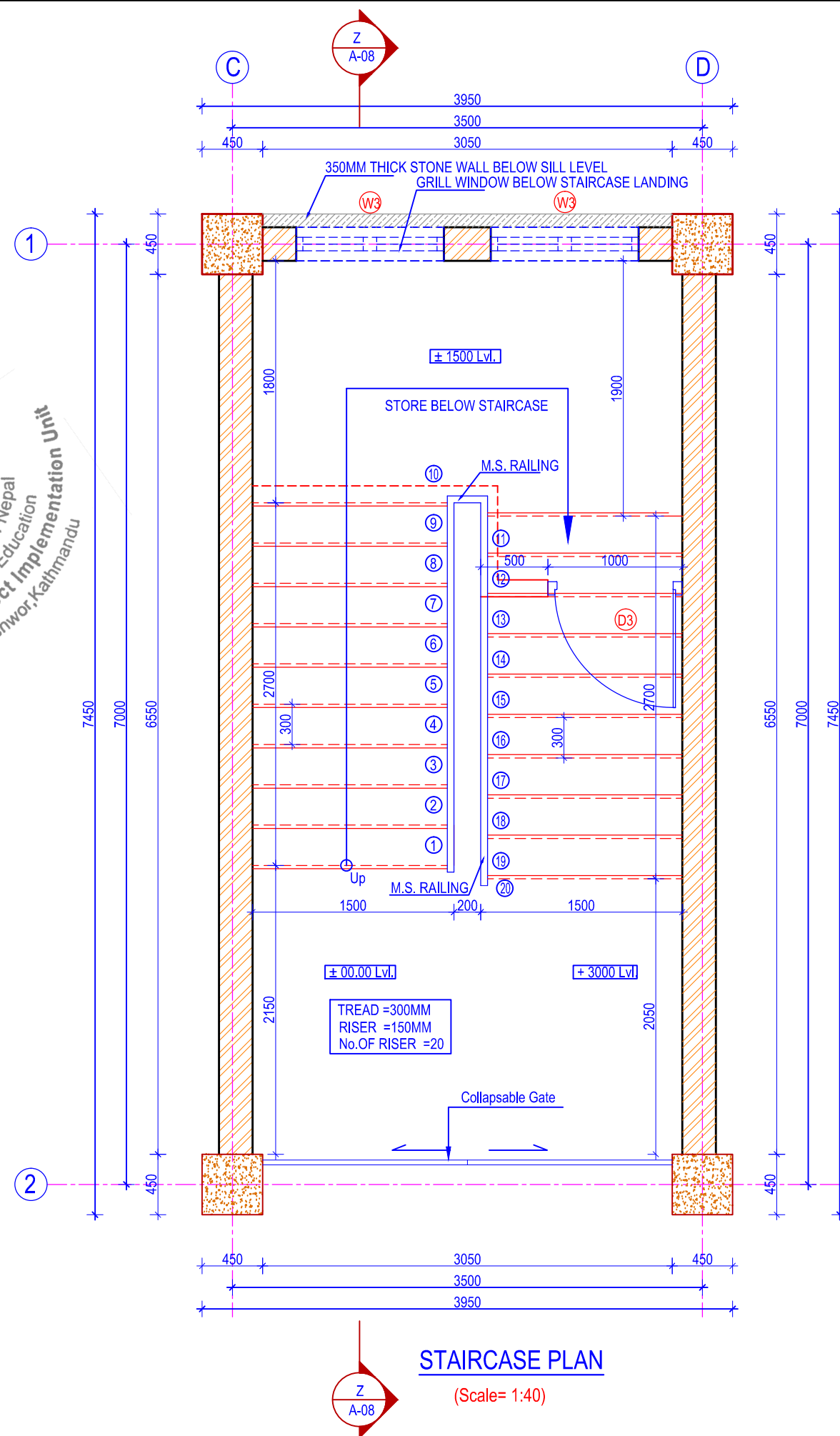
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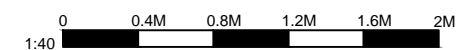
Date : September, 2016

Print Sheet : A'3' Size

A-06



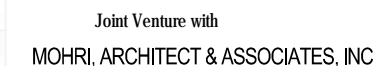
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Emergency School Reconstruction Project

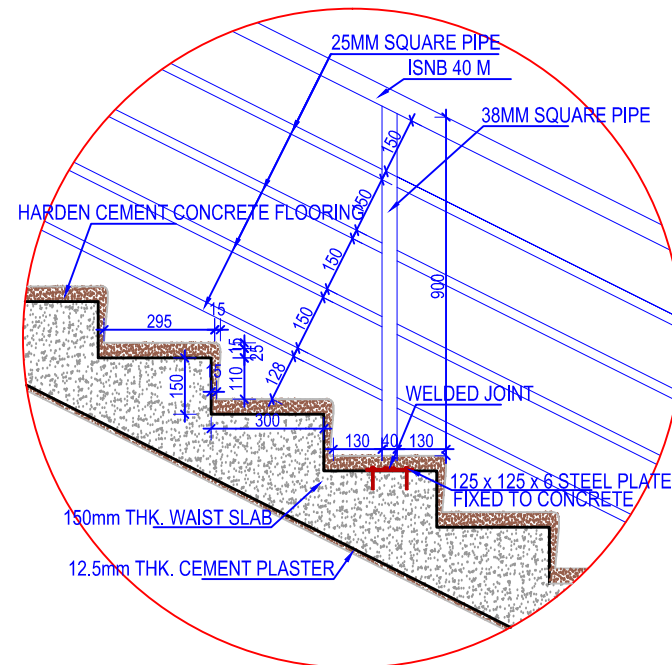
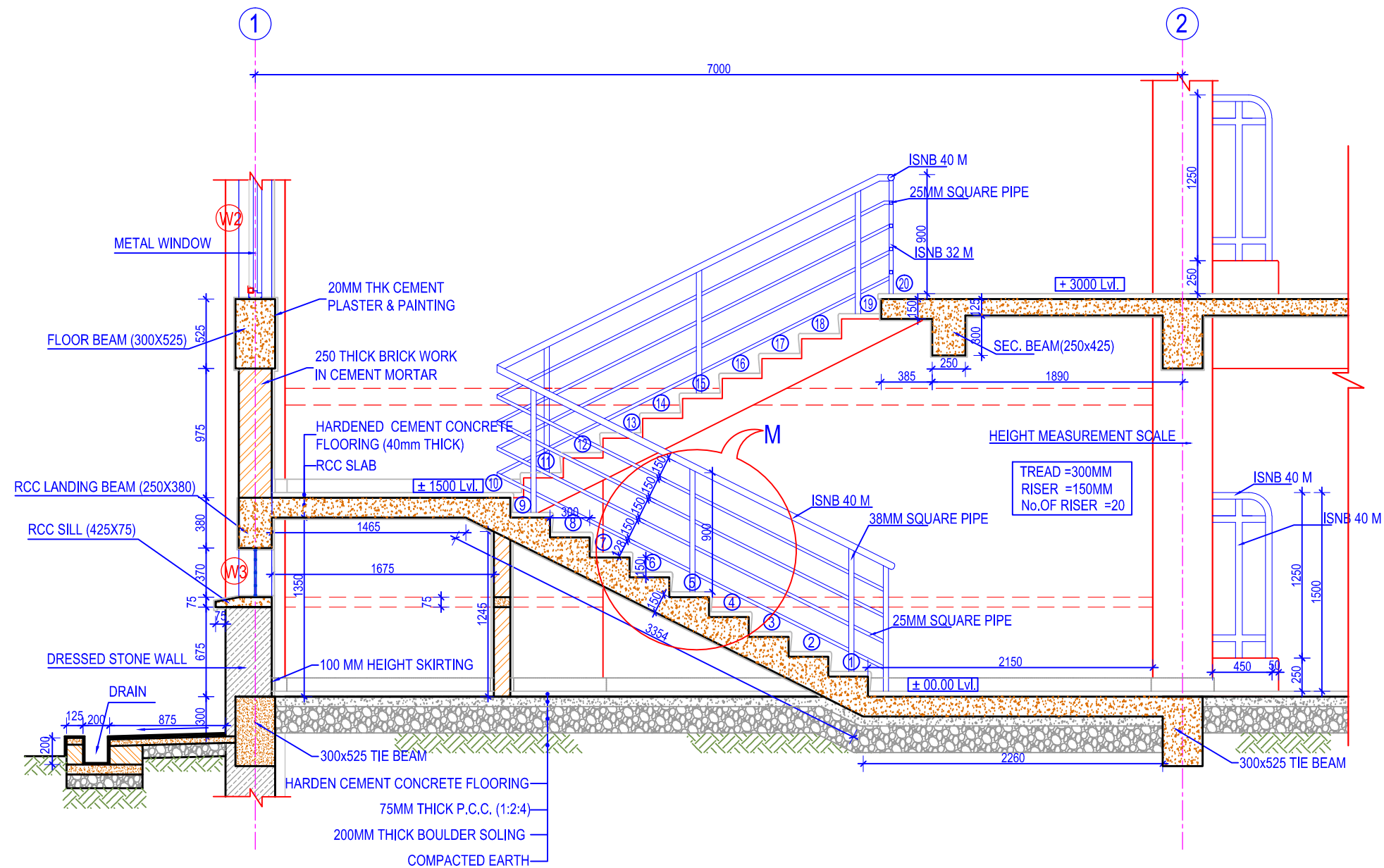


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A-07



DETAIL AT M
(Scale= 1:20)

STAIRCASE SECTION AT Z-Z

(Scale= 1:40)



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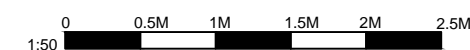
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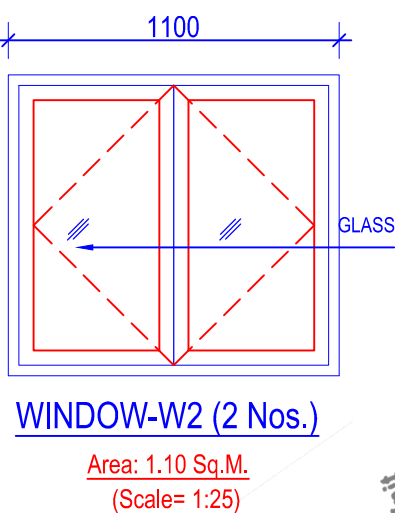
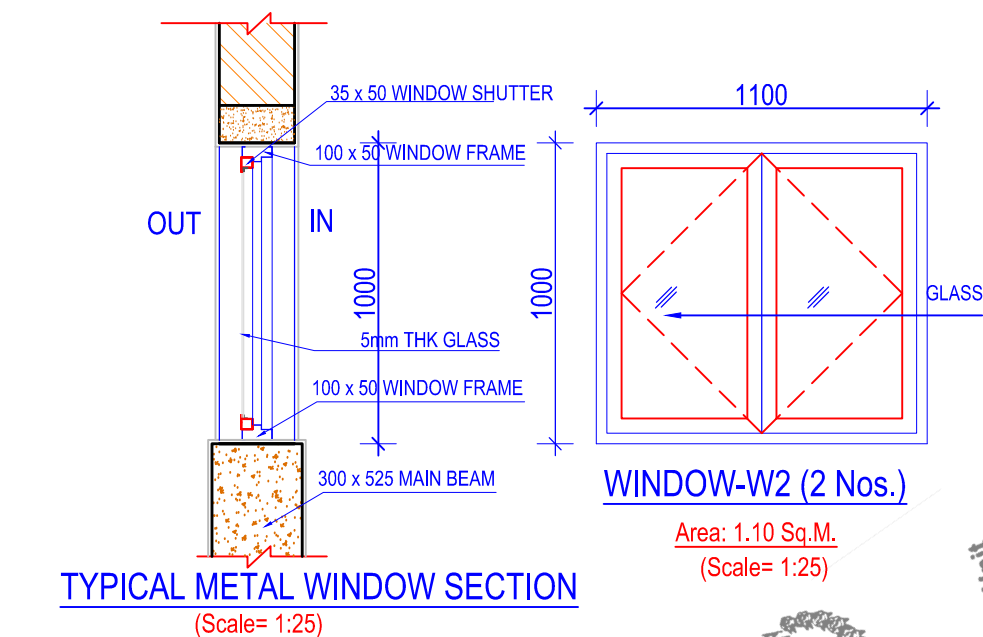
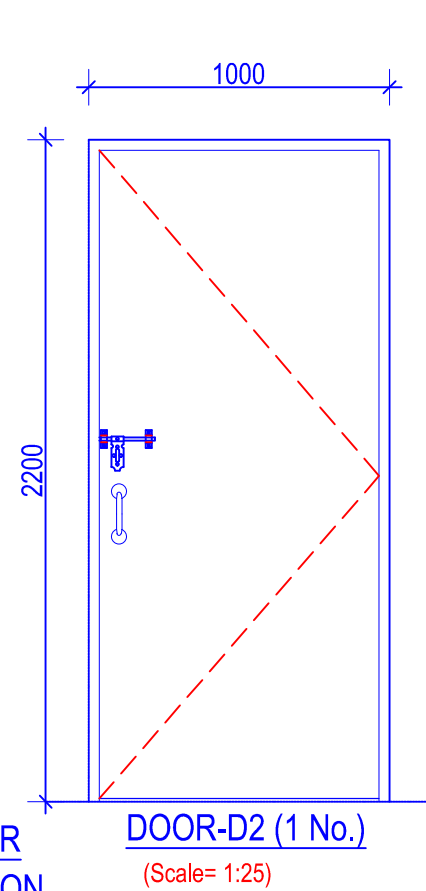
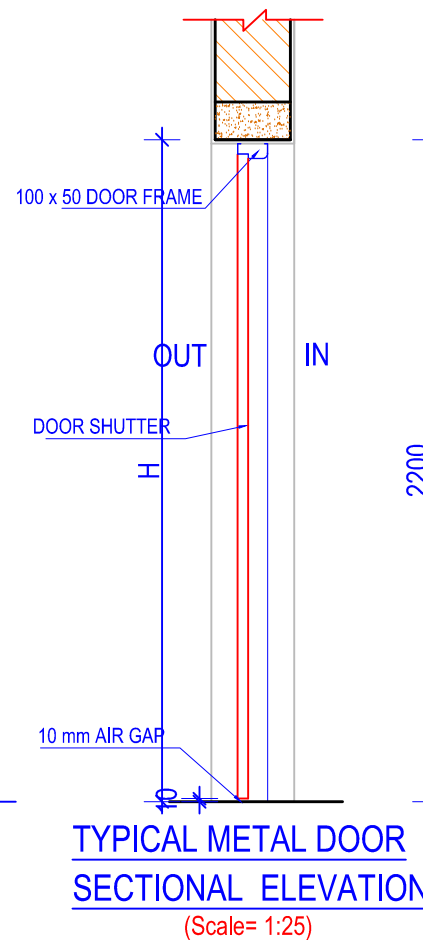
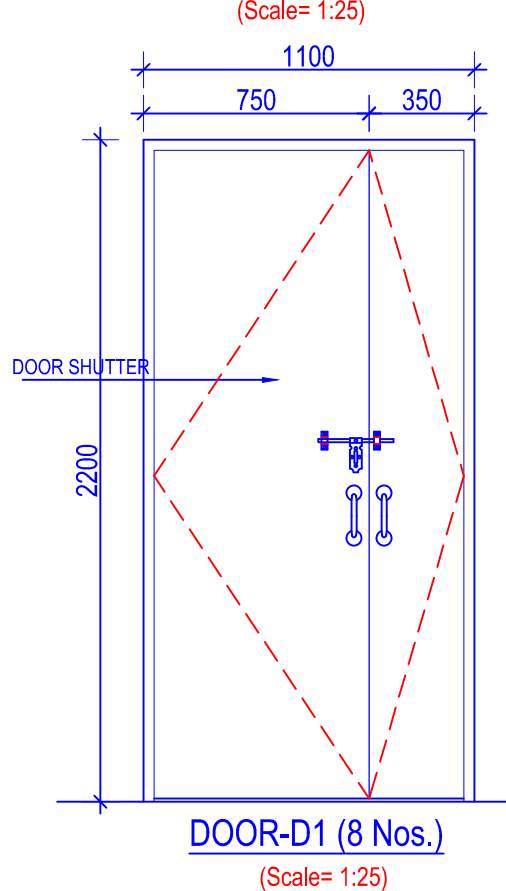
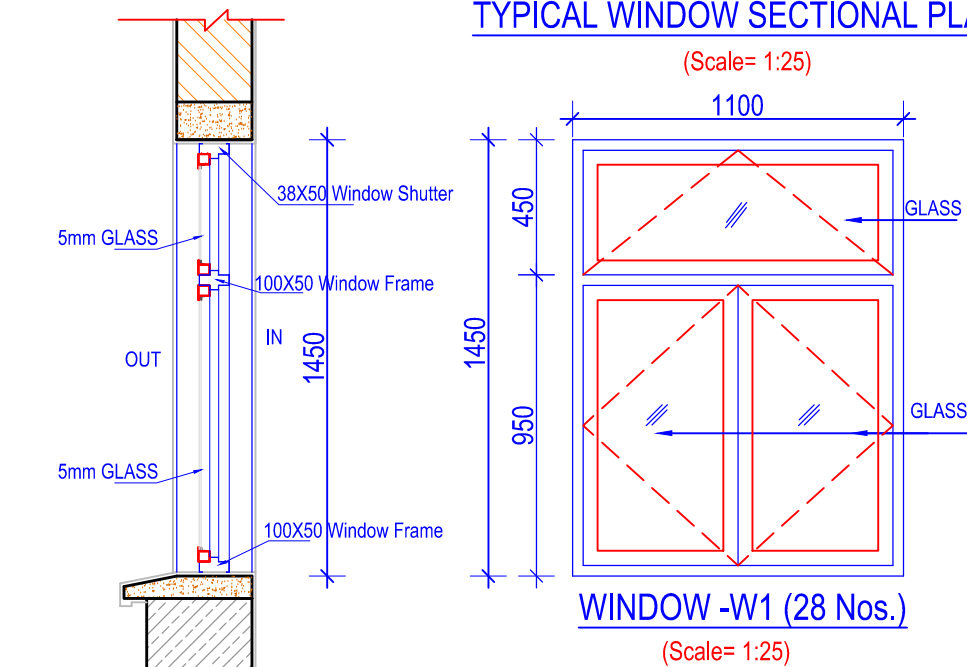
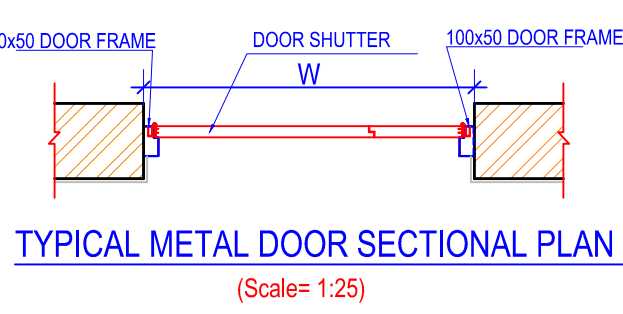
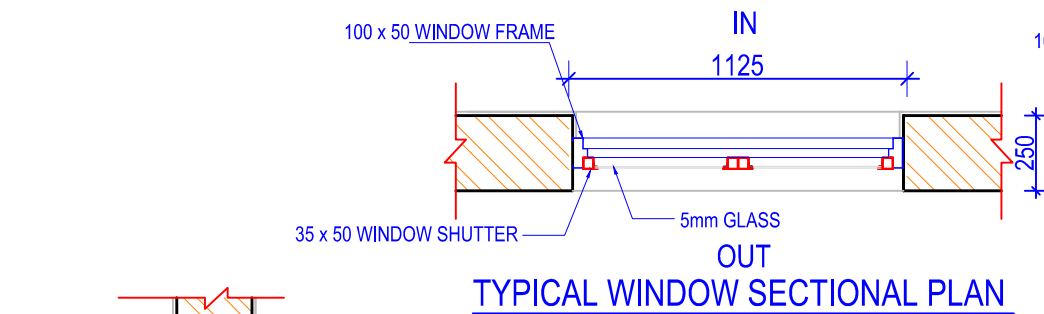
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Type Design :
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Sheet Title : STAIRCASE DETAILS	Sheet No. 2-LaLi EMC
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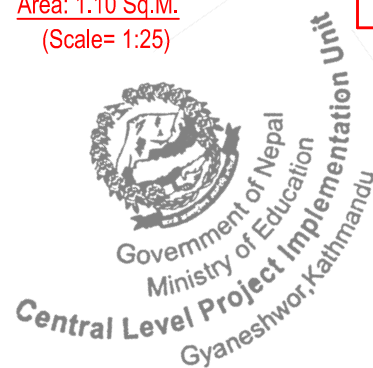
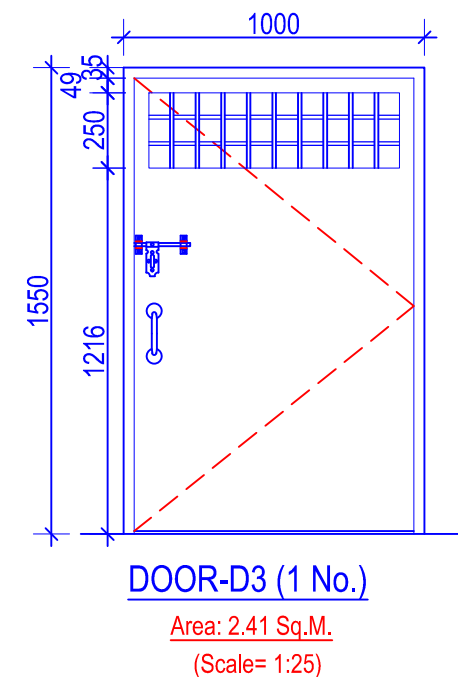
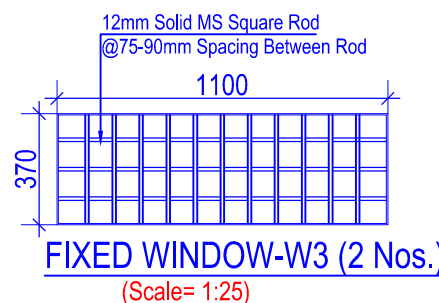
Date : September, 2016	A-08
Print Sheet : A3' Size	





DOORS & WINDOWS SCHEDULE:

S.N.	SYMBOL	SIZES	G.F.	F.F.	TOTAL	REMARKS
1.	W1	1100 x 1450	14	14	28	MS Frame & Shutter, Grill Only For Ground Floor
2.	W2	1100 x 1000	0	2	2	MS Frame & Shutter With Grill
3.	W3	1100 x 370	2	0	2	MS Square Rod (Grill)
4.	D1	1100 x 2200	4	4	8	MS Frame & Shutter
5.	D2	1000 x 2200	1	0	1	MS Frame & Shutter
6.	D3	1000 x 1550	1	0	1	MS Frame & Shutter
TOTAL			22	20	42	



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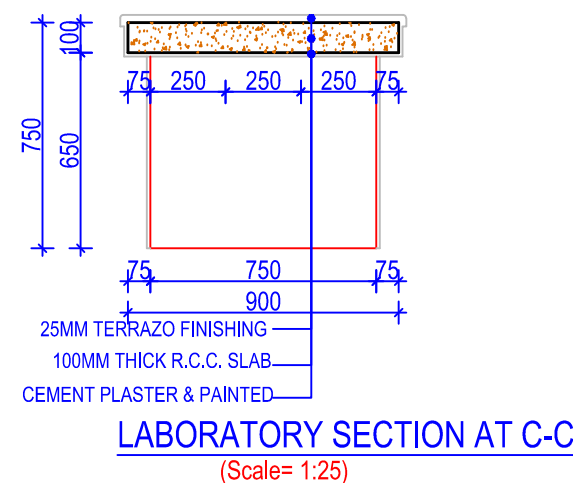
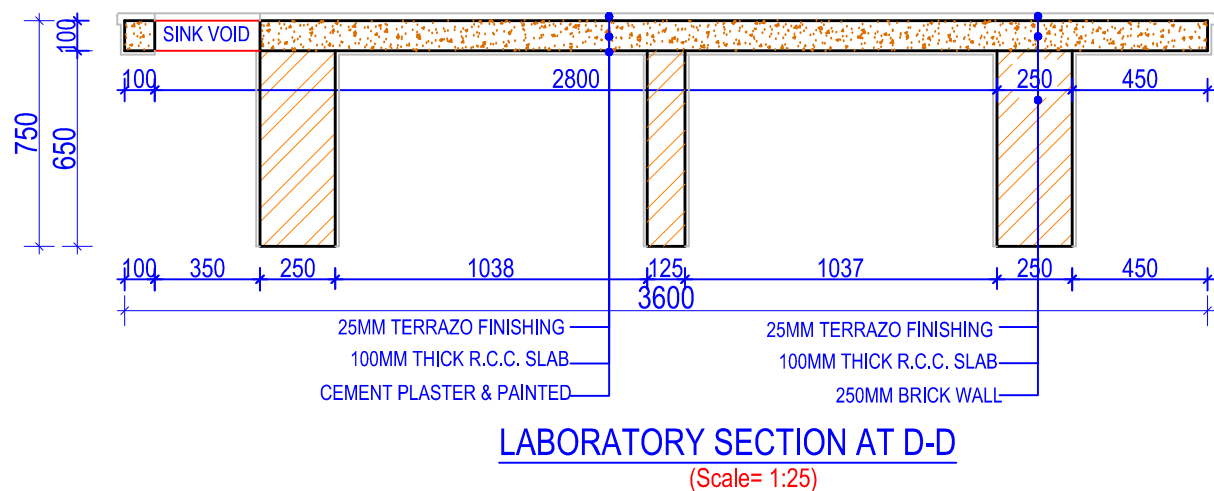
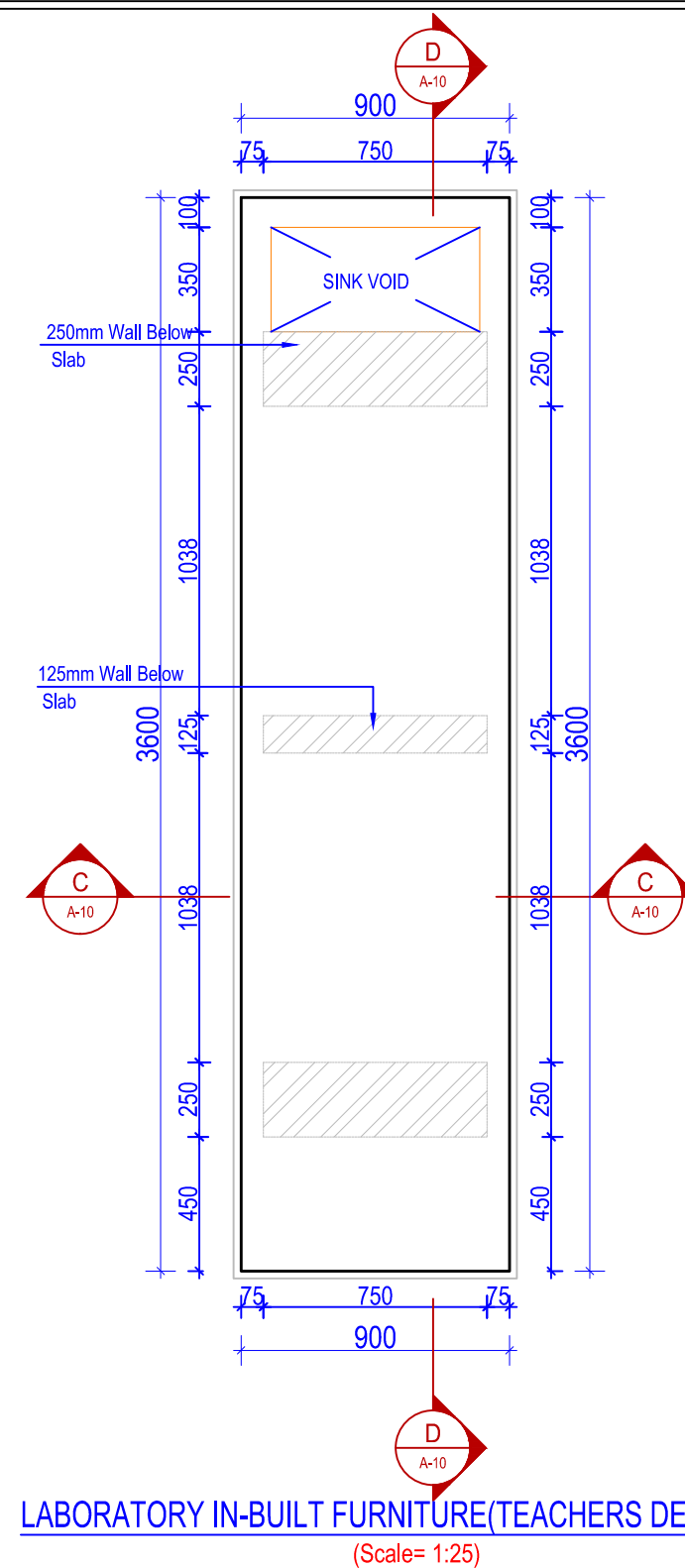
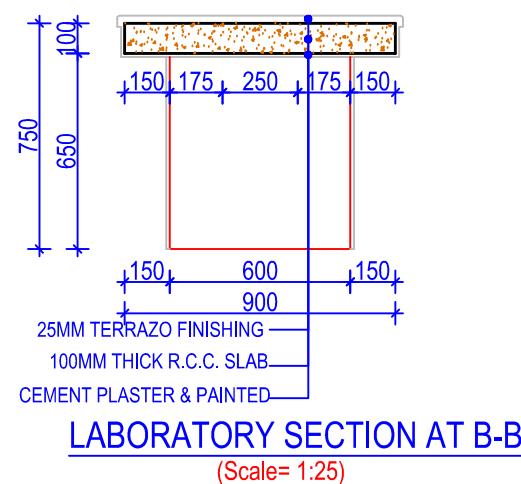
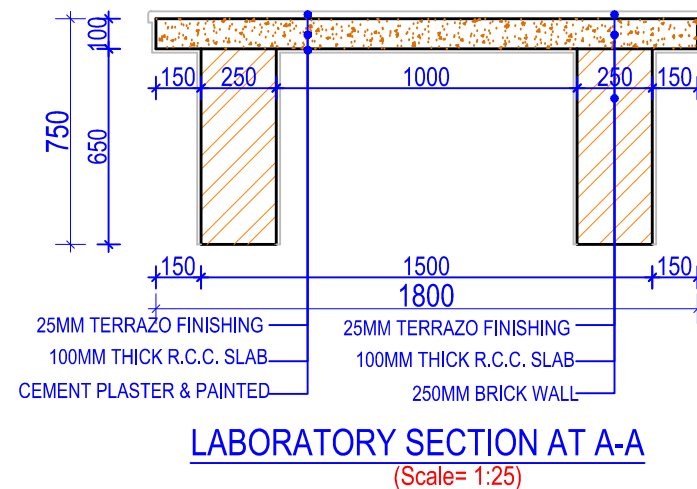
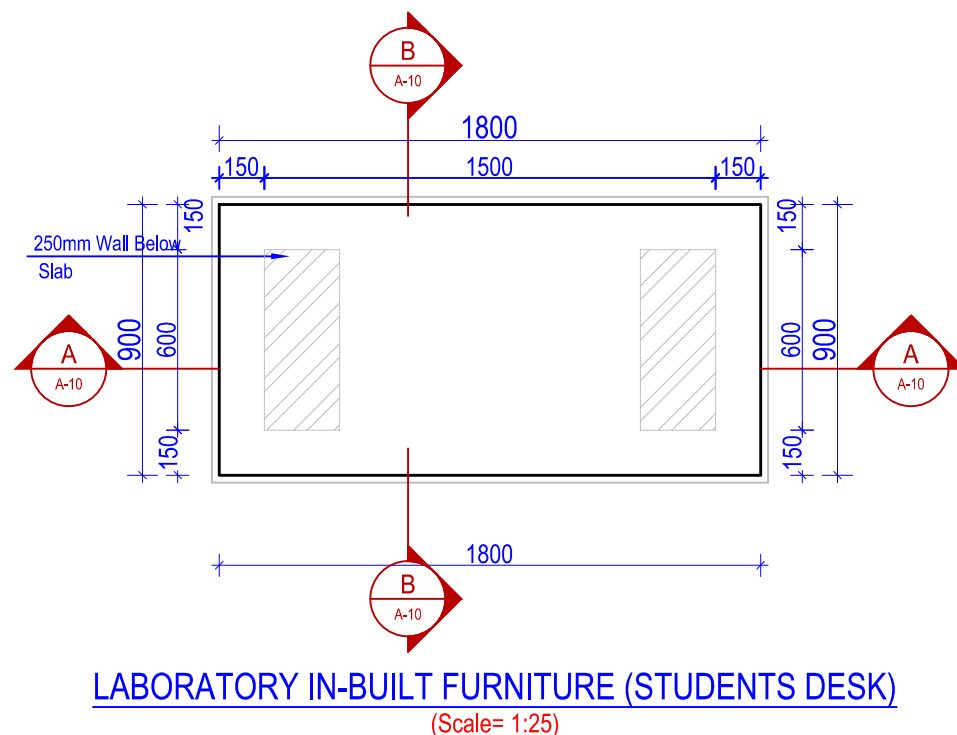
Sheet Title :
DOOR & WINDOW DETAILS

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

Sheet No.
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A-09

0.25M 0.5M 0.75M 1M 1.25M 1.5M
1:25



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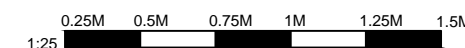
Sub-Consultant:
EWES East West Engineering Service Pvt. Ltd.
P. Box-8621, Bansbari, Kathmandu, Nepal. web: ewesnepal.com
Tel: 9771-4373316, Fax: 4650203, email - hbgewe@gmail.com

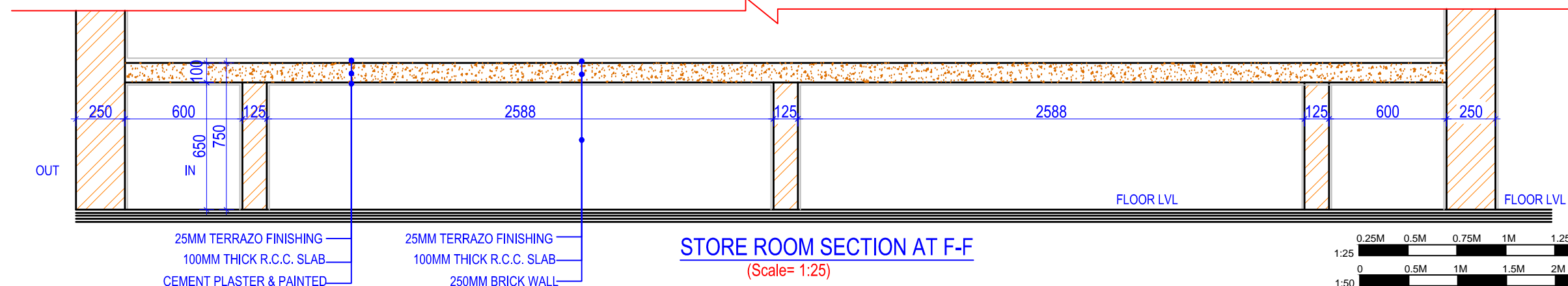
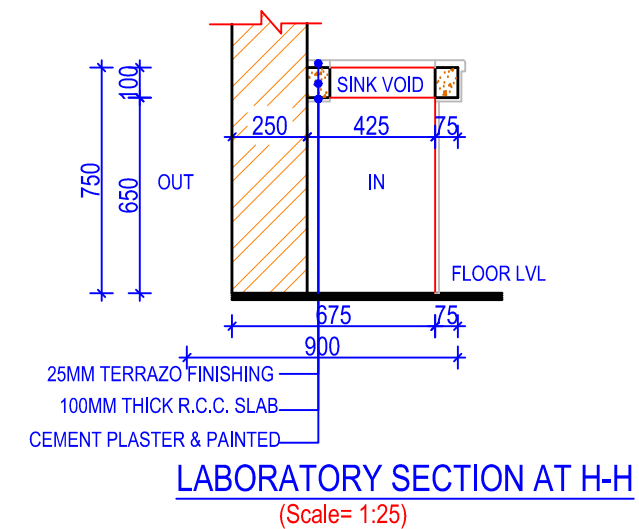
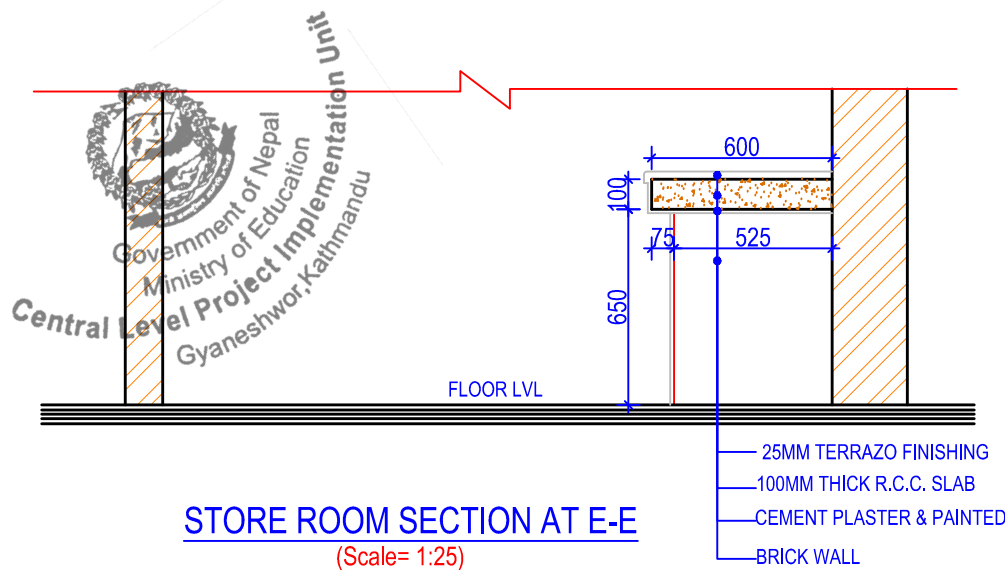
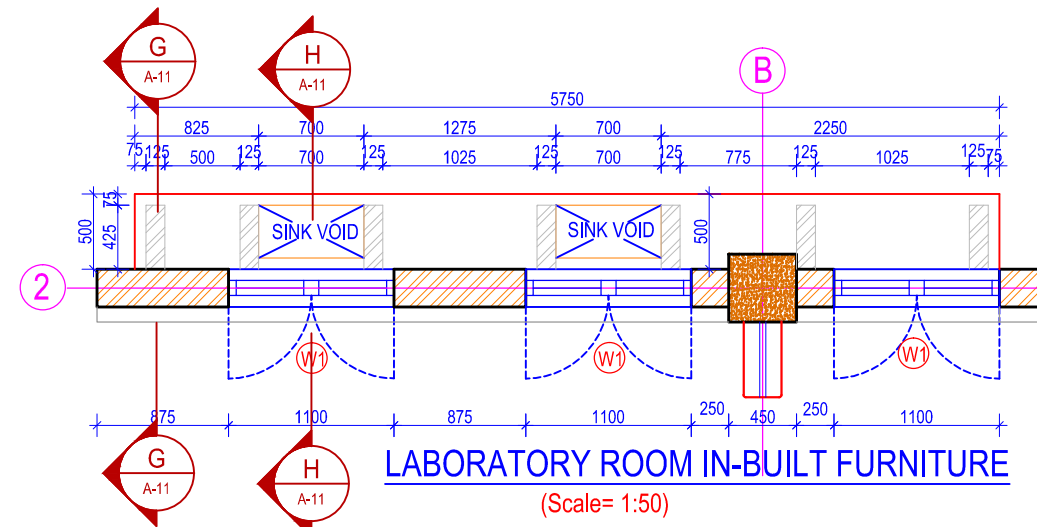
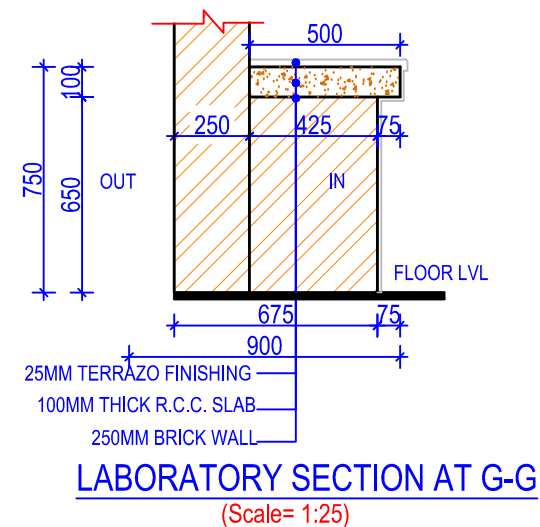
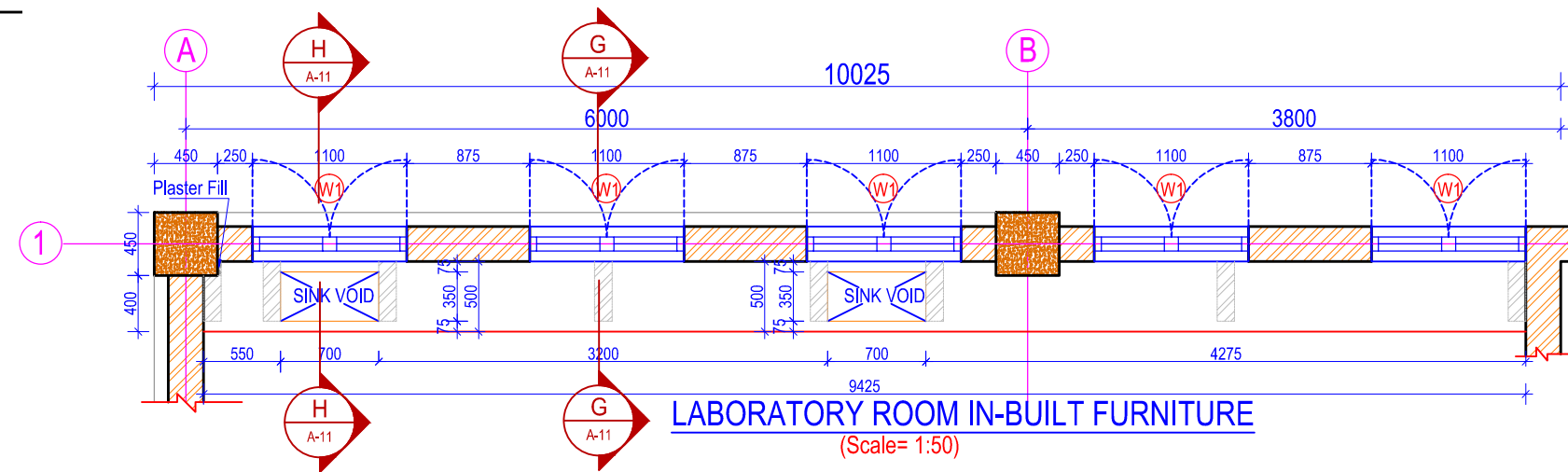
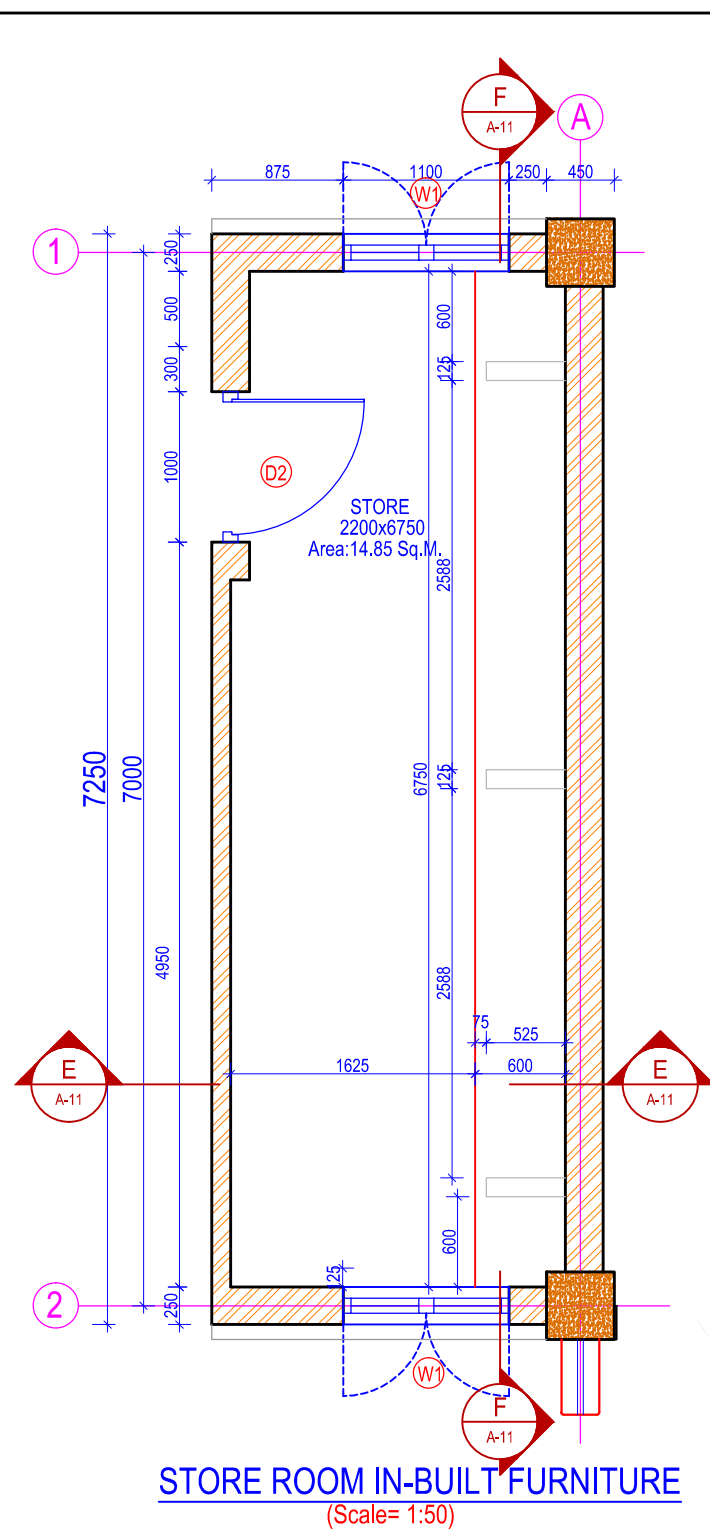
Mr. Tomoki Miyano	Mr. H.B. Gurung
Mr. Hisafumi Michikawa	Mr. A.S. Tamang
Mr. Wong Kuok Hung	Ms. M. Rana

Type Design :
2 STOREY LABORATORY, LIBRARY, ECD MUSIC, DRAWING & COMPUTER ROOM

Sheet Title : BUILT-IN FURNITURE DETAIL	Sheet No. 2-LaLi EMC
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Date : September, 2016	A-10
Print Sheet : A3' Size	





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



Government Of Nepal
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Sanathimi, Bhaktapur, Nepal



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Project Title:

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BUILT-IN FURNITURE DETAIL

Sheet No.
2-LaLi EMC

Date : September, 2016

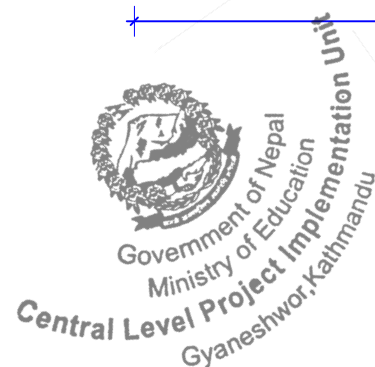
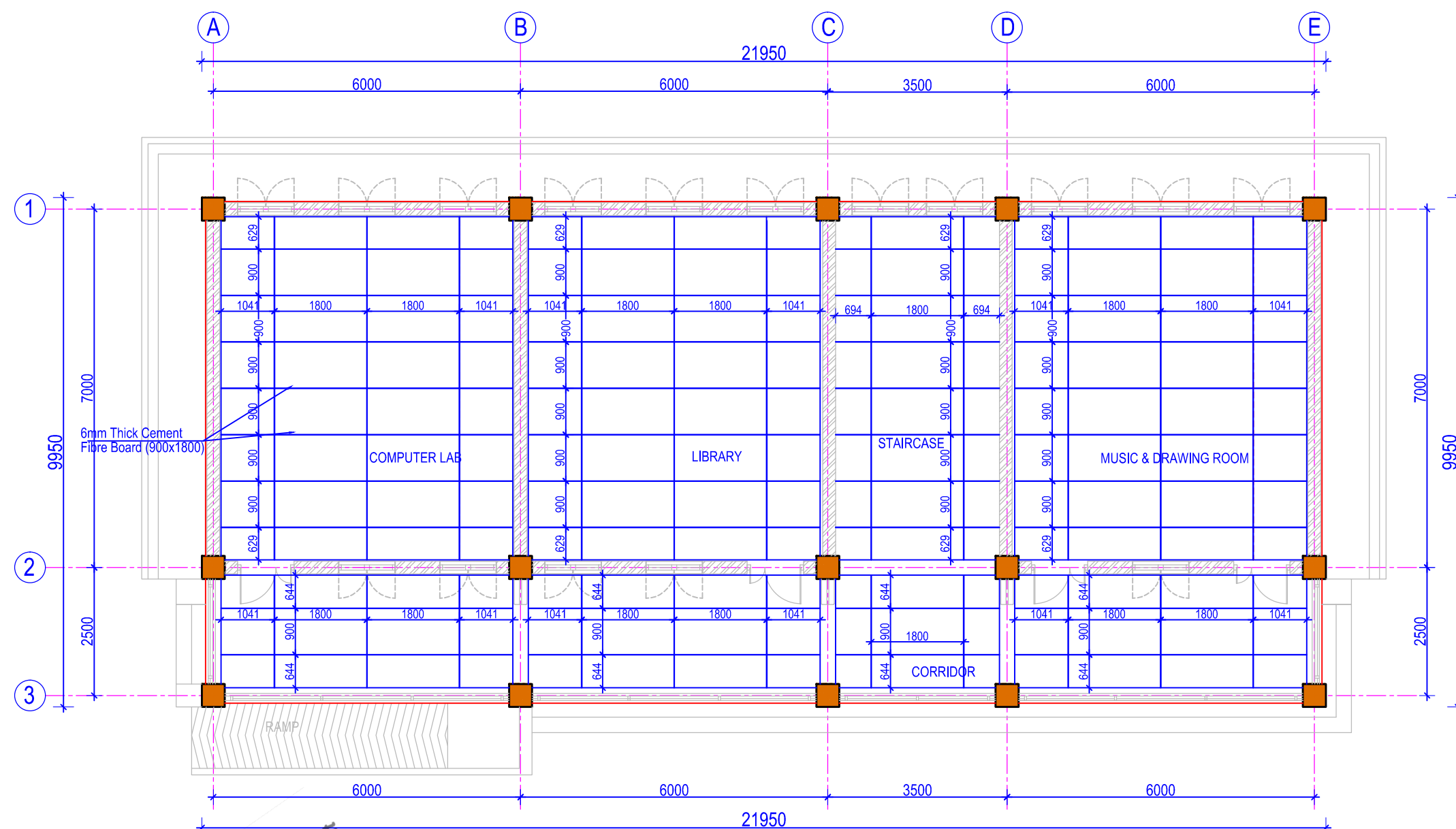
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A-11



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Type Design :
2 STOREY LABORATORY, LIBRARY, ECD
MUSIC, DRAWING & COMPUTER ROOM

Sheet Title : FALSE CEILING LAYOUT PLAN	Sheet No. 2-LaLi EMC
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Date : September, 2016	A-12
Print Sheet : A3' Size	

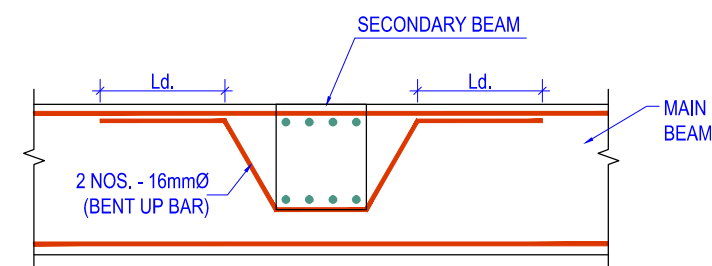
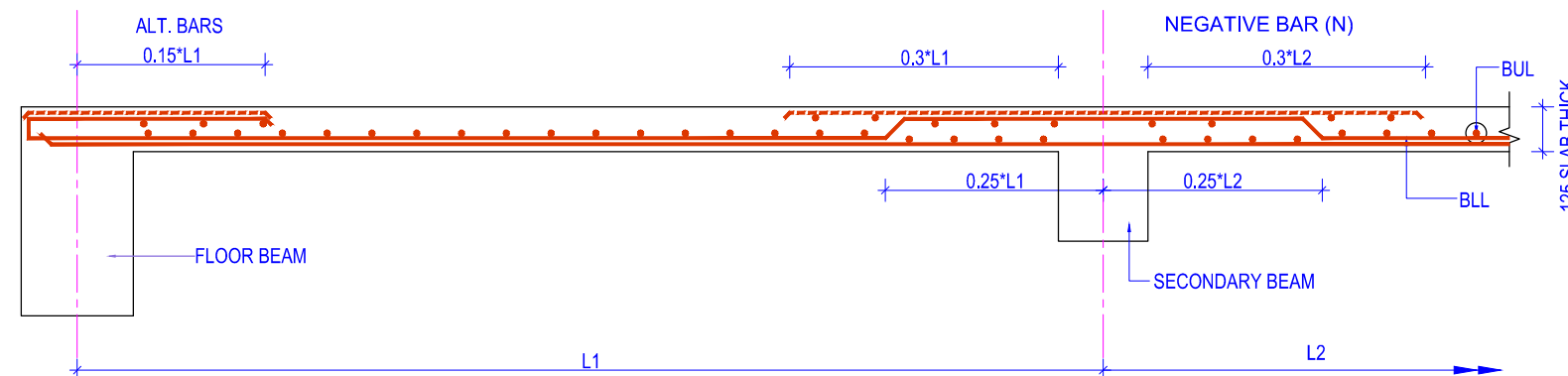
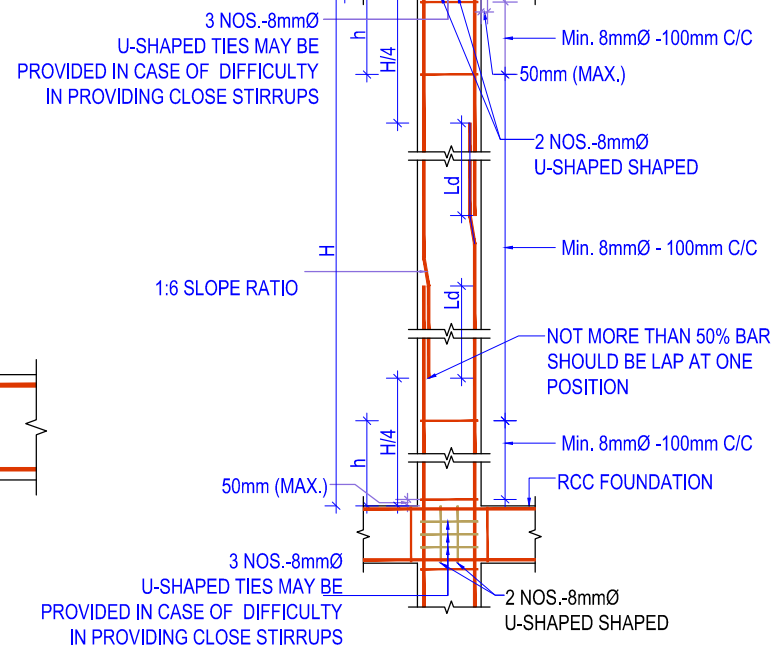
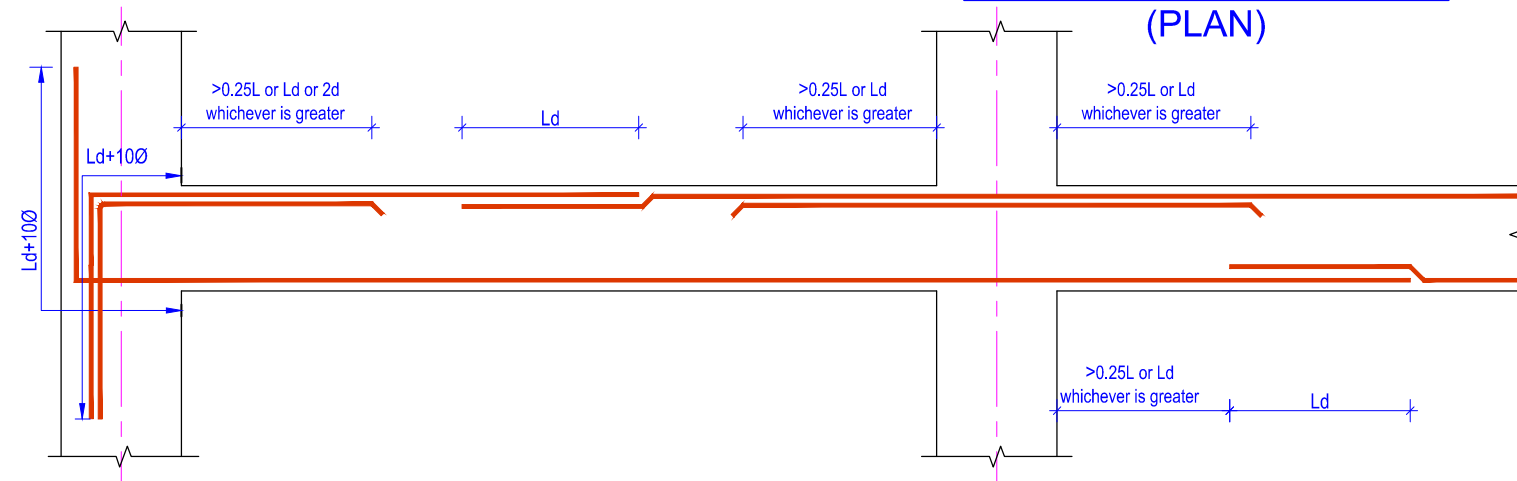
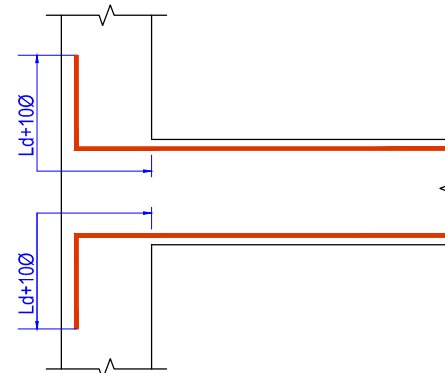
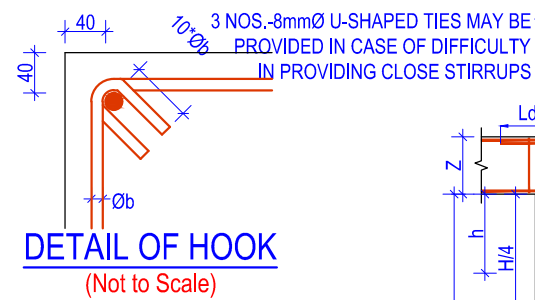
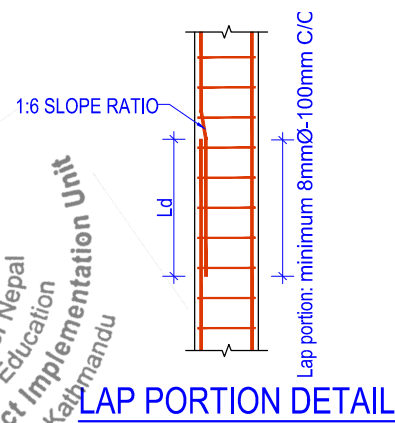
GENERAL NOTE:

- 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
- 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
- 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



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Ministry of Education
Central Level Project Implementation Unit
Gyaneshwor, Kathmandu



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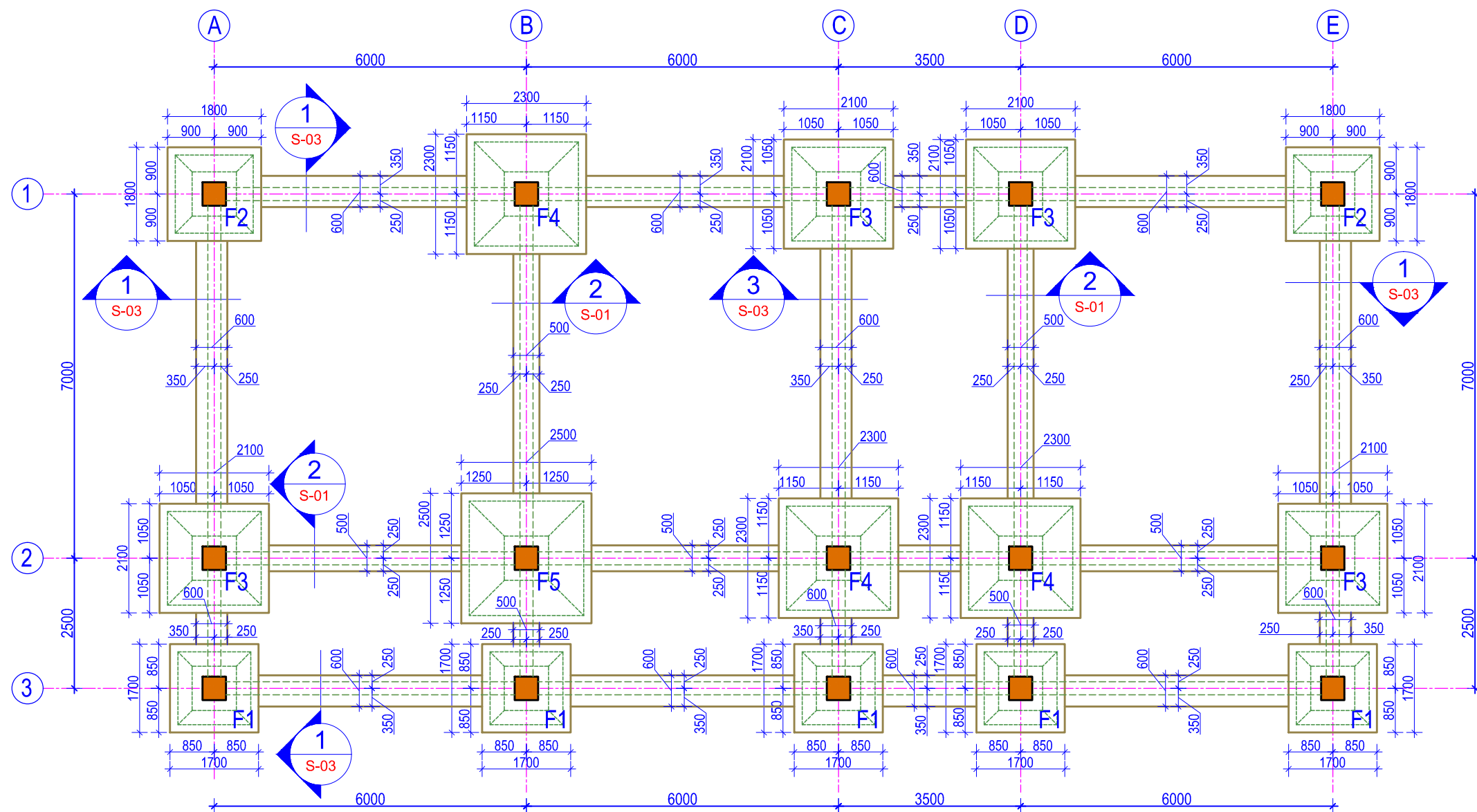
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Type Design :
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Sheet Title : GENERAL NOTES & TYPICAL DETAILS	Sheet No. 2-LaLi EMC
Date : September, 2016	S-00
Print Sheet : A'3' Size	



TRENCH PLAN

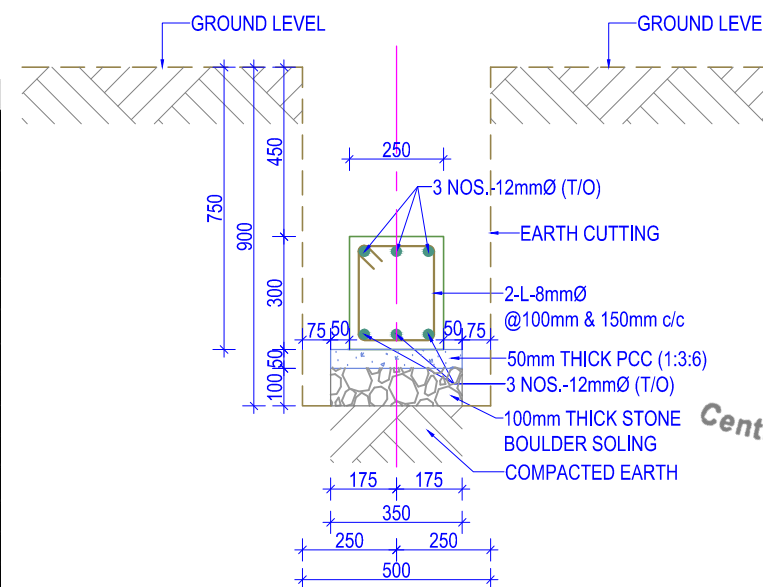
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FOOTING TABLE

S.N.	FOOTING	LENGTH	BREADTH	DEPTH
1	F1	1400	1400	450
2	F2	1500	1500	450
3	F3	1800	1800	450
4	F4	2000	2000	450
5	F5	2200	2200	450

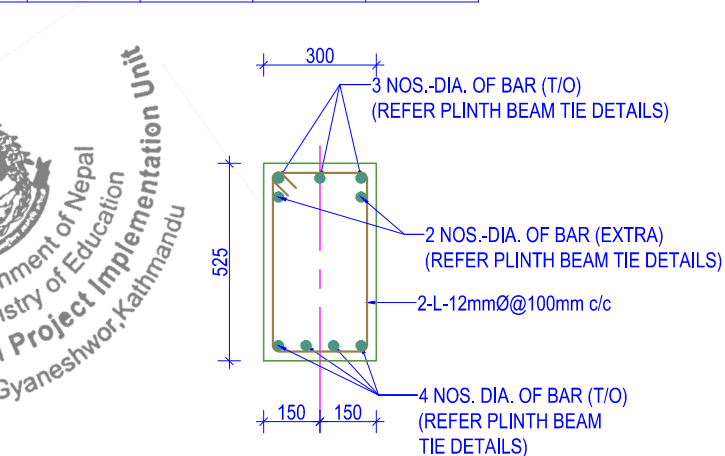
Footing Design for 3-9C(S)

Soil Bearing Capacity	Grid	Foundation Size L x B (mm)	Thickness (mm)	Reinforcement Each way (AS)
Above 180 kN/m ²	A1, B1, C1, D1, E1, A2, C2, D2, E2, A3, B3, C3, D3, E3	1400 x 1400	450	12Ø - 150 c/c
	B2	1800 x 1800	450	12Ø - 150 c/c
101-180 kN/m ²	A3, B3, C3, D3, E3	1400 x 1400	450	12Ø - 150 c/c
	A1, E1	1500 x 1500	450	12Ø - 150 c/c
	C1, D1, A2, E2	1800 x 1800	450	12Ø - 150 c/c
	B1, C2, D2	2000 x 2000	450	12Ø - 150 c/c
	B2	2200 x 2200	450	12Ø - 150 c/c
	A3, C3, D3, E3	1400 x 1400	450	12Ø - 150 c/c
50 - 100 kN/m ²	B3	1500 x 1500	450	12Ø - 150 c/c
	A1, E1	2200 x 2200	450	12Ø - 150 c/c
	C1, D1, A2, E2	2500 x 2500	450	12Ø - 150 c/c
	B1, C2, D2	2800 x 2800	450	12Ø - 150 c/c
	B2	3100 x 3100	450	12Ø - 150 c/c



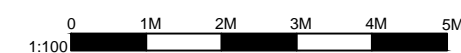
FOUNDATION BEAM TIE SECTION DETAIL AT -2

(SCALE = 1:20)



PLINTH BEAM TIE SECTION DETAIL AT -2

(SCALE = 1:20)



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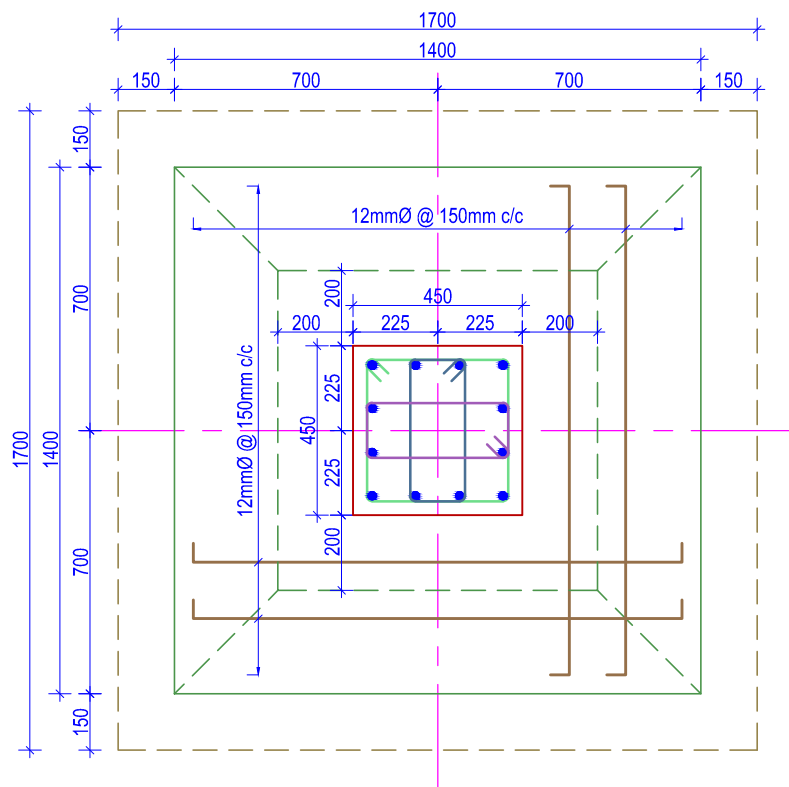
Sheet Title :
TRENCH PLAN

Sheet No.
2-LaLi EMC

Date : September, 2016

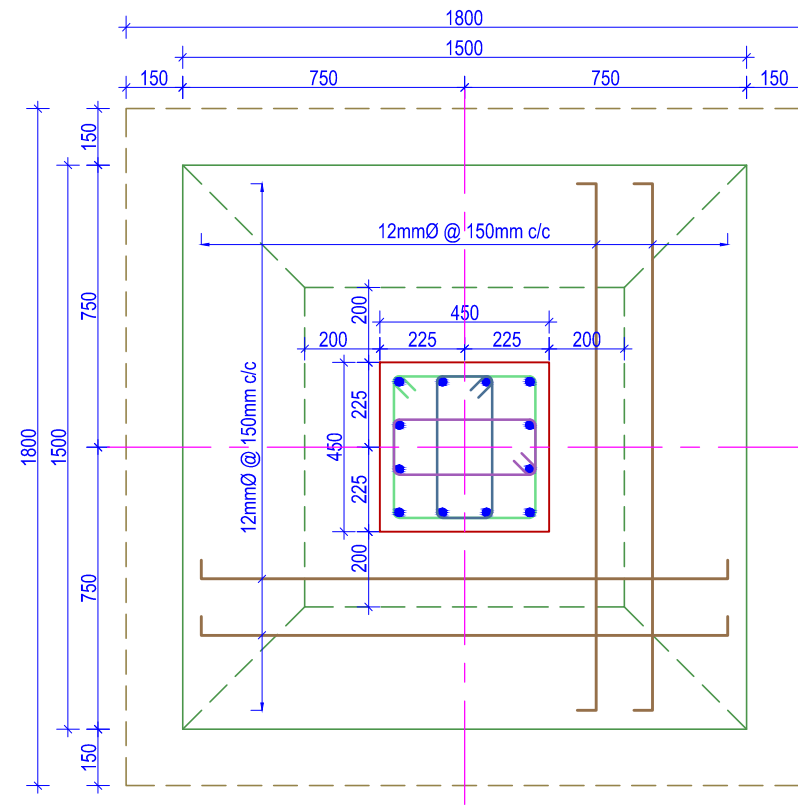
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S-01



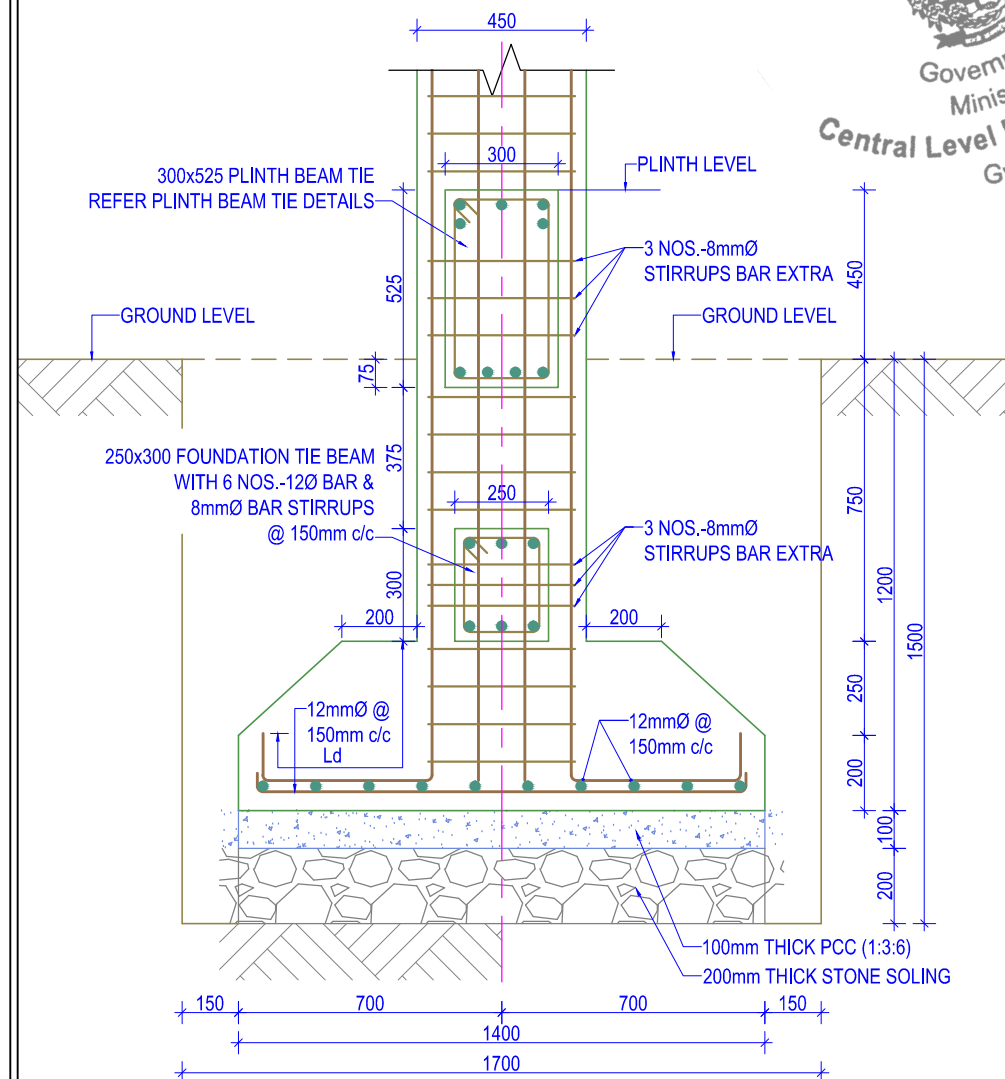
COLUMN FOOTING PLAN -F1

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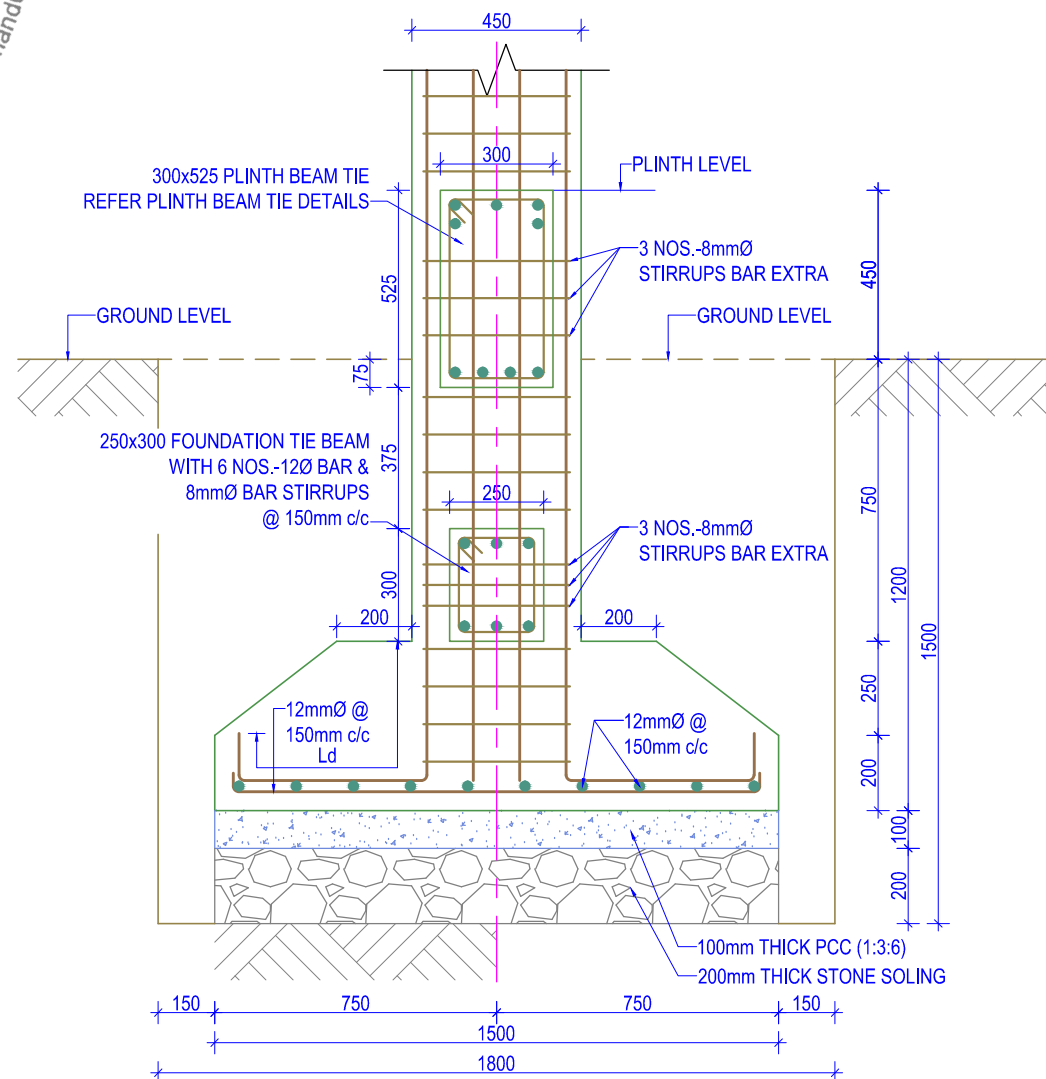
COLUMN FOOTING PLAN -F2

(Scale= 1:20)



COLUMN FOOTING SECTION -F1

(Scale= 1:20)



COLUMN FOOTING SECTION -F2

(Scale= 1:20)



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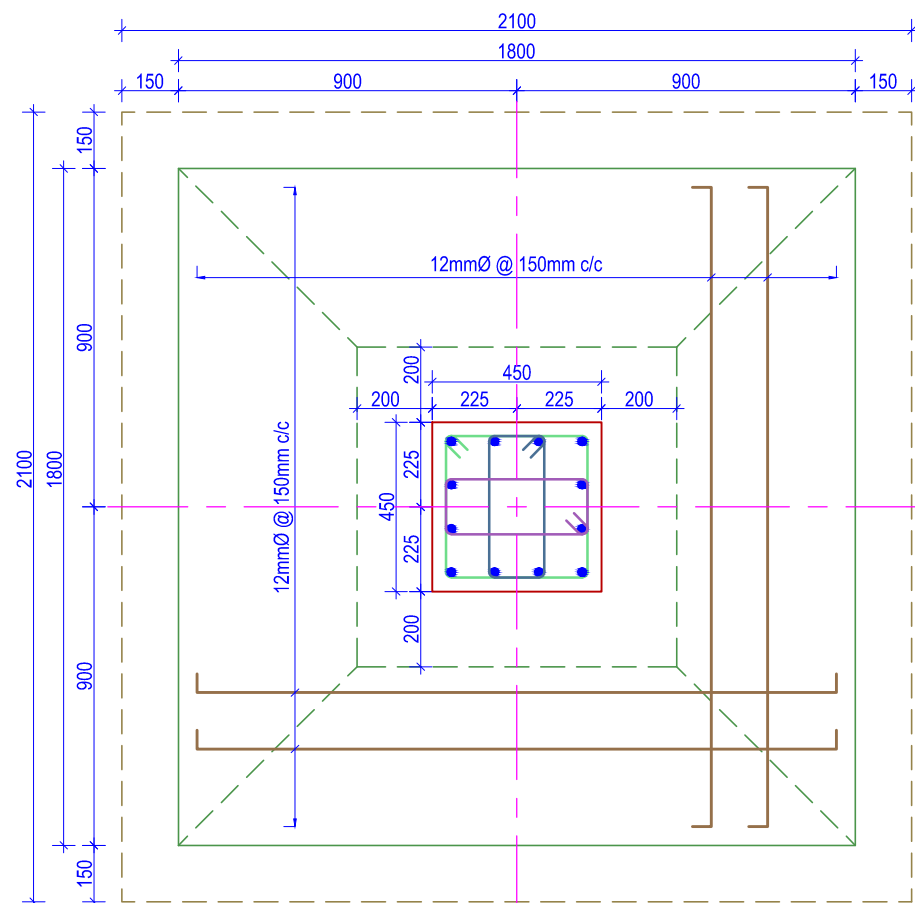
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FOOTING PLAN & SECTION,

Sheet No.
2-LaLi EMC

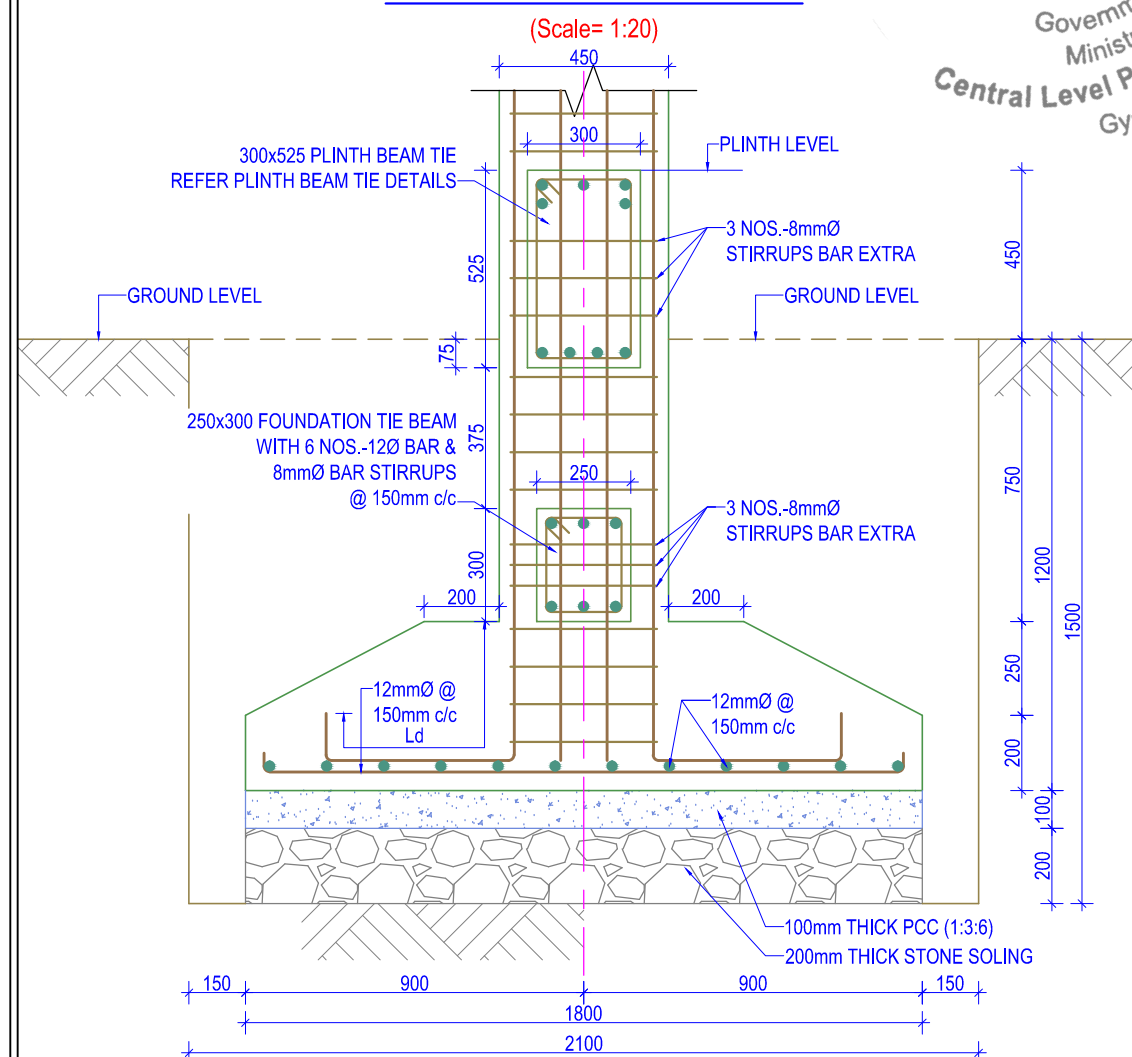
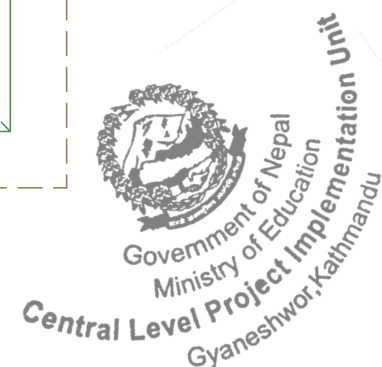
Date : September, 2016

Print Sheet : A3' Size

S-02

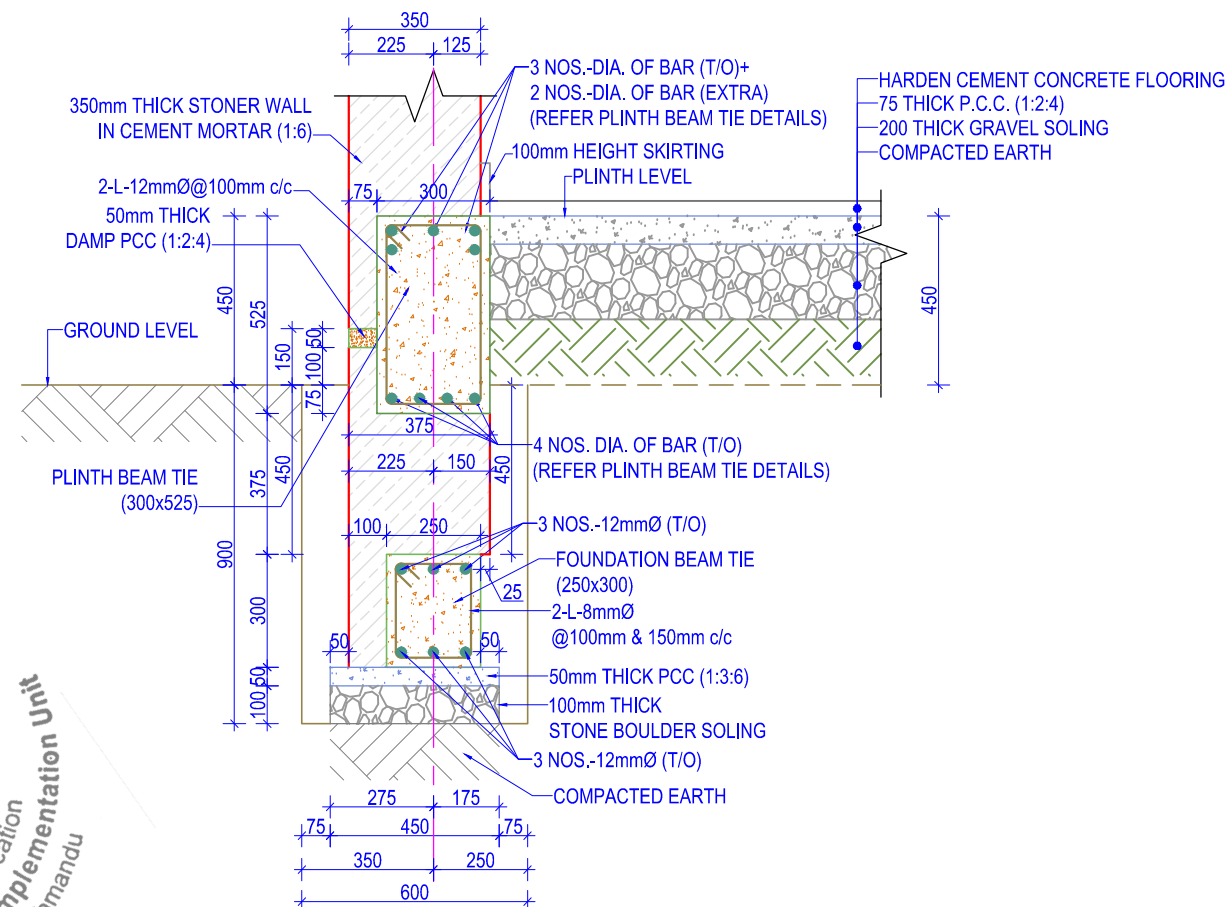


COLUMN FOOTING PLAN -F3



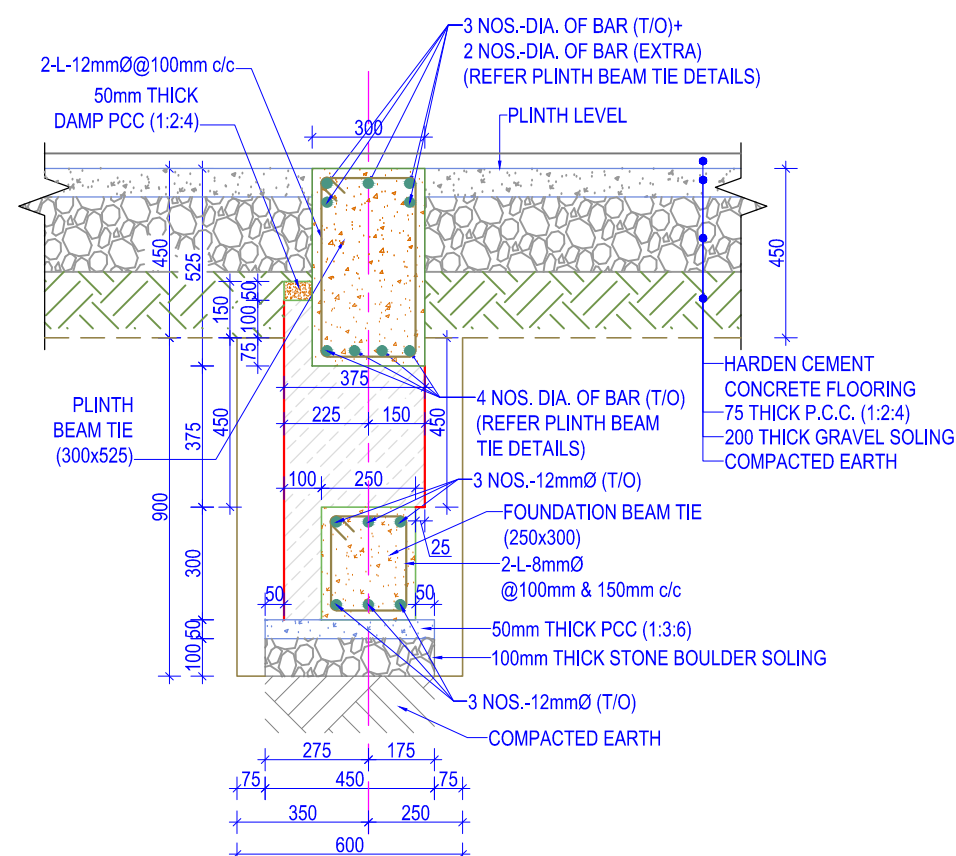
COLUMN FOOTING SECTION -F3

(Scale= 1:20)



WALL FOUNDATION DETAIL SECTION AT -1

(Scale= 1:20)



WALL FOUNDATION DETAIL SECTION AT -3

(Scale= 1:20)



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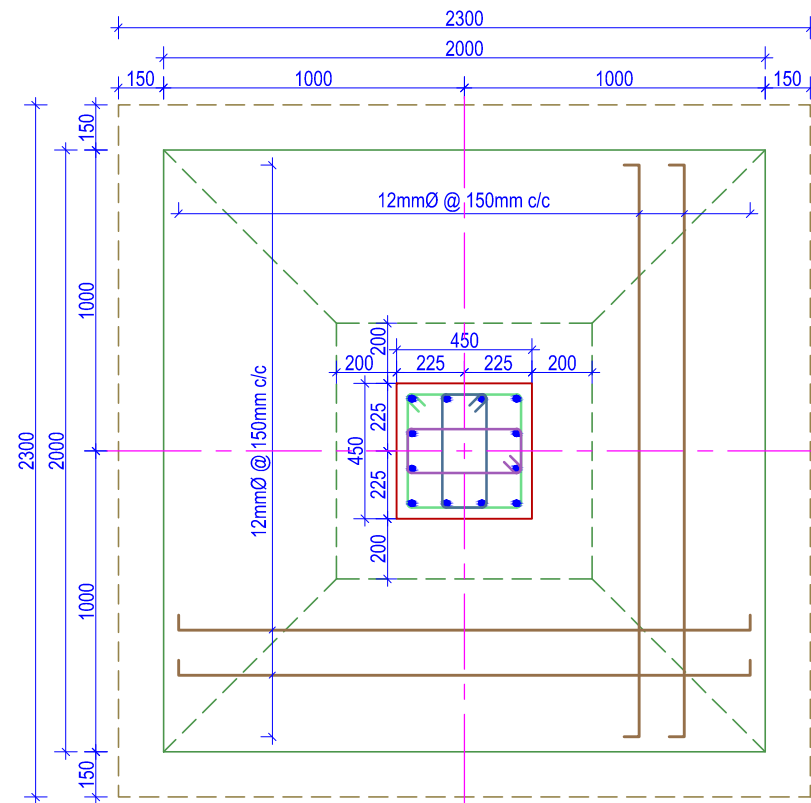
2 STOREY LABORATORY, LIBRARY, ECD, MUSIC & DRAWING AND COMPUTER ROOM

Sheet Title :	Sheet No.
FOOTING PLAN, SECTION & WALL FOUNDATION DETAILS	2-LaLi EMC

Date : September, 2016

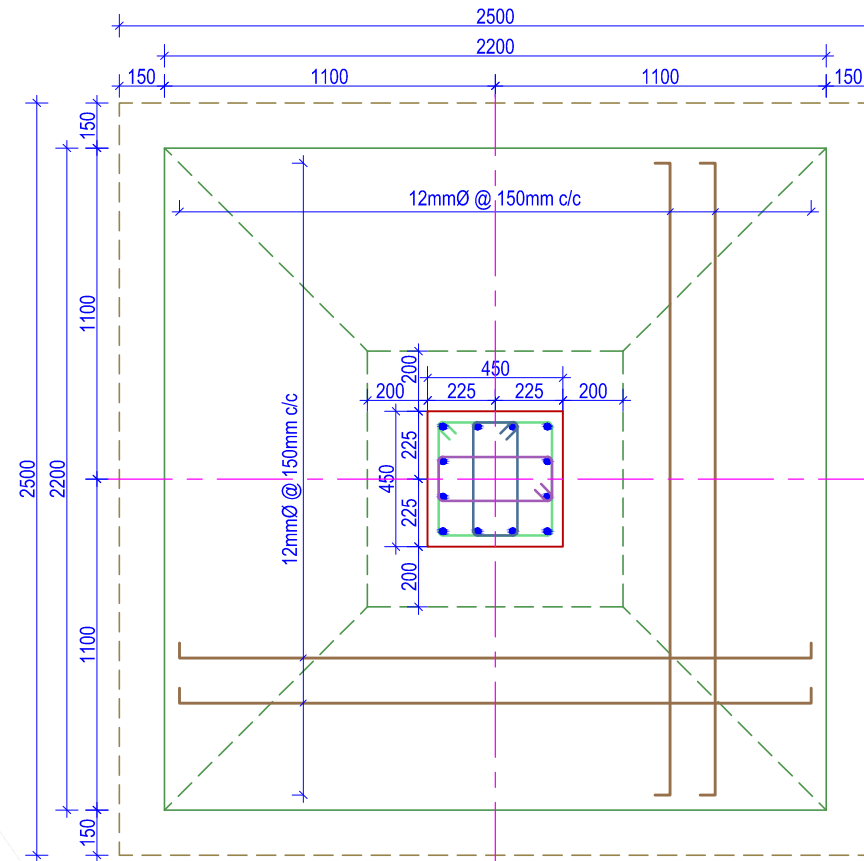
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S-03



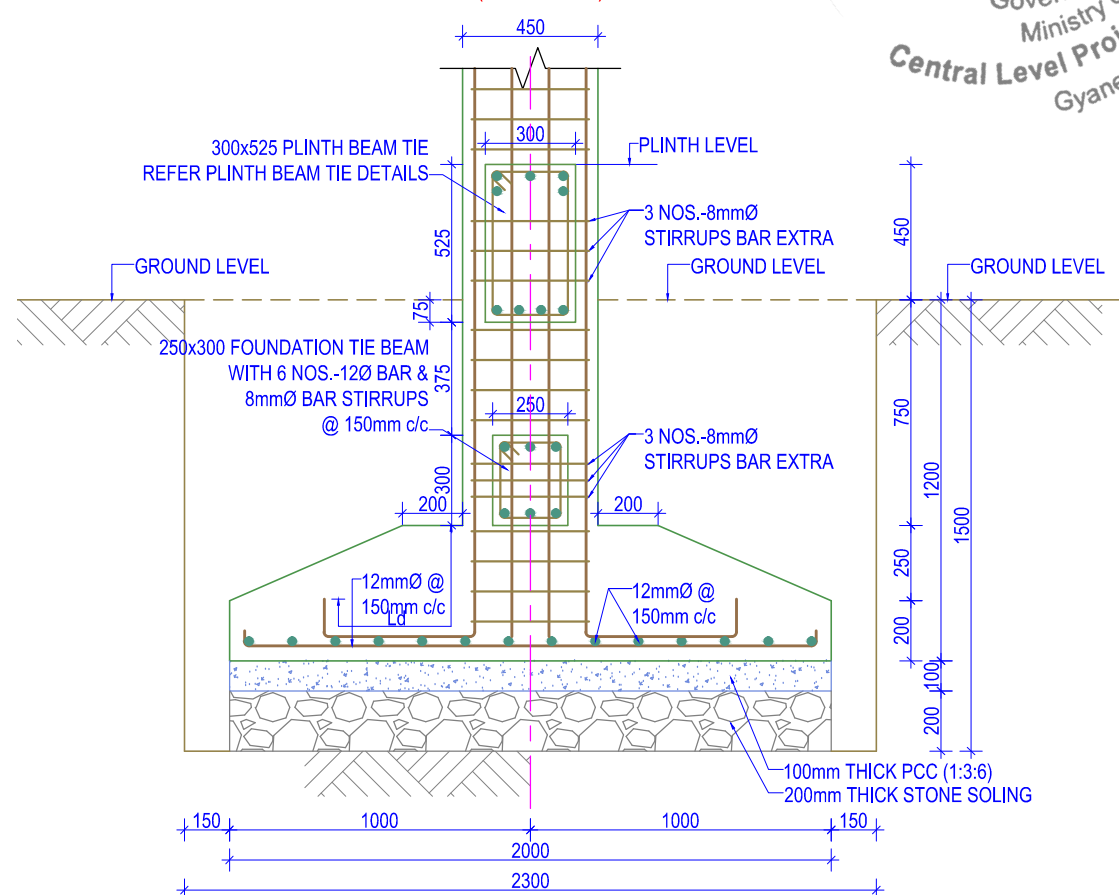
COLUMN FOOTING PLAN -F4

(Scale= 1:25)



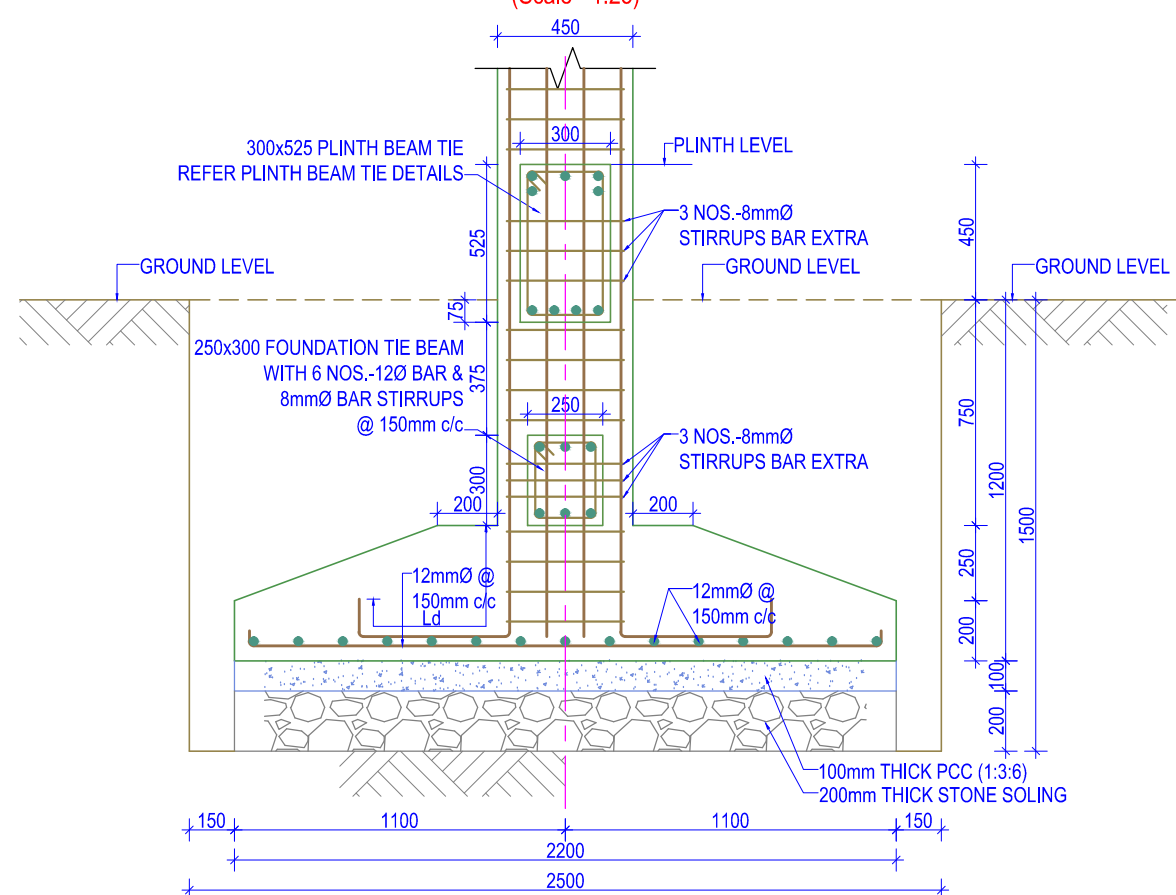
COLUMN FOOTING PLAN -F5

(Scale= 1:25)



COLUMN FOOTING SECTION -F4

(Scale= 1:25)



COLUMN FOOTING SECTION -F5

(Scale= 1:25)



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Type Design :
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Sheet Title :
FOOTING PLAN & SECTION

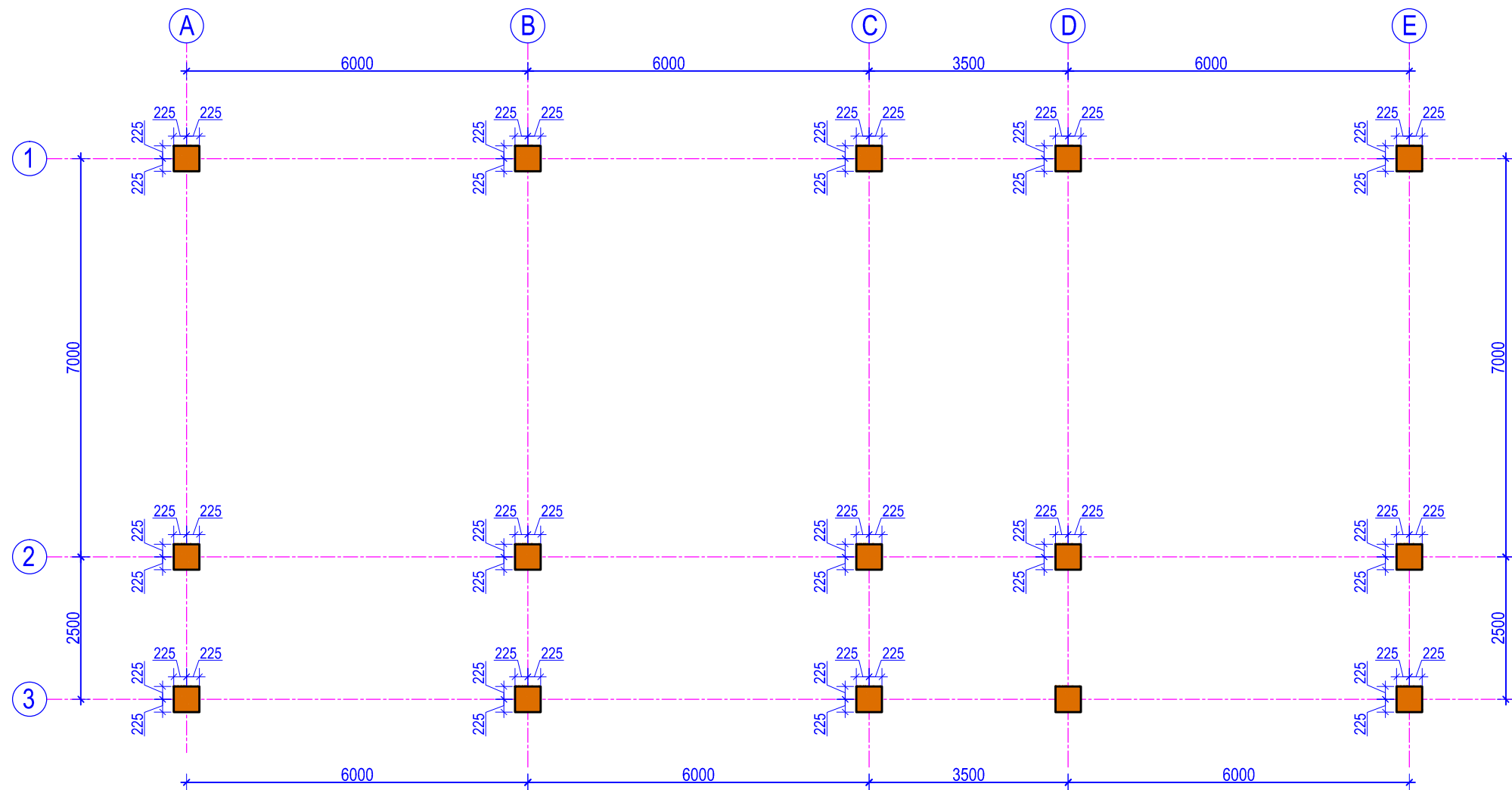
Sheet No.
2-LaLi EMC

Date : September, 2016

Print Sheet : A'3' Size

S-04





COLUMN LAYOUT PLAN

(Scale= 1:100)

COLUMN REINFORCEMENT DETAILS AT GRID -1

S. NO.	GRID	GRID -A COLUMN SIZE (450 x 450)	GRID -B COLUMN SIZE (450 x 450)	GRID -C COLUMN SIZE (450 x 450)	GRID -D COLUMN SIZE (450 x 450)	GRID -E COLUMN SIZE (450 x 450)	STIRRUPS
1	FIRST FLOOR	 12 NOS. -16mmØ	 12 NOS. -16mmØ	 8 NOS. -20mmØ 4 NOS. -16mmØ	 8 NOS. -20mmØ 4 NOS. -16mmØ	 12 NOS. -16mmØ	 8Ø@100mm/c & 150mm/c
2	GROUND FLOOR	 12 NOS. -16mmØ	 12 NOS. -16mmØ	 12 NOS. -20mmØ	 12 NOS. -20mmØ	 12 NOS. -16mmØ	 8Ø@100mm/c & 150mm/c



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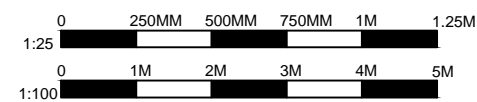
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**COLUMN LAYOUT PLAN &
DETAILS**

Sheet No.
**2-LaLi
EMC**

Date : September, 2016

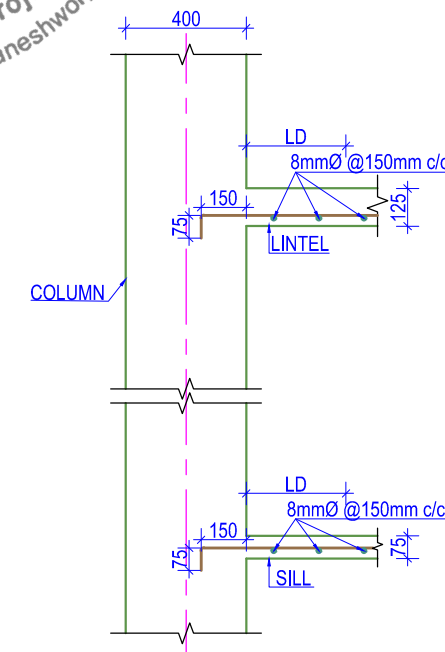
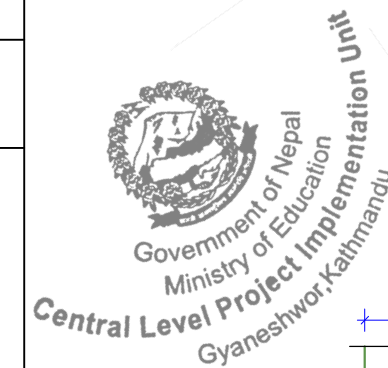
Print Sheet : A'3' Size

S-05

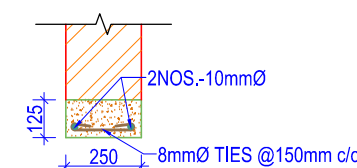


COLUMN REINFORCEMENT DETAILS AT GRID -2							
S. NO.	GRID	GRID -A COLUMN SIZE (450 x 450)	GRID -B COLUMN SIZE (450 x 450)	GRID -C COLUMN SIZE (450 x 450)	GRID -D COLUMN SIZE (450 x 450)	GRID -E COLUMN SIZE (450 x 450)	STIRRUPS
1	FIRST FLOOR						
2	GROUND FLOOR						

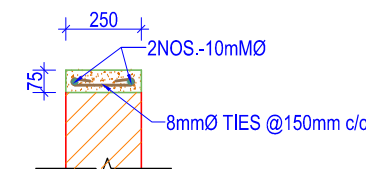
COLUMN REINFORCEMENT DETAILS AT GRID -3							
S. NO.	GRID	GRID -A COLUMN SIZE (450 x 450)	GRID -B COLUMN SIZE (450 x 450)	GRID -C COLUMN SIZE (450 x 450)	GRID -D COLUMN SIZE (450 x 450)	GRID -E COLUMN SIZE (450 x 450)	STIRRUPS
1	FIRST FLOOR						
2	GROUND FLOOR						



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

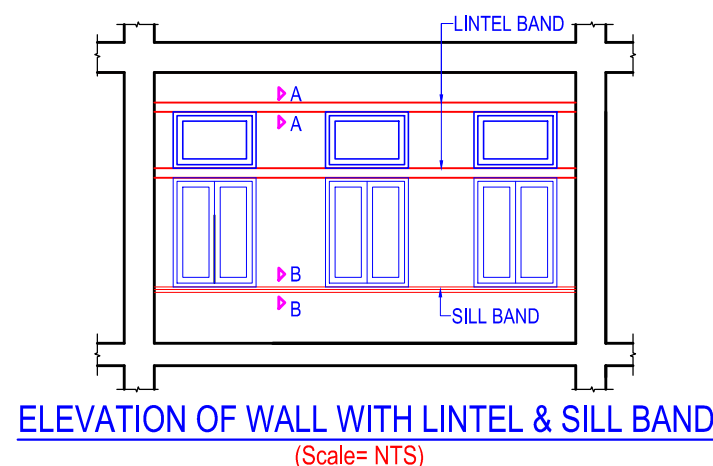


X-SECTION OF LINTEL BAND AT A-A
(Scale= 1:25)

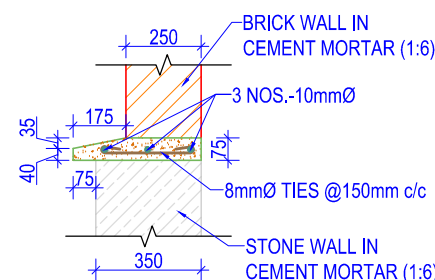


X-SECTION OF SILL BAND AT B-B
(Scale= 1:25)

CO



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



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

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Mr. Wong Kuok Hung	Mr. S. Malla

Type Design :
2 STOREY LABORATORY, LIBRARY, ECD, MUSIC &
DRAWING AND COMPUTER ROOM

Sheet Title :
COLUMN DETAILS,
SILL & LINTEL DETAILS

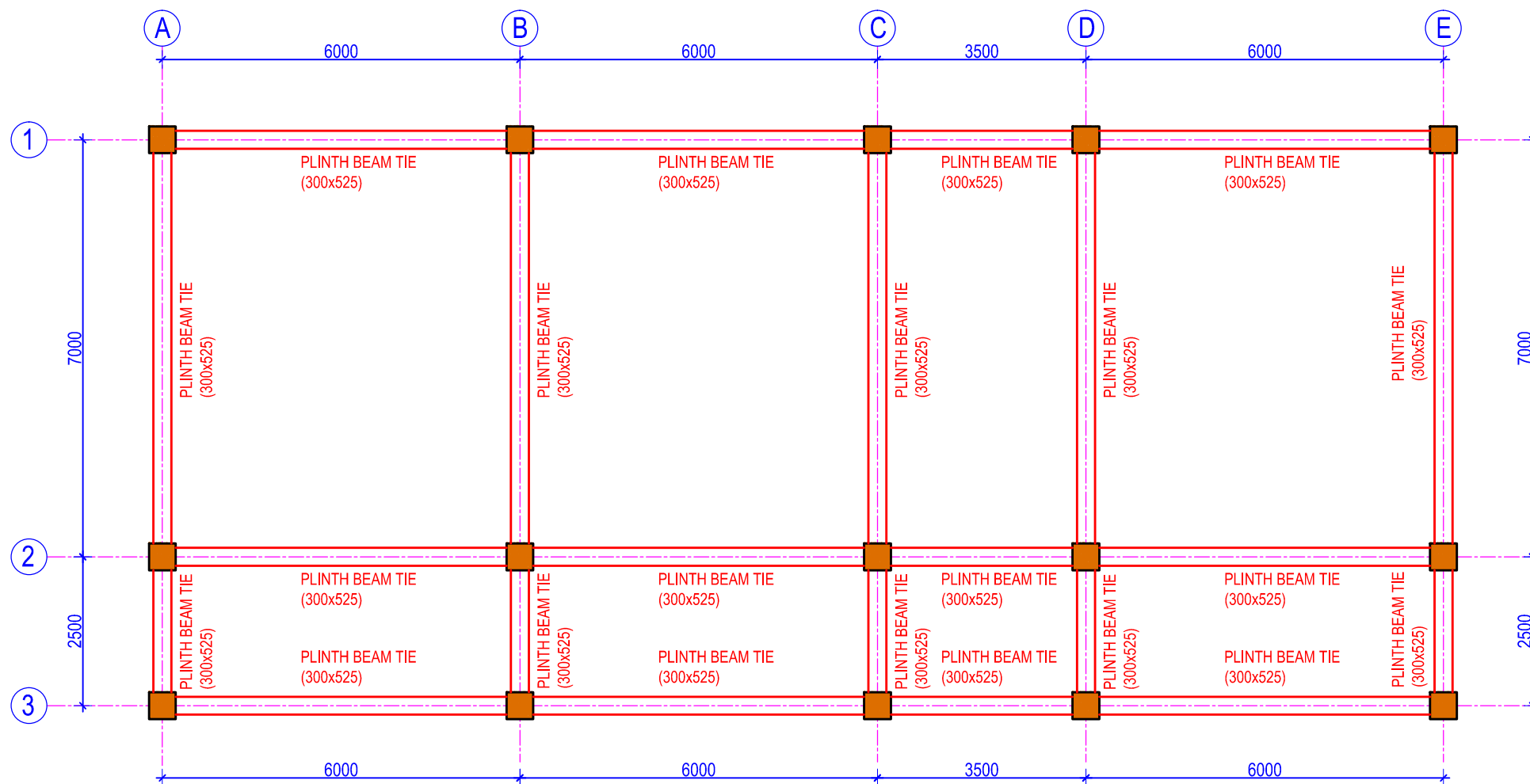
Sheet No.
2-LaLi
EMC

Date : September, 2016

Print Sheet : A'3' Size

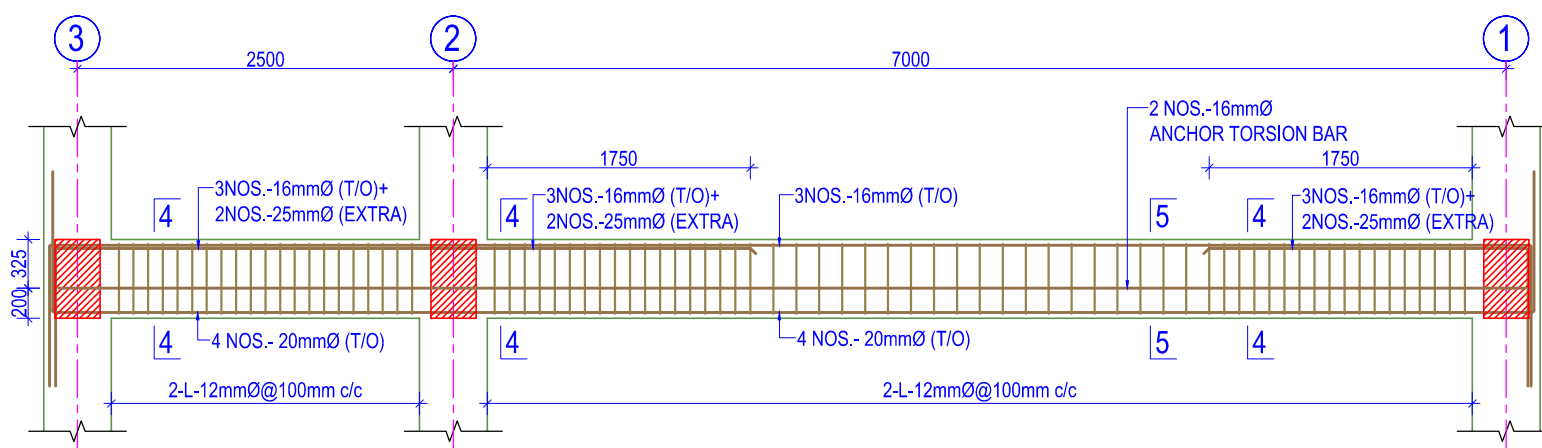
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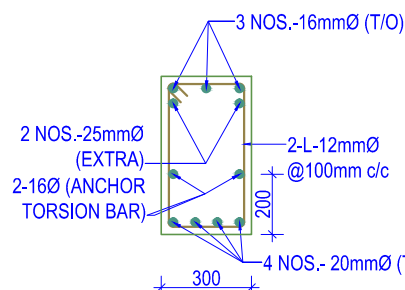
PLINTH BEAM TIE PLAN AT PLINTH LEVEL

(Scale= 1:100)



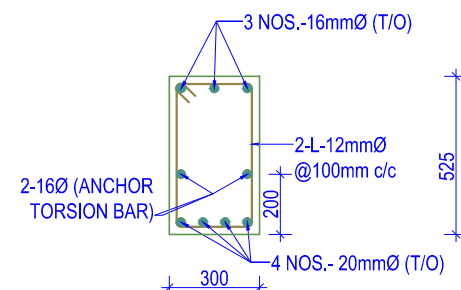
PLINTH BEAM TIE DETAIL ALONG GRID AT -A, B, C, D & E

(SCALE = 1:50)



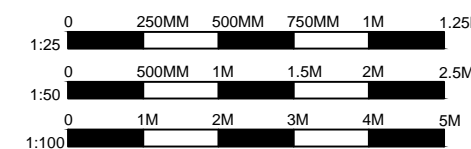
SECTION -4-4

(SCALE = 1:25)



SECTION -5-5

(SCALE = 1:25)



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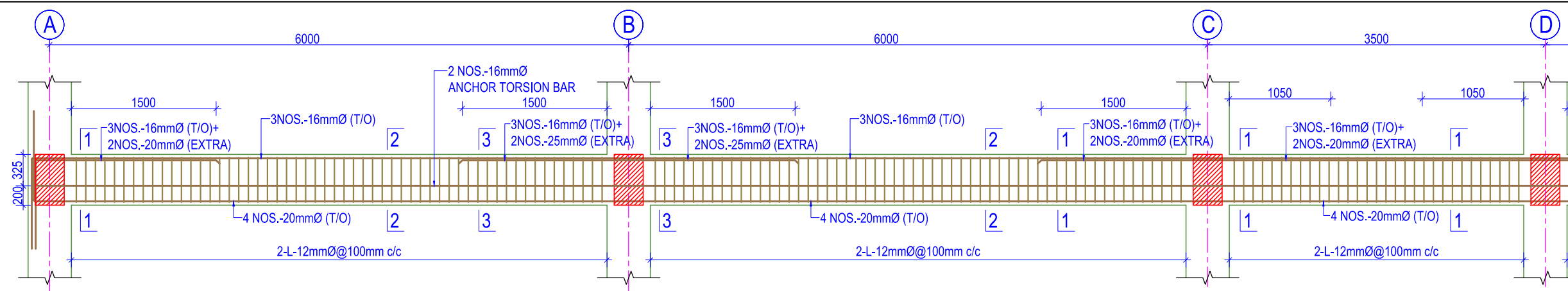
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Type Design :
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DRAWING AND COMPUTER ROOM

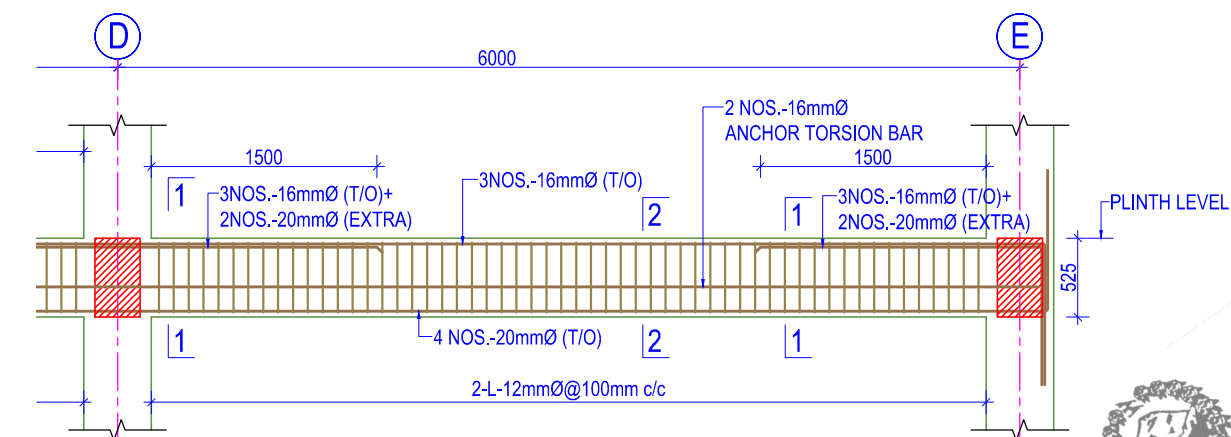
Sheet Title : PLINTH BEAM TIE PLAN & DETAILS	Sheet No. 2-LaLi EMC
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Date : September, 2016	S-07
Print Sheet : A'3' Size	



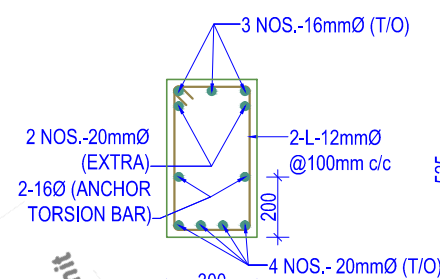
PLINTH BEAM TIE DETAIL ALONG GRID AT -1

(SCALE = 1:50)



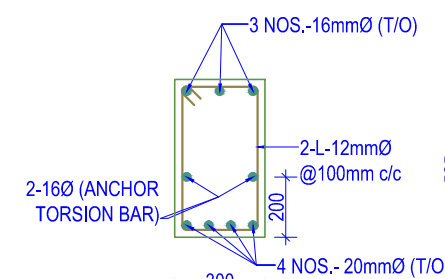
PLINTH BEAM TIE DETAIL ALONG GRID AT -1

(SCALE = 1:50)



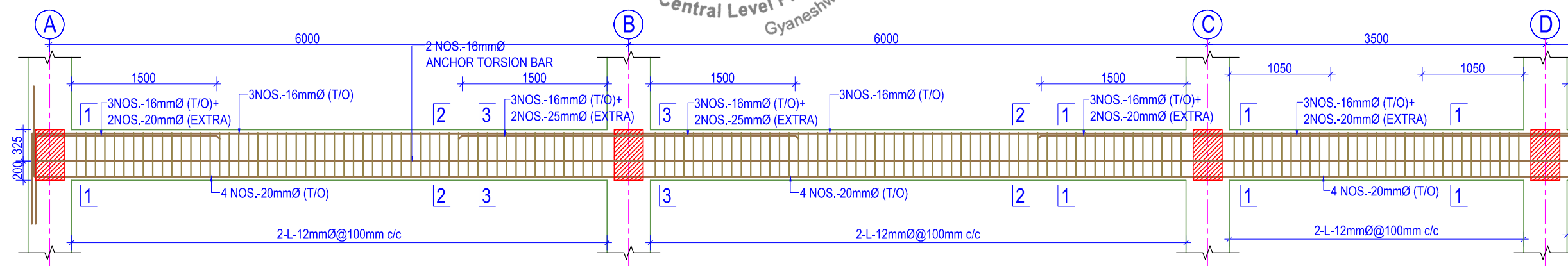
SECTION -1-1

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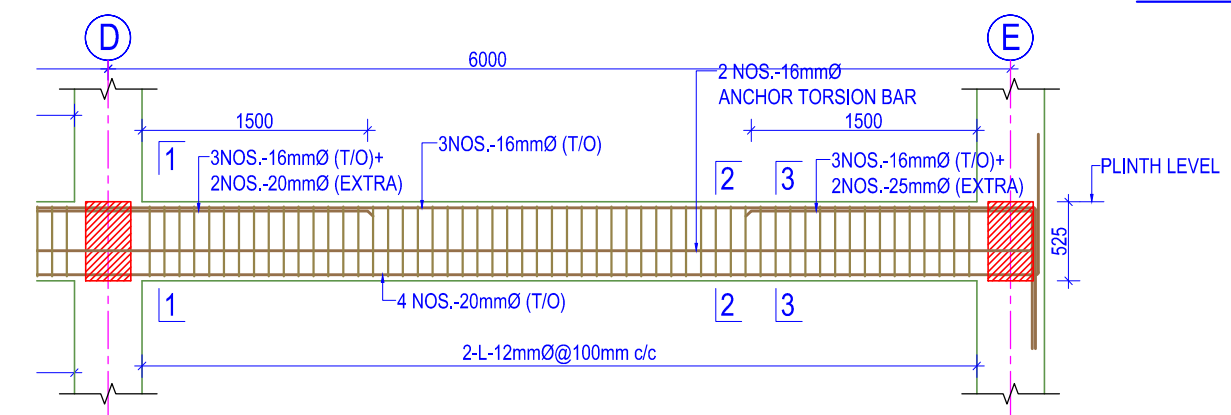
SECTION -2-2

(SCALE = 1:25)



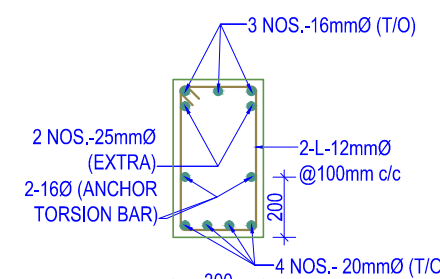
PLINTH BEAM TIE DETAIL ALONG GRID AT -2 & 3

(SCALE = 1:50)



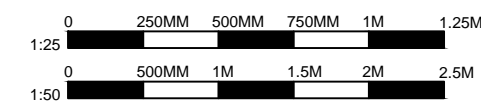
PLINTH BEAM TIE DETAIL ALONG GRID AT -2 & 3

(SCALE = 1:50)



SECTION -3-3

(SCALE = 1:25)



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Type Design :
2 STOREY LABORATORY, LIBRARY, ECD, MUSIC &
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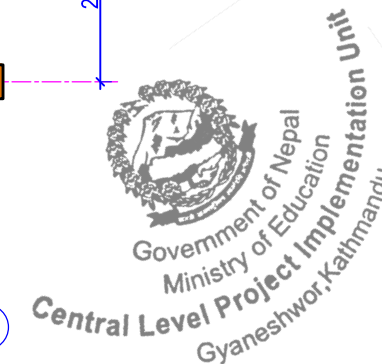
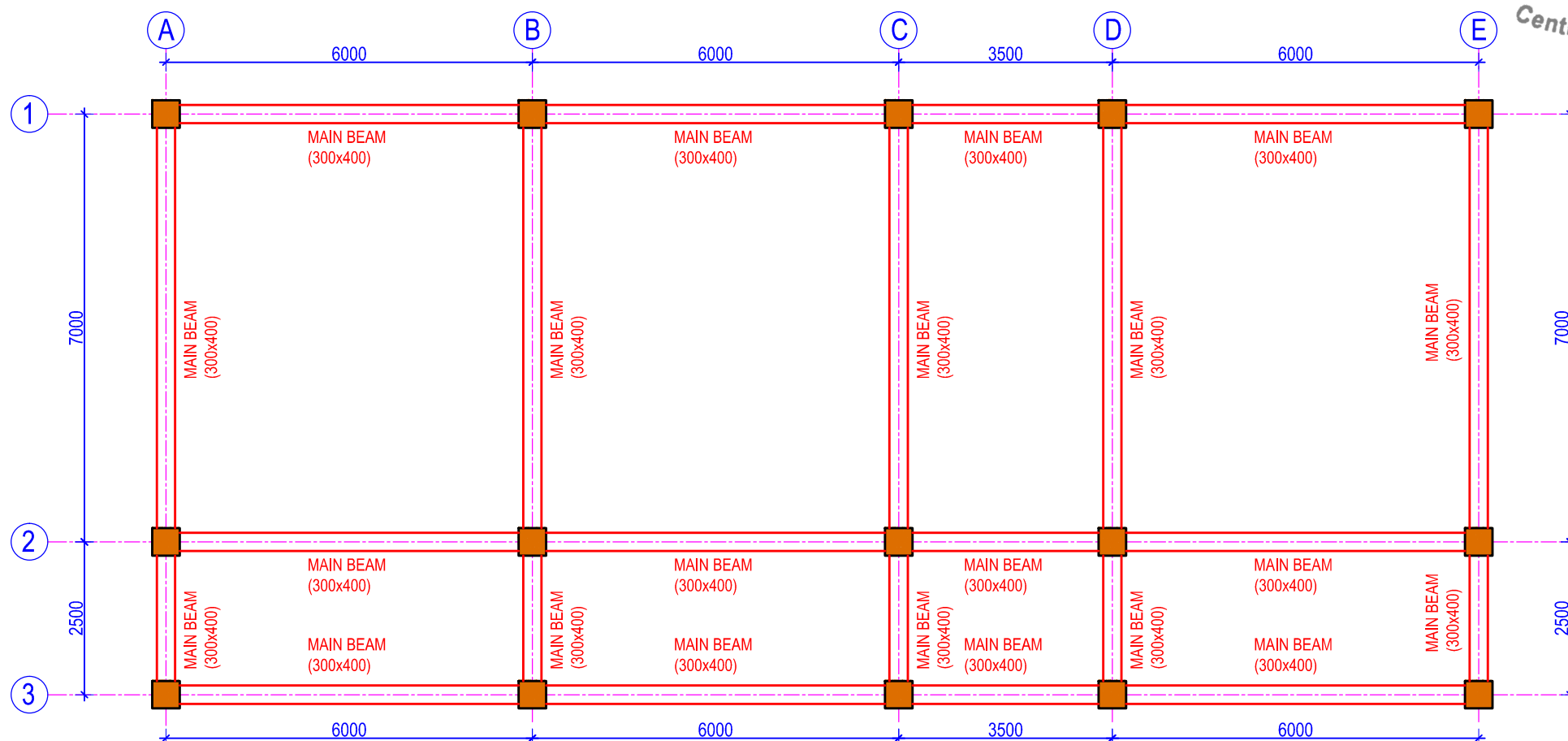
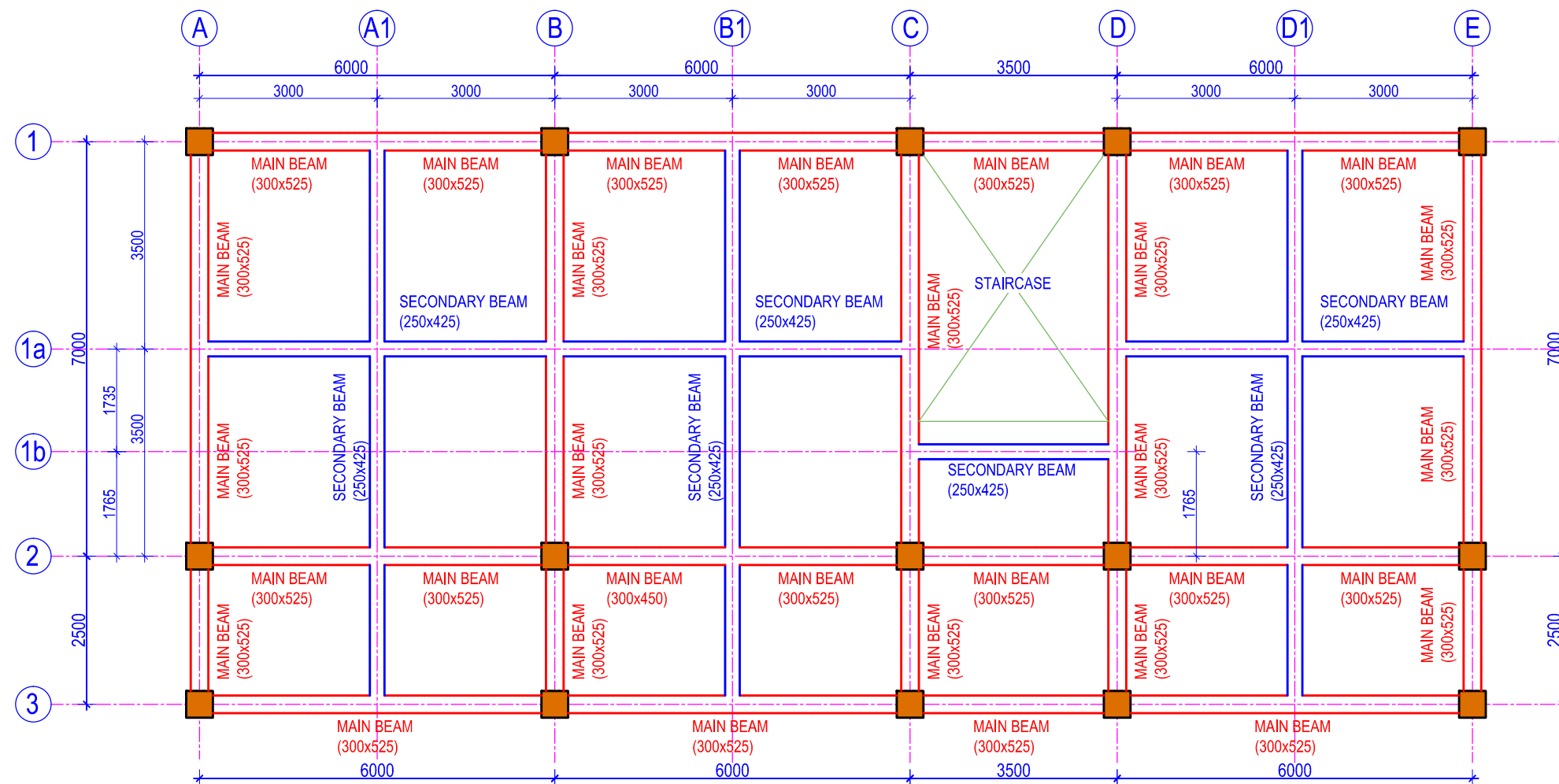
Sheet Title :
PLINTH BEAM TIE DETAILS

Sheet No.
2-LaLi
EMC

Date : September, 2016

Print Sheet : A3' Size

S-08



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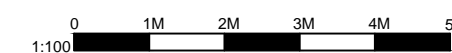
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Tel: 9771-4373316, Fax: 4650203, email: hbgewe@gmail.com

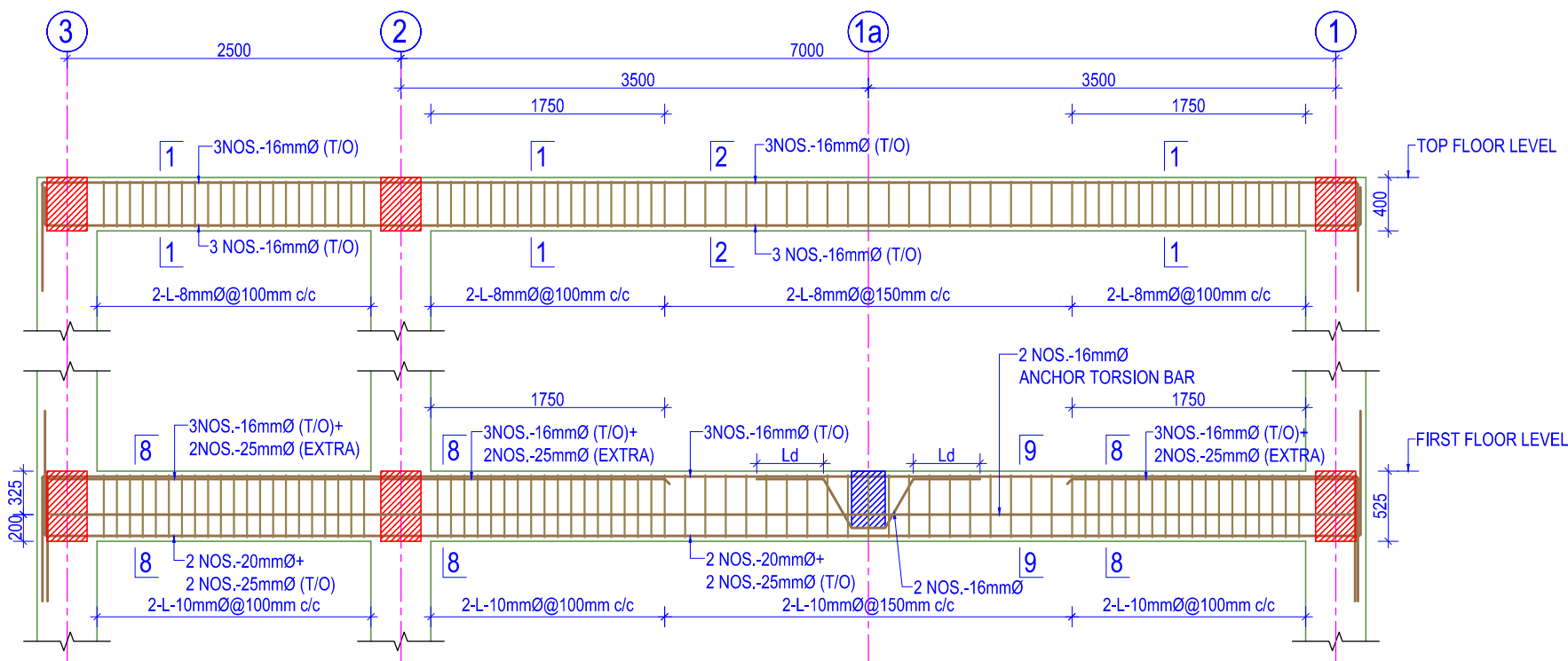
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Type Design :
2 STOREY LABORATORY, LIBRARY, ECD, MUSIC &
DRAWING AND COMPUTER ROOM

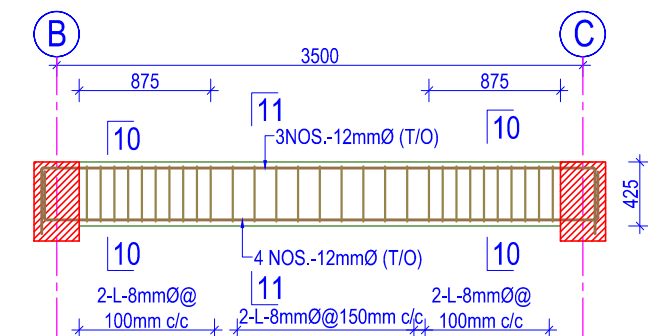
Sheet Title : BEAM PLANS (FIRST FLOOR & TRUSS LEVEL)	Sheet No. 2-LaLi EMC
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Date : September, 2016	S-09
Print Sheet : A'3' Size	

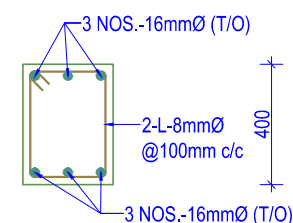




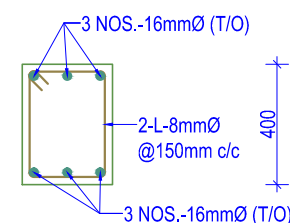
BEAM DETAIL ALONG GRID AT -A, B, C, D & E
(SCALE = 1:50)



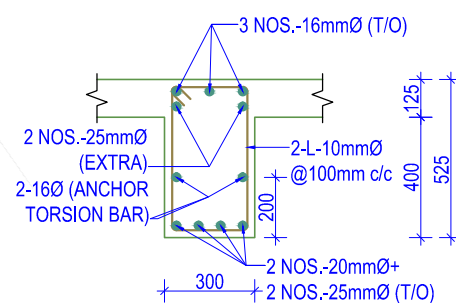
SECONDARY BEAM DETAIL ALONG GRID AT -1b
(SCALE = 1:50)



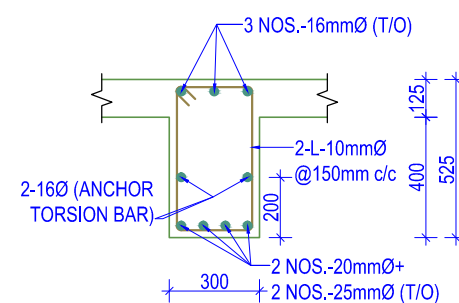
SECTION -1-1
(SCALE = 1:25)



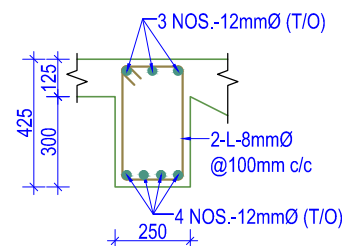
SECTION -2-2
(SCALE = 1:25)



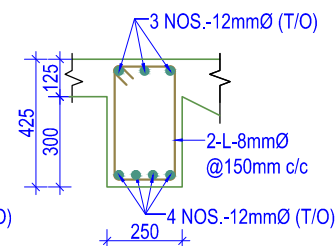
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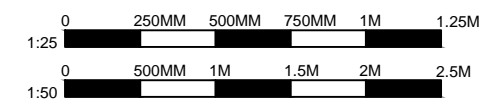
SECTION -9-9
(SCALE = 1:25)



SECTION -10-10
(Scale= 1:25)



SECTION -11-11
(Scale= 1:25)



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Type Design :

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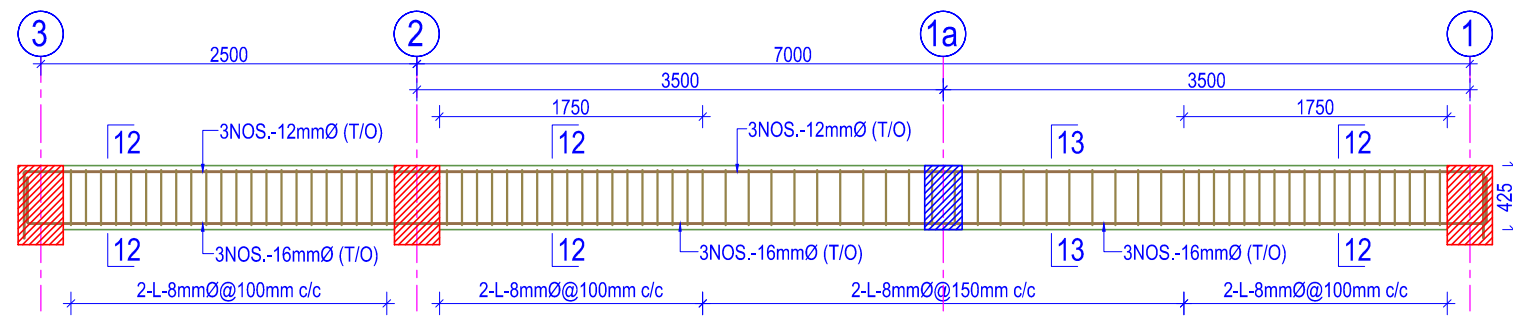
Sheet Title :
BEAM DETAILS

Sheet No.
2-LaLi EMC

Date : September, 2016

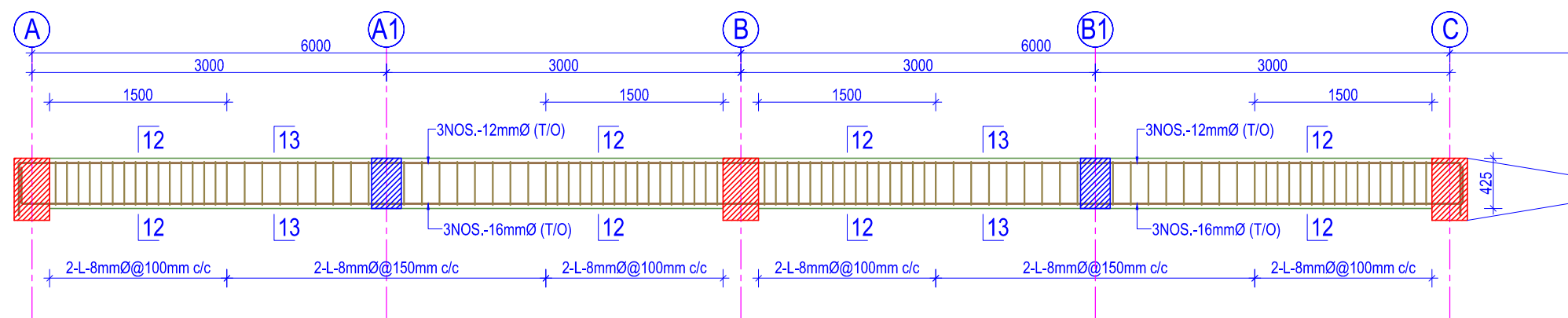
Print Sheet : A'3' Size

S-12



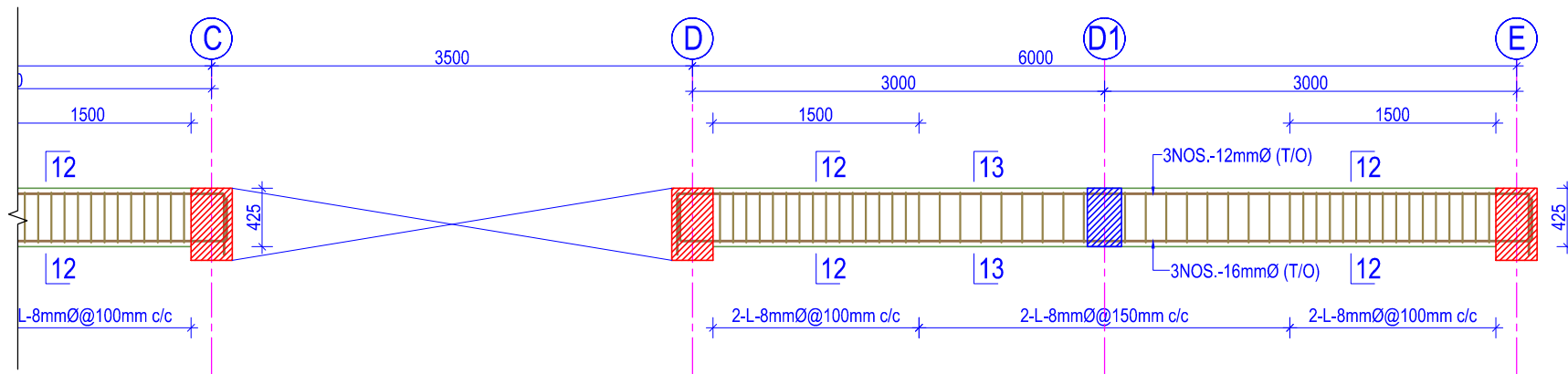
SECONDARY BEAM DETAIL ALONG GRID AT -A1, B1 & D1

(SCALE = 1:50)



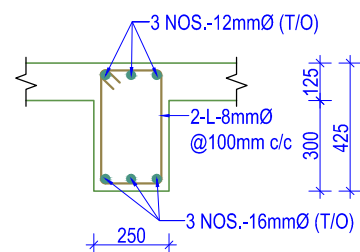
SECONDARY BEAM DETAIL ALONG GRID AT -1a

(SCALE = 1:50)



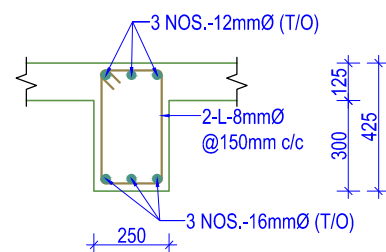
SECONDARY BEAM DETAIL ALONG GRID AT -1a

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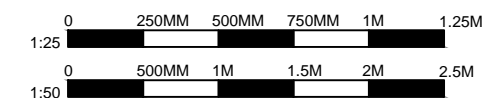
SECTION -12-12

(SCALE = 1:25)



SECTION -13-13

(SCALE = 1:25)



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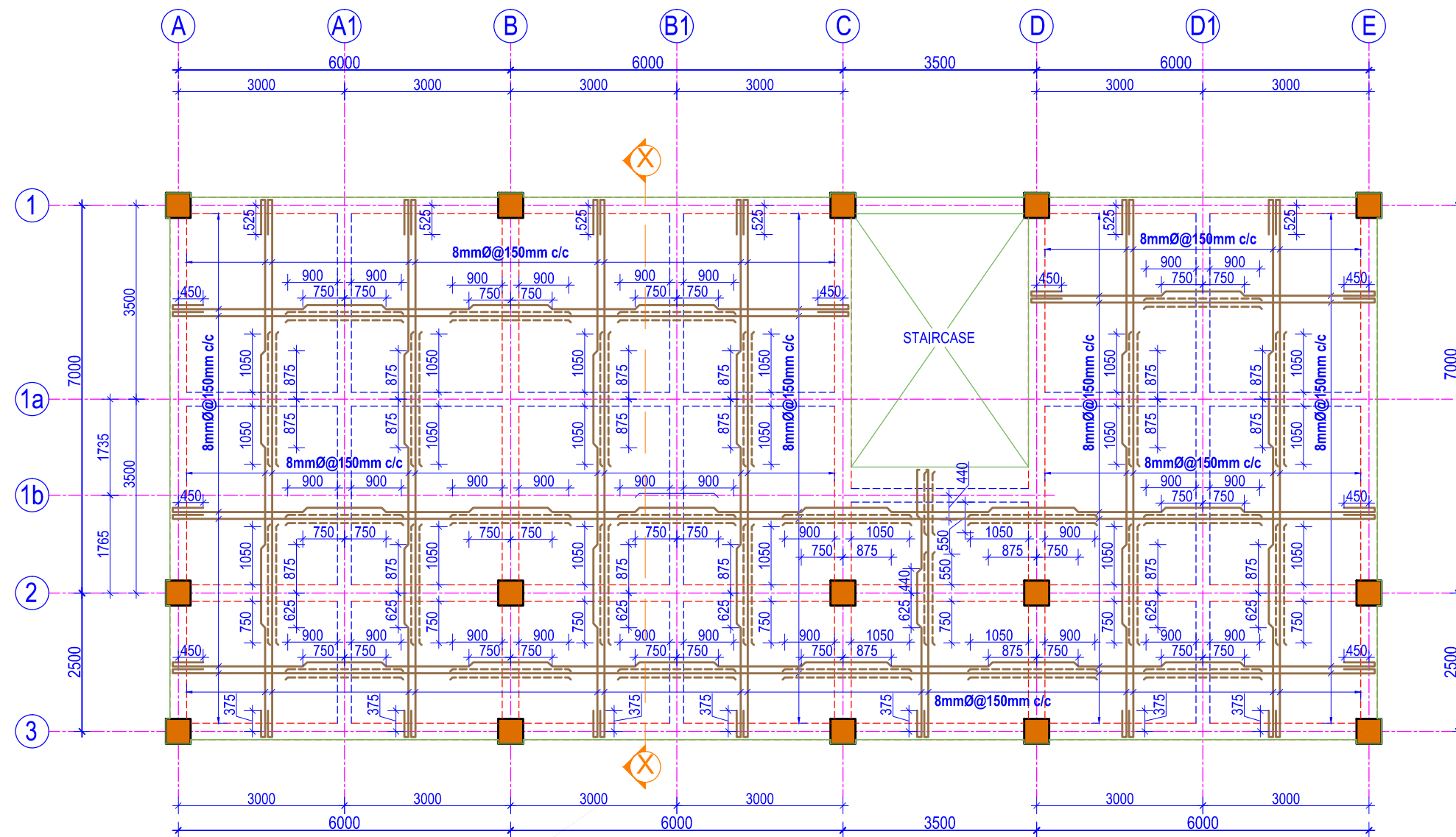
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Type Design :
2 STOREY LABORATORY, LIBRARY, ECD, MUSIC & DRAWING AND COMPUTER ROOM

Sheet Title : SECONDARY BEAM DETAILS	Sheet No. 2-LaLi EMC
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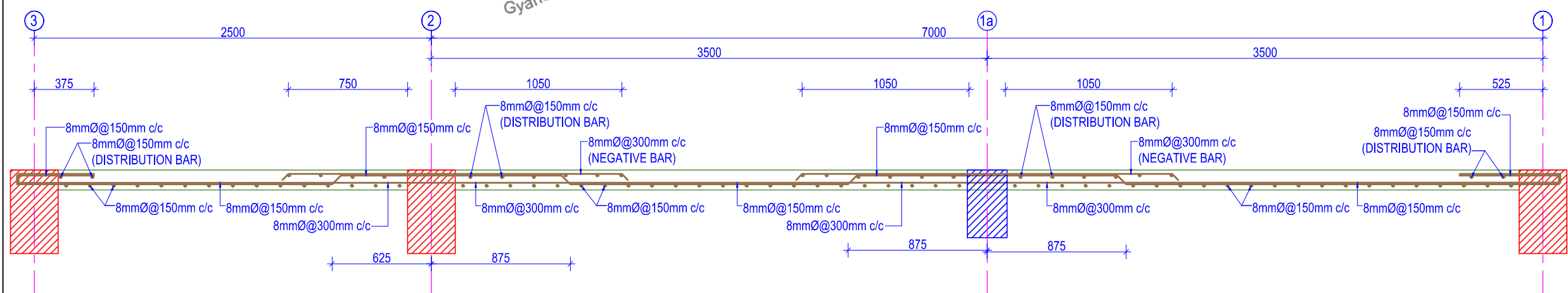
Date : September, 2016	S-13
Print Sheet : A3' Size	



SLAB REINFORCEMENT PLAN

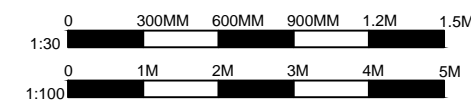
(Scale= 1:100)

SLAB THICKNESS	125mm
MAIN BAR (SHORT SPAN)	8mmØ@150mm c/c
MAIN BAR (LONG SPAN)	8mmØ@150mm c/c
NEGATIVE BAR (TOP BAR)	8mmØ@300mm c/c
DISTRIBUTION BAR	8mmØ@150mm c/c



SLAB SECTION -X-X

(SCALE = 1:30)



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Mr. Wong Kuok Hung Mr. S. Malla

Type Design :

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Sheet Title :

SLAB PLAN & SECTION (FIRST FLOOR LEVEL)

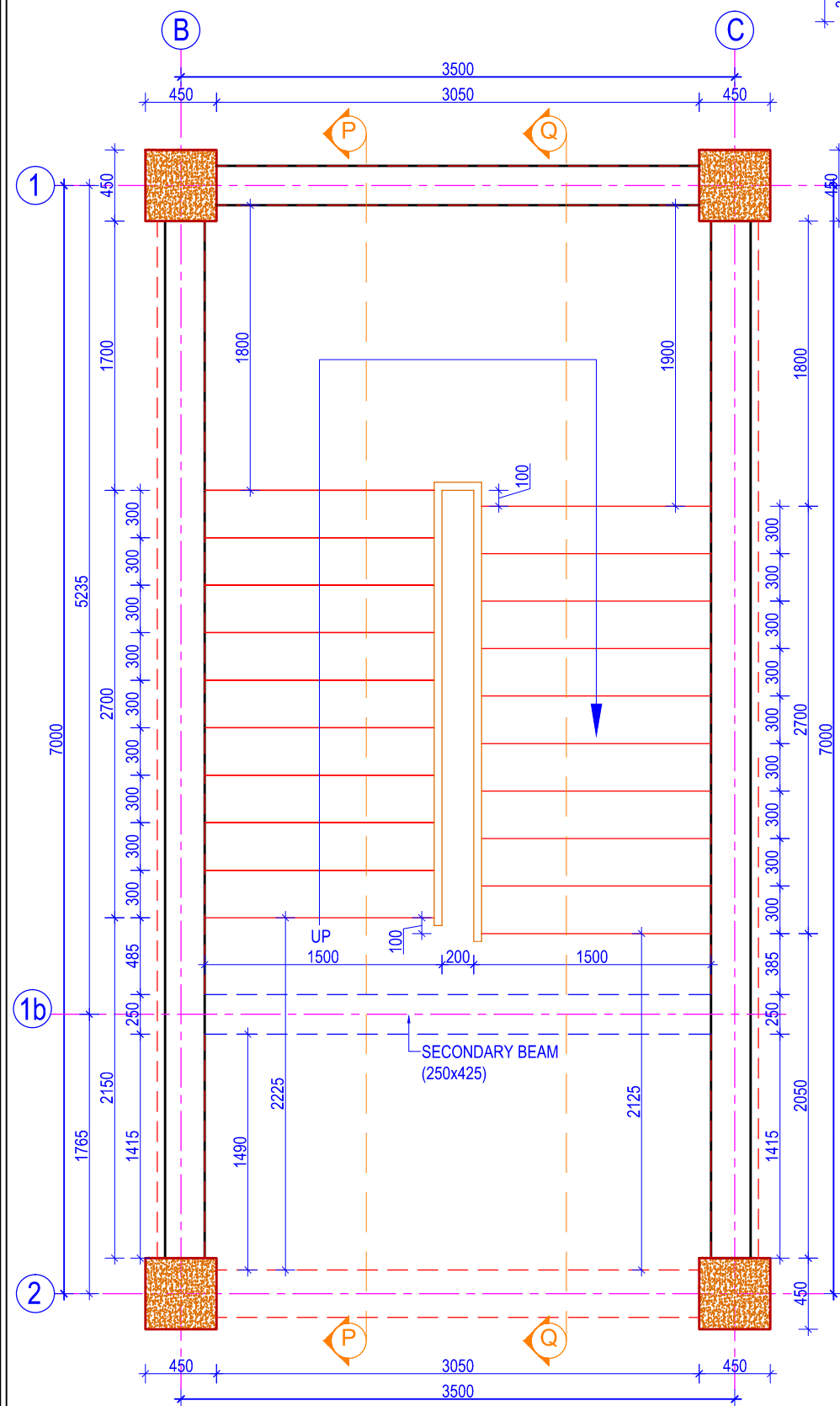
Sheet No.

2-LaLi EMC

Date : September, 2016

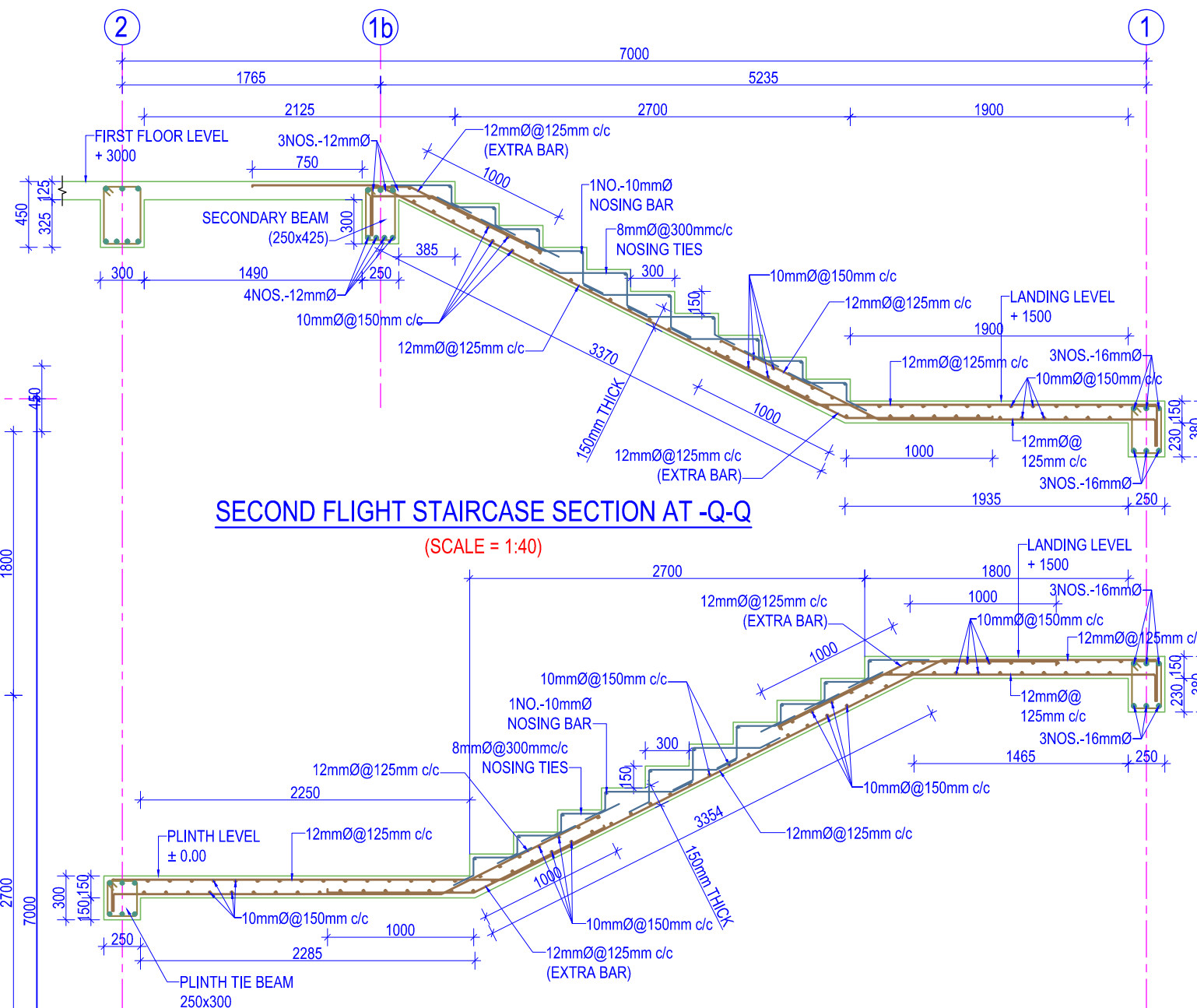
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S-14



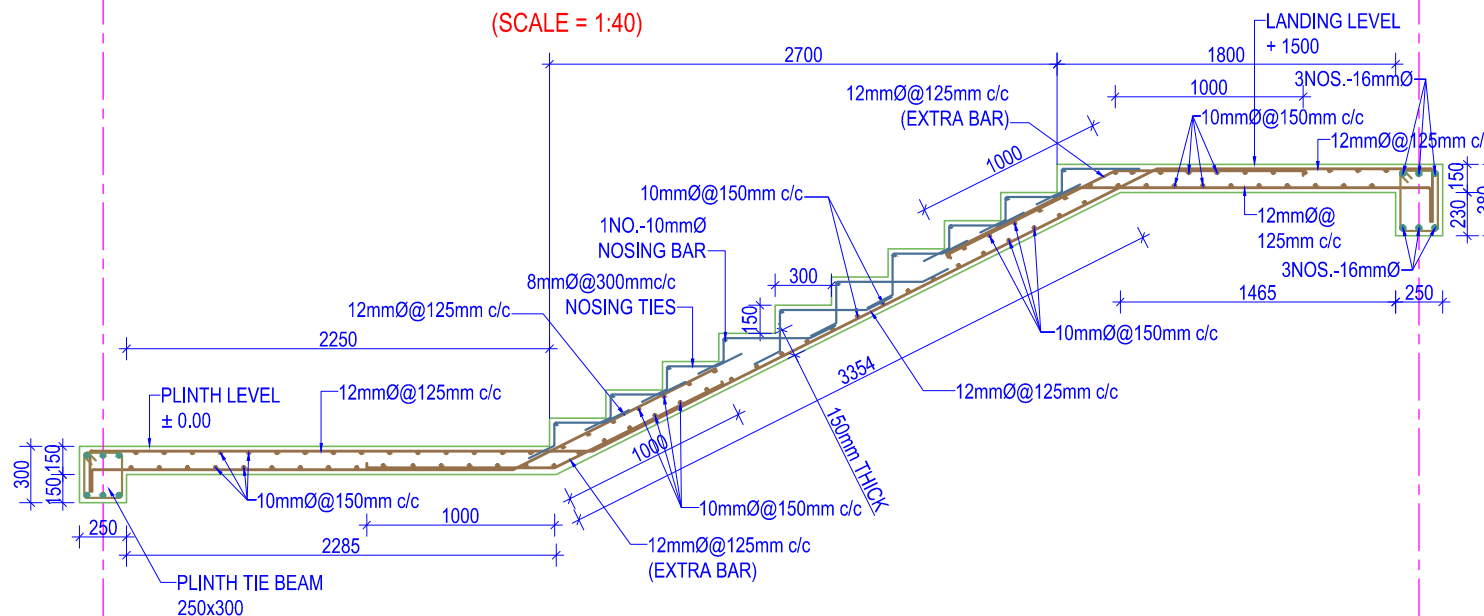
STAIRCASE DETAIL PLAN

(SCALE = 1:40)



SECOND FLIGHT STAIRCASE SECTION AT -Q-Q

(SCALE = 1:40)



FIRST FLIGHT STAIRCASE SECTION AT -P-P

(SCALE = 1:40)



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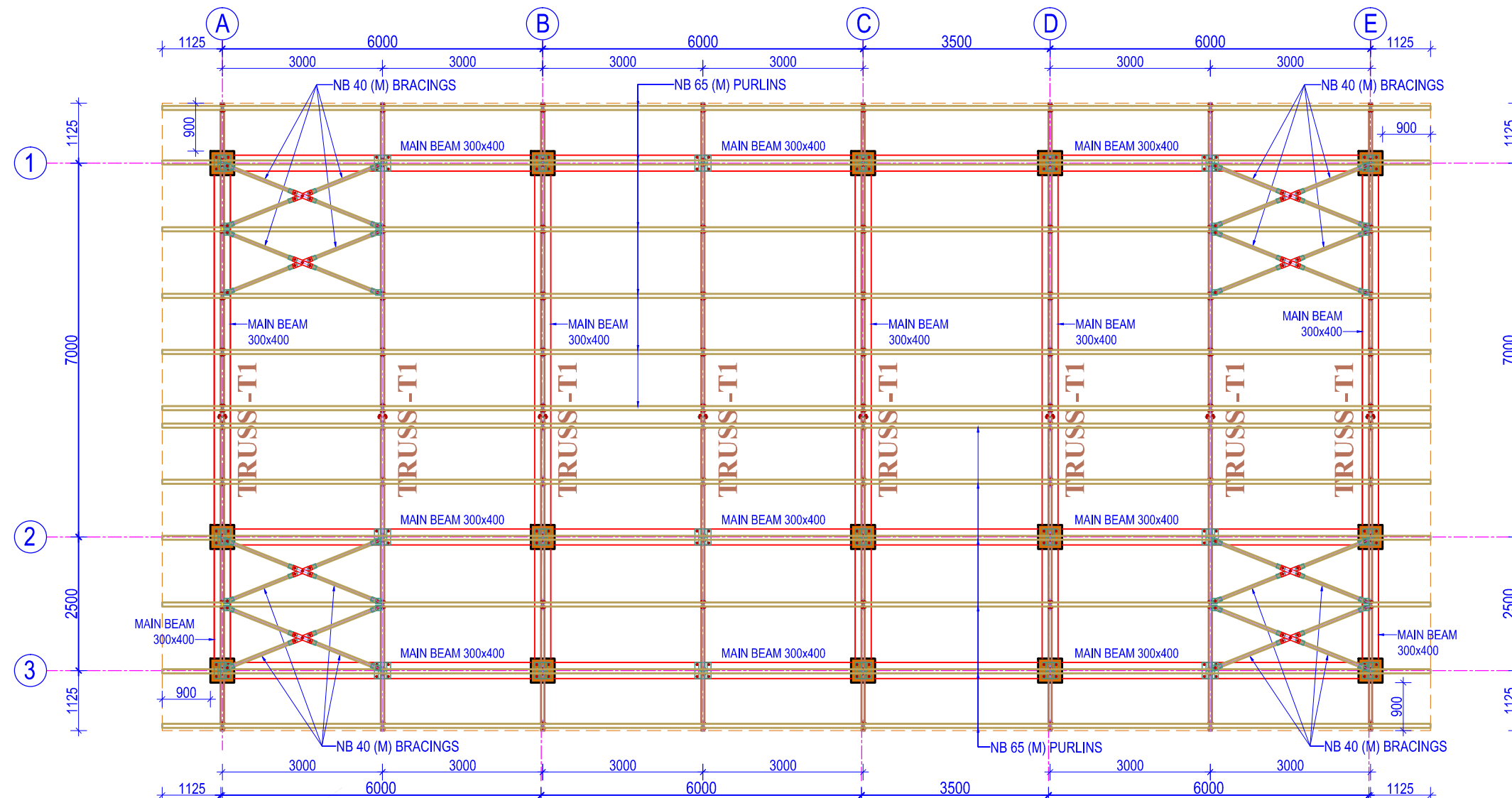
Sheet Title : STAIRCASE PLAN & SECTION	Sheet No. 2-LaLi EMC
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Date : September, 2016

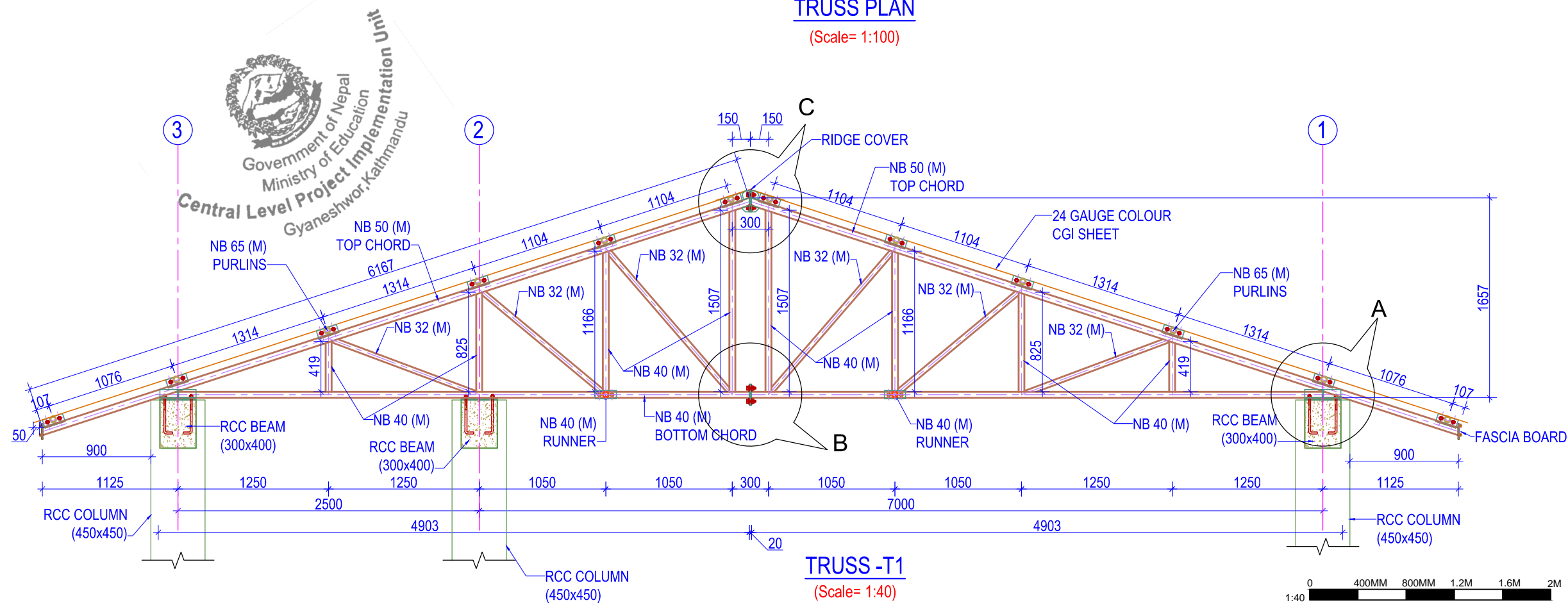
Print Sheet : A3' Size

S-15





TRUSS PLAN
(Scale= 1:100)



TRUSS-T1
(Scale= 1:40)

- NOTES:**
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 5. Provide threshold at all exterior doors as per details, unless otherwise indicated.



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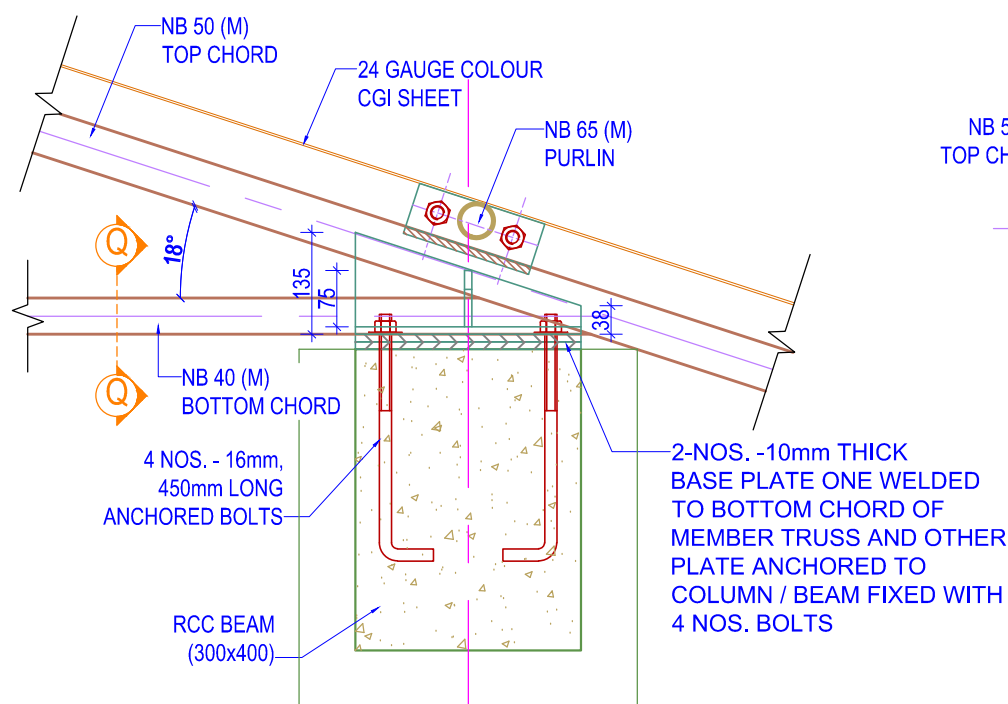
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Joint Venture with
MOHRI, ARCHITECT & ASSOCIATES, INC

Sub-Consultant:
EWES East West Engineering Service Pvt. Ltd.
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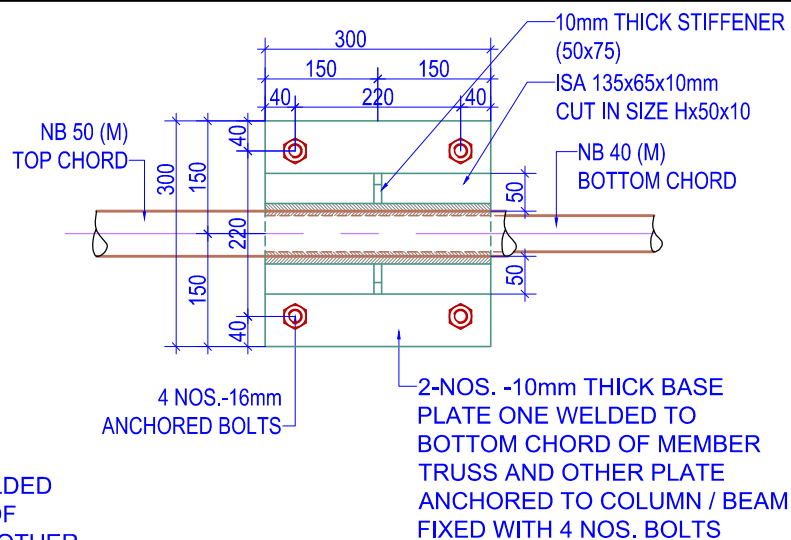
Mr. Tomoki Miyano	Mr. H.B. Gurung
Mr. Hisafumi Michikawa	Mr. A.S. Tamang
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Type Design :
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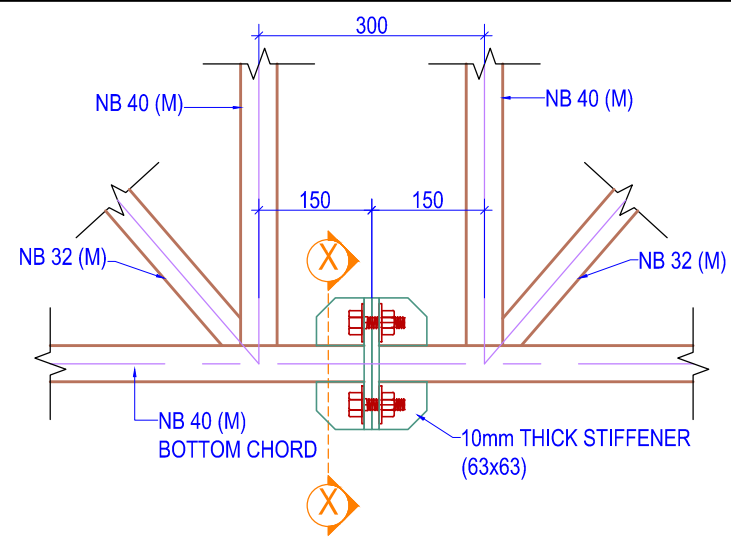
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Date : September, 2016	S-16
Print Sheet : A'3' Size	



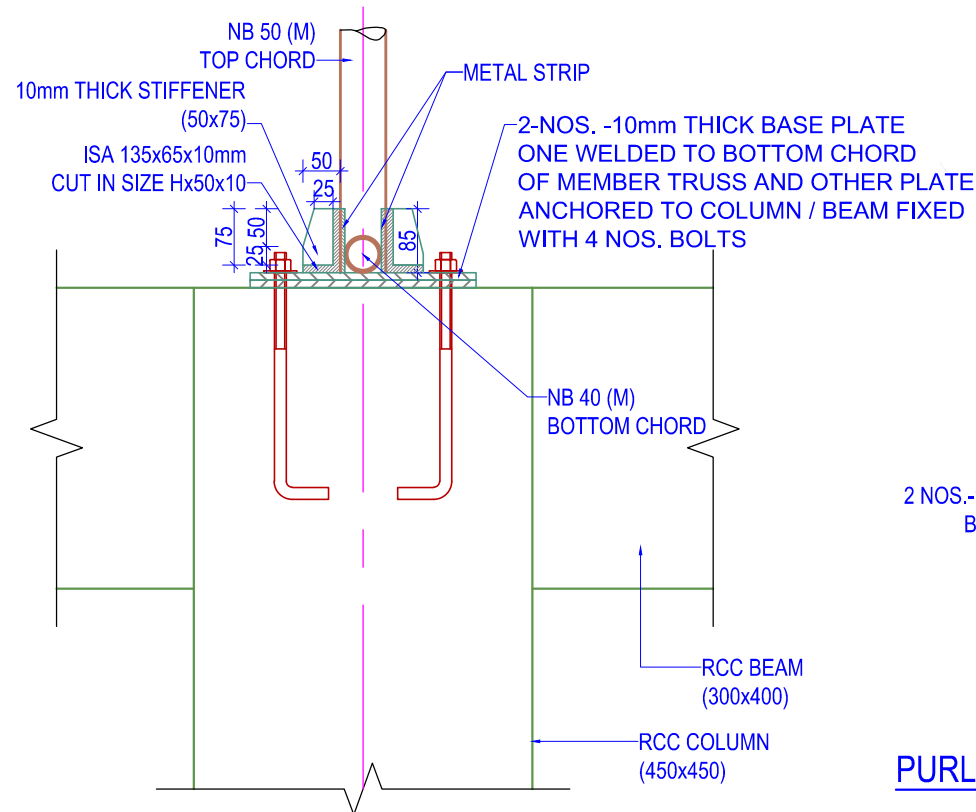
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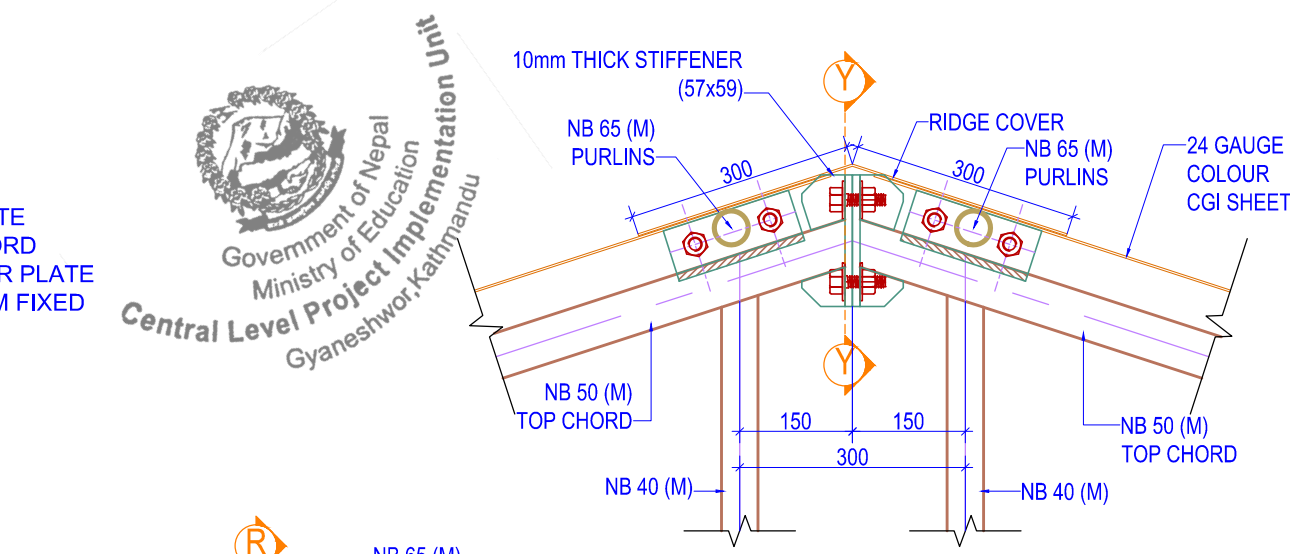
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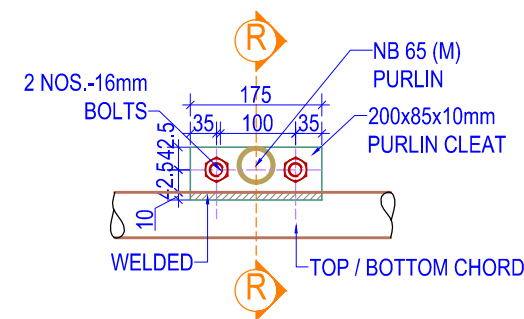
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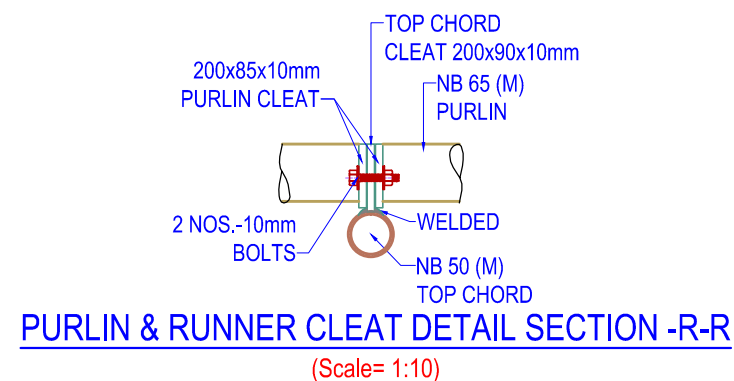
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(Scale= 1:10)



DETAIL AT -C
(Scale= 1:10)



PURLIN & RUNNER CLEAT DETAIL
(Scale= 1:10)



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

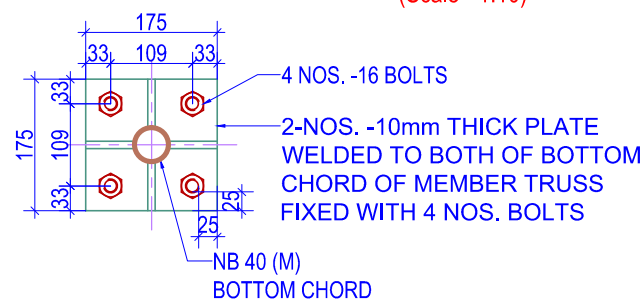


PLATE DETAIL AT -X-X
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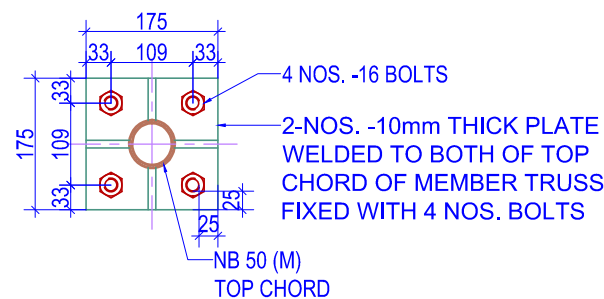


PLATE DETAIL AT -Y-Y
(Scale= 1:10)

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Type Design :
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Sheet Title :
TRUSS DETAILS

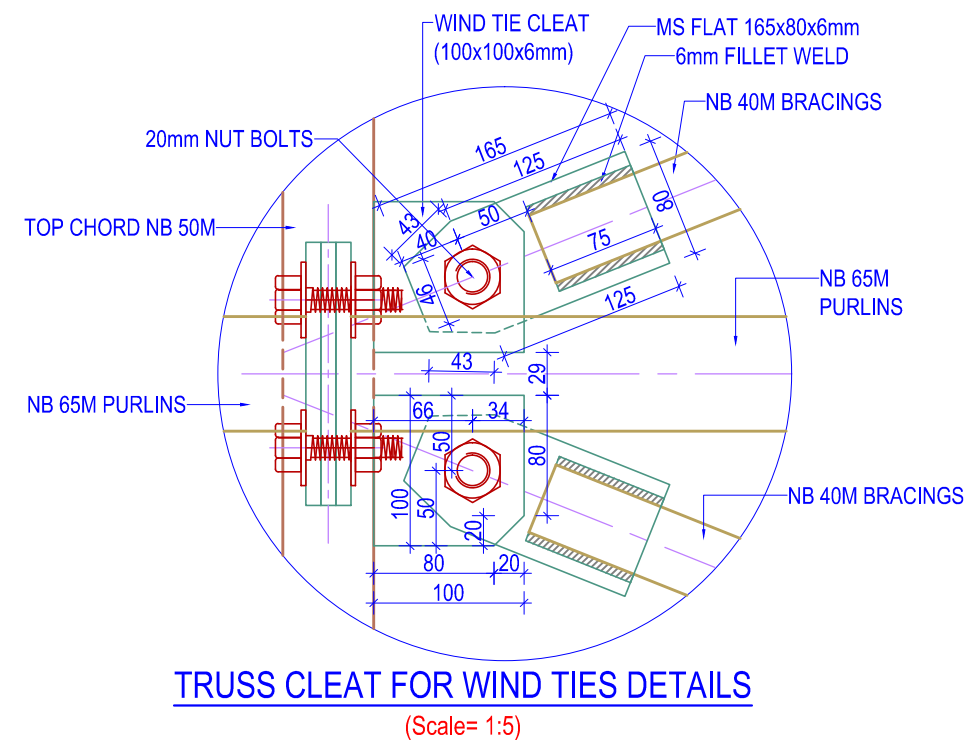
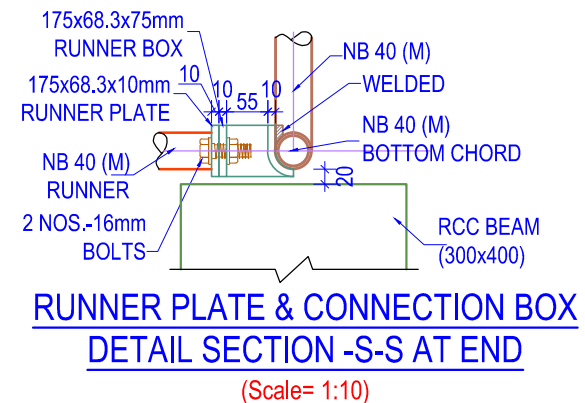
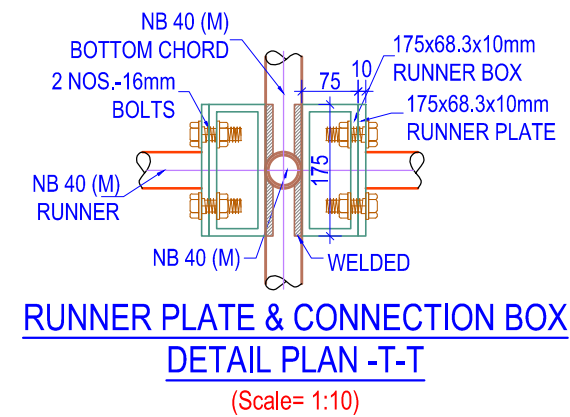
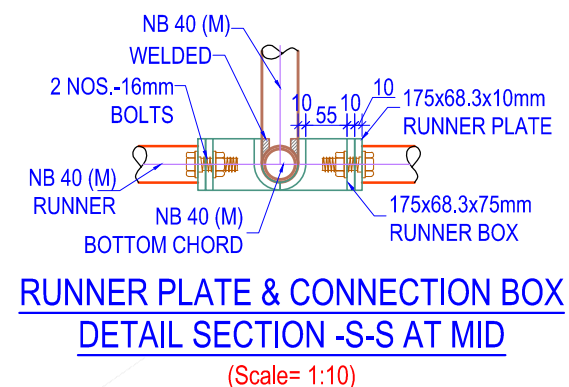
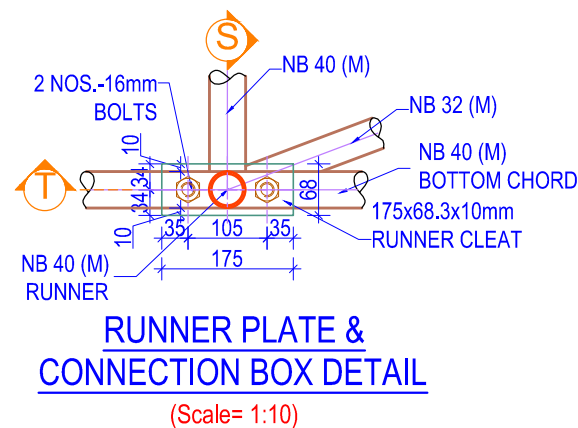
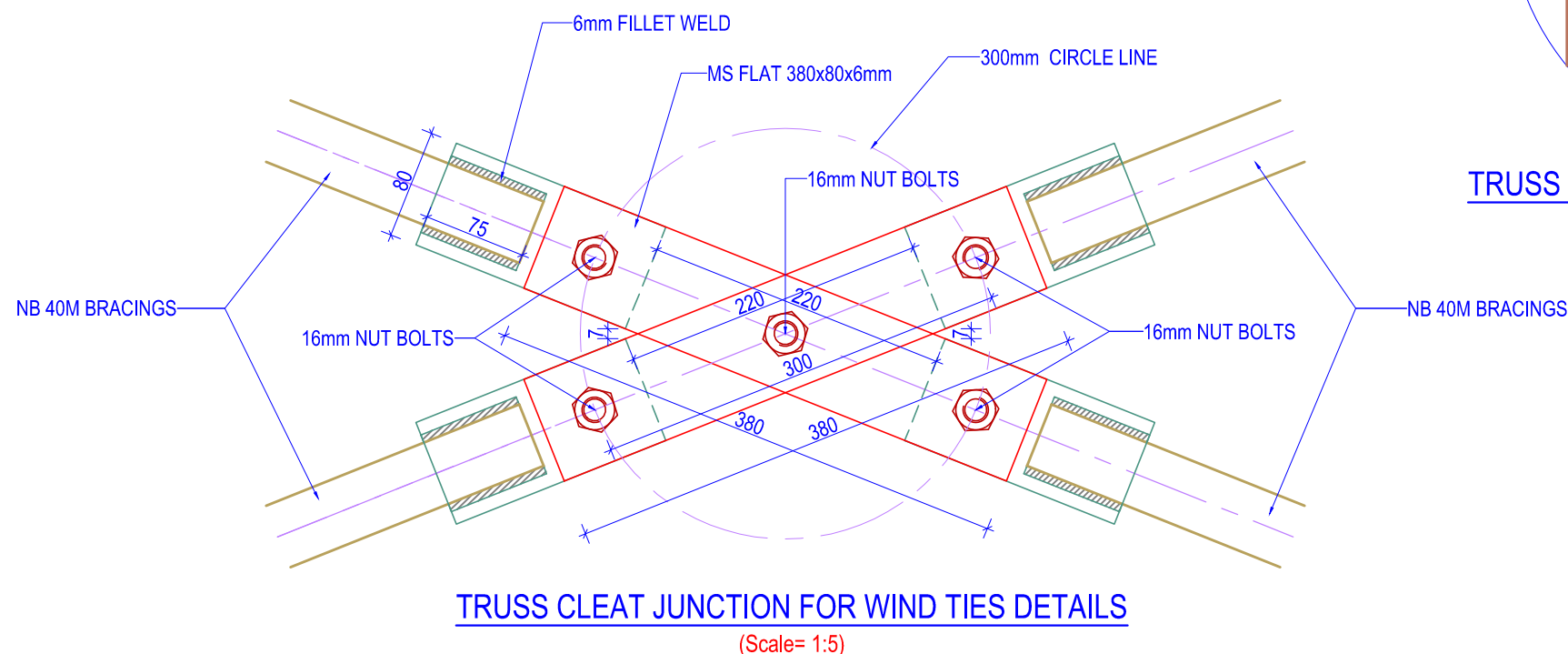
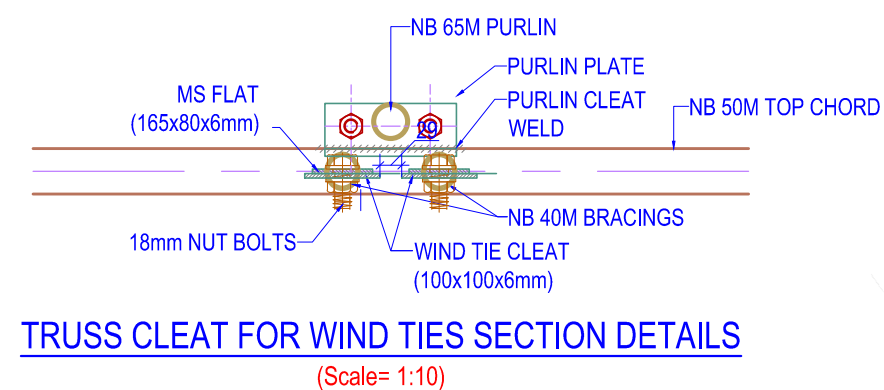
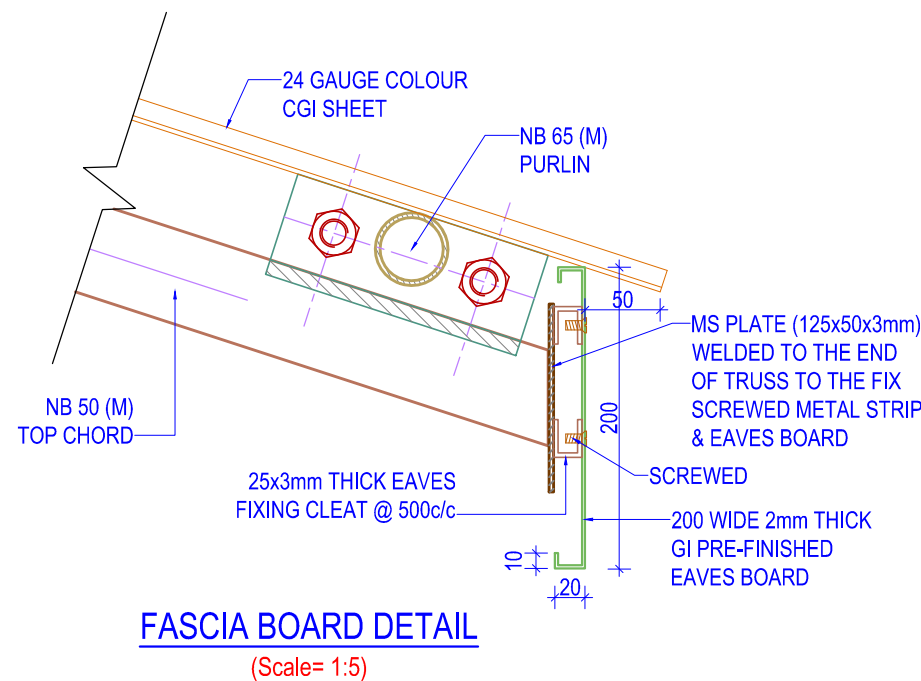
Sheet No.
2-LaLi EMC

Date : September, 2016

Print Sheet : A3' Size

S-17

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



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Type Design :
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Sheet Title :
TRUSS DETAILS

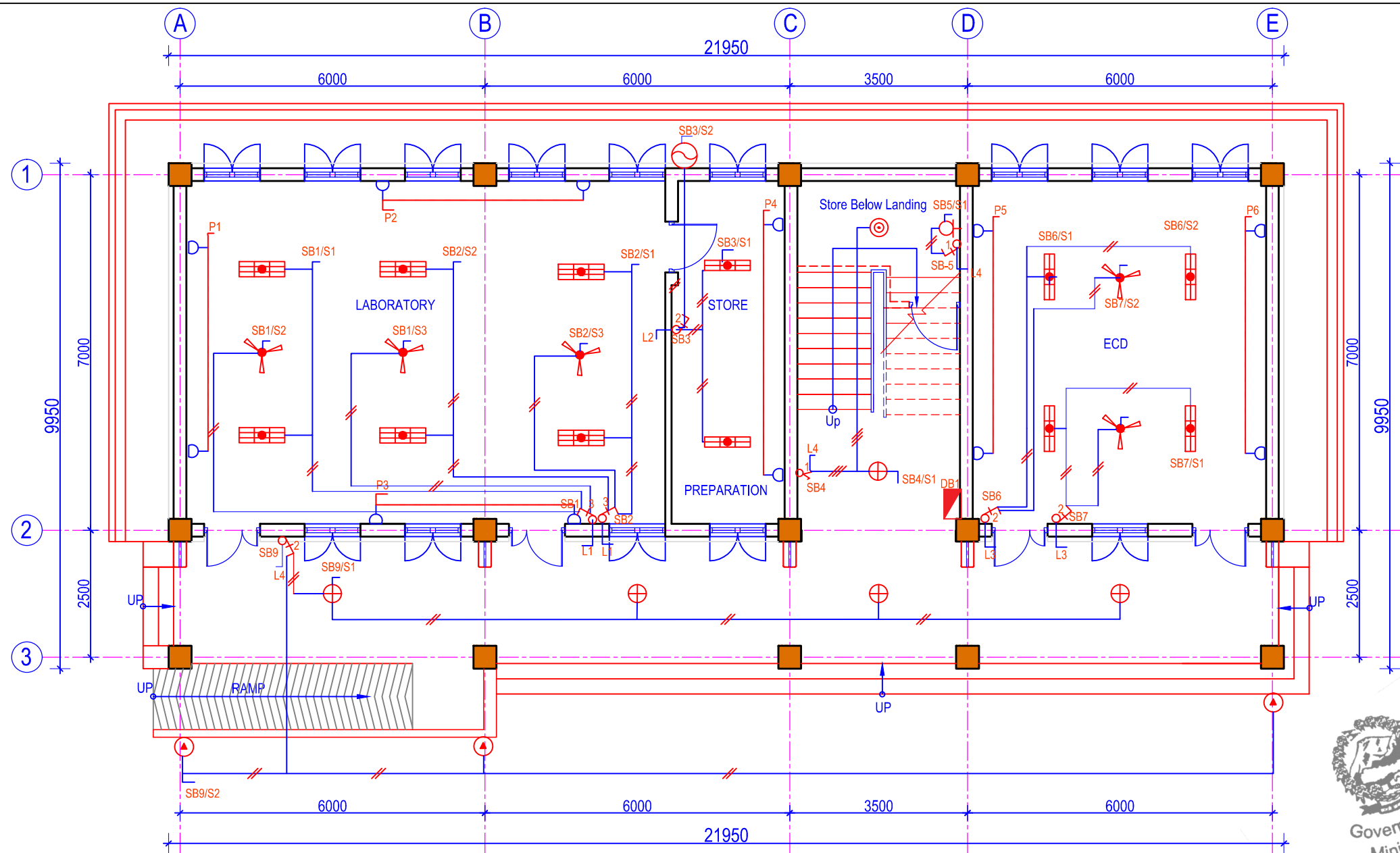
Sheet No.
2-LaLi EMC

Date : September, 2016

Print Sheet : A'3' Size

S-18



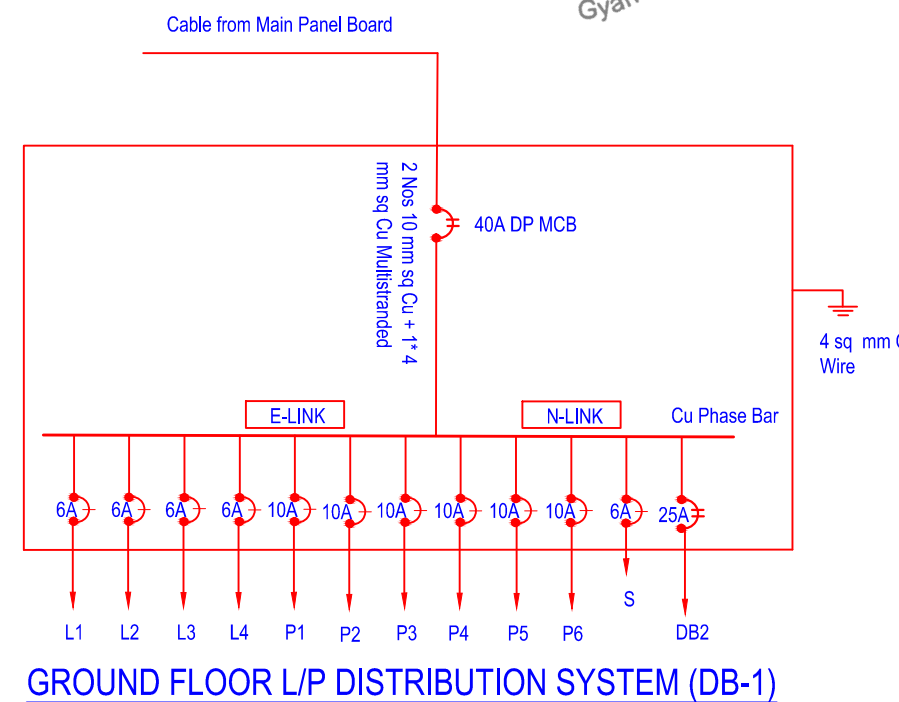


LIGHT, POWER & DB LAYOUT PLAN
(GROUND FLOOR)
 (Scale= 1:100)

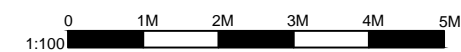
LEGEND

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		62W Exhaust Fan	1.7m above Finished Floor Level	
14		Single Pole MCB	-	
15		Double Pole MCB	-	
16		Three Pole MCB	-	
17		NEA Meter	2.5 m above Ground Level	
18		Distribution Board	2.5 m above Ground Level	
19		Main Panel Board	2.5 m above Ground Level	



GROUND FLOOR L/P DISTRIBUTION SYSTEM (DB-1)



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

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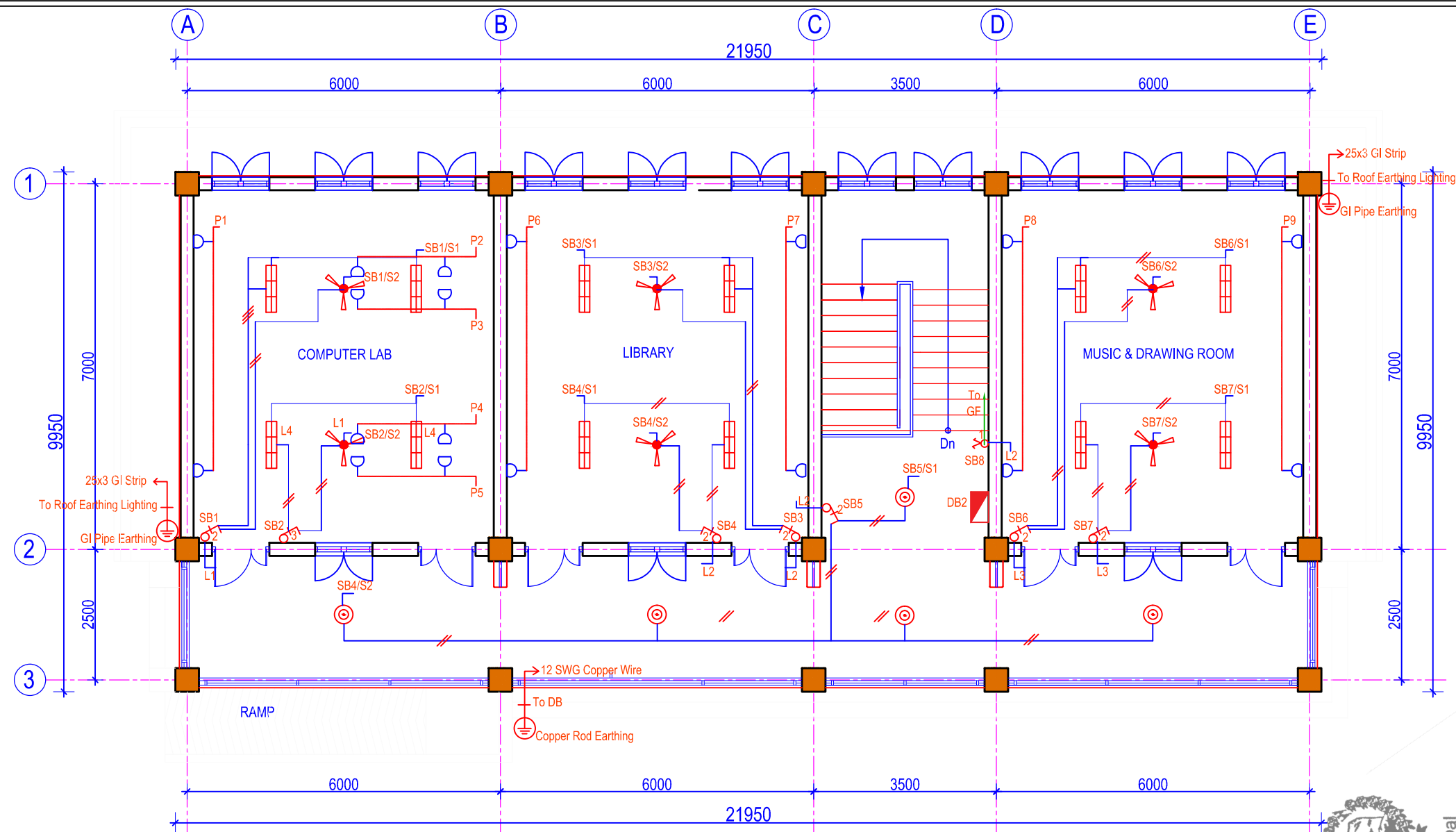
Sheet Title :
LIGHT, POWER & DB LAYOUT PLAN (GROUND FLOOR)

Date : September, 2016

Print Sheet : A'3' Size

Sheet No.
2-LaLi EMC

E-01

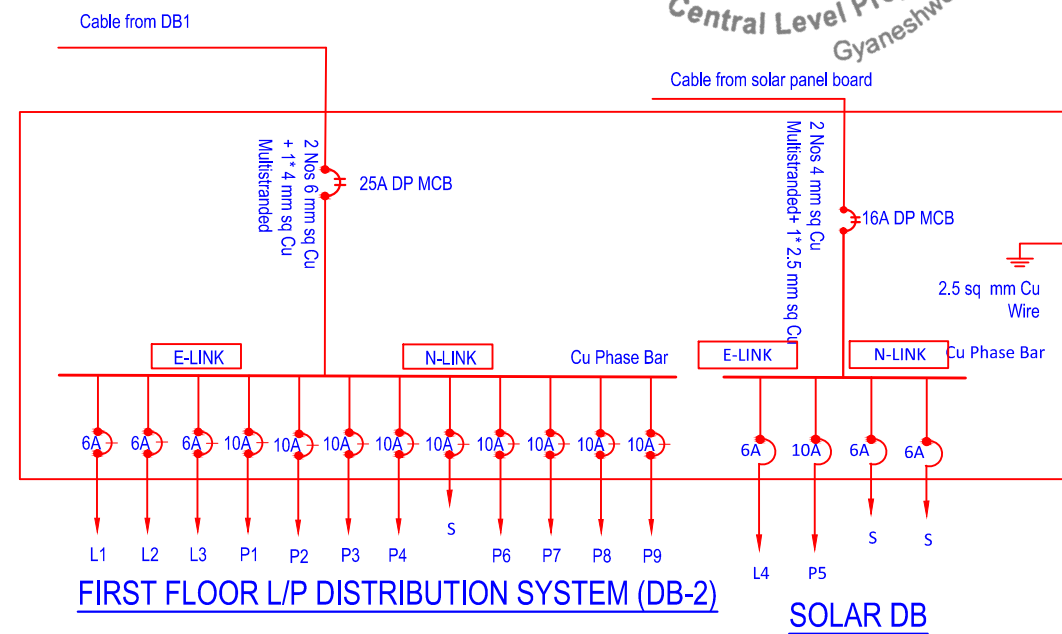


LIGHT, POWER & DB LAYOUT PLAN
(FIRST FLOOR)
 (Scale= 1:100)

LEGEND

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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	
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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
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12		One way Switch	1.25m above Finished Floor Level	
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14		Single Pole MCB	-	
15		Double Pole MCB	-	
16		Three Pole MCB	-	
17		NEA Meter	2.5 m above Ground Level	
18		Distribution Board	2.5 m above Ground Level	
19		Main Panel Board	2.5 m above Ground Level	



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

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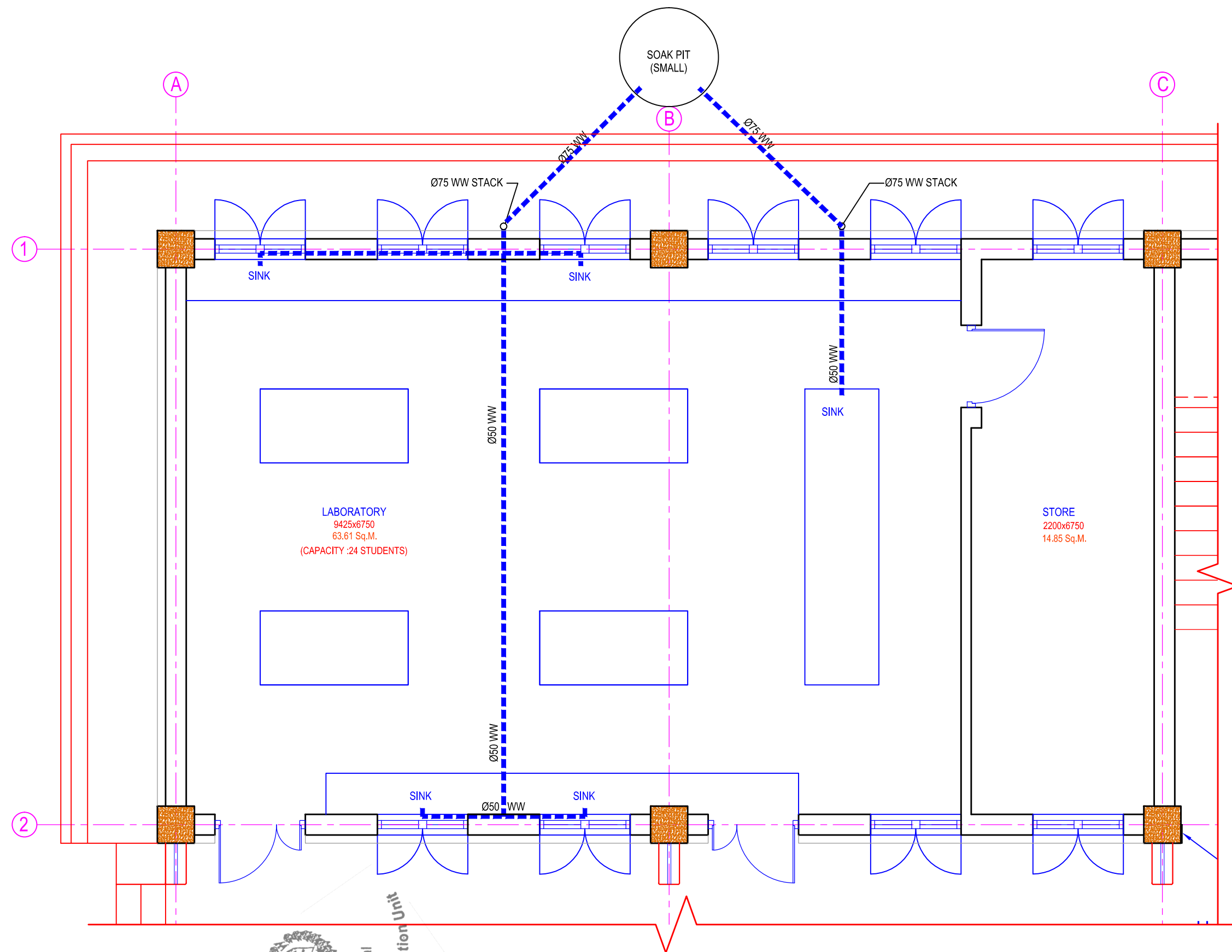
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Sheet Title : LIGHT, POWER & DB LAYOUT PLAN (FIRST FLOOR)	Sheet No. 2-LaLi EMC
--	--------------------------------

Date : September, 2016	E-02
Print Sheet : A'3' Size	



**WASTE WATER PIPELINE LAYOUT
(GROUND FLOOR PLAN)**

(Scale= 1:50)



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LEGEND FOR SANITARY DRAWINGS

SYMBOL	DESCRIPTION
	COLD WATER PIPE, CPVC, SIZE IN MM
	PVC SEWER PIPE, SIZE IN MM
	PVC WASTE WATER PIPE, SIZE IN MM
	FOLDABLE HINGE FOR DISABLED
	ORISSA PAN
	EUROPEAN WATER CLOSET WITH COMMODE SPRAY AND GRAB BAR
	SQUAT URINAL
	WALL HUNG WASH BASIN
	PVC CLEANOUT
	LONG BODY BIB COCK
	CP PUSH COCK & SPREADER FOR URINAL
	FLOOR TRAP
	CP COMMODE SPRAY WITH CISTERN INLET
	CPVC BALL VALVE
	450x450 WASTE WATER CHAMBER
	600 Ø SEWER MAN-HOLE

NOTE:

1. ALL WATER SUPPLY PIPES : CPVC SDR 11
2. ALL SOIL & WASTE (SW) PIPES: PVC
3. AVOID 90° BENDS ON SW PIPES AND USE 2 NOS 45° BENDS



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Mr. Wong Kuok Hung	Mr. R.K. Karkee

Type Design :

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Sheet Title :
**WASTE WATER PIPELINE
LAYOUT PLAN**

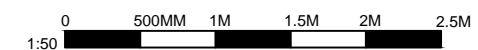
Sheet No.

**2-LaLi
EMC**

Date : September, 2016

Print Sheet : A3' Size

P-01





(Scale= 1:50)

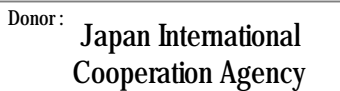
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Sheet Title :

WATER SUPPLY PIPELINE LAYOUT PLAN

Sheet No.

2-LaLi
EMC

Date : September, 2016

Print Sheet : A'3' Size

P-02