
**STRUCTURAL DRAWINGS
OF
NEPAL ELECTRICITY
AUTHORITY BUILDING
AT
HATTIGAUDA, KATHMANDU**

SUBMITTED BY:

PYRAMID DESIGN ASSOCIATES PVT. LTD.

Engineers, Architects, Planners & Valuers

Bankhadharchowk Thimi, Bhaktapur

Plot Address : Maitighar, Kathmandu

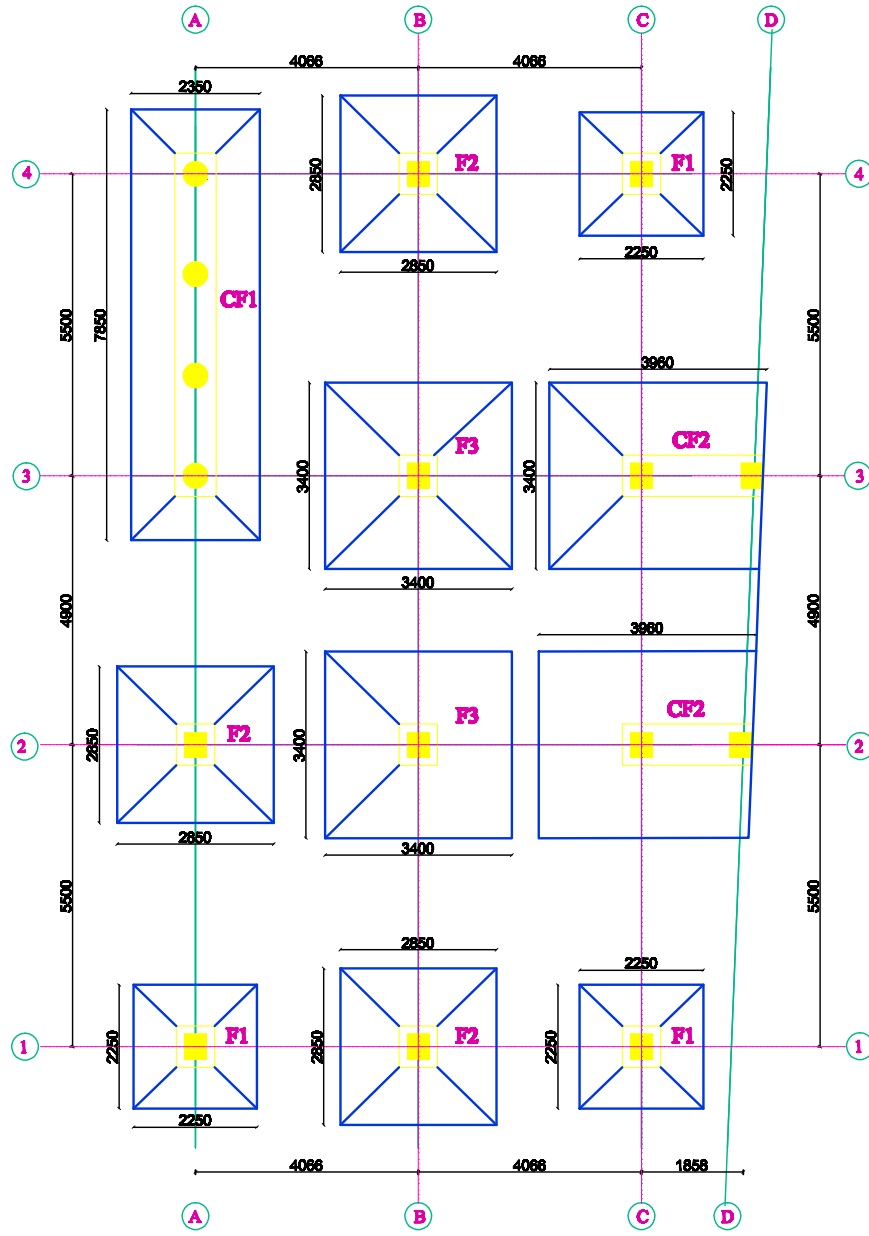
Phone No: 4239772, 9851072198

SUBMITTED TO:

NEPAL ELECTRICITY A

HATTIGAUDA, KATHMA

NEPAL



FOOTING PLAN

DESIGN ASSOCIATES
 Hkns, Planning & Valuation
 maha
 072188

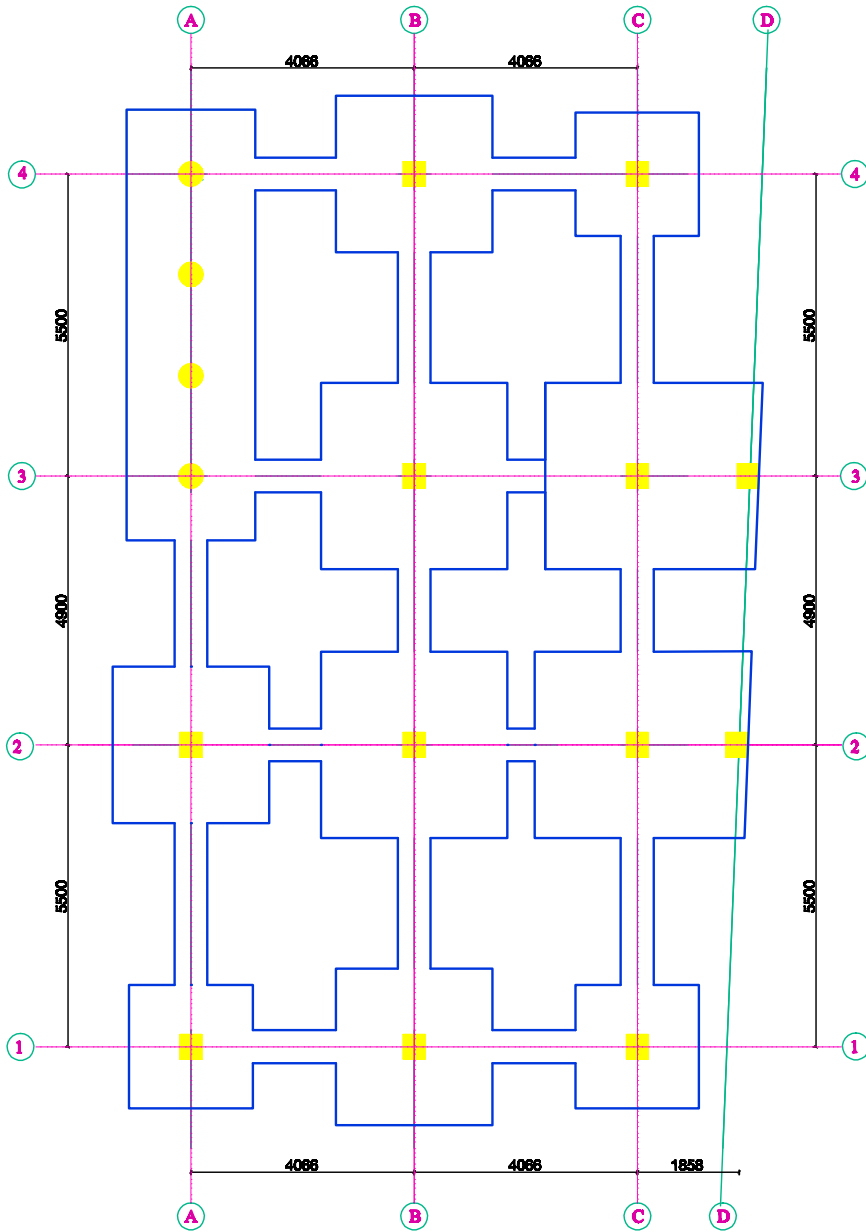
**NEPAL ELECTRICITY AUTHORITY
 BUILDING**
 HATTISBAUDA, KATHMANDU

D				
C				
B				
A				
REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY	

Designed by :
 Drawn by :
 Checked by :
 Approved by :

Scale - 1:100
 DATE: SEP 2016

STRUCTURAL DRAWING
FOOTING PLAN



TRENCH PLAN

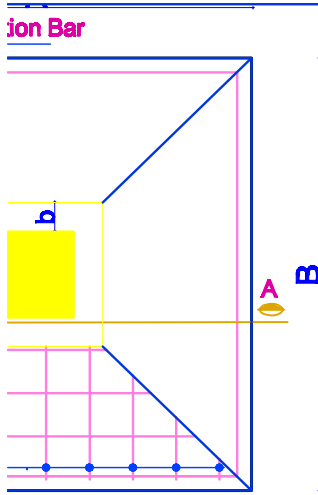
DESIGN ASSOCIATES
 sds, Planners & Valuers
 10th
 2000

**NEPAL ELECTRICITY AUTHORITY
 BUILDING**
 HATTIGOLA, KATHMANDU

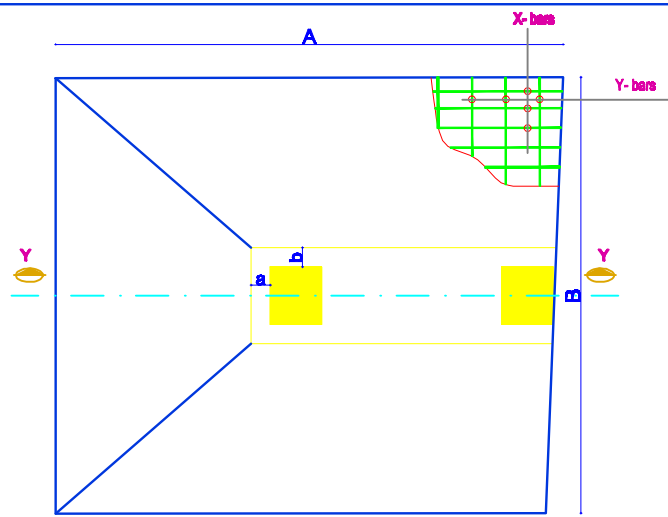
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Drawn by :	
Checked by :	
Approved by :	DATE :SEP 2016

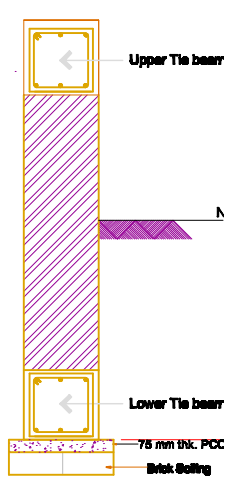
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TRENCH PLAN



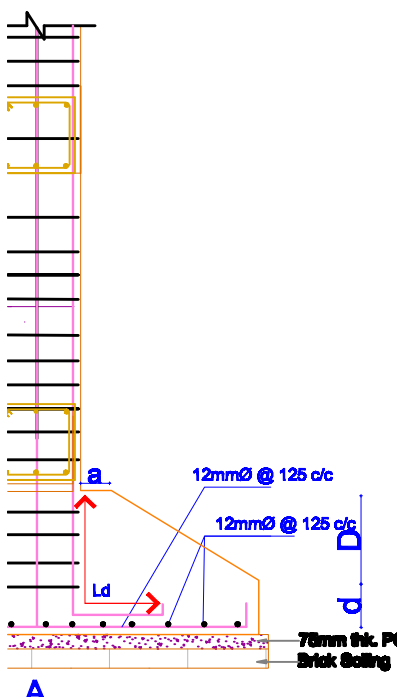
FOOTING PLAN



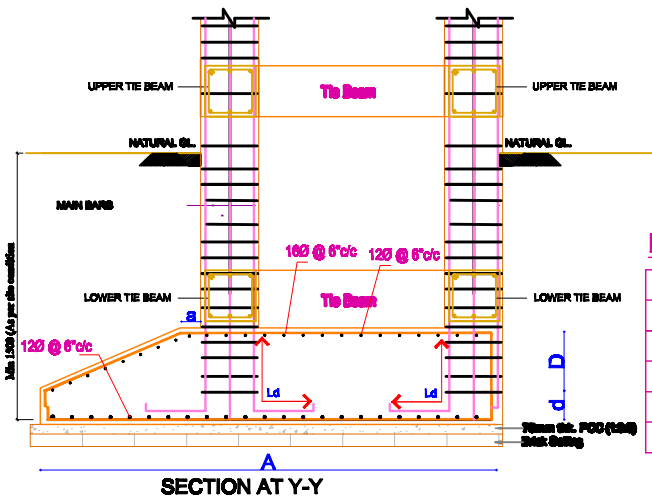
COMBINED FOOTING PLAN



TOE WALL DETAIL



SECTION AT A-A



SECTION AT Y-Y

FOUNDATION DETAIL

FOOTING	SIZE (AxB)	a	b	d	D	X-BARS
F1	2250X2250	200	200	200	400	12Ø @ 125c/c
F2	2850X2850	200	200	200	400	12Ø @ 125c/c
F3	3400X3400	200	200	200	400	12Ø @ 125c/c
CF1	2350X7850	200	200	200	400	16Ø @ 150c/c
CF2	3980X3400	200	200	200	400	16Ø @ 150c/c

DESIGN ASSOCIATES
 Seta, Planning & Valuation
 72100

**NEPAL ELECTRICITY AUTHORITY
 BUILDING**
 HATTIBALDA, KATHMANDU

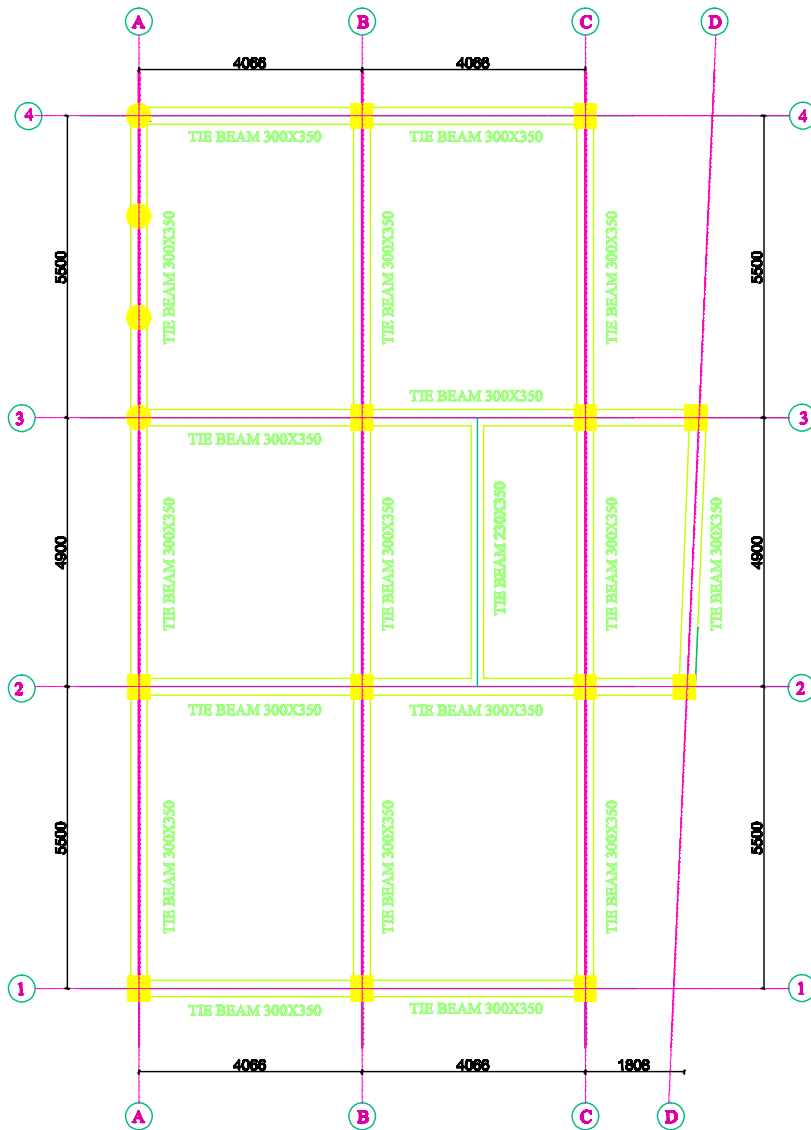
REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY
D			
C			
B			
A			

Designed by :
 Drawn by :
 Checked by :
 Approved by :

Scale -
 DATE SEP 2016

STRUCTURAL DRAWING

FOUNDATION DETAIL



TIE BEAM PLAN

DESIGN ASSOCIATES
 ARCH, PLANNING & VENTILATION
 HATIBANDA, KATHMANDU
 32108

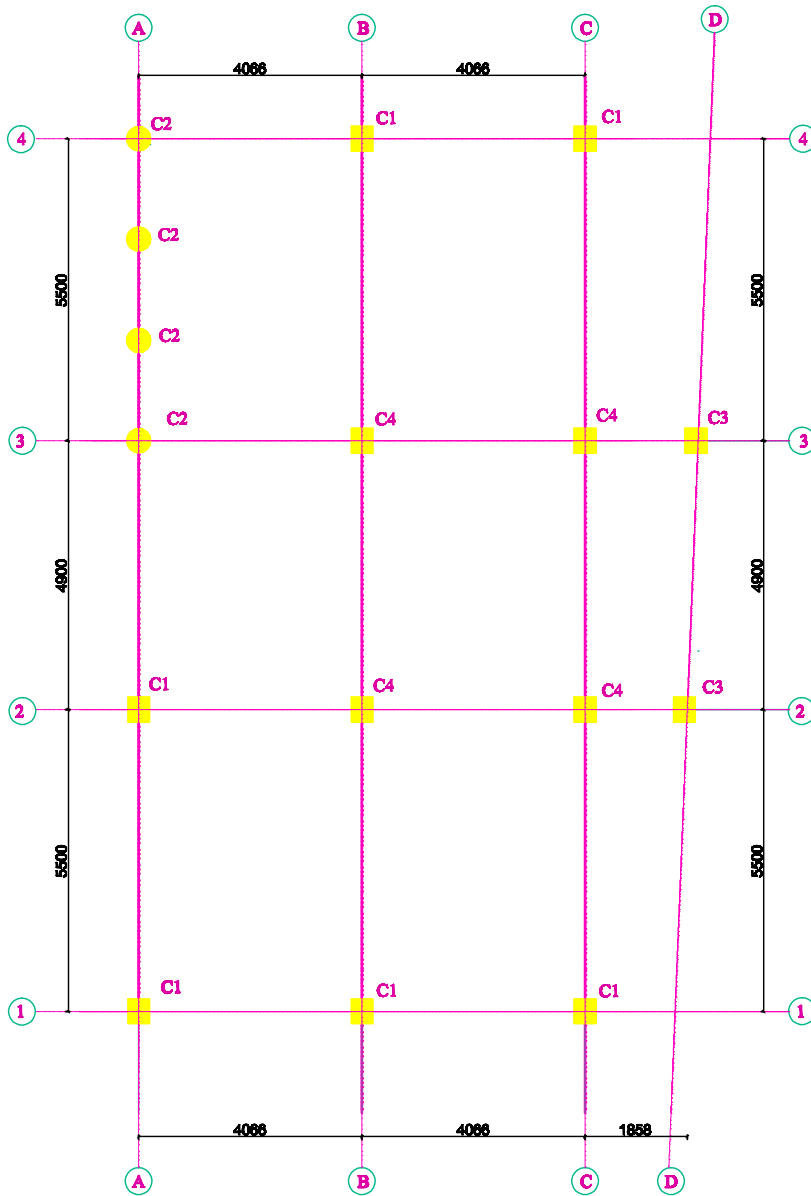
**NEPAL ELECTRICITY AUTHORITY
 BUILDING**
 HATIBANDA, KATHMANDU

D			
C			
B			
A			
REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY

Designed by :
 Drawn by :
 Checked by :
 Approved by :

Scale - 1:100
 DATE: SEP 2016

STRUCTURAL DRAWING
TIE BEAM PLAN

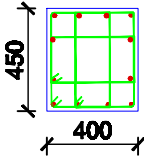
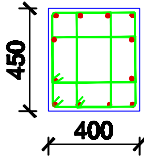
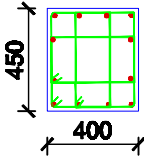
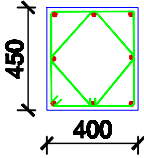
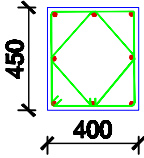
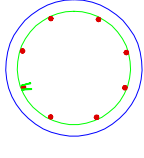
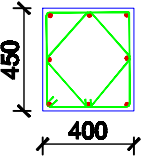
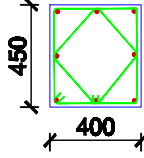
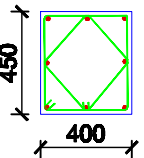


COLUMN PLAN

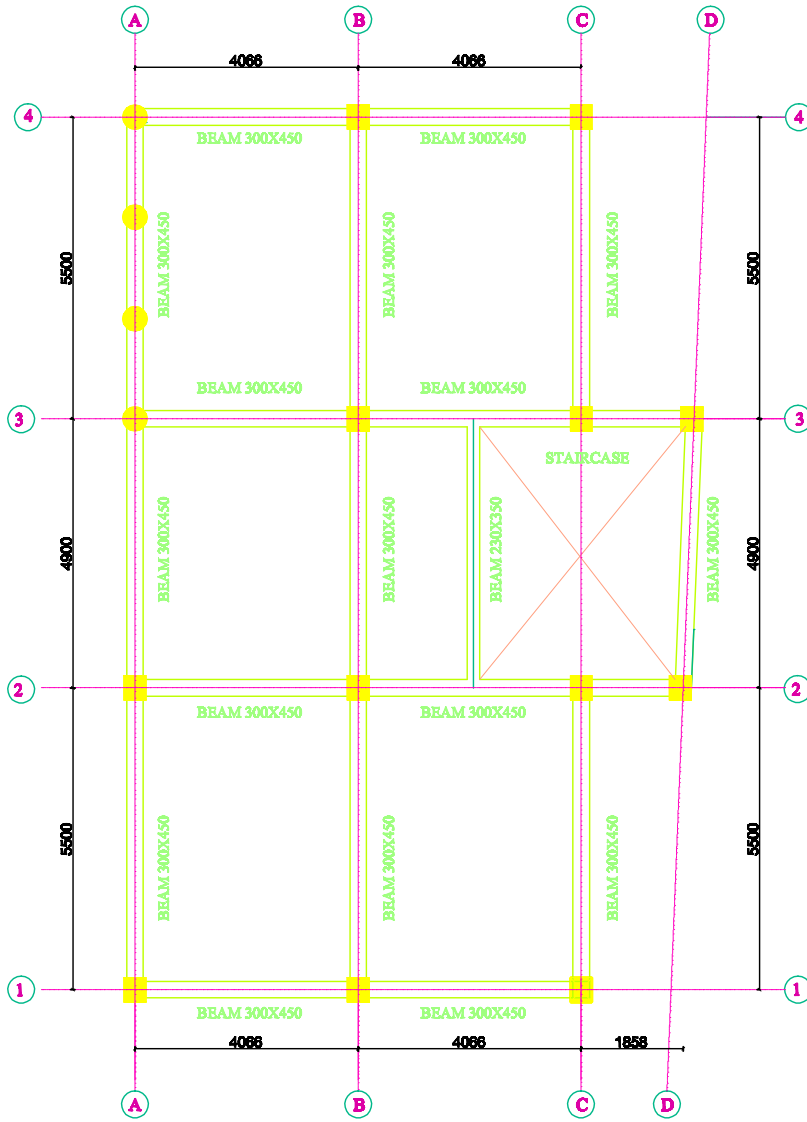
DESIGN ASSOCIATES Architects, Planners & Valuers Kathmandu 1072100	NEPAL ELECTRICITY AUTHORITY BUILDING		Designed by :		Scale - 1:100	STRUCTURAL DRAWING
	HATTIBAUDA, KATHMANDU		Drawn by :			
			Checked by :		COLUMN PLAN	
	REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY		

COLUMN DETAIL

CONCRETE GRADE M20

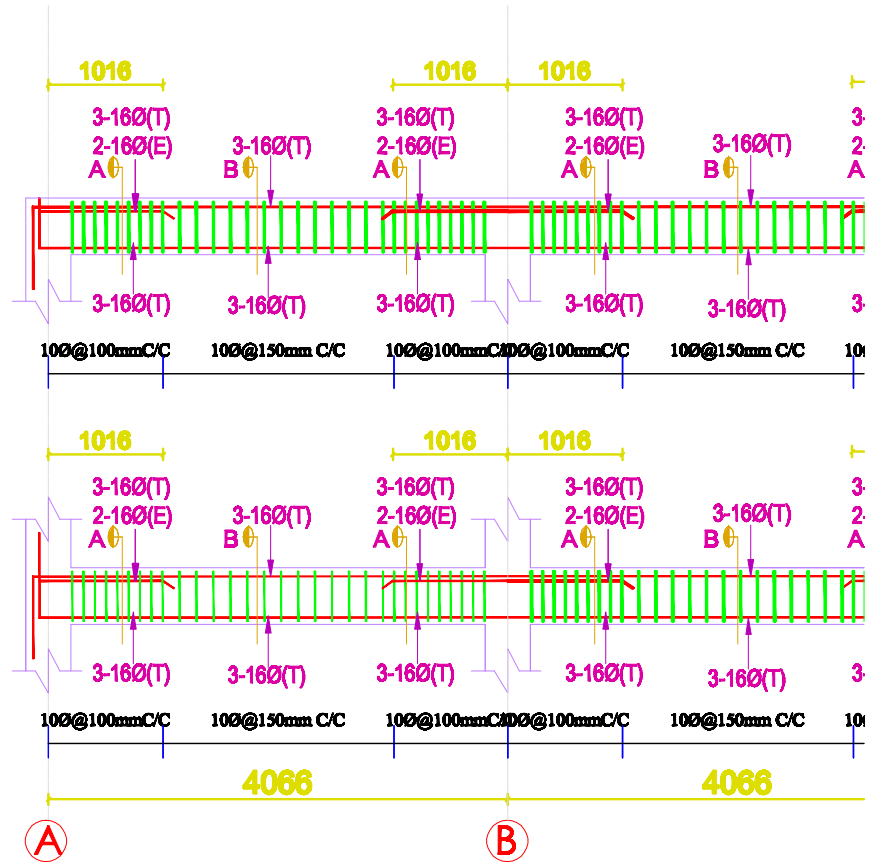
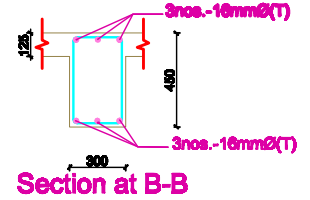
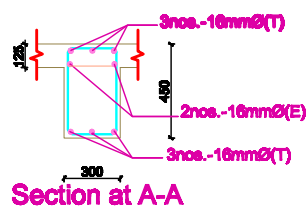
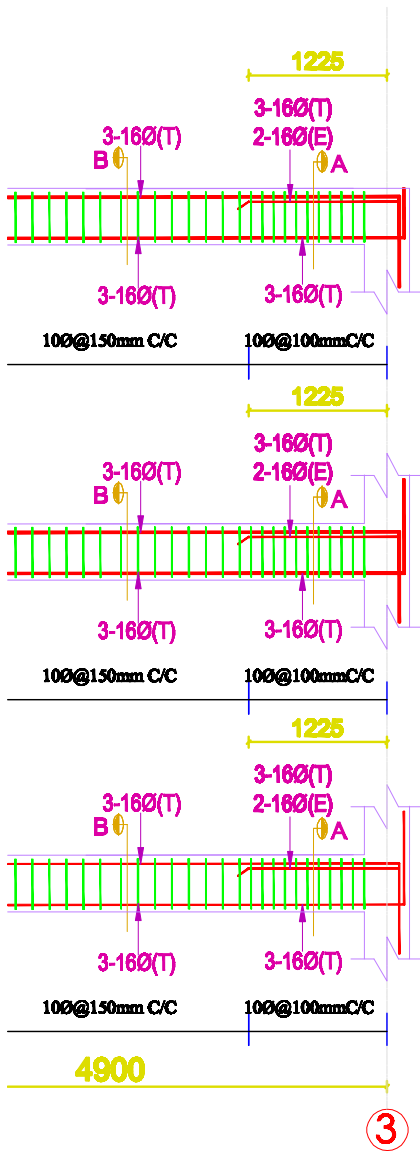
COLUMN	SIZE	GROUND FLOOR	FIRST FLOOR	TOP FLOOR	Stirrup Special lateral
C3	400x450				10Ø @ 100mi
		4-20Ø+8-16Ø	4-20Ø+8-16Ø	4-20Ø+8-16Ø	
C1	400x450			—	10Ø @ 100mi
		4-20Ø+4-16Ø	4-20Ø+4-16Ø		
C2	D=450		—	—	10Ø @ 100mi
		4-20Ø+4-16Ø			
C4	400x450				10Ø @ 100mi
		4-20Ø+4-16Ø	4-20Ø+4-16Ø	4-20Ø+4-16Ø	

DESIGN ASSOCIATES Pvt. Ltd., Planners & Validators 2100	NEPAL ELECTRICITY AUTHORITY BUILDING				Designed by : _____ Scale - _____	STRUCTURAL DRAWING
	HATHRAIDA, KATHMANDU				Drawn by : _____	
	REVISIONS				Checked by : _____	COLUMN DETAIL
	REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY	Approved by : _____	
					DATE: SEP 2016	



TYPICAL BEAM PLAN

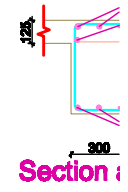
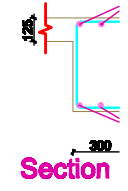
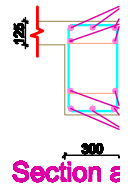
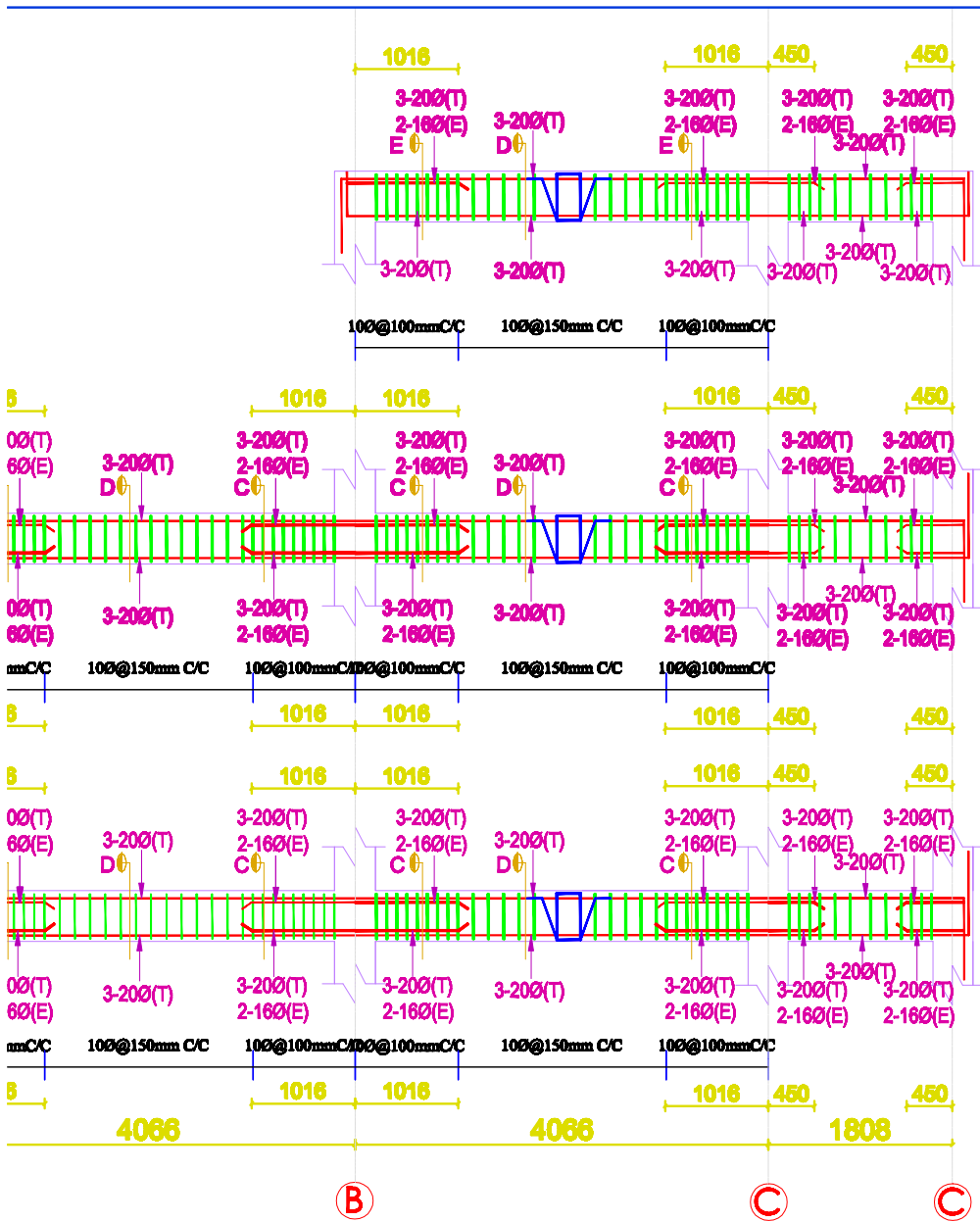
ID DESIGN ASSOCIATES Architects, Planners & Valuers Bhairabi 01072100	NEPAL ELECTRICITY AUTHORITY BUILDING	D			Designed by :	Scale - 1:100	STRUCTURAL DRAW
		C			Drawn by :		
	B			Checked by :			
	A			Approved by :	DATE SEP 2010	BEAM PLAN	
	HATHIBUDA, KATHMANDU	REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY		



OF MAIN BEAM PLAN
AT GRID D-D

L-SECTION OF MAIN BEAM PLAN AT
GRID 1-1 & 4-4

SIGN ASSOCIATES Pinnas & Vekatesh	NEPAL ELECTRICITY AUTHORITY BUILDING	D			Designed by :	Scale - 1:100	STRUCTURAL DRAWING
		C			Drawn by :		
	B			Checked by :			
	A			Approved by :	DATE: SEP 2018		
	HATTIBUDA, KATHMANDU	REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY		L- SECTION OF MAIN BEAM



L-SECTION OF MAIN BEAM PLAN AT GRID 2-2 & 3-3

MD DESIGN ASSOCIATES
 Architects, Planners & Engineers
 Kathmandu
 9771972108

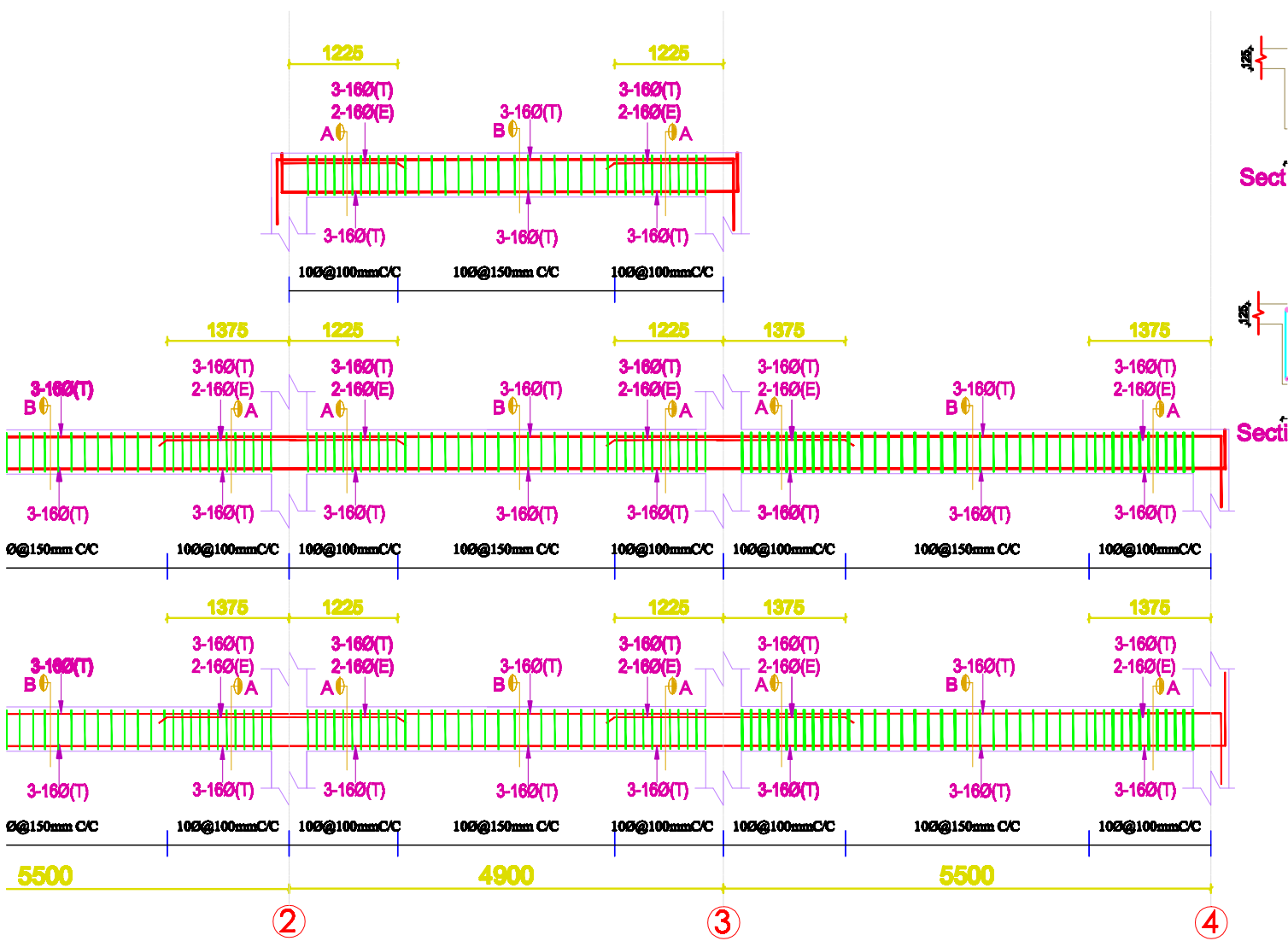
**NEPAL ELECTRICITY AUTHORITY
 BUILDING**
 HATTIBAUDA, KATHMANDU

D				
C				
B				
A				
REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY	

Designed by :
 Drawn by :
 Checked by :
 Approved by :

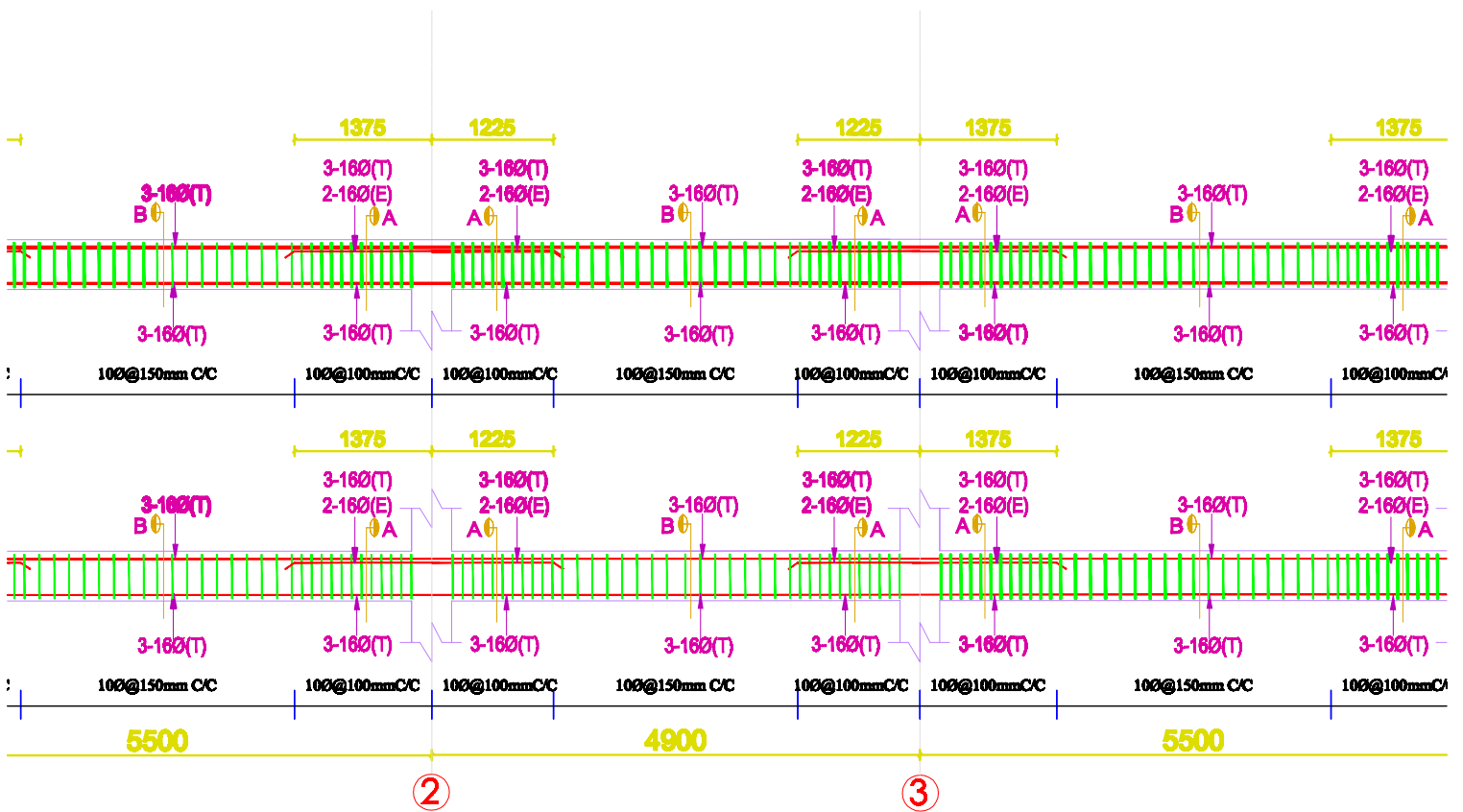
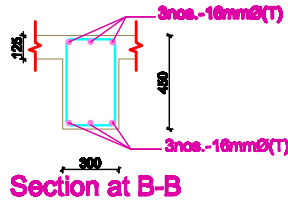
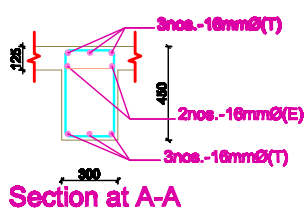
Scale - 1:100
 DATE: SEP 2018

STRUCTURAL DRAW
L- SECTION OF MAIN



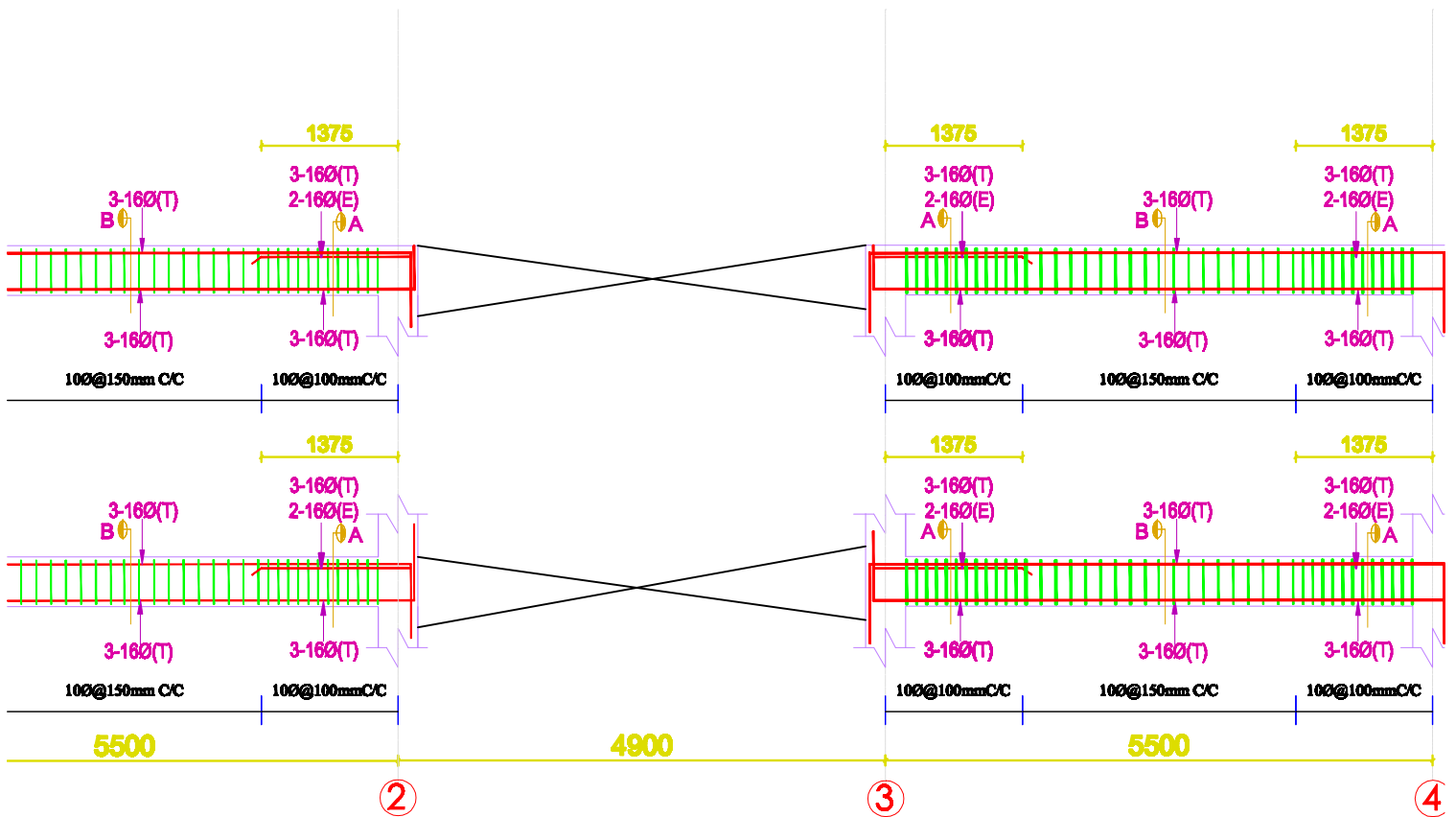
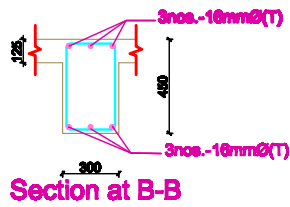
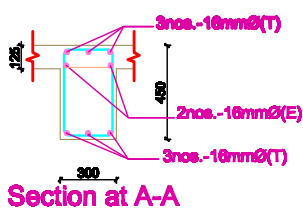
L-SECTION OF MAIN BEAM PLAN AT GRID B-B

ESIGN ASSOCIATES <small>Civil, Planning & Valuation</small> <small>100</small>	NEPAL ELECTRICITY AUTHORITY BUILDING HATTIBALDA, KATHMANDU	D				Designed by :	Scale - 1:100 DATE: SEP 2018	STRUCTURAL DRAWING L- SECTION OF MAIN BEA
		C				Drawn by :		
		B				Checked by :		
		A				Approved by :		
		REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY			



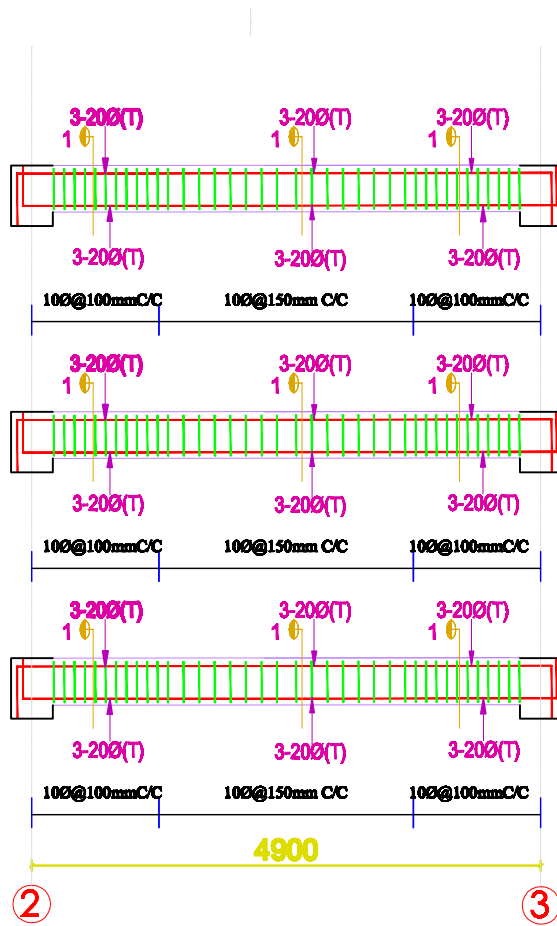
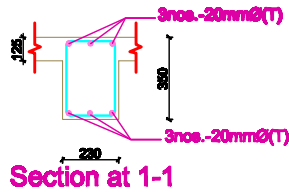
L-SECTION OF MAIN BEAM PLAN AT GRID A-A

ID DESIGN ASSOCIATES Architects, Planners & Visualisers 11/11/11/11 51072100	NEPAL ELECTRICITY AUTHORITY BUILDING	D			Designed by :	Scale - 1:100 STRUCTURAL DRAW
		C			Drawn by :	
	B			Checked by :		
	A			Approved by :		
	REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY	DATE: SEP 2018	
HATTIGANDA, KATHMANDU						L-SECTION OF MAIN I



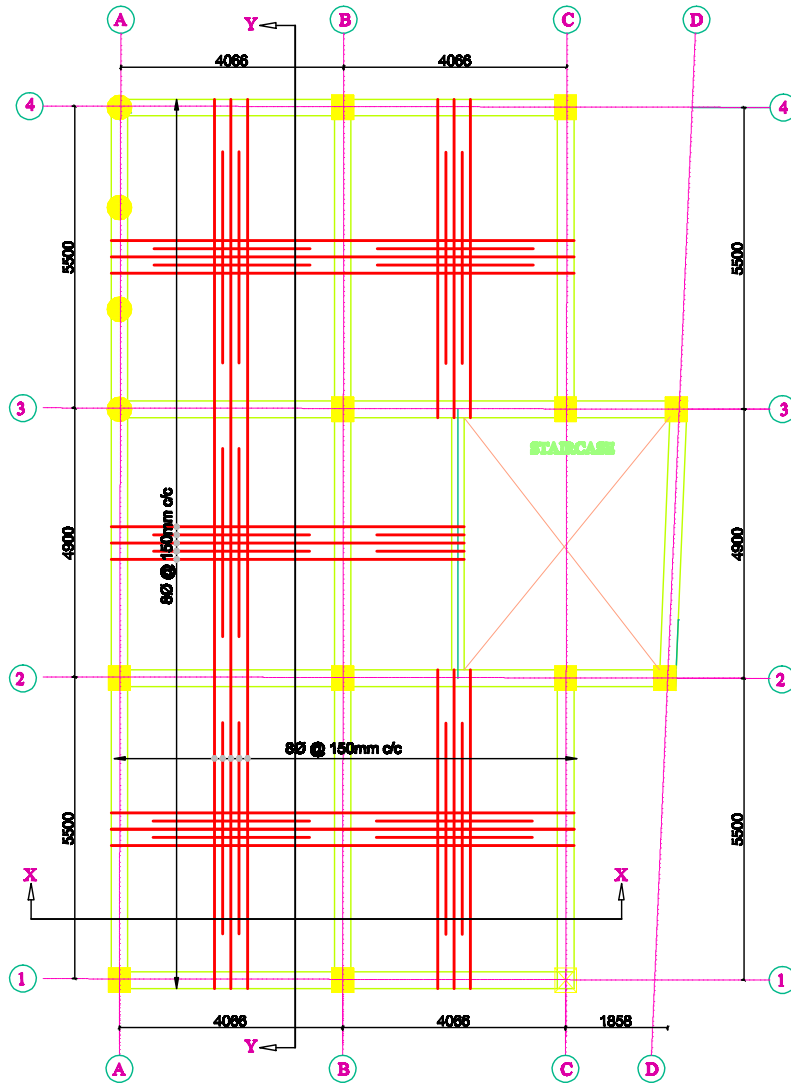
L-SECTION OF MAIN BEAM PLAN AT GRID C-C

ESIGN ASSOCIATES 2A, Piarasa & Vohra 10/1 400	NEPAL ELECTRICITY AUTHORITY BUILDING HATIBUDA, KATHMANDU	D				Designed by :	Scale - 1:100 DATE: SEP 2018	STRUCTURAL DRAWING L- SECTION OF MAIN BEA
		C				Drawn by :		
		B				Checked by :		
		A				Approved by :		
		REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY			



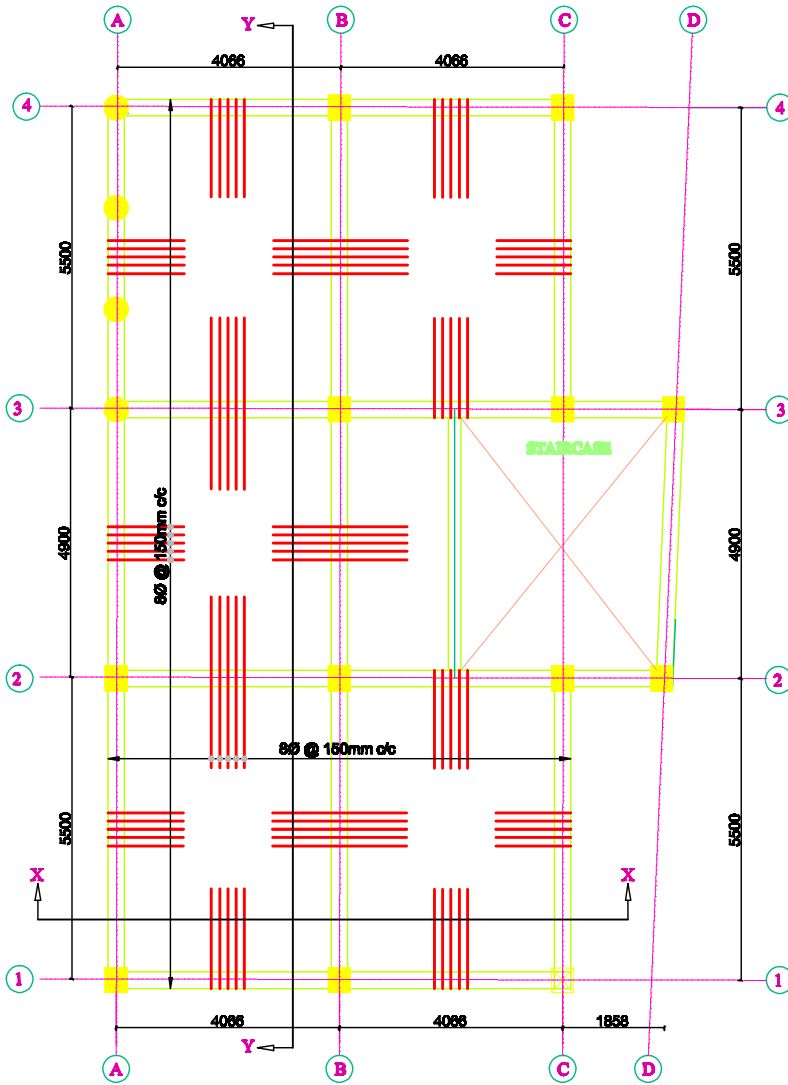
**L-SECTION OF SECONDARY BEAM
NEAR STAIRCASE**

IMID DESIGN ASSOCIATES s, Architects, Planners & Valuers r, Kathmandu T: 9771472100	NEPAL ELECTRICITY AUTHORITY BUILDING	D			Designed by :	Scale - 1:100	STRUCTURAL DR/
		G			Drawn by :		
	B			Checked by :	DATE :SEP 2016	L- SECTION OF SECONDA	
	A			Approved by :			
	REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY			



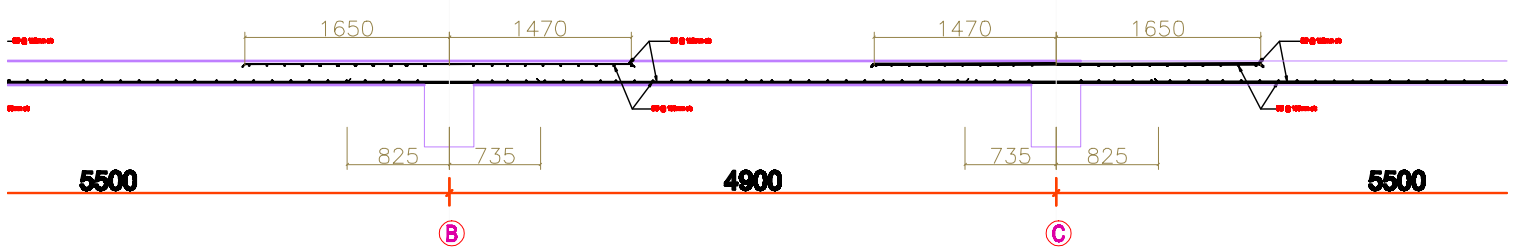
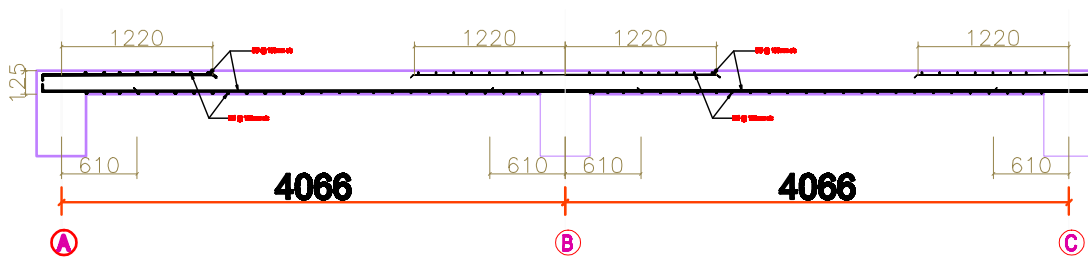
**SLAB REINFORCEMENT PLAN
BOTTOM BAR**

DESIGN ASSOCIATES Archt, Planning & Valuation Warda 72100	NEPAL ELECTRICITY AUTHORITY BUILDING	D			Designed by :	Scale - 1:100	STRUCTURAL DRAWING
		C			Drawn by :		
	B			Checked by :	DATE SEP 2018	SLAB REINFORCEMENT PLAN	
	A			Approved by :			
HATTIBALDA, KATHMANDU	REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY			

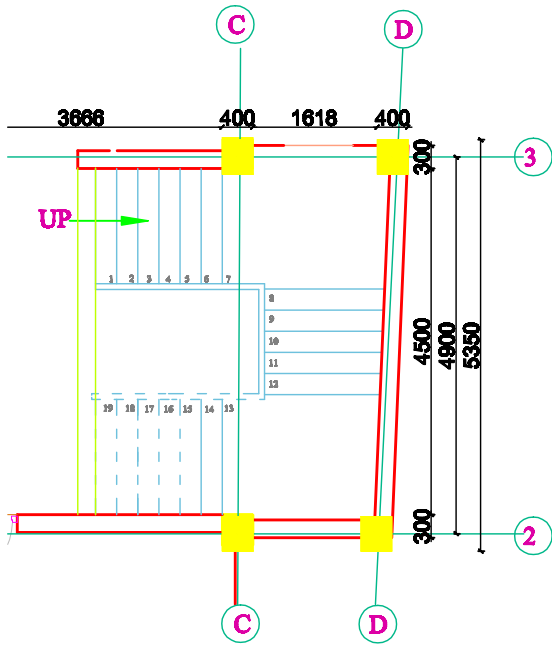


**SLAB REINFORCEMENT PLAN
TOP BAR**

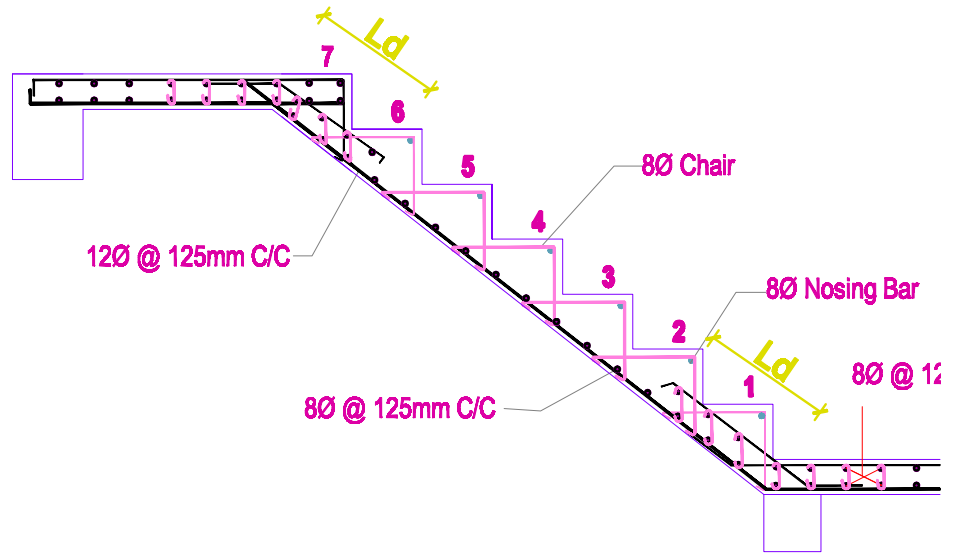
DESIGN ASSOCIATES civil, Planning & Valuation 2108	NEPAL ELECTRICITY AUTHORITY BUILDING	D			Designed by :	Scale - 1:100	STRUCTURAL DRAWING
		C			Drawn by :		
	B			Created by :	DATE: 28/09/2016	SLAB REINFORCEMENT PLAN	
	A			Approved by :			
	REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY			



DESIGN ASSOCIATES s/s, Planning & Valuation m/s 2008	NEPAL ELECTRICITY AUTHORITY BUILDING	D				Designed by :	Scale - 1:100	STRUCTURAL DRAWING
		C				Drawn by :		
	HATIBAUDA, KATHMANDU	B					Checked by :	
		A					Approved by :	
		REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY	DATE: SEP 2018		

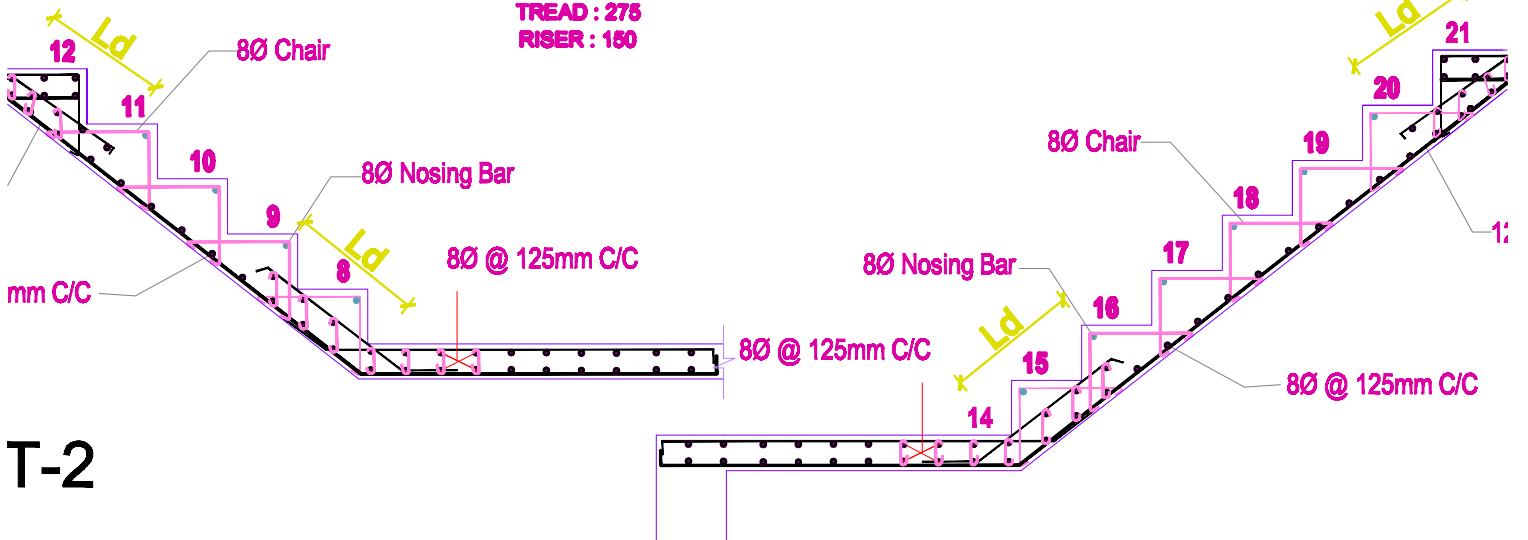


STAIRCASE PLAN



FLIGHT-1

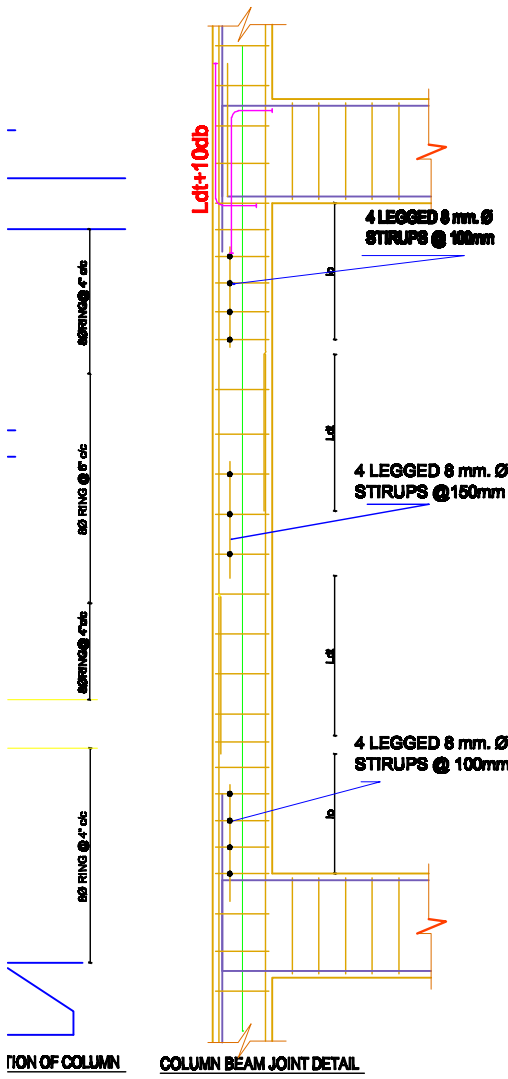
WAIST SLAB THICKNESS : 175
TREAD : 275
RISER : 150



T-2

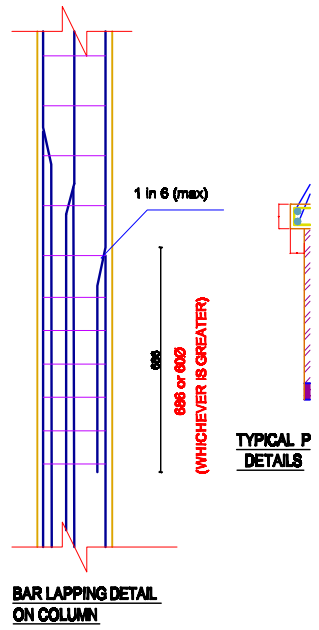
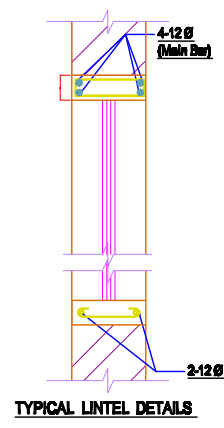
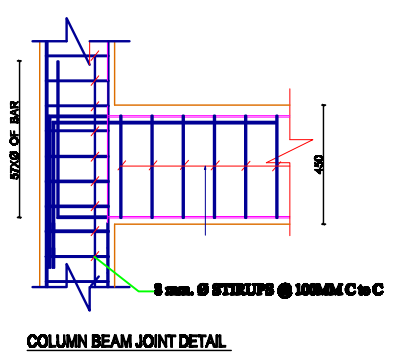
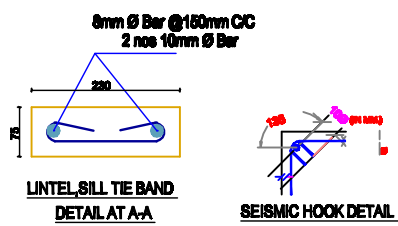
FLIGHT-3

DESIGN ASSOCIATES Structural, Planning & Valuation Inwanku 1072100	NEPAL ELECTRICITY AUTHORITY BUILDING HATTIBAUDA, KATHMANDU	D			Designed by :	Scale - 1:100	STRUCTURAL DRAWING
		C			Drawn by :		
		B			Checked by :		
		A			Approved by :		
		REV.	DATE	DESCRIPTION OF REVISION	APPROVED BY		



Note:

1. Ldt = Effective development length considering tension 58 dia of bars
2. Lo = shall be largest of:
 - a) 1/6 of clear height of column
 - b) larger lateral dimension of column
 - c) 450 mm
3. db= dia. of main bar
4. For concrete column : M25
5. For other concrete : M20
6. Reinforcement : Fe500



DESIGN ASSOCIATES
 Incls, Planning & Valuation
 72108

**NEPAL ELECTRICITY AUTHORITY
 BUILDING**
 HATTIBAUDA, KATHMANDU

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D			
C			
B			
A			

Designed by :	Scale - 1:100
Drawn by :	
Checked by :	
Approved by :	
DATE: SEP 2010	

STRUCTURAL DRAWN
DOCTILE DETAILING