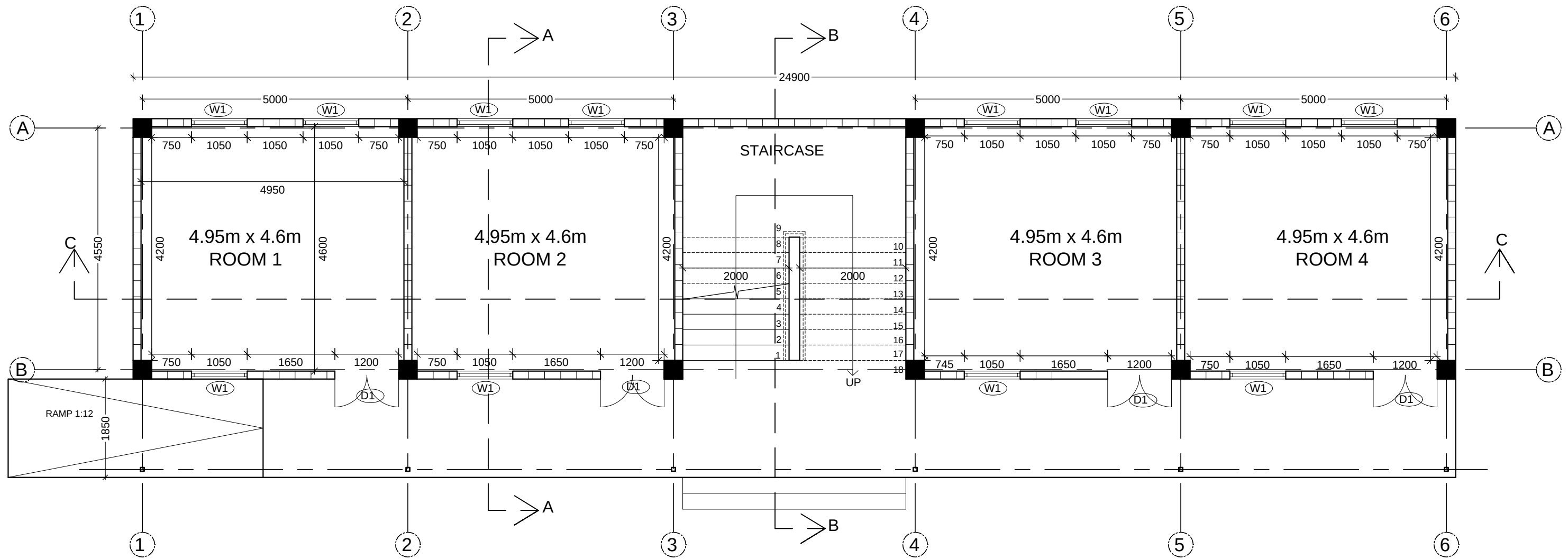


ARCHITECTURAL AND STRUCTURAL DRAWINGS
OF DOUBLE STORIED RCC FRAME SCHOOL
BUILDING WITH COMPRESSED STABILISED
EARTH BLOCK (CSEB) INFILL WALL (EIGHT
CLASSROOMS)



GROUND FLOOR PLAN



BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY RCC FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION:
NEPAL

DRAWING:
GROUND FLOOR PLAN

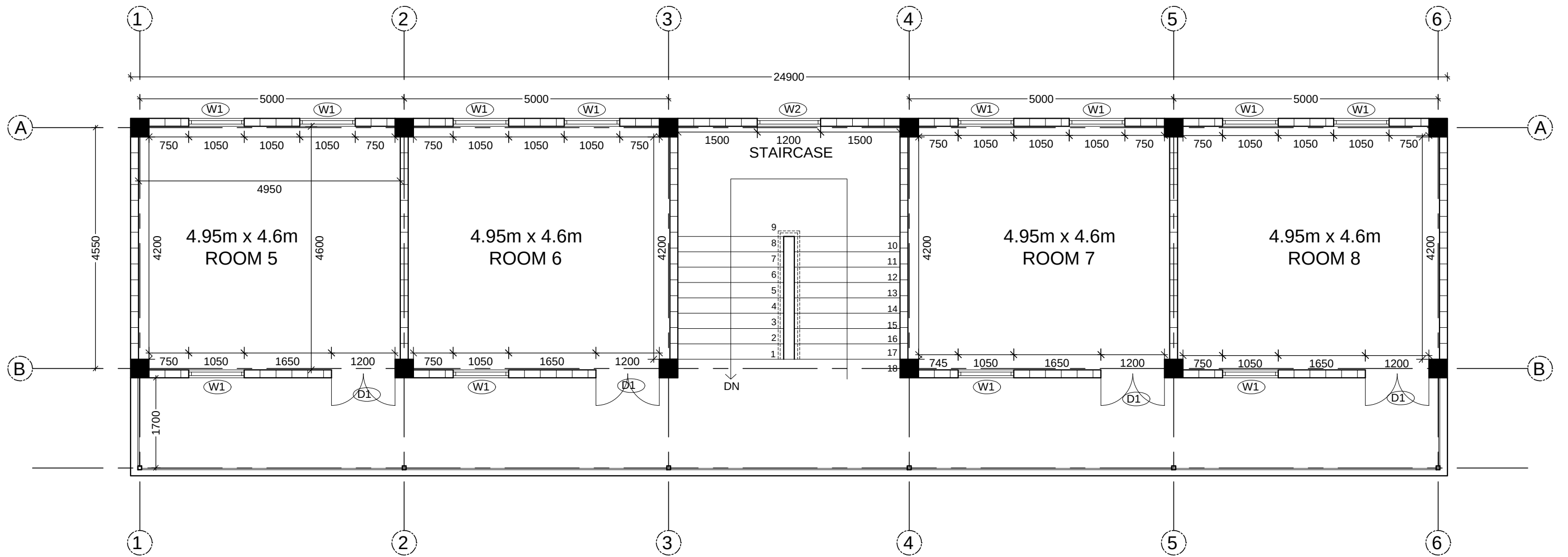
DATE: 05.01.2018

SCALE: 1:75

DWG. NO.

001

A



FIRST FLOOR PLAN



BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY RCC FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION:
NEPAL

DRAWING:
FIRST FLOOR PLAN

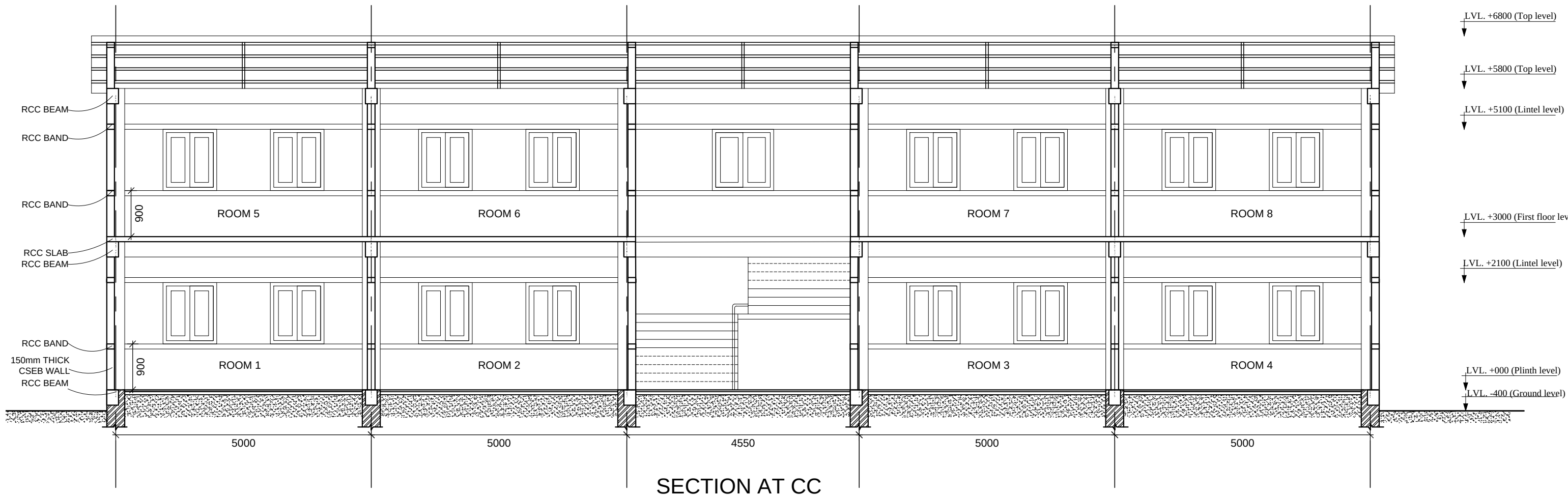
DATE: 05.01.2018

SCALE: 1:75

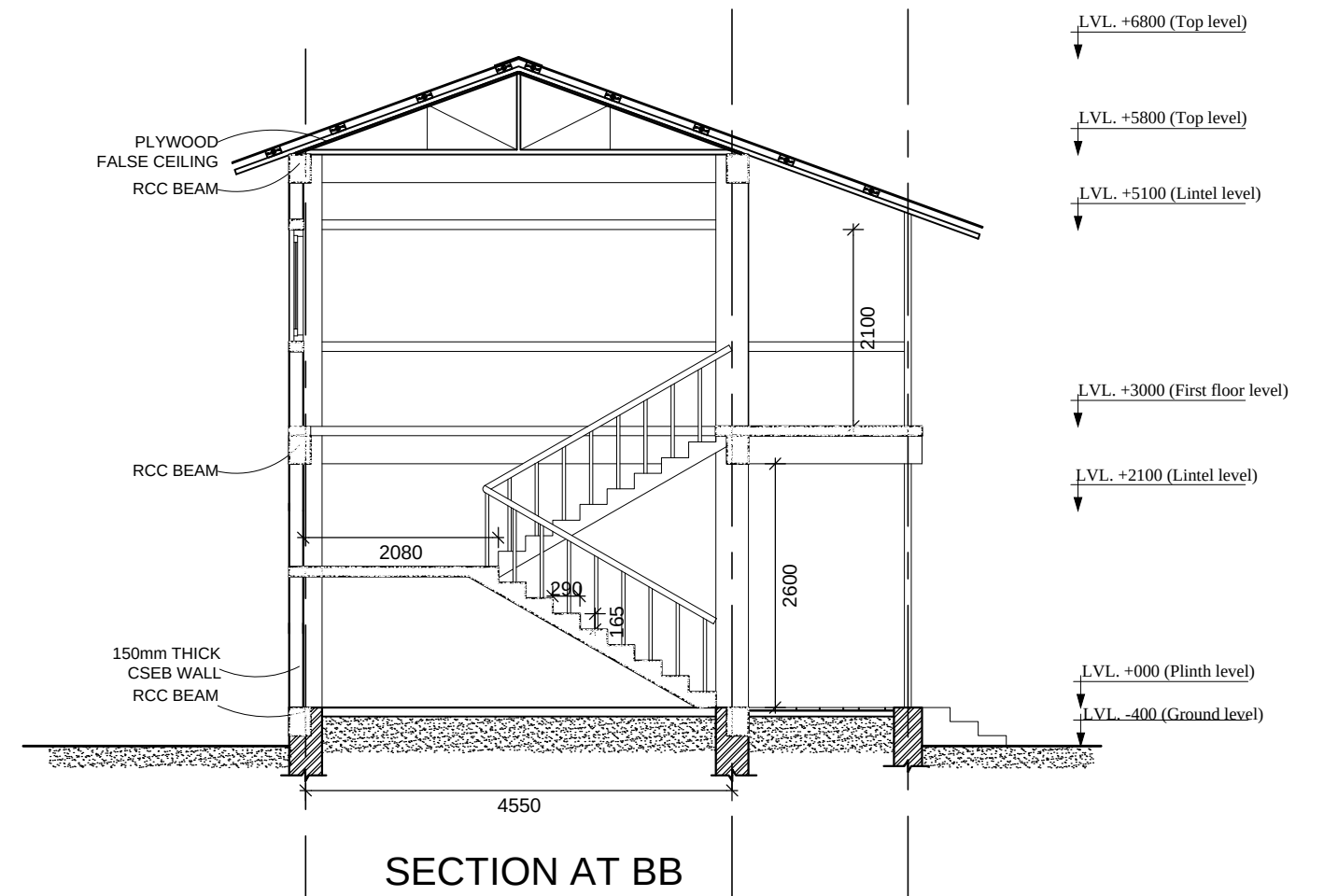
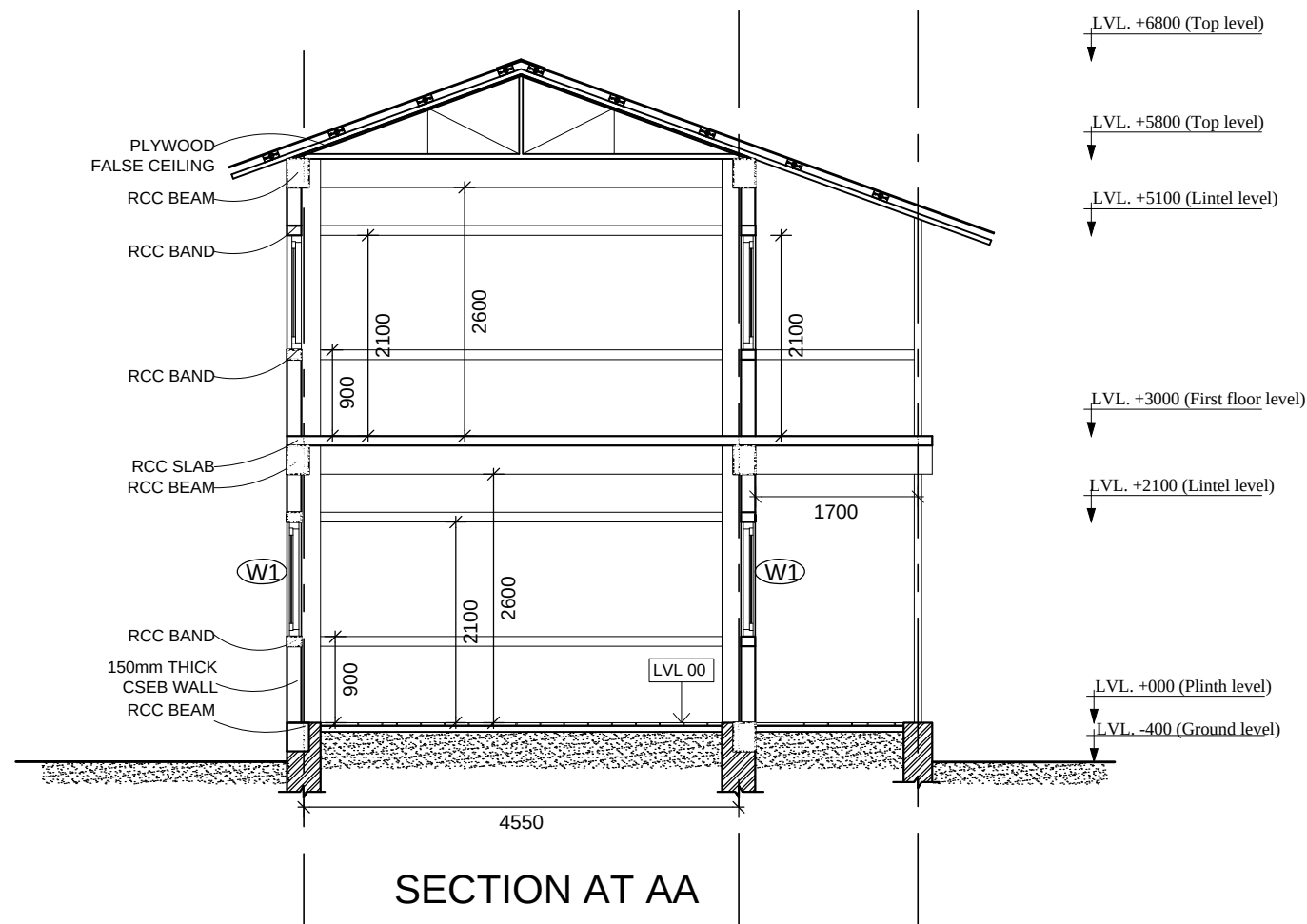
DWG. NO.

002

A



 BUILD UP NEPAL LALITPUR	PROJECT TITLE: DOUBLE STOREY RCC FRAME SCHOOL WITH CSEB INFILL WALL	PROJECT LOCATION: NEPAL	DRAWING: SECTIONS	DATE: 05.01.2018 SCALE: 1:75	DWG. NO. 003
					A



BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY RCC FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION:
NEPAL

DRAWING:
SECTIONS

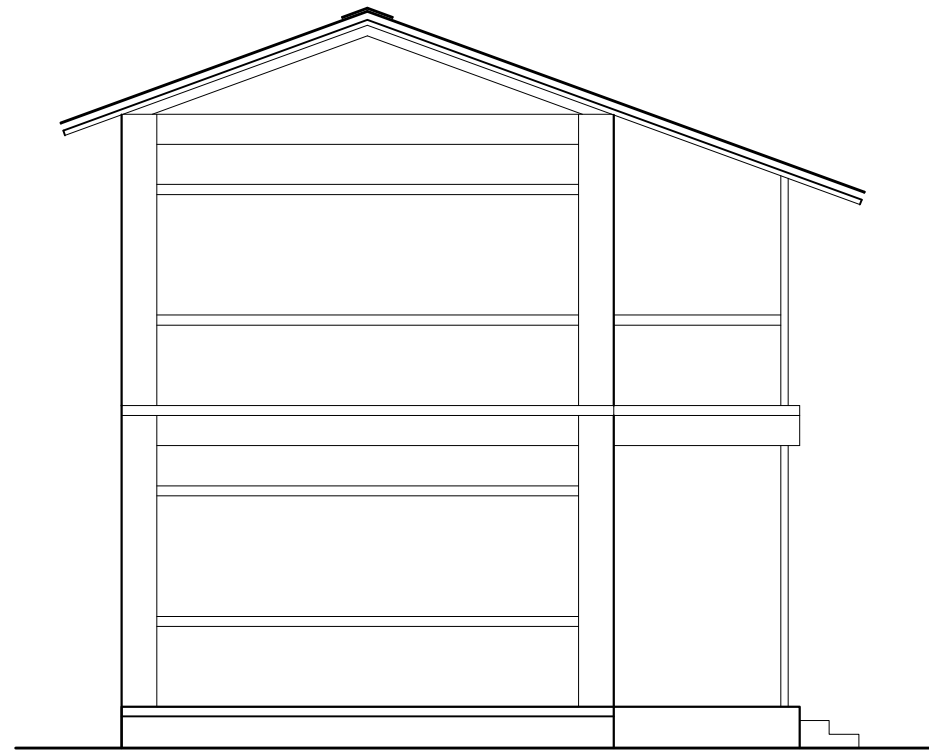
DATE: 05.01.2018

SCALE: 1:75

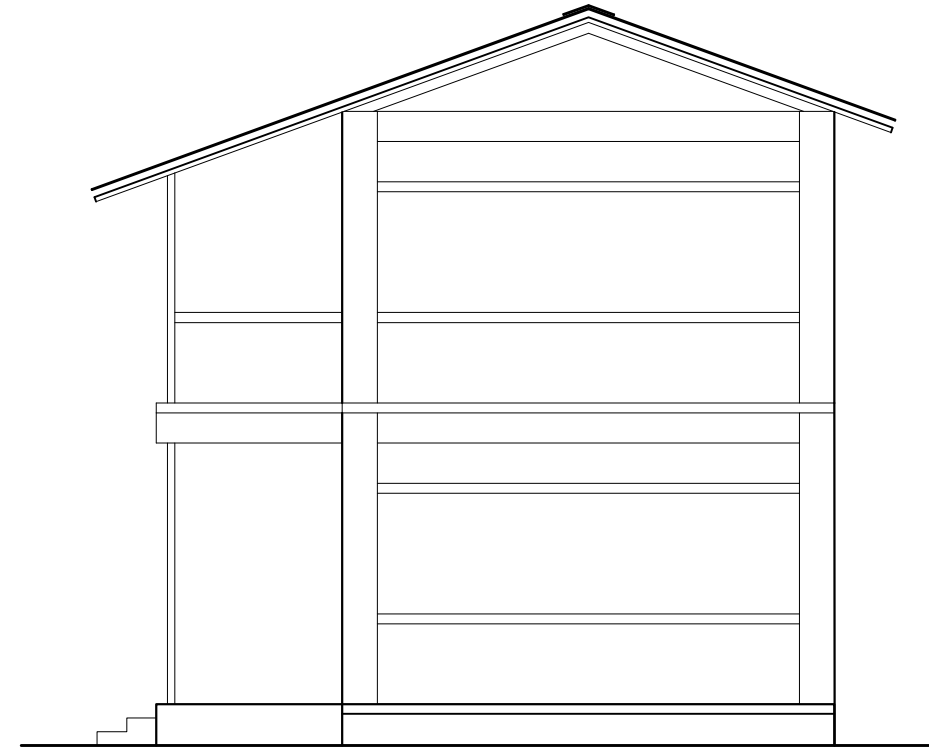
DWG. NO.

004

A



LEFT SIDE ELEVATION



RIGHT SIDE ELEVATION



FRONT ELEVATION



BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY RCC FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION:
NEPAL

DRAWING:
ELEVATIONS

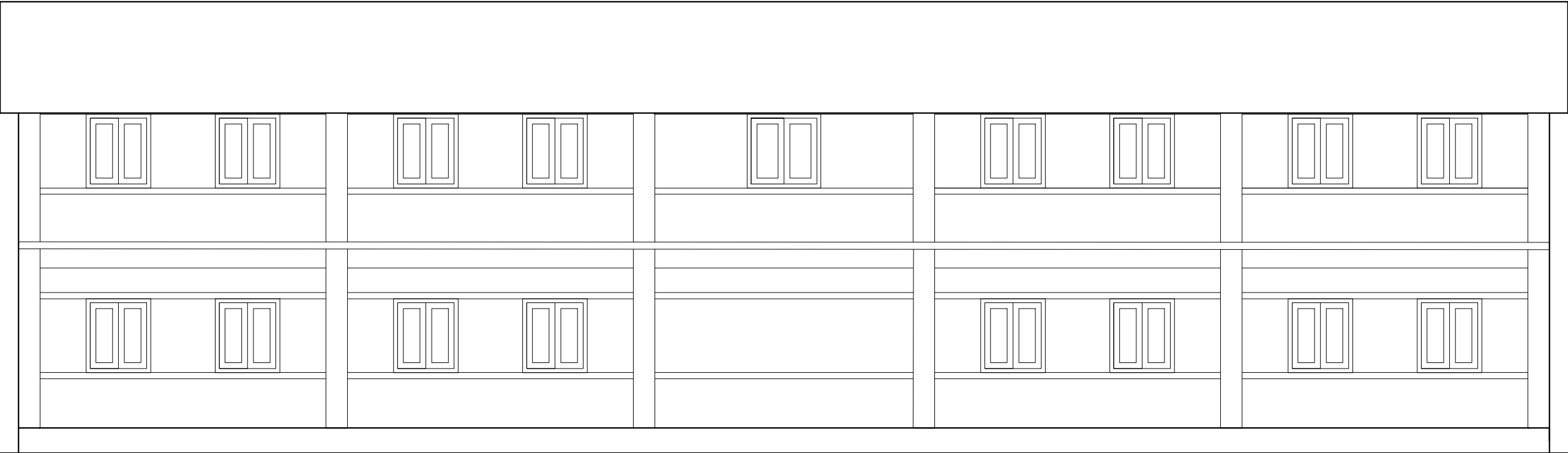
DATE: 05.01.2018

SCALE: 1:75

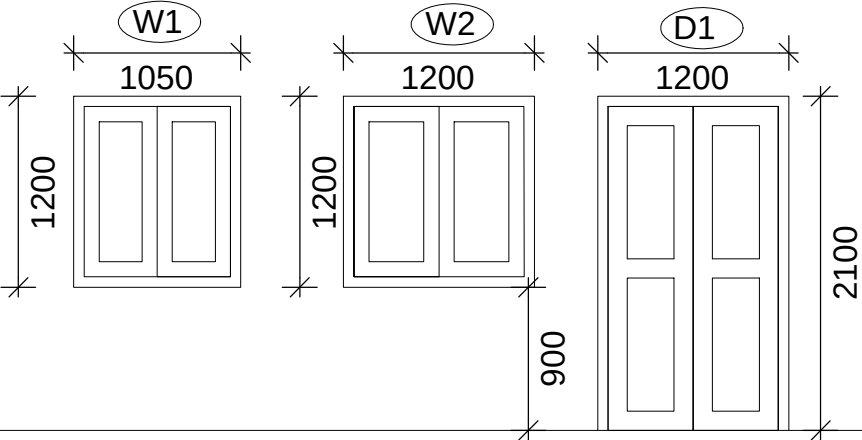
DWG. NO.

005

A



REAR ELEVATION



DOOR/WINDOW SCHEDULE

TYPE	QUANTITY
D1	8
W1	24
W2	1



BUILD UP NEPAL
LALITPUR

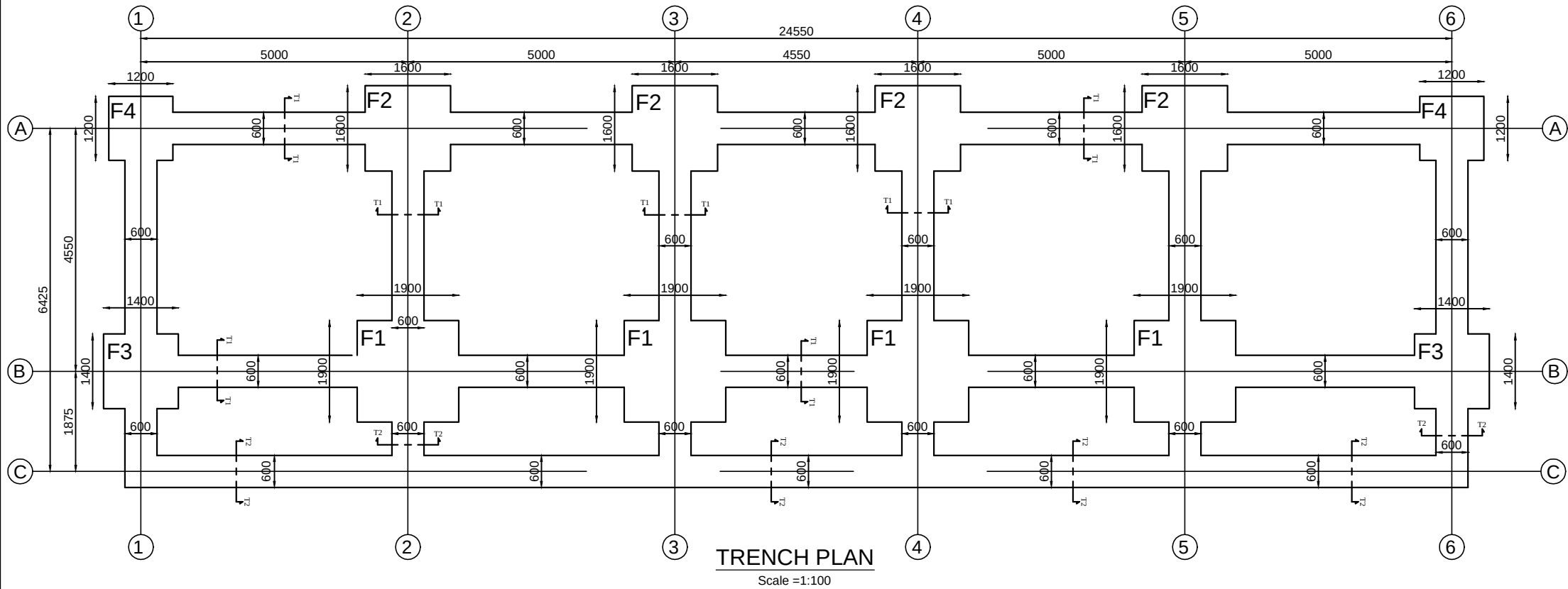
PROJECT TITLE:
DOUBLE STOREY RCC FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION:
NEPAL

DRAWING:
ELEVATIONS

DATE: 05.01.2018
SCALE: 1:75

DWG. NO.
006
A

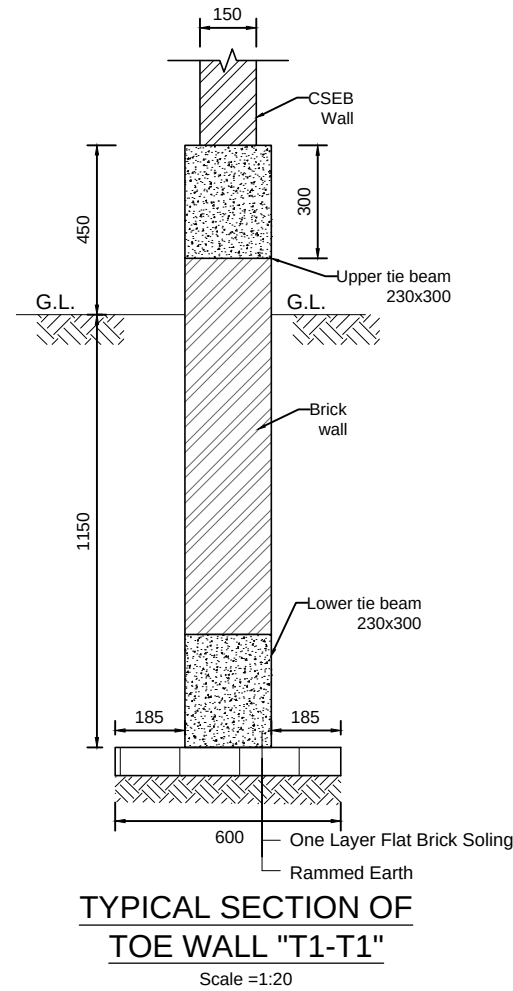


FOUNDATION DETAIL=SAFE BEARING CAPACITY=80KN/MM2

S.NO.	TYPE	GRID	FOOTING SIZE LXB	DEPTH		REBAR	
				D	D'	Astx	Asty
1	F1	B2,B3,B4,B5	2100X2100	400	200	T-12@150mm C/C	T-12@150mm C/C
2	F2	A2,A3,A4,A5	1800X1800	400	200	T-12@150mm C/C	T-12@150mm C/C
3	F3	B1,B6	1600X1600	350	150	T-12@150mm C/C	T-12@150mm C/C
4	F4	A1,A6	1400X1400	350	150	T-12@175mm C/C	T-12@175mm C/C

FOUNDATION DETAIL=SAFE BEARING CAPACITY=100KN/MM2

S.NO.	TYPE	GRID	FOOTING SIZE LXB	DEPTH		REBAR	
				D	D'	Astx	Asty
1	F1	B2,B3,B4,B5	1900X1900	400	200	T-12@150mm C/C	T-12@150mm C/C
2	F2	A2,A3,A4,A5	1600X1600	400	200	T-12@150mm C/C	T-12@150mm C/C
3	F3	B1,B6	1400X1400	350	150	T-12@150mm C/C	T-12@150mm C/C
4	F4	A1,A6	1200X1200	350	150	T-12@175mm C/C	T-12@175mm C/C



GENERAL NOTES:

- Dimensions to be read only.
- All dimensions are in mm unless noted otherwise.
- The structural drawings shall be read in conjunction with architectural drawings. Discrepancies, if any, shall be reported to site engineer.
- Grade of concrete mix shall be M20 for all members conforming to IS 456:2000.
- Reinforcement shall be Thermo Mechanically Treated (TMT) of grade Fe: 500 conforming to IS 456:2000.
- Grade of Structural Steel shall be Fe 250 conforming to IS 800:2007.
- Clear cover to reinforcement shall be as follows:
Footing : 50 mm
Column : 40 mm
Beam : 25 mm
Slab : 20 mm
Staircase Slab : 20 mm
- Lap length equivalent to Development Length (Ld) shall be provided to all splicing of re-bar. Development Length can be taken as 56 times diameter of bar.
- Not more than half the column bars shall be lapped at a section.
- Lap splices shall be provided only in the middle half of the column.
- Lapping of bottom bars in the beam should be restricted to a region at least '2d' away from column face where 'd' is the effective beam depth but excluding middle quarter length of the beam while lapping of top bars should be restricted to one - third length of the beam.
- Confining stirrup in beam - column junction shall be provided in 'd' portion at the spacing indicated where 'd' is the effective beam depth. However, if beams are connected on all the four directions of the columns the spacing should be doubled. In case of difficulty in providing closed stirrups, U - type ties may be provided.
- At beam - column junctions, beam bars if in conflict with column bars should be gradually bent and placed clear off column bars. Under no circumstances, column vertical bars shall be bent to accommodate beam bars.
- Unless otherwise indicated all construction joints shall be roughened joints with minimum amplitude of 5 mm.
- Plumbing slots, holes around pipes, ducts or other items which pass through concrete slab or wall shall be filled and patched to the same depth as the slab or wall.
- In drawings the following symbols and notations are used:
T - Type of Steel
c/c - center to center
Ld - Development Length
2L - Double Legged Stirrup
4L - Four Legged Stirrup

NOTE: ALL DIMENSIONS ARE IN MM AND ARE TO BE READ NOT TO BE MEASURED.

BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION
NEPAL

SHEET TITLE:
**TRENCH PLAN AND FOUNDATION
SECTION DETAILS AND
TOE WALL SECTION
DETAILS**

STRUCTURAL DESIGN BY:
RESILIENT STRUCTURES PVT.LTD
KATHMANDU, NEPAL

DESIGN BY : ISHWOR BAHADUR PANDEY
DRAWN BY: BIJENDRA SOMARE

DATE:05-01-2018

SCALE:

DWG.NO.

01

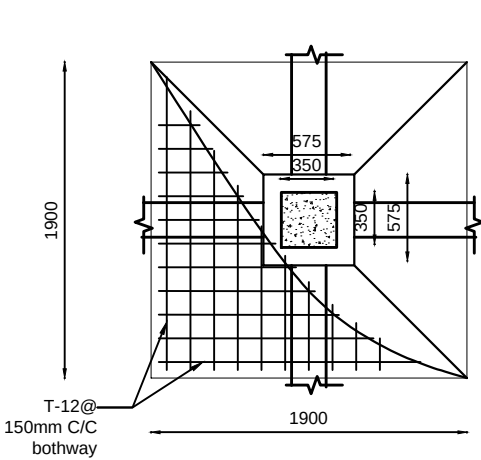
S

FOUNDATION DETAIL=SAFE BEARING CAPACITY=150KN/MM2

S.NO.	TYPE	GRID	FOOTING SIZE LXB	DEPTH		REBAR	
				D	D'	Astx	Asty
1	F1	B2,B3,B4,B5	1550X1550	400	200	T-12@150mm C/C	T-12@150mm C/C
2	F2	A2,A3,A4,A5	1300X1300	400	200	T-12@150mm C/C	T-12@150mm C/C
3	F3	B1,B6	1150X1150	350	150	T-12@150mm C/C	T-12@150mm C/C
4	F4	A1,A6	1000X1000	350	150	T-12@175mm C/C	T-12@175mm C/C

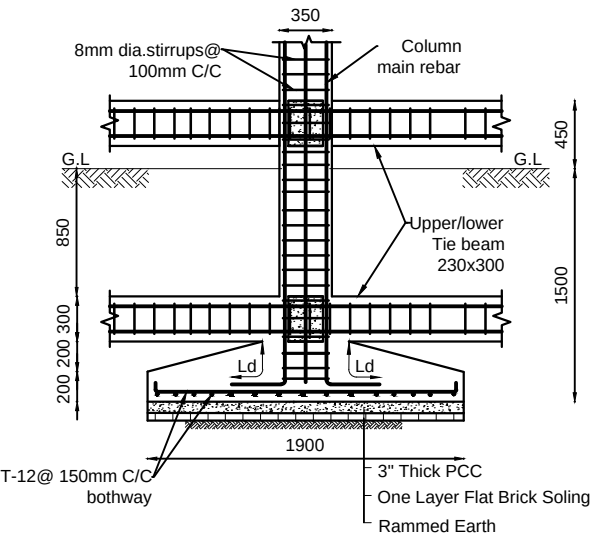
GENERAL NOTES:

1. Dimensions to be read only.
2. All dimensions are in mm unless noted otherwise.
3. The structural drawings shall be read in conjunction with architectural drawings. Discrepancies, if any, shall be reported to site engineer.
4. Grade of concrete mix shall be M20 for all members conforming to IS 456:2000.
5. Reinforcement shall be Thermo Mechanically Treated(TMT) of grade Fe: 500 conforming to IS 456:2000.
6. Grade of Structural Steel shall be Fe 250 conforming to IS 800:2007.
7. Clear cover to reinforcement shall be as follows :
Footing : 50 mm
Column : 40 mm
Beam : 25 mm
Slab : 20 mm
Staircase Slab : 20 mm
8. Lap length equivalent to Development Length (Ld) shall be provided to all splicing of re-bar. Development Length can be taken as 56 times diameter of bar.
9. Not more than half the column bars shall be lapped at a section.
10. Lap splices shall be provided only in the middle half of the column.
11. Lapping of bottom bars in the beam should be restricted to a region at least '2d' away from column face where 'd' is the effective beam depth but excluding middle quarter length of the beam while lapping of top bars should be restricted to one - third length of the beam.
12. Confining stirrup in beam - column junction shall be provided in 'd' portion at the spacing indicated where 'd' is the effective beam depth. However, if beams are connected on all the four directions of the columns the spacing should be doubled. In case of difficulty in providing closed stirrups, U - type ties may be provided.
13. At beam - column junctions, beam bars if in conflict with column bars should be gradually bent and placed clear off column bars. Under no circumstances, column vertical bars shall be bent to accommodate beam bars.
14. Unless otherwise indicated all construction joints shall be roughened joints with minimum amplitude of 5 mm.
15. Plumbing slots, holes around pipes, ducts or other items which pass through concrete slab or wall shall be filled and patched to the same depth as the slab or wall.
16. In drawings the following symbols and notations are used:
T - Type of Steel
c/c - center to center
Ld - Development Length
2L - Double Legged Stirrup
4L - Four Legged Stirrup



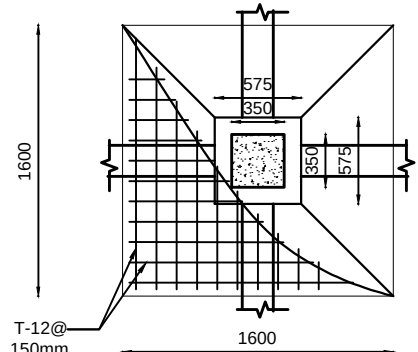
PLAN OF ISOLATED FOOTING(TYPE-F1)

Scale =1:70



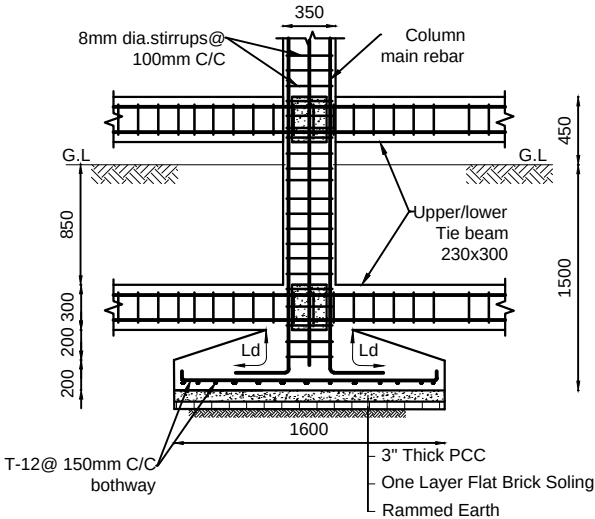
SECTION OF ISOLATED FOOTING(TYPE-F1)

Scale =1:50



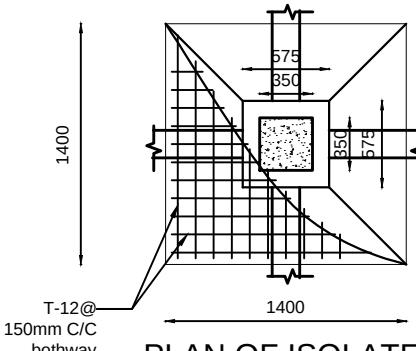
PLAN OF ISOLATED FOOTING(TYPE-F2)

Scale =1:70



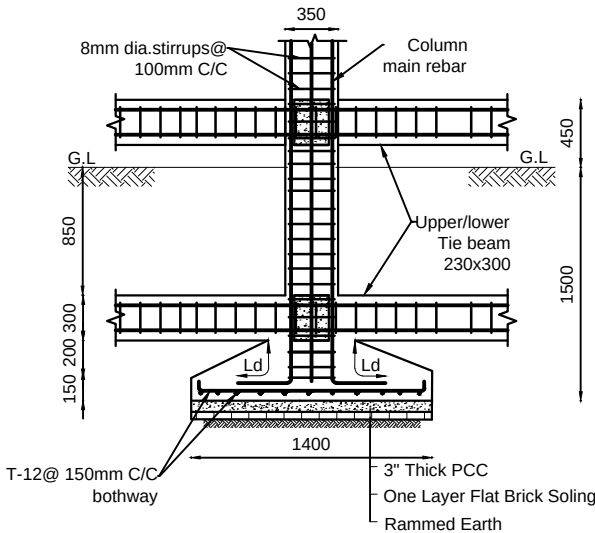
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Scale =1:50



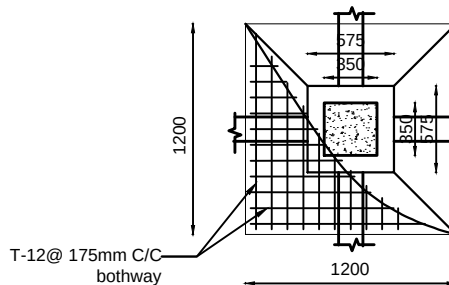
PLAN OF ISOLATED FOOTING(TYPE-F3)

Scale =1:70



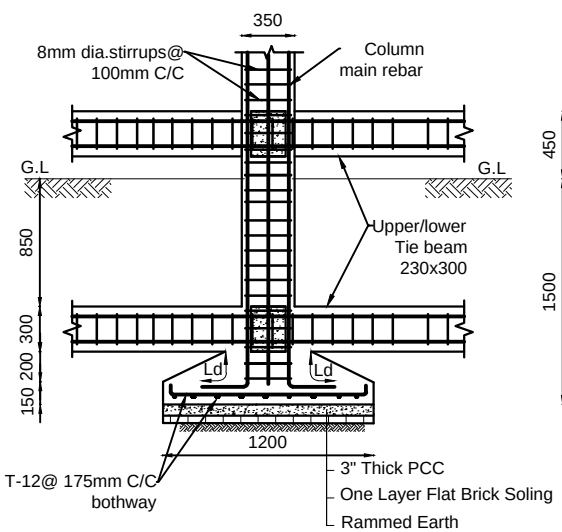
SECTION OF ISOLATED FOOTING(TYPE-F3)

Scale =1:50



PLAN OF ISOLATED FOOTING(TYPE-F4)

Scale =1:70



SECTION OF ISOLATED FOOTING(TYPE-F4)

Scale =1:50

NOTE: ALL DIMENSIONS ARE IN MM AND ARE TO BE READ NOT TO BE MEASURED.

BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION
NEPAL

SHEET TITLE:
FOUNDATION PLAN AND
SECTIONS DETAILS

STRUCTURAL DESIGN BY:
RESILIENT STRUCTURES PVT.LTD
KATHMANDU,NEPAL

DESIGN BY : ISHWOR BAHADUR PANDEY
DRAWN BY: BIJENDRA SOMARE

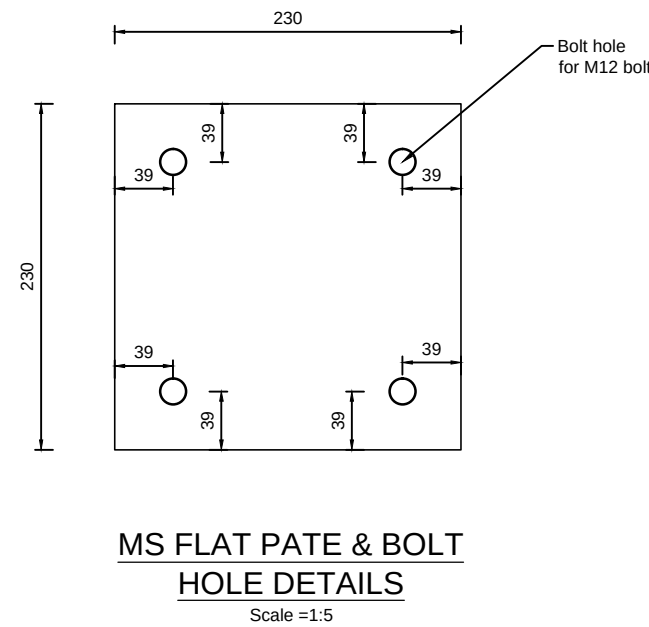
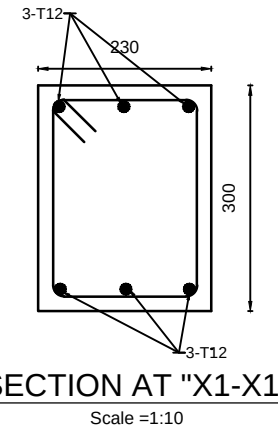
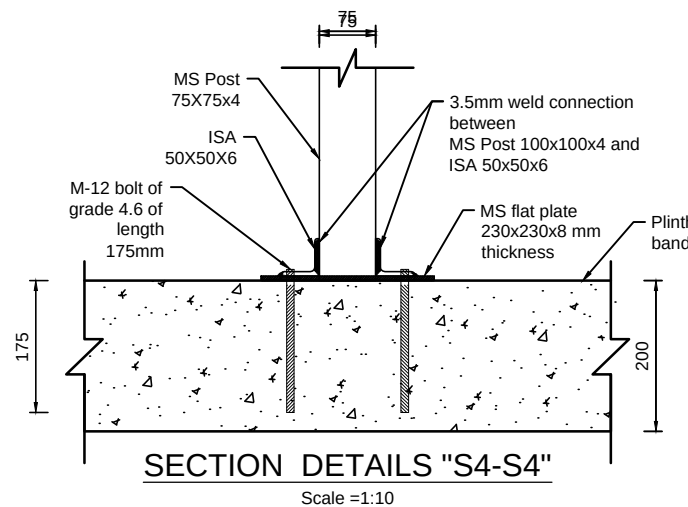
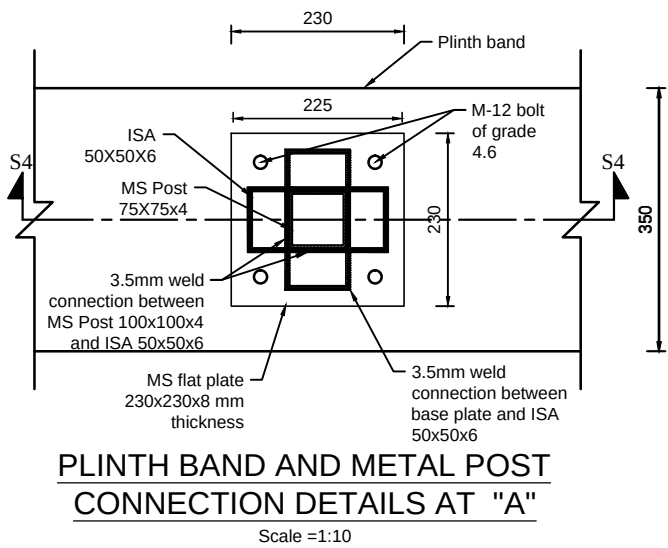
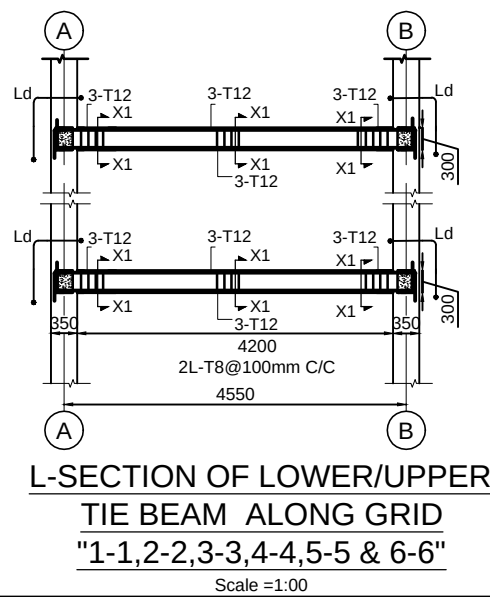
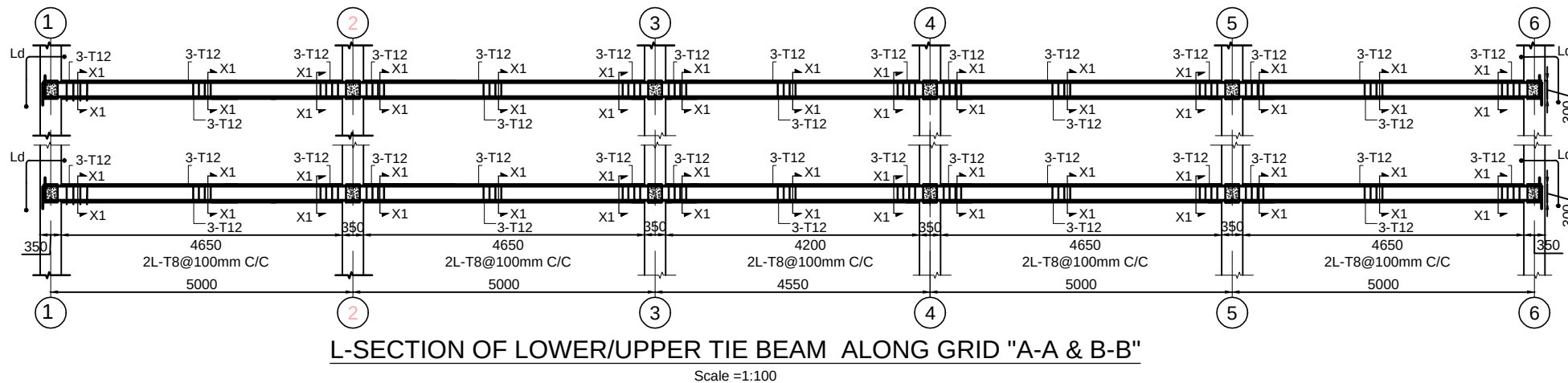
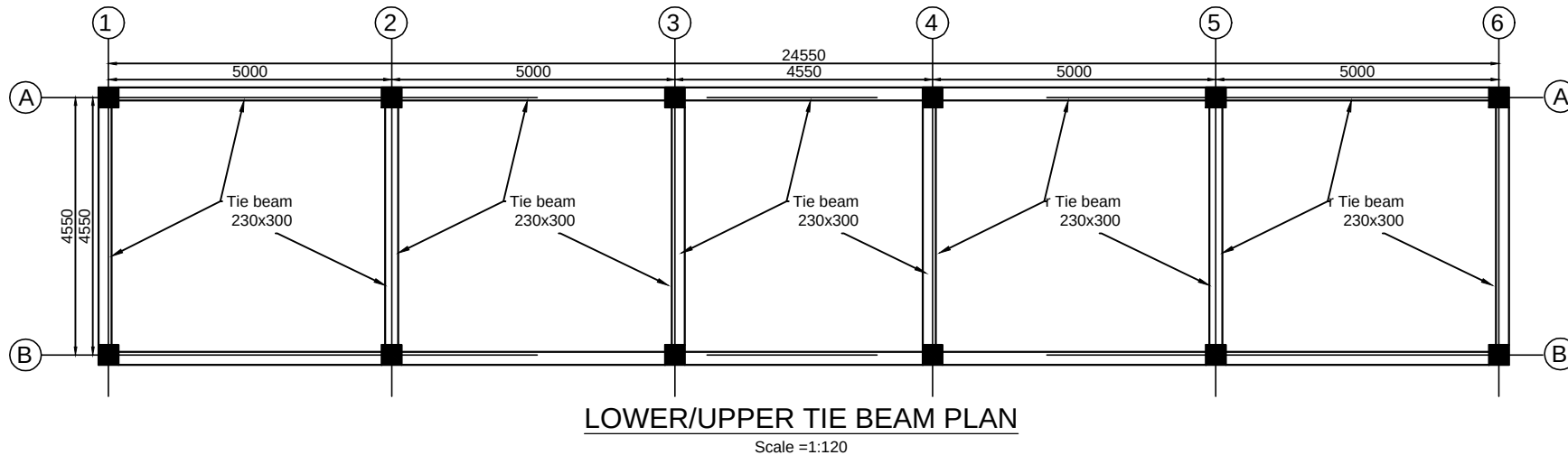
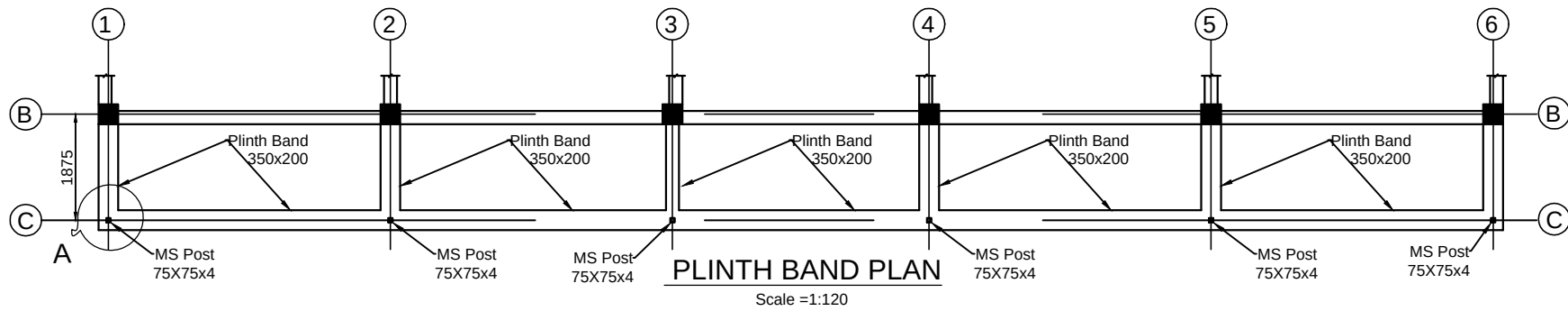
DATE:05-01-2018

SCALE:

DWG.NO.

02

S



GENERAL NOTES:

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- All dimensions are in mm unless noted otherwise.
- The structural drawings shall be read in conjunction with architectural drawings. Discrepancies, if any, shall be reported to site engineer.
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- In drawings the following symbols and notations are used:
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c/c - center to center
Ld - Development Length
2L - Double Legged Stirrup
4L - Four Legged Stirrup

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BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION
NEPAL

SHEET TITLE:
**LOWER/UPPER TIE BEAM
PLAN AND SECTION DETAILS
PLINTH BAND PLAN AND
MS POST CONNECTION
DETAILS WITH PLINTH BAND**

STRUCTURAL DESIGN BY:
RESILIENT STRUCTURES PVT.LTD
KATHMANDU, NEPAL

DESIGN BY : ISHWOR BAHADUR PANDEY
DRAWN BY: BIJENDRA SOMARE

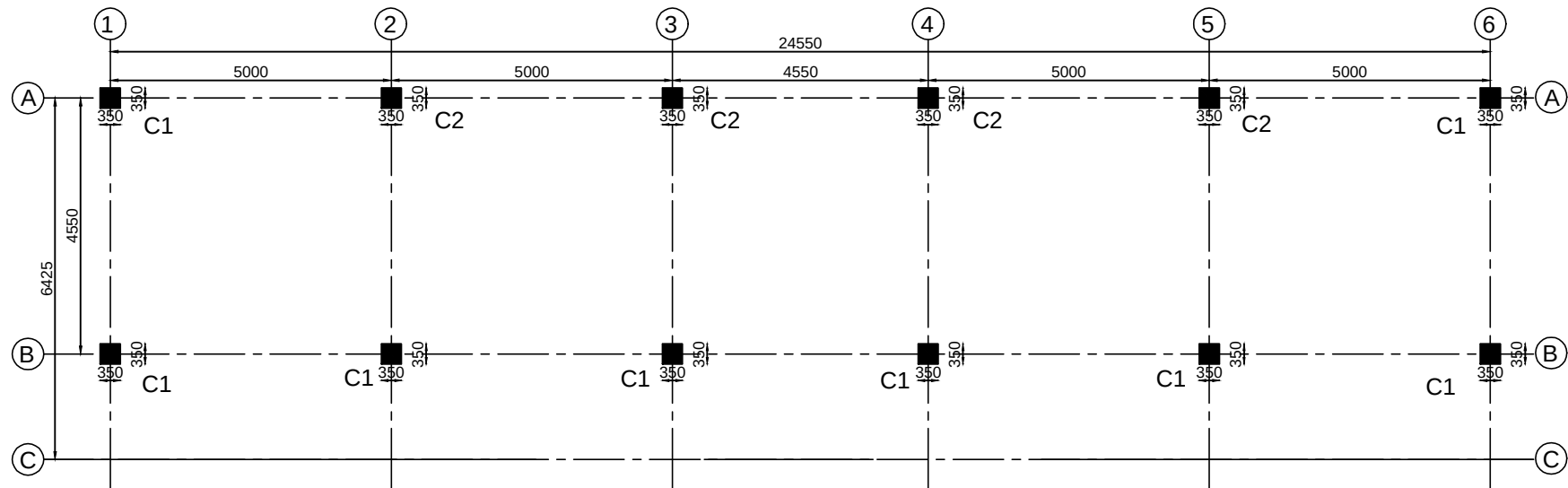
DATE: 05-01-2018

SCALE:

DWG.NO.

03

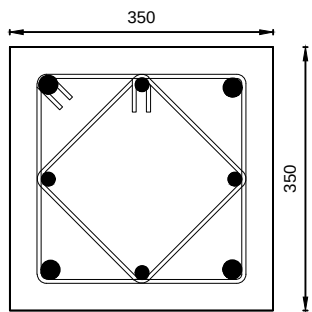
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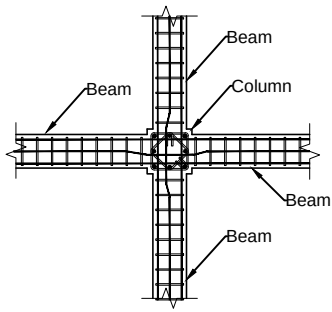
COLUMN PLAN
Scale =1:120

COLUMN DETAIL

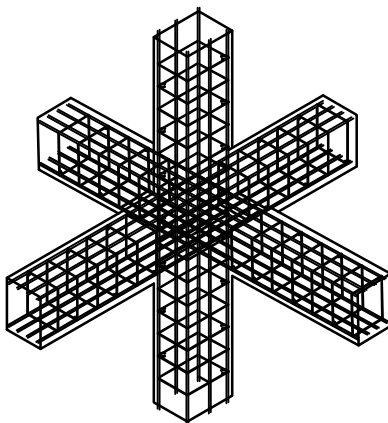
S. No.	TYPE	GRID	COLUMN SIZE	FLOOR	REINFORCEMENT			SECTIONS	SHAPE OF STIRRUPS
					LONGITUDINAL	LATERAL TIES			
						IN (h + z)	IN (H - 2h)		
1	C1	B1,B2,B3,B4 B5,B6,A1,A6	350X350	GF	4-T20+4-T16	T8@100 c/c	T8@100 c/c		
				FF	8- T16	T8@100 c/c	T8@100 c/c		
2	C2	B2,B3,B4,B5	350X350	GF	8- T16	T8@100 c/c	T8@100 c/c		
				FF	8- T16	T8@100 c/c	T8@100 c/c		



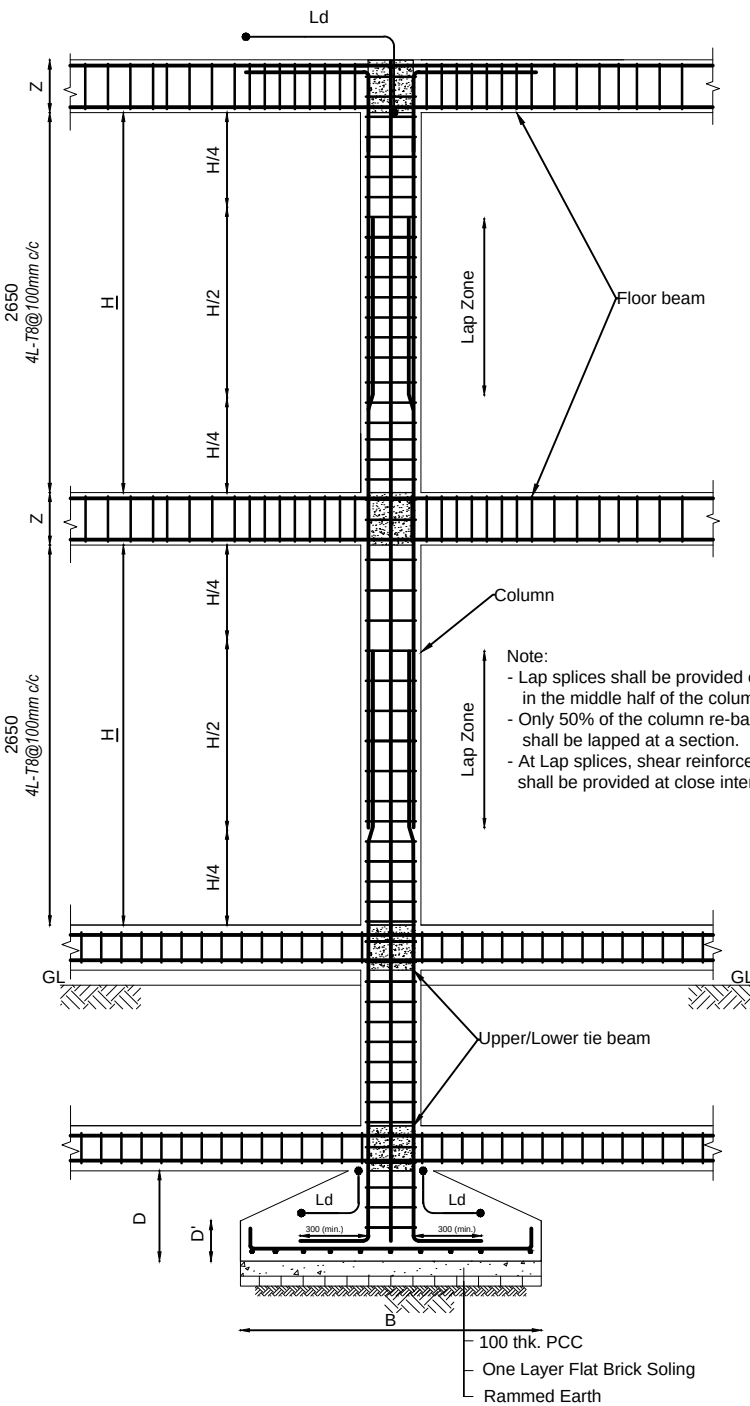
COLUMN SECTION
"C1 & C2"
Scale =1:10



SECTIONAL PLAN OF BEAM-
COLUMN JOINT
Scale: 1:50



ISOMETRIC VIEW OF COLUMN / BEAM
JOINT REINFORCEMENT DETAIL
Scale: 1:50



TYPICAL L-SECTION OF COLUMN
Scale =1:50

GENERAL NOTES:

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Column : 40 mm
Beam : 25 mm
Slab : 20 mm
Staircase Slab : 20 mm
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T - Type of Steel
c/c - center to center
Ld - Development Length
2L - Double Legged Stirrup
4L - Four Legged Stirrup

NOTE: ALL DIMENSIONS ARE IN MM AND ARE TO BE READ NOT TO BE MEASURED.

BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION
NEPAL

SHEET TITLE:
COLUMN PLAN AND TYPICAL
COLUMN SECTION DETAILS
BEAM COLUMN JOINT
SECTIONS AND ISOMETRIC
VIEW

STRUCTURAL DESIGN BY:
RESILIENT STRUCTURES PVT.LTD
KATHMANDU, NEPAL

DESIGN BY : ISHWOR BAHADUR PANDEY
DRAWN BY: BIJENDRA SOMARE

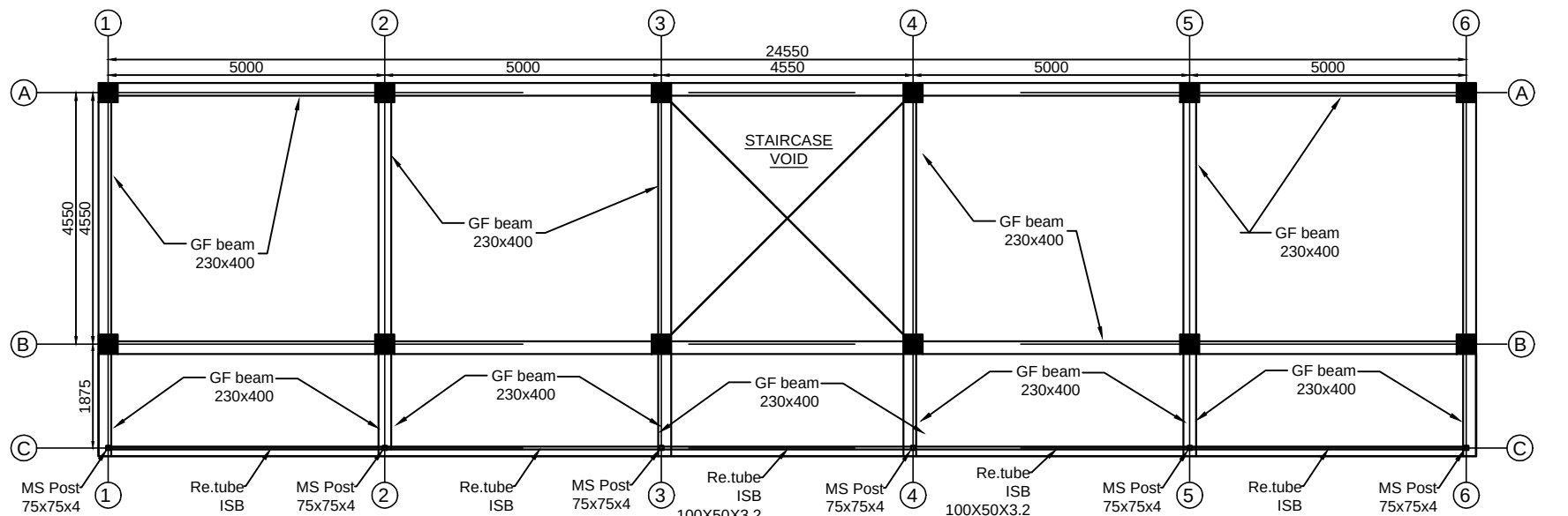
DATE:05-01-2018

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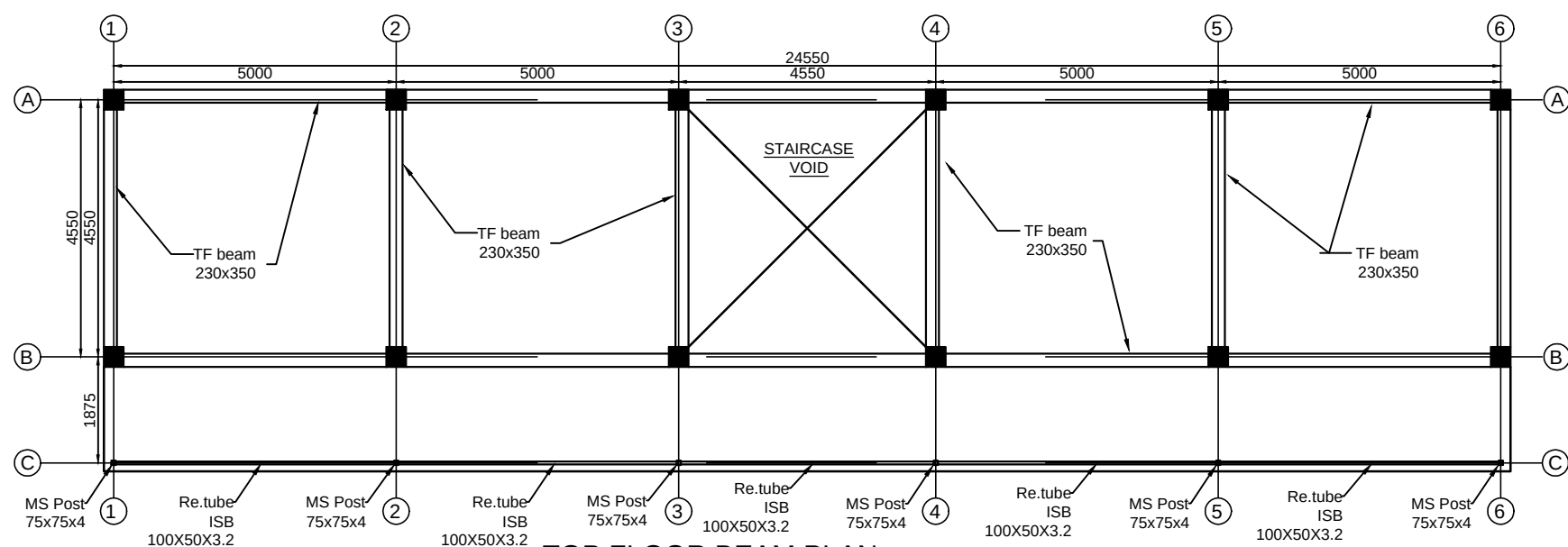
DWG.NO.

04

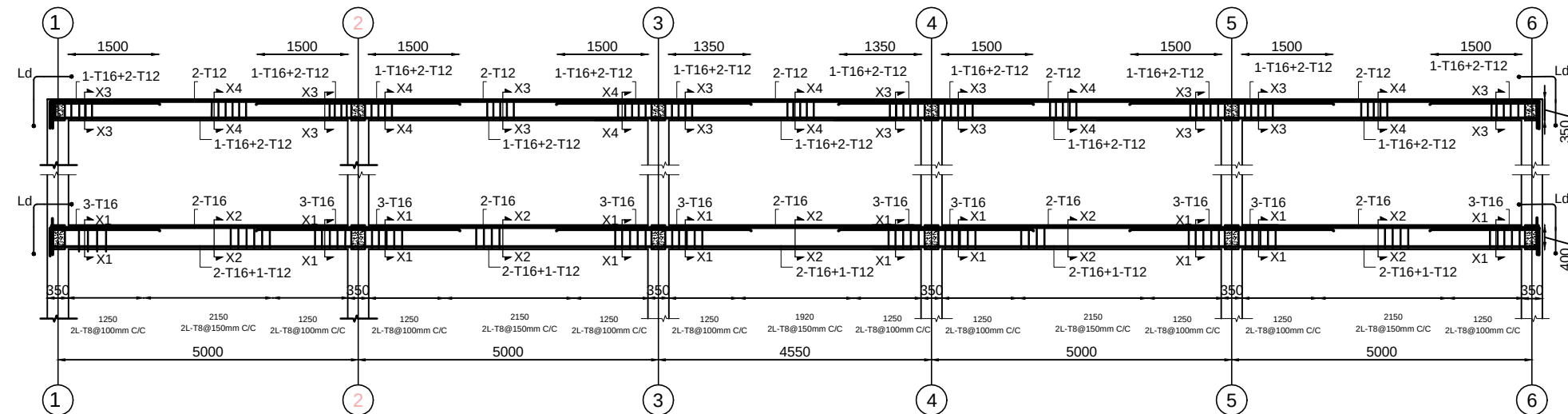
S



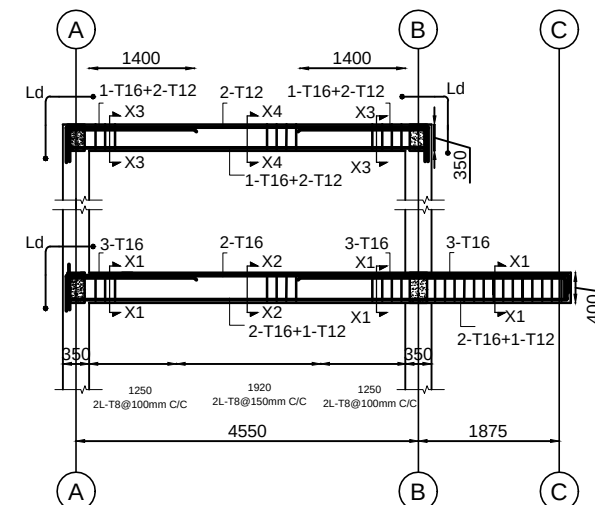
GROUND FLOOR BEAM PLAN
Scale =1:120



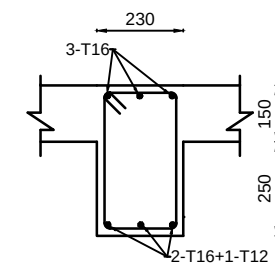
TOP FLOOR BEAM PLAN
Scale =1:120



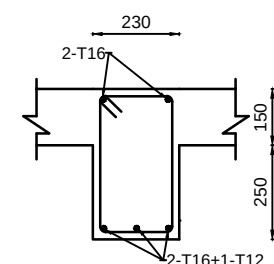
L-SECTION OF GROUND/TOP FLOOR BEAM ALONG GRID "A-A & B-B"
Scale =1:100



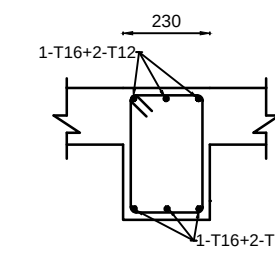
L-SECTION OF GROUND/TOP
FLOOR BEAM ALONG GRID
"1-1,2-2,3-3,4-4,5-5 & 6-6"
Scale =1:100



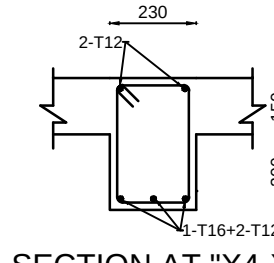
SECTION AT "X1-X1"
Scale =1:20



SECTION AT "X2-X2"
Scale =1:20



SECTION AT "X3-X3"
Scale =1:20



SECTION AT "X4-X4"
Scale =1:20

GENERAL NOTES:

- Dimensions to be read only.
- All dimensions are in mm unless noted otherwise.
- The structural drawings shall be read in conjunction with architectural drawings. Discrepancies, if any, shall be reported to site engineer.
- Grade of concrete mix shall be M20 for all members conforming to IS 456:2000.
- Reinforcement shall be Thermo Mechanically Treated (TMT) of grade Fe: 500 conforming to IS 456:2000.
- Grade of Structural Steel shall be Fe 250 conforming to IS 800:2007.
- Clear cover to reinforcement shall be as follows :
Footing : 50 mm
Column : 40 mm
Beam : 25 mm
Slab : 20 mm
Staircase Slab : 20 mm
- Lap length equivalent to Development Length (Ld) shall be provided to all splicing of re-bar. Development Length can be taken as 56 times diameter of bar.
- Not more than half the column bars shall be lapped at a section.
- Lap splices shall be provided only in the middle half of the column.
- Lapping of bottom bars in the beam should be restricted to a region at least '2d' away from column face where 'd' is the effective beam depth but excluding middle quarter length of the beam while lapping of top bars should be restricted to one - third length of the beam.
- Confining stirrup in beam - column junction shall be provided in 'd' portion at the spacing indicated where 'd' is the effective beam depth. However, if beams are connected on all the four directions of the columns the spacing should be doubled. In case of difficulty in providing closed stirrups, U - type ties may be provided.
- At beam - column junctions, beam bars if in conflict with column bars should be gradually bent and placed clear off column bars. Under no circumstances, column vertical bars shall be bent to accommodate beam bars.
- Unless otherwise indicated all construction joints shall be roughened joints with minimum amplitude of 5 mm.
- Plumbing slots, holes around pipes, ducts or other items which pass through concrete slab or wall shall be filled and patched to the same depth as the slab or wall.
- In drawings the following symbols and notations are used:
T - Type of Steel
c/c - center to center
Ld - Development Length
2L - Double Legged Stirrup
4L - Four Legged Stirrup

NOTE: ALL DIMENSIONS ARE IN MM AND ARE TO BE READ NOT TO BE MEASURED.

BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION
NEPAL

SHEET TITLE:
**GROUND/TOP FLOOR BEAM
PLAN AND SECTION DETAILS**

STRUCTURAL DESIGN BY:
RESILIENT STRUCTURES PVT.LTD
KATHMANDU, NEPAL

DESIGN BY : ISHWOR BAHADUR PANDEY
DRAWN BY: BIJENDRA SOMARE

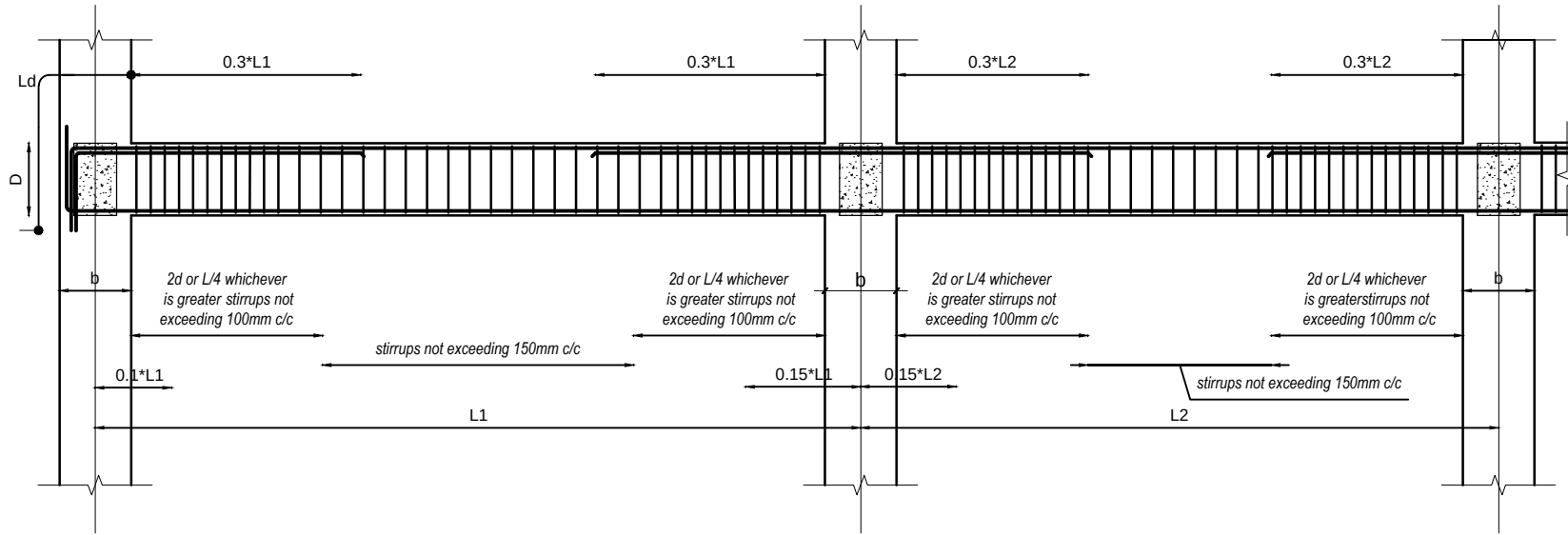
DATE:05-01-2018

SCALE:

DWG.NO.

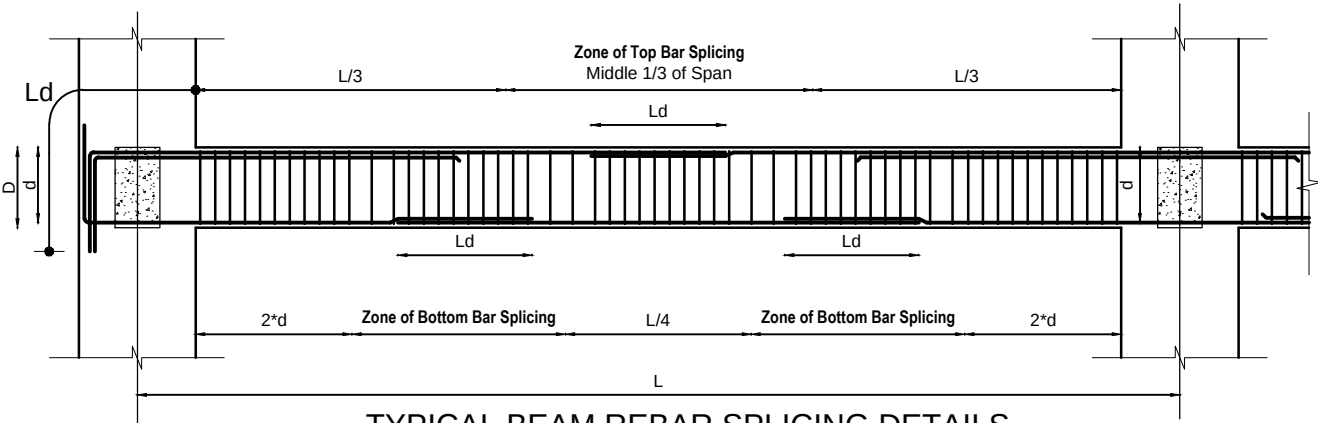
05

S



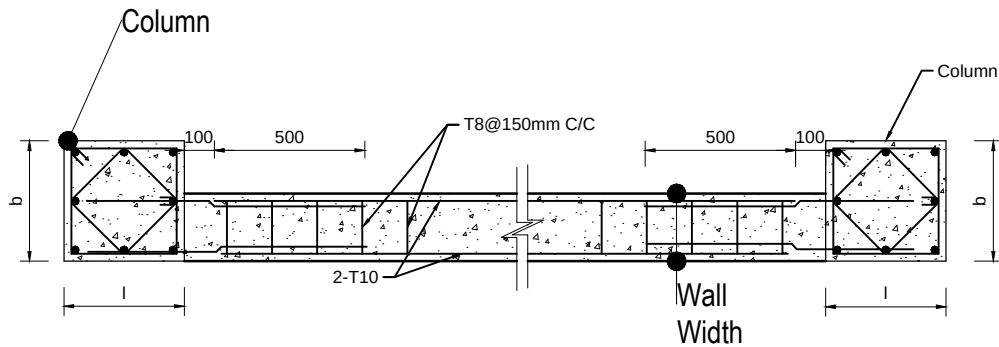
TYPICAL BEAM PROFILE CURTAILMENT DETAILS

Scale: 1:50



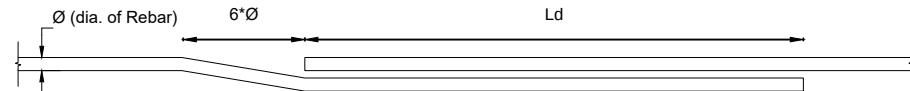
TYPICAL BEAM REBAR SPlicing DETAILS

Scale: 1:50



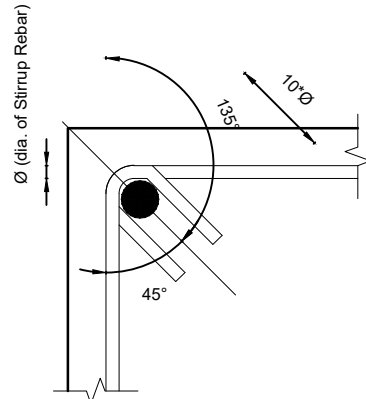
**SECTION AT A-A
(LINTEL/SILL BAND)**

Scale =1:20



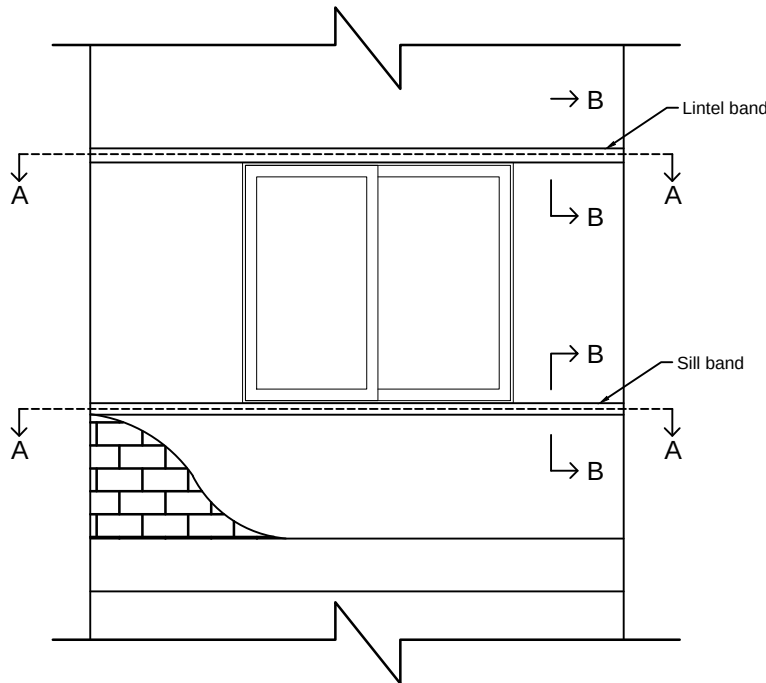
REBAR LAPPING DETAILS

Scale: 1:20



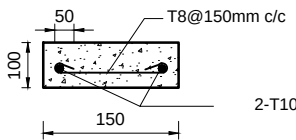
STIRRUP HOOK DETAIL

Scale =1:20



ELEVATION OF WALL

Scale =1:40



**X-SECTION OF SILL
&LINTEL BAND(B-B)**

Scale =1:10

GENERAL NOTES:

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4. Grade of concrete mix shall be M20 for all members conforming to IS 456:2000.
5. Reinforcement shall be Thermo Mechanically Treated (TMT) of grade Fe: 500 conforming to IS 456:2000.
6. Grade of Structural Steel shall be Fe 250 conforming to IS 800:2007.
7. Clear cover to reinforcement shall be as follows :
Footing : 50 mm
Column : 40 mm
Beam : 25 mm
Slab : 20 mm
Staircase Slab : 20 mm
8. Lap length equivalent to Development Length (Ld) shall be provided to all splicing of re-bar. Development Length can be taken as 56 times diameter of bar.
9. Not more than half the column bars shall be lapped at a section.
10. Lap splices shall be provided only in the middle half of the column.
11. Lapping of bottom bars in the beam should be restricted to a region at least '2d' away from column face where 'd' is the effective beam depth but excluding middle quarter length of the beam while lapping of top bars should be restricted to one - third length of the beam.
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13. At beam - column junctions, beam bars if in conflict with column bars should be gradually bent and placed clear off column bars. Under no circumstances, column vertical bars shall be bent to accommodate beam bars.
14. Unless otherwise indicated all construction joints shall be roughened joints with minimum amplitude of 5 mm.
15. Plumbing slots, holes around pipes, ducts or other items which pass through concrete slab or wall shall be filled and patched to the same depth as the slab or wall.
16. In drawings the following symbols and notations are used:
T - Type of Steel
c/c - center to center
Ld - Development Length
2L - Double Legged Stirrup
4L - Four Legged Stirrup

NOTE: ALL DIMENSIONS ARE IN MM AND ARE TO BE READ NOT TO BE MEASURED.

BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION
NEPAL

SHEET TITLE:
**TYPICAL BEAM REBAR
SPlicing AND
CURTAILMENT DETAILS AND
LINTEL /SILL BAND DETAILS**

STRUCTURAL DESIGN BY:
RESILIENT STRUCTURES PVT.LTD
KATHMANDU,NEPAL

DESIGN BY : ISHWOR BAHADUR PANDEY
DRAWN BY: BIJENDRA SOMARE

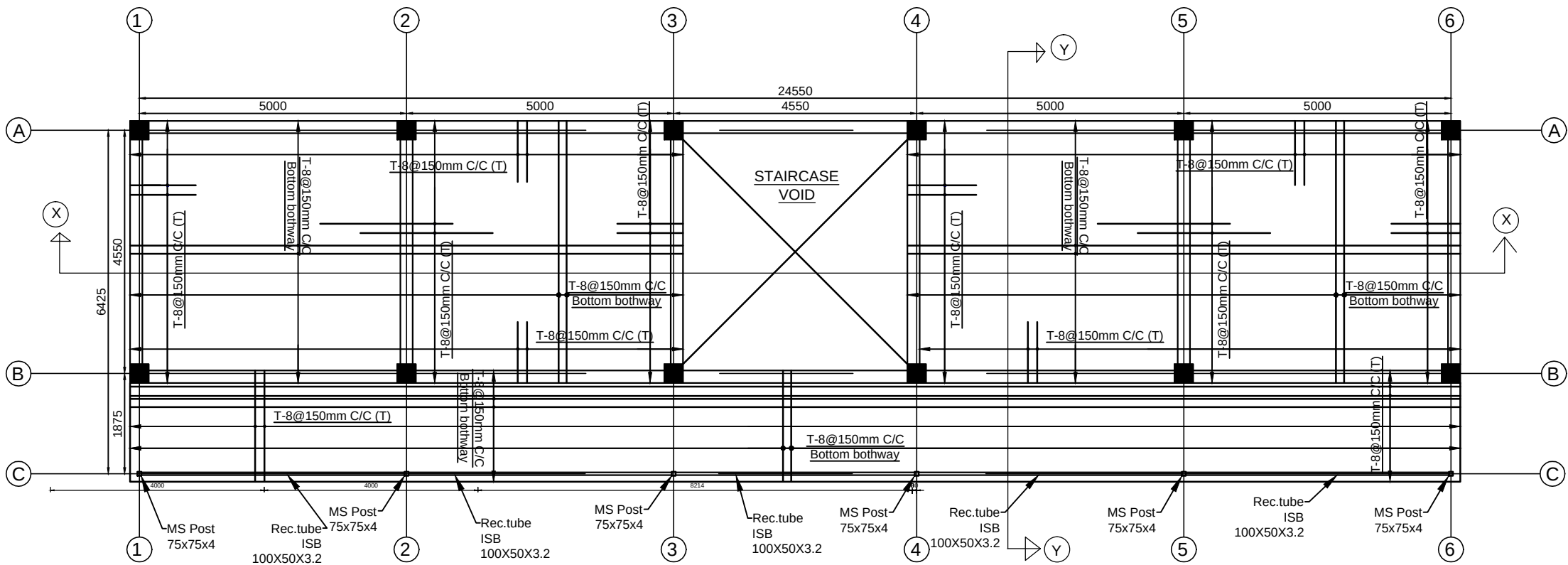
DATE:05-01-2018

DWG.NO.

06

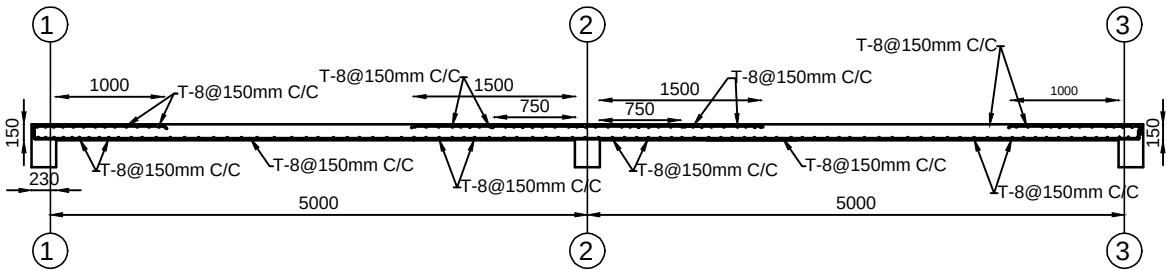
SCALE:

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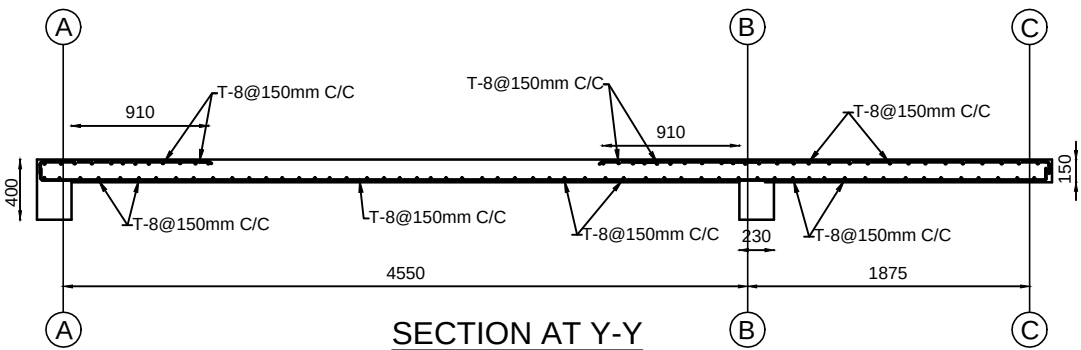
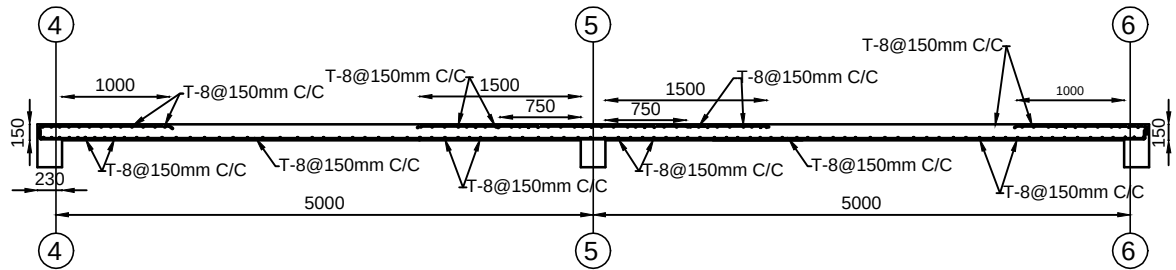


REINFORCEMENT DETAILING IN GROUND FLOOR SLAB
Scale =1:100

- GENERAL NOTES:
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 3. The structural drawings shall be read in conjunction with architectural drawings. Discrepancies, if any, shall be reported to site engineer.
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Beam : 25 mm
Slab : 20 mm
Staircase Slab : 20 mm
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 15. Plumbing slots, holes around pipes, ducts or other items which pass through concrete slab or wall shall be filled and patched to the same depth as the slab or wall.
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Ld - Development Length
2L - Double Legged Stirrup
4L - Four Legged Stirrup



SECTION AT X-X
Scale =1:70



SECTION AT Y-Y
Scale =1:50

NOTE: ALL DIMENSIONS ARE IN MM AND ARE TO BE READ NOT TO BE MEASURED.

BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION
NEPAL

SHEET TITLE:
**REINFORCEMENT PLAN &
SECTION DETAILS IN GROUND
FLOOR SLAB**

STRUCTURAL DESIGN BY:
RESILIENT STRUCTURES PVT.LTD
KATHMANDU, NEPAL

DESIGN BY : ISHWOR BAHADUR PANDEY
DRAWN BY: BIJENDRA SOMARE

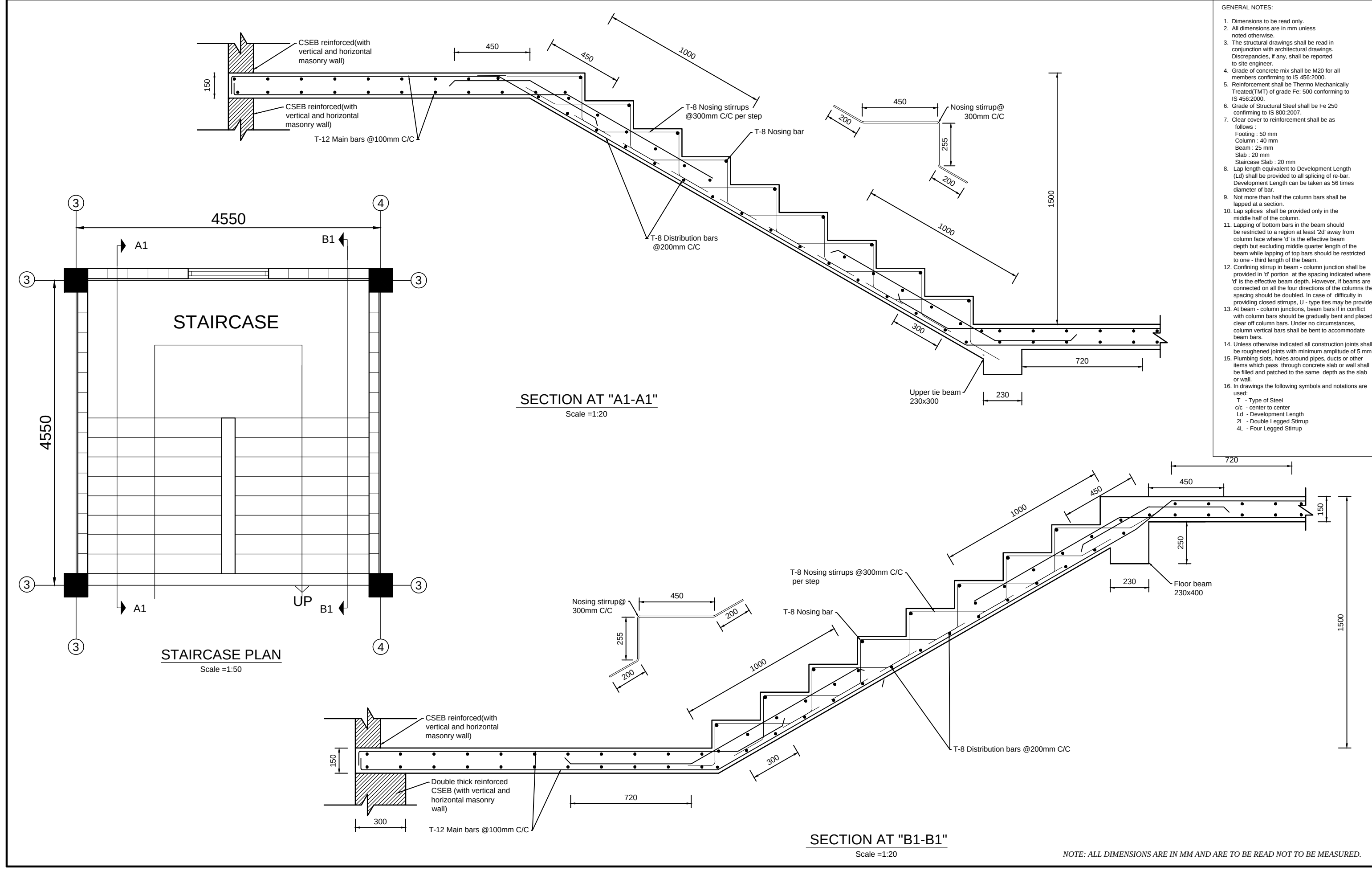
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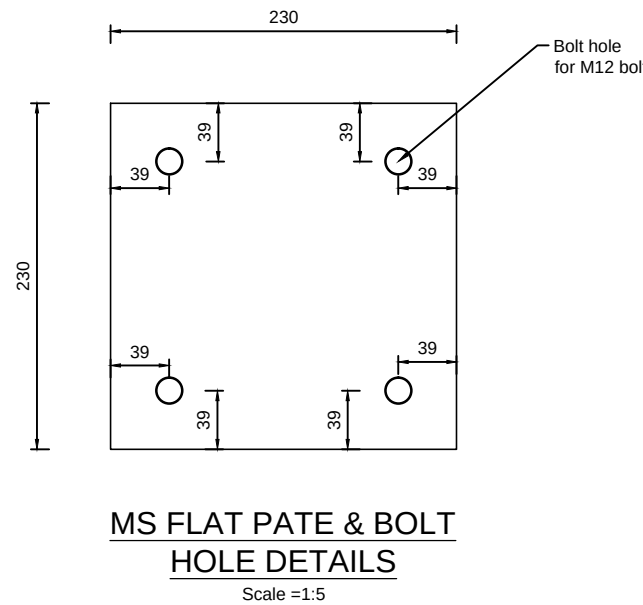
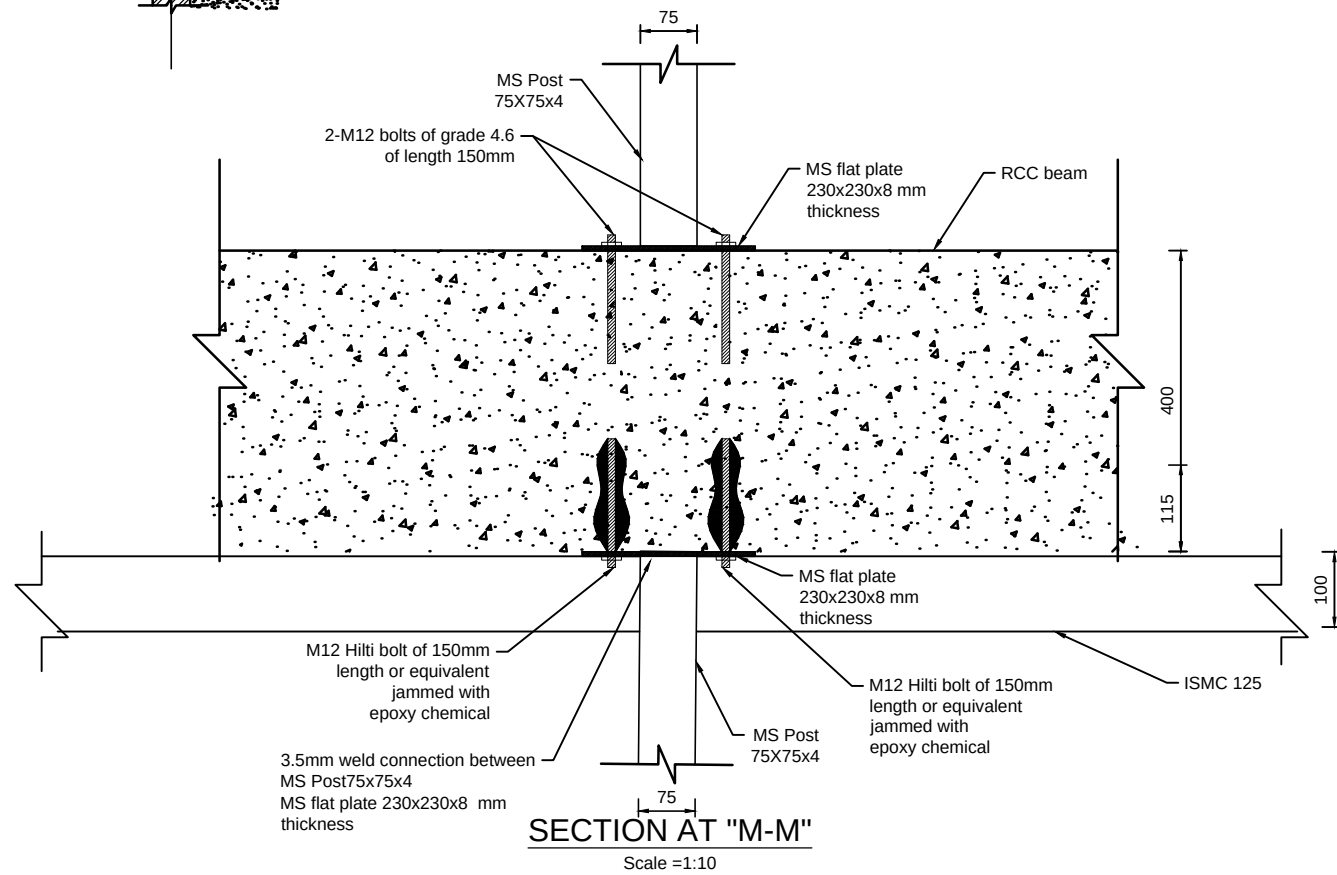
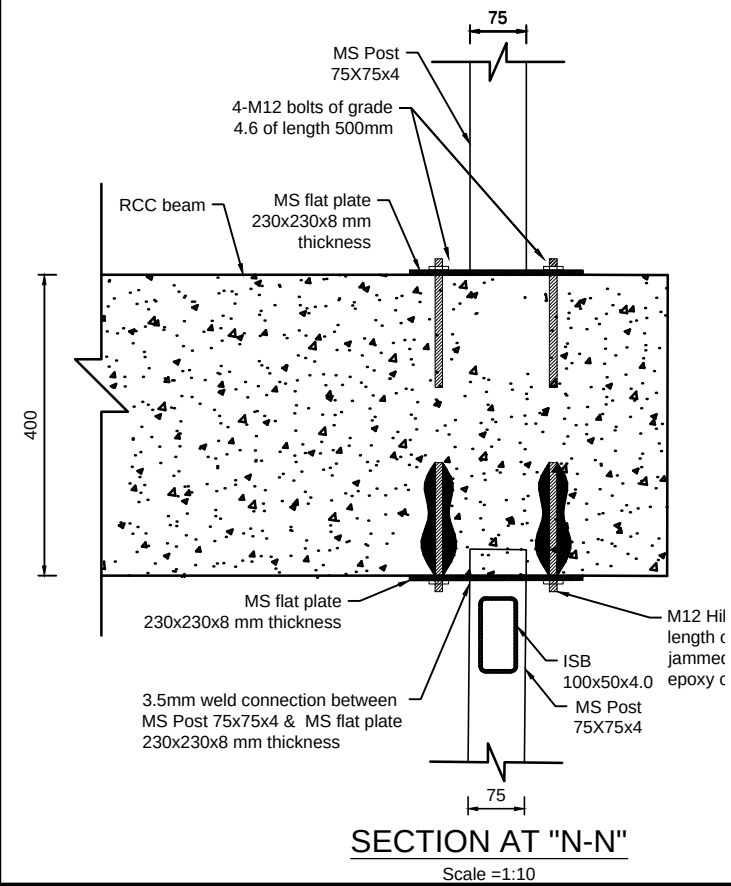
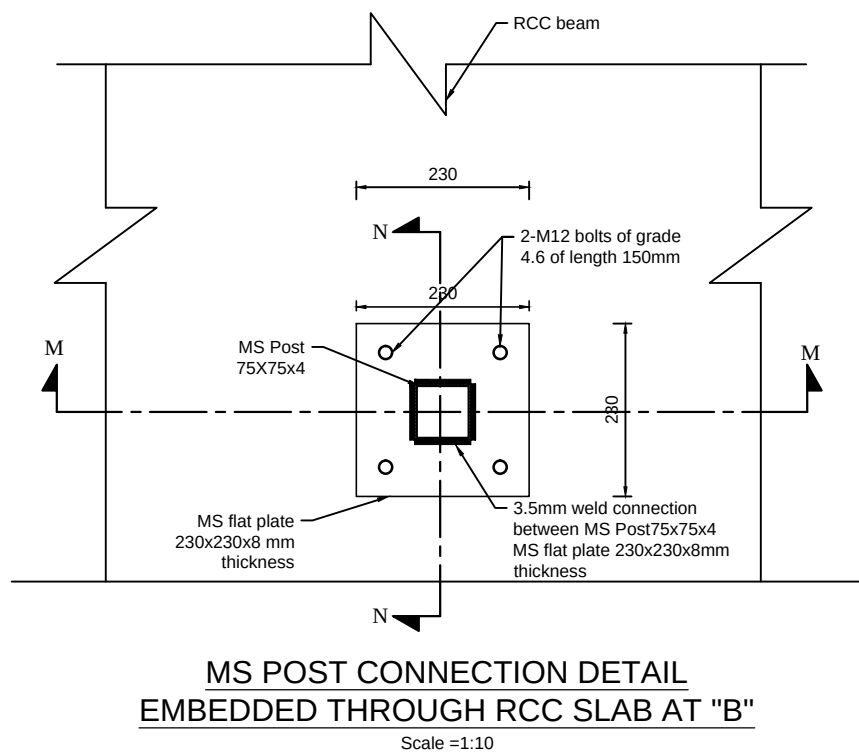
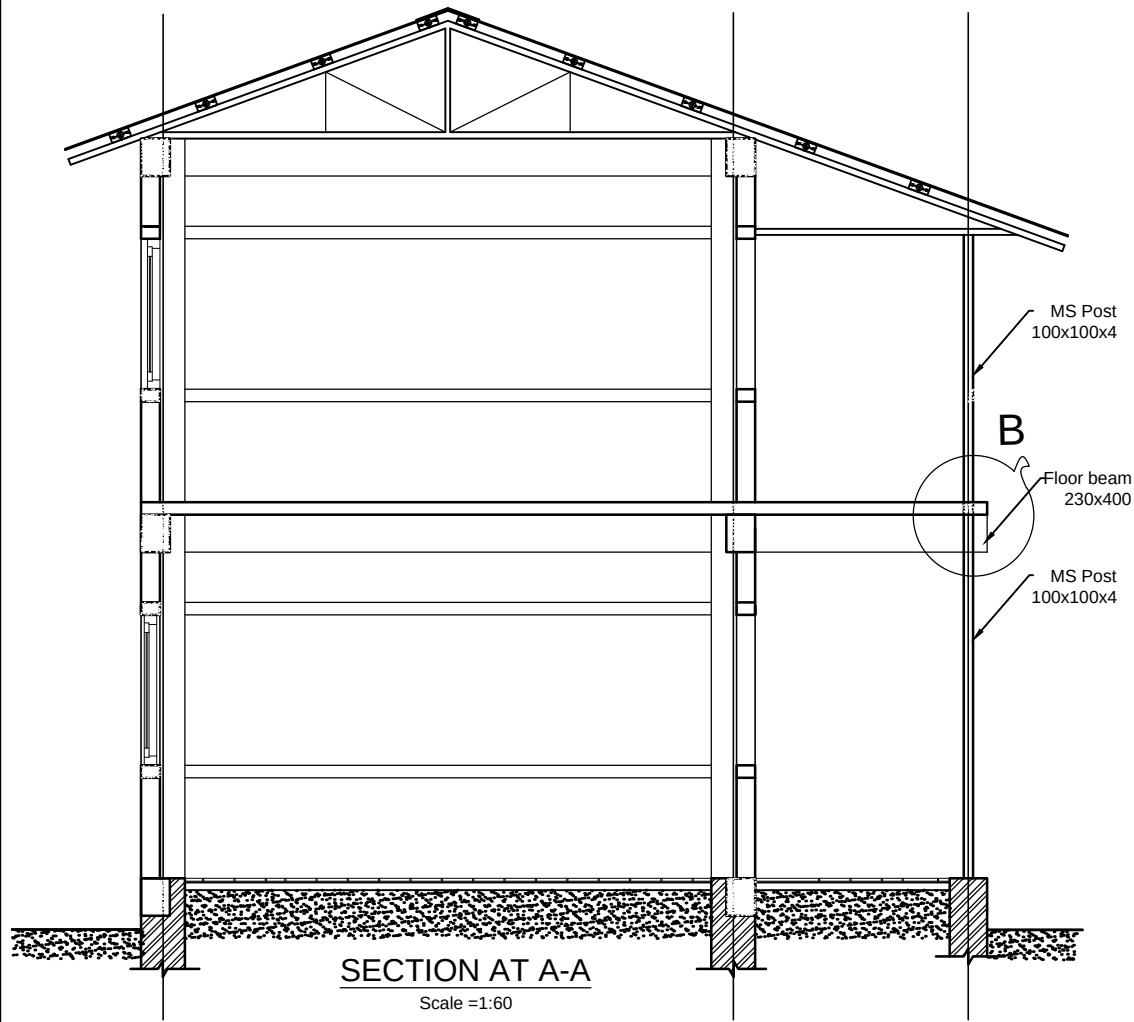
DWG.NO.

07

S



BUILD UP NEPAL LALITPUR	PROJECT TITLE: DOUBLE STOREY FRAME SCHOOL WITH CSEB INFILL WALL	PROJECT LOCATION NEPAL	SHEET TITLE: STAIRCASE PLAN AND SECTION DETAILS	STRUCTURAL DESIGN BY: RESILIENT STRUCTURES PVT.LTD KATHMANDU, NEPAL	DESIGN BY : ISHWOR BAHADUR PANDEY DRAWN BY: BIJENDRA SOMARE	DATE:05-01-2018	DWG.NO. 08
						SCALE:	S



- GENERAL NOTES:
1. Dimensions to be read only.
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 5. Reinforcement shall be Thermo Mechanically Treated (TMT) of grade Fe: 500 conforming to IS 456:2000.
 6. Grade of Structural Steel shall be Fe 250 conforming to IS 800:2007.
 7. Clear cover to reinforcement shall be as follows:
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Column : 40 mm
Beam : 25 mm
Slab : 20 mm
Staircase Slab : 20 mm
 8. Lap length equivalent to Development Length (LD) shall be provided to all splicing of re-bar. Development Length can be taken as 56 times diameter of bar.
 9. Not more than half the column bars shall be lapped at a section.
 10. Lap splices shall be provided only in the middle half of the column.
 11. Lapping of bottom bars in the beam should be restricted to a region at least '2d' away from column face where 'd' is the effective beam depth but excluding middle quarter length of the beam while lapping of top bars should be restricted to one - third length of the beam.
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c/c - center to center
Ld - Development Length
2L - Double Legged Stirrup
4L - Four Legged Stirrup

NOTE: ALL DIMENSIONS ARE IN MM AND ARE TO BE READ NOT TO BE MEASURED.

BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION
NEPAL

SHEET TITLE:
**MS POST CONNECTION
DETAILS EMBEDDED
THROUGH RCC SLAB**

STRUCTURAL DESIGN BY:
RESILIENT STRUCTURES PVT.LTD
KATHMANDU, NEPAL

DESIGN BY : ISHWOR BAHADUR PANDEY
DRAWN BY: BIJENDRA SOMARE

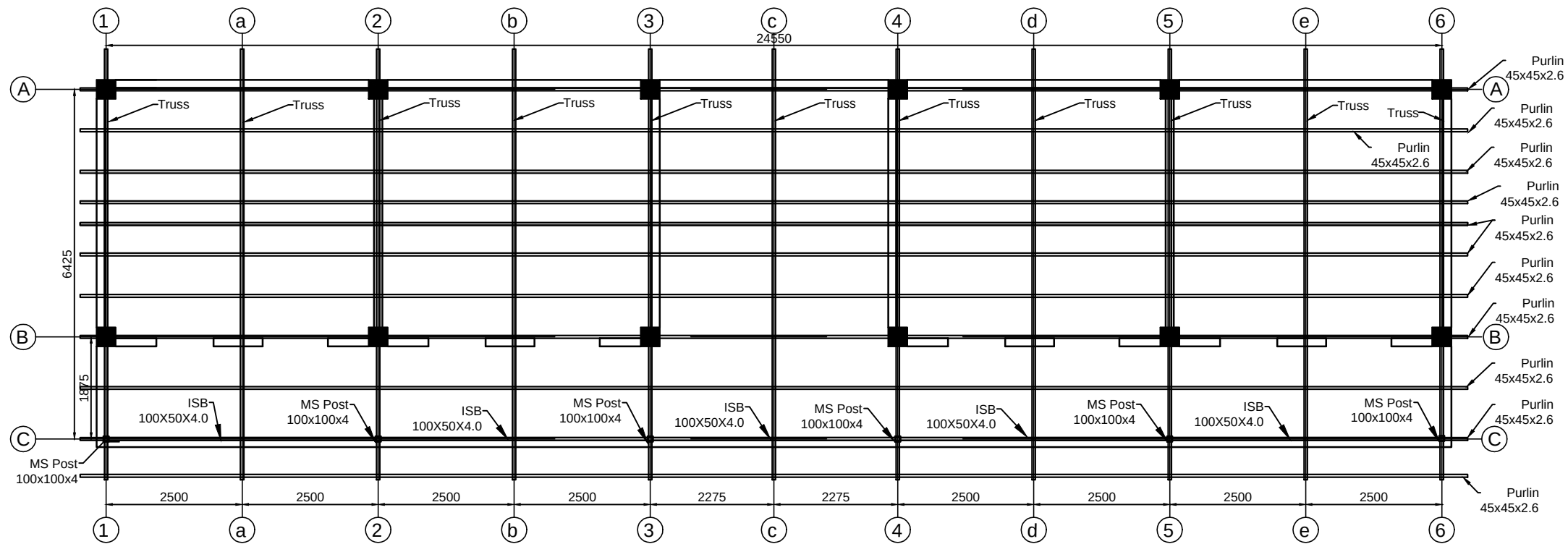
DATE:05-01-2018

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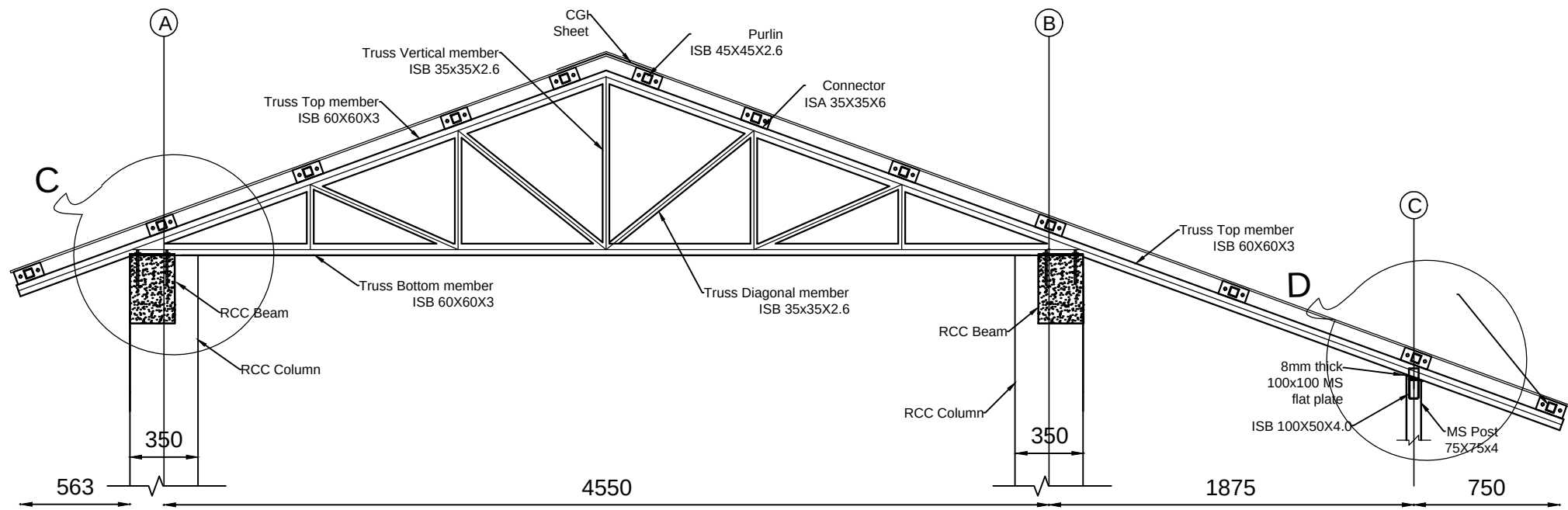
DWG.NO.

09

S



TRUSS PLAN
Scale =1:00



TYPICAL TRUSS DETAIL
Scale =1:30

GENERAL NOTES:

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BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION
NEPAL

SHEET TITLE:
**TYPICAL TRUSS PLAN AND
SECTION DETAILS**

STRUCTURAL DESIGN BY:
RESILIENT STRUCTURES PVT.LTD
KATHMANDU, NEPAL

DESIGN BY : ISHWOR BAHADUR PANDEY
DRAWN BY: BIJENDRA SOMARE

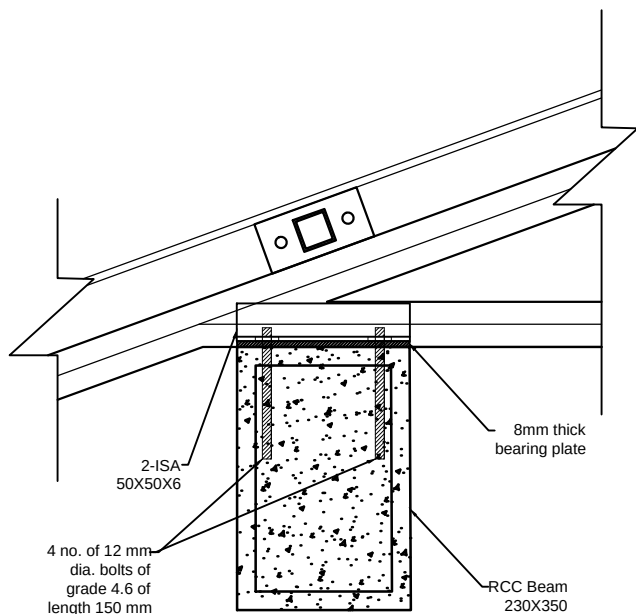
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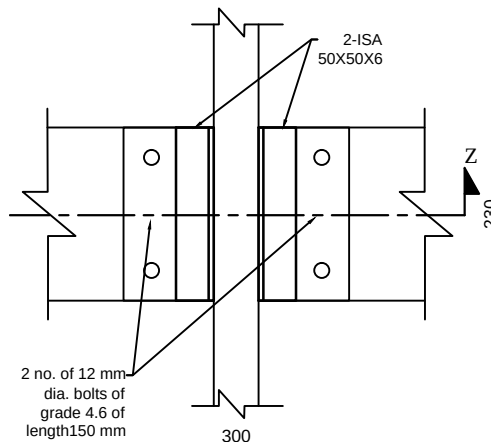
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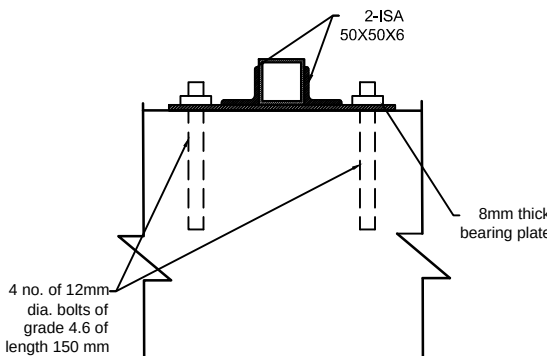
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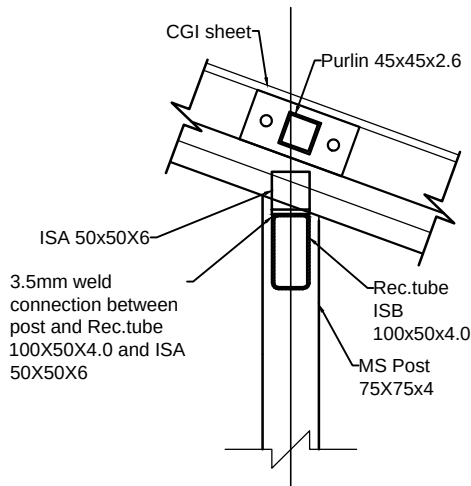
DETAIL AT "C"
Scale =1:10



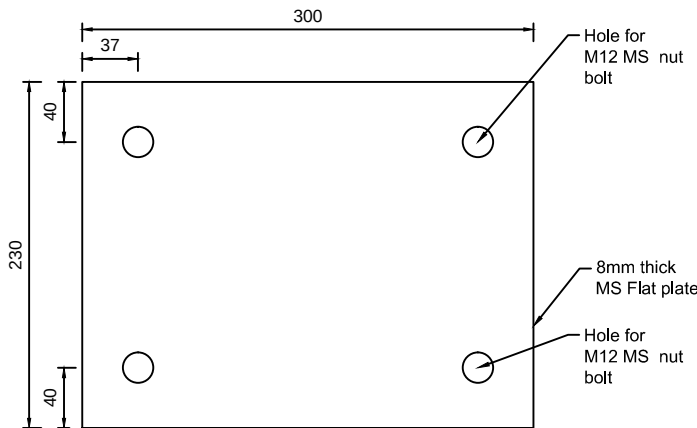
PLAN
Scale =1:10



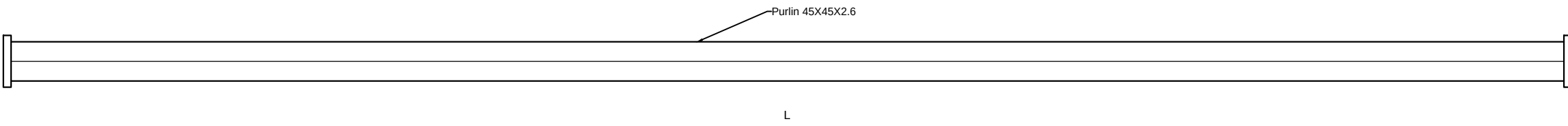
SECTION AT "Z-Z"
Scale =1:10



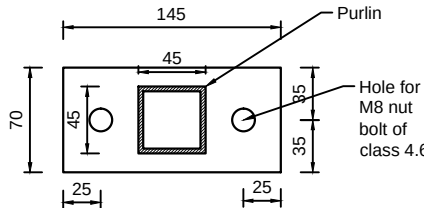
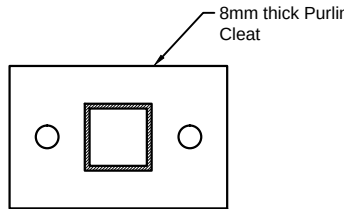
BEAM, TRUSS AND MS POST
CONNECTION DETAIL AT "D"
Scale =1:10



MS BEARING PLATE &
BOLT HOLE DETAILS
Scale =1:5



PURLIN DETAILS
Scale = 1:10



PURLIN / RAFTER CLEAT DETAILS
Scale = 1:5

GENERAL NOTES:

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BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION
NEPAL

SHEET TITLE:
**TRUSS, METAL POST, BEAM &
PURLIN CONNECTIO DETAILS**

STRUCTURAL DESIGN BY:
RESILIENT STRUCTURES PVT.LTD
KATHMANDU, NEPAL

DESIGN BY : ISHWOR BAHADUR PANDEY
DRAWN BY: BIJENDRA SOMARE

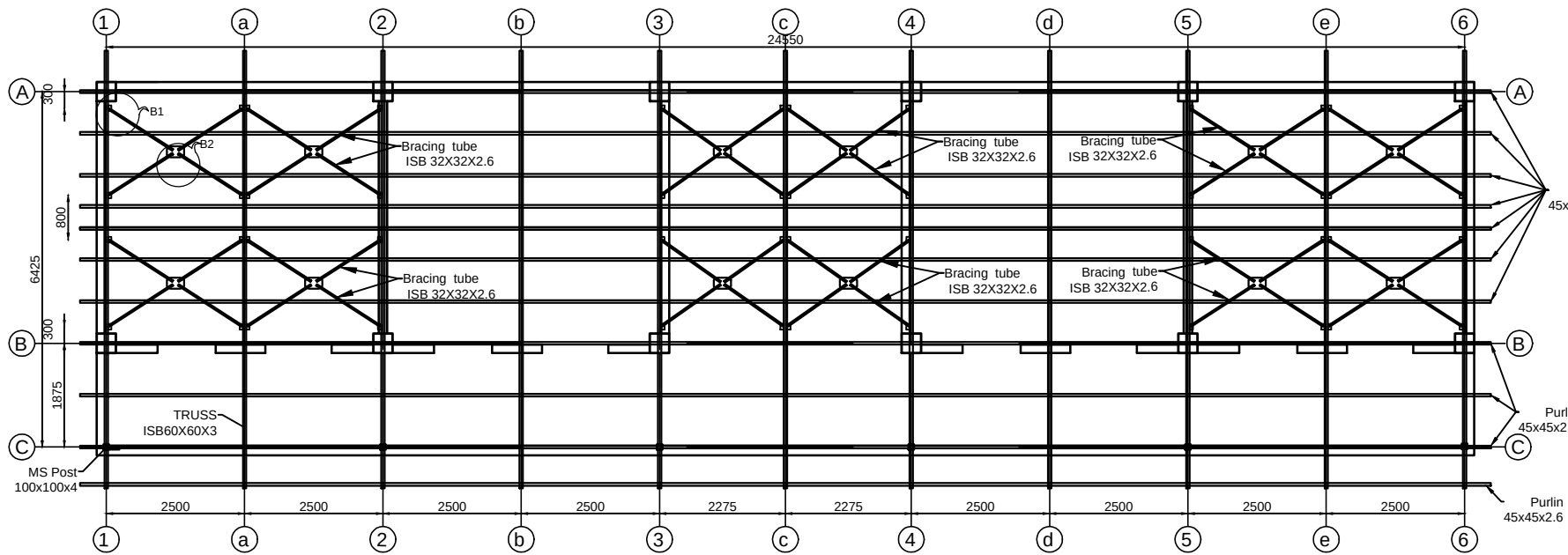
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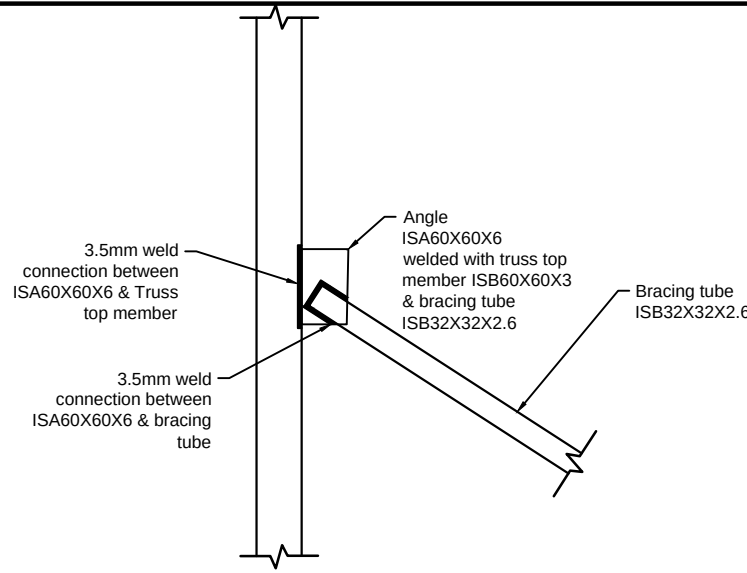
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11

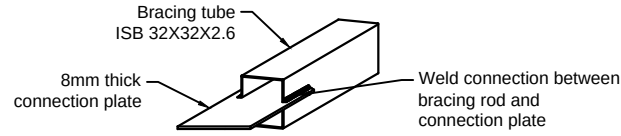
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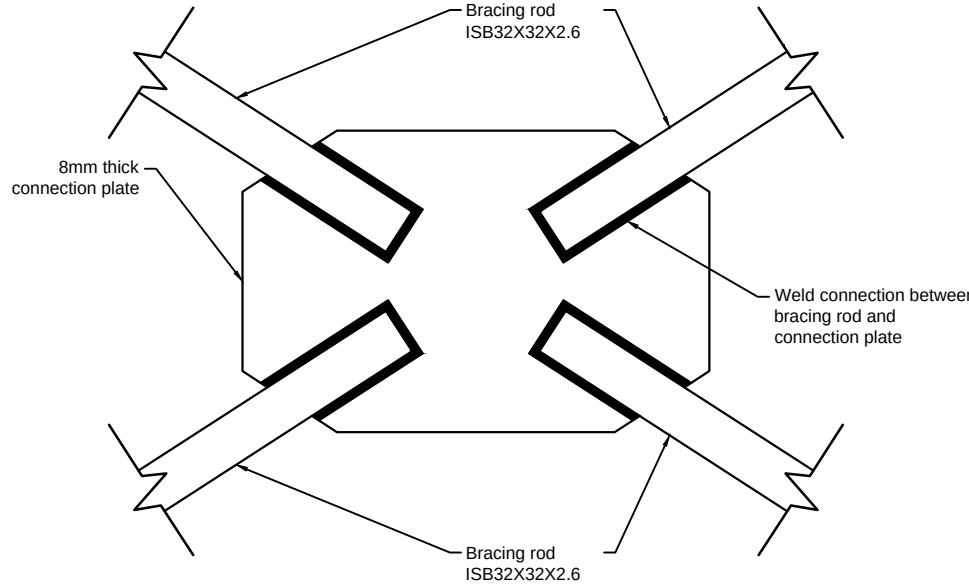
ROOF BRACING PLAN TOP FLOOR
Scale =1:120



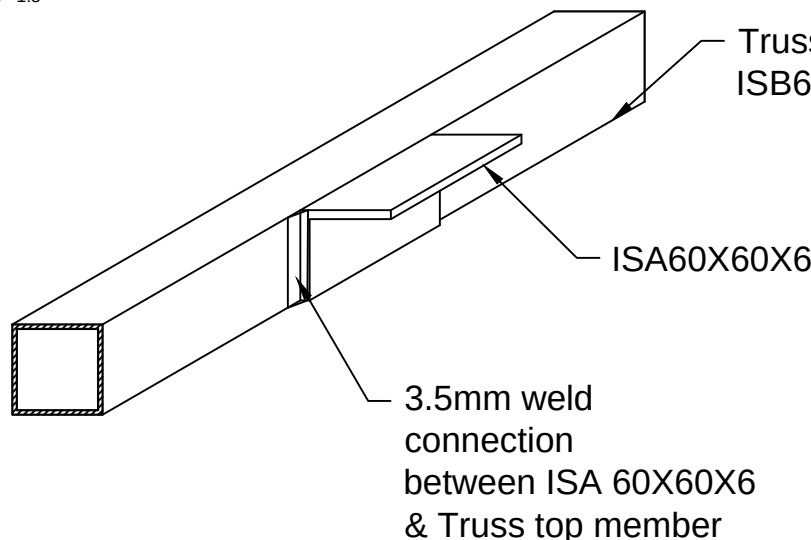
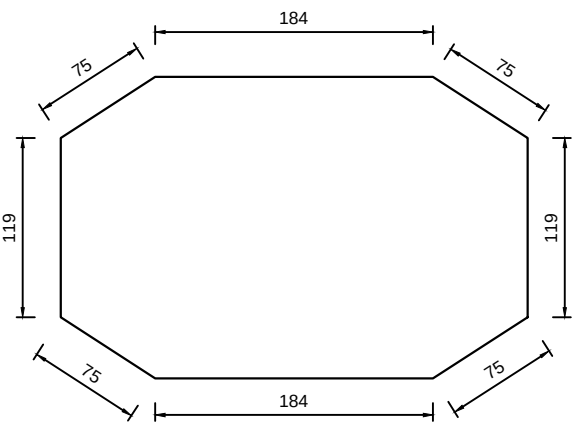
BRACING CONNECTION DETAILS "B1"
Scale =1:10



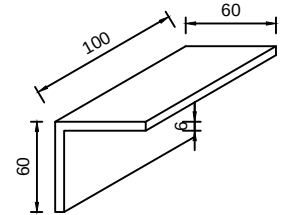
CONNECTION BETWEEN BRACING
TUBE & GUSSET PLATE
Scale =1:5



BRACING CONNECTION DETAILS "B2"
Scale =1:5



CONNECTION DETAILS BETWEEN
TRUSS TOP MEMBER & ANGLE
Scale =1:5



ANGLE DETAILS
Scale =1:5

- GENERAL NOTES:
1. Dimensions to be read only.
 2. All dimensions are in mm unless noted otherwise.
 3. The structural drawings shall be read in conjunction with architectural drawings. Discrepancies, if any, shall be reported to site engineer.
 4. Grade of concrete mix shall be M20 for all members conforming to IS 456:2000.
 5. Reinforcement shall be Thermo Mechanically Treated(TMT) of grade Fe: 500 conforming to IS 456:2000.
 6. Grade of Structural Steel shall be Fe 250 conforming to IS 800:2007.
 7. Clear cover to reinforcement shall be as follows :
Footing : 50 mm
Column : 40 mm
Beam : 25 mm
Slab : 20 mm
Staircase Slab : 20 mm
 8. Lap length equivalent to Development Length (Ld) shall be provided to all splicing of re-bar. Development Length can be taken as 56 times diameter of bar.
 9. Not more than half the column bars shall be lapped at a section.
 10. Lap splices shall be provided only in the middle half of the column.
 11. Lapping of bottom bars in the beam should be restricted to a region at least '2d' away from column face where 'd' is the effective beam depth but excluding middle quarter length of the beam while lapping of top bars should be restricted to one - third length of the beam.
 12. Confining stirrup in beam - column junction shall be provided in 'd' portion at the spacing indicated where 'd' is the effective beam depth. However, if beams are connected on all the four directions of the columns the spacing should be doubled. In case of difficulty in providing closed stirrups, U - type ties may be provided.
 13. At beam - column junctions, beam bars if in conflict with column bars should be gradually bent and placed clear off column bars. Under no circumstances, column vertical bars shall be bent to accommodate beam bars.
 14. Unless otherwise indicated all construction joints shall be roughened joints with minimum amplitude of 5 mm.
 15. Plumbing slots, holes around pipes, ducts or other items which pass through concrete slab or wall shall be filled and patched to the same depth as the slab or wall.
 16. In drawings the following symbols and notations are used:
T - Type of Steel
c/c - center to center
Ld - Development Length
2L - Double Legged Stirrup
4L - Four Legged Stirrup

NOTE: ALL DIMENSIONS ARE IN MM AND ARE TO BE READ NOT TO BE MEASURED.

BUILD UP NEPAL
LALITPUR

PROJECT TITLE:
DOUBLE STOREY FRAME
SCHOOL WITH CSEB INFILL WALL

PROJECT LOCATION
NEPAL

SHEET TITLE:
**BRACING PLAN &
BRACING CONNECTION
DETAILS**

STRUCTURAL DESIGN BY:
RESILIENT STRUCTURES PVT.LTD
KATHMANDU, NEPAL

DESIGN BY : ISHWOR BAHADUR PANDEY
DRAWN BY: BIJENDRA SOMARE

DATE:05-01-2018

SCALE:

DWG.NO.

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