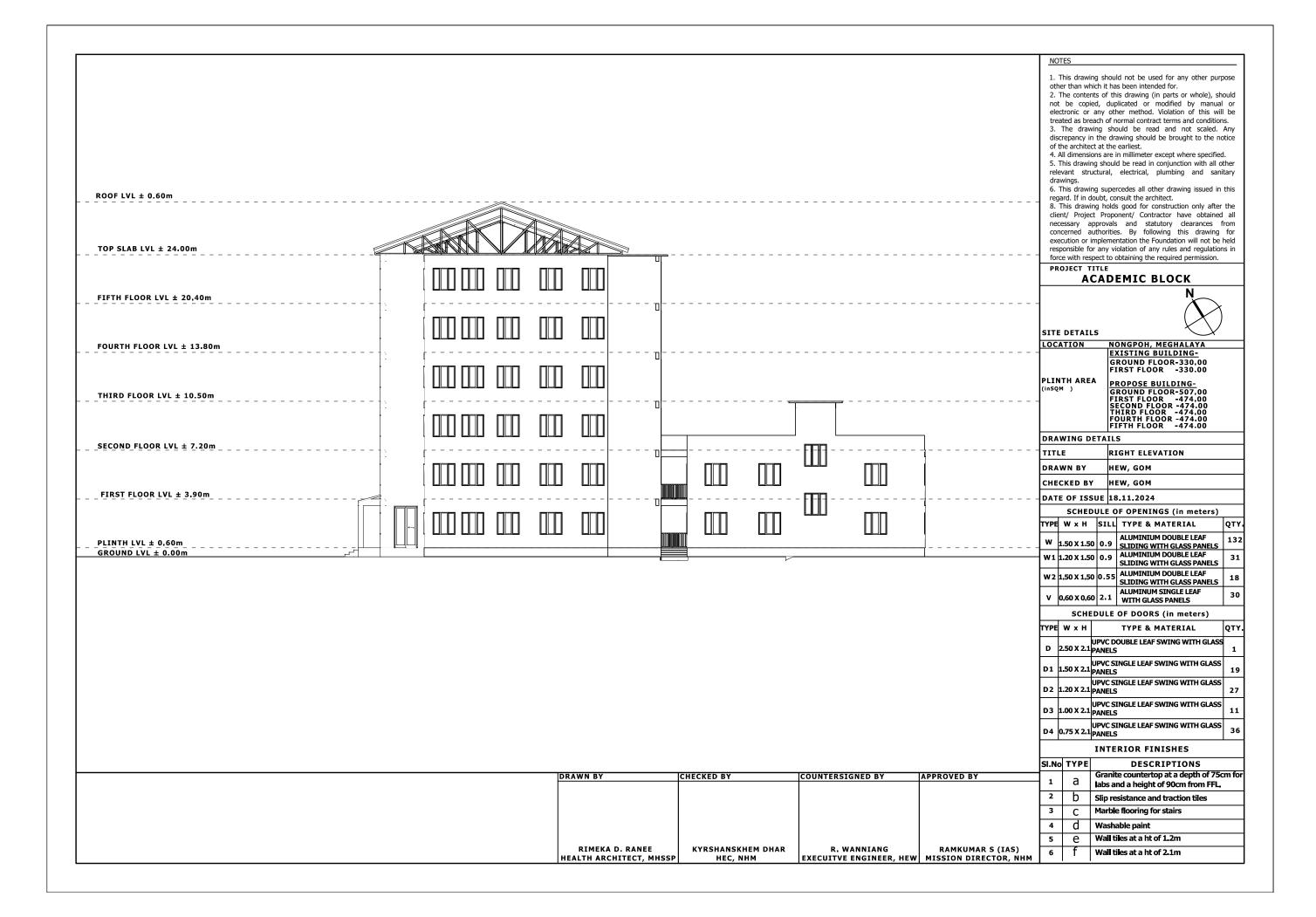
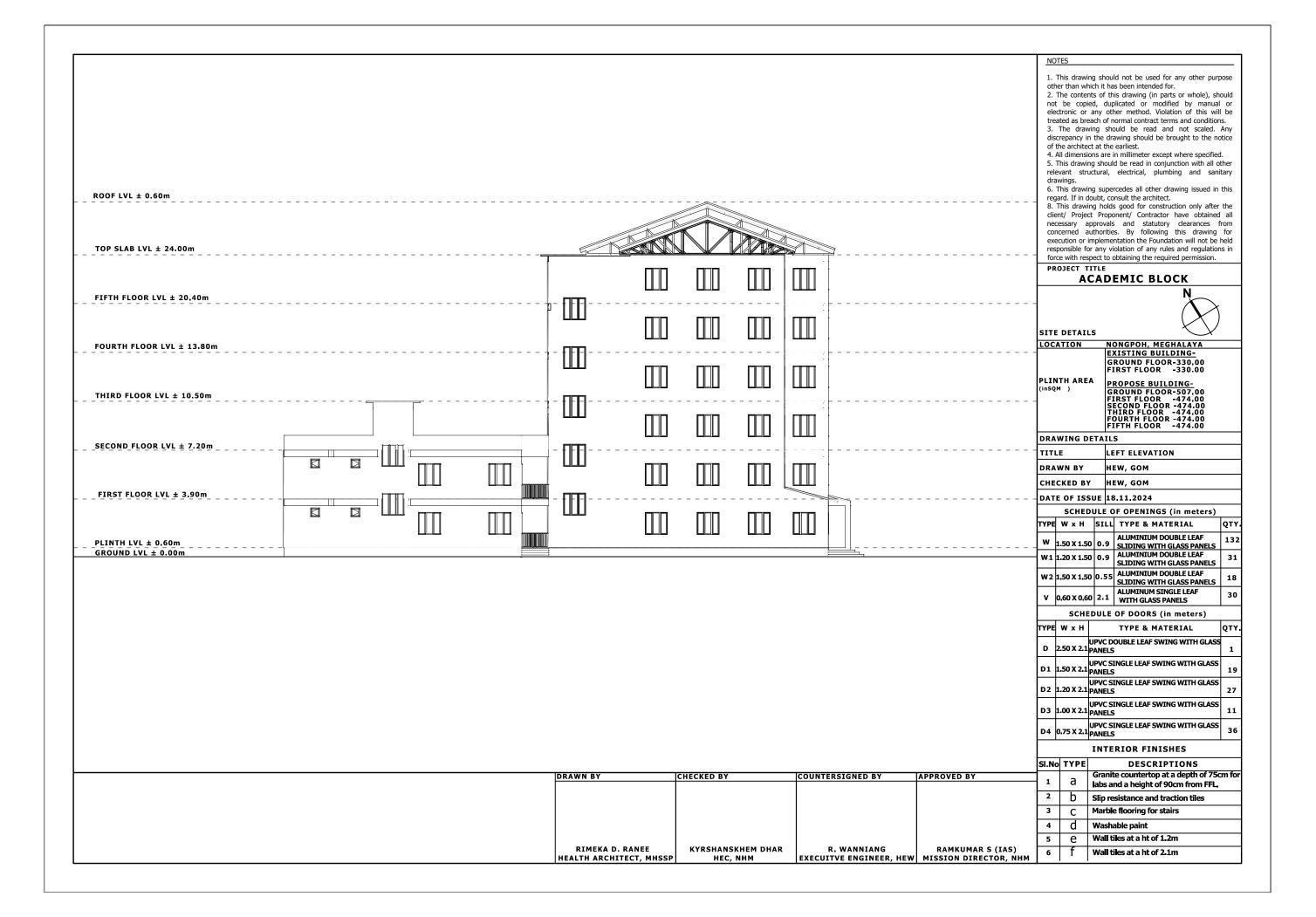
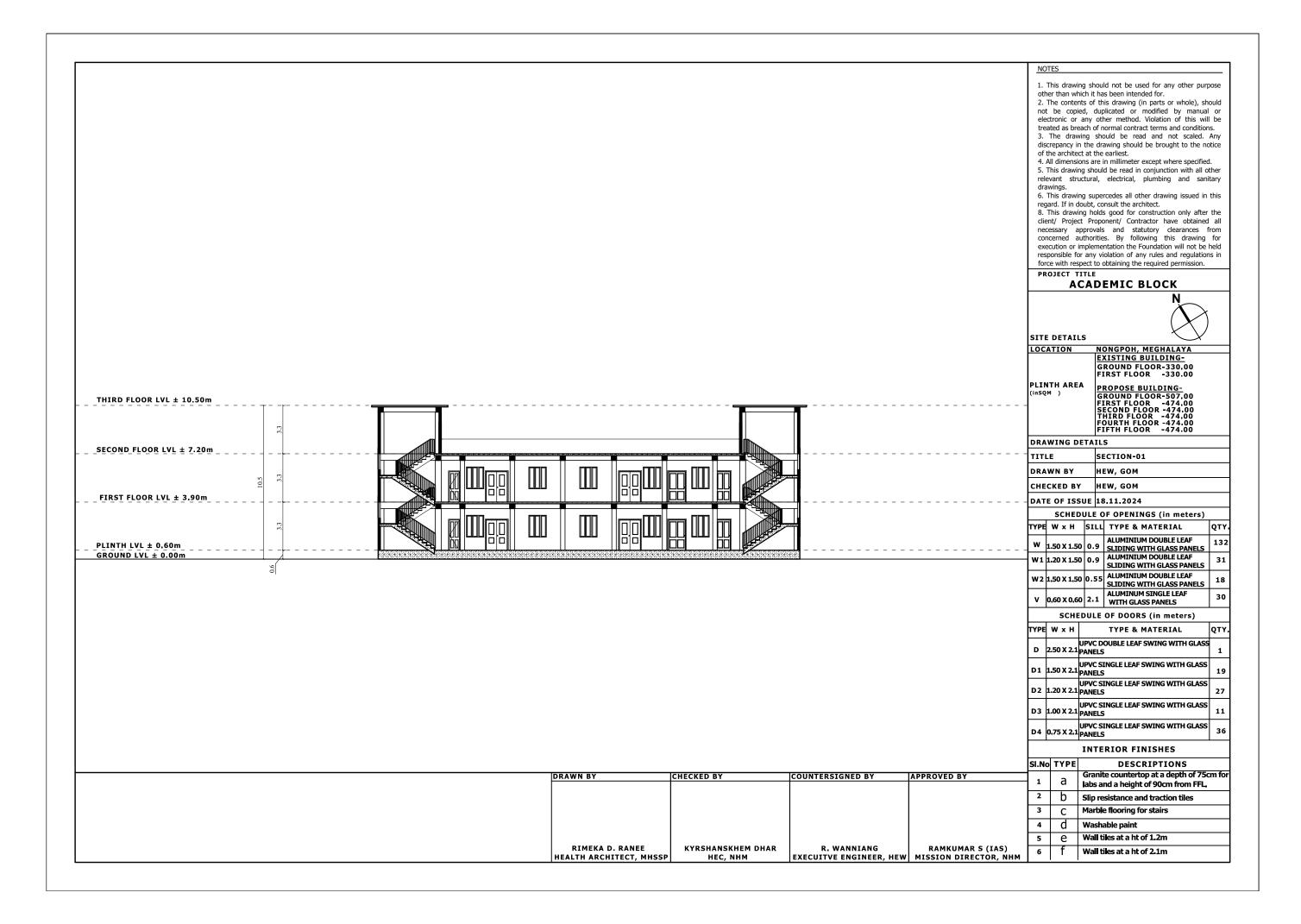


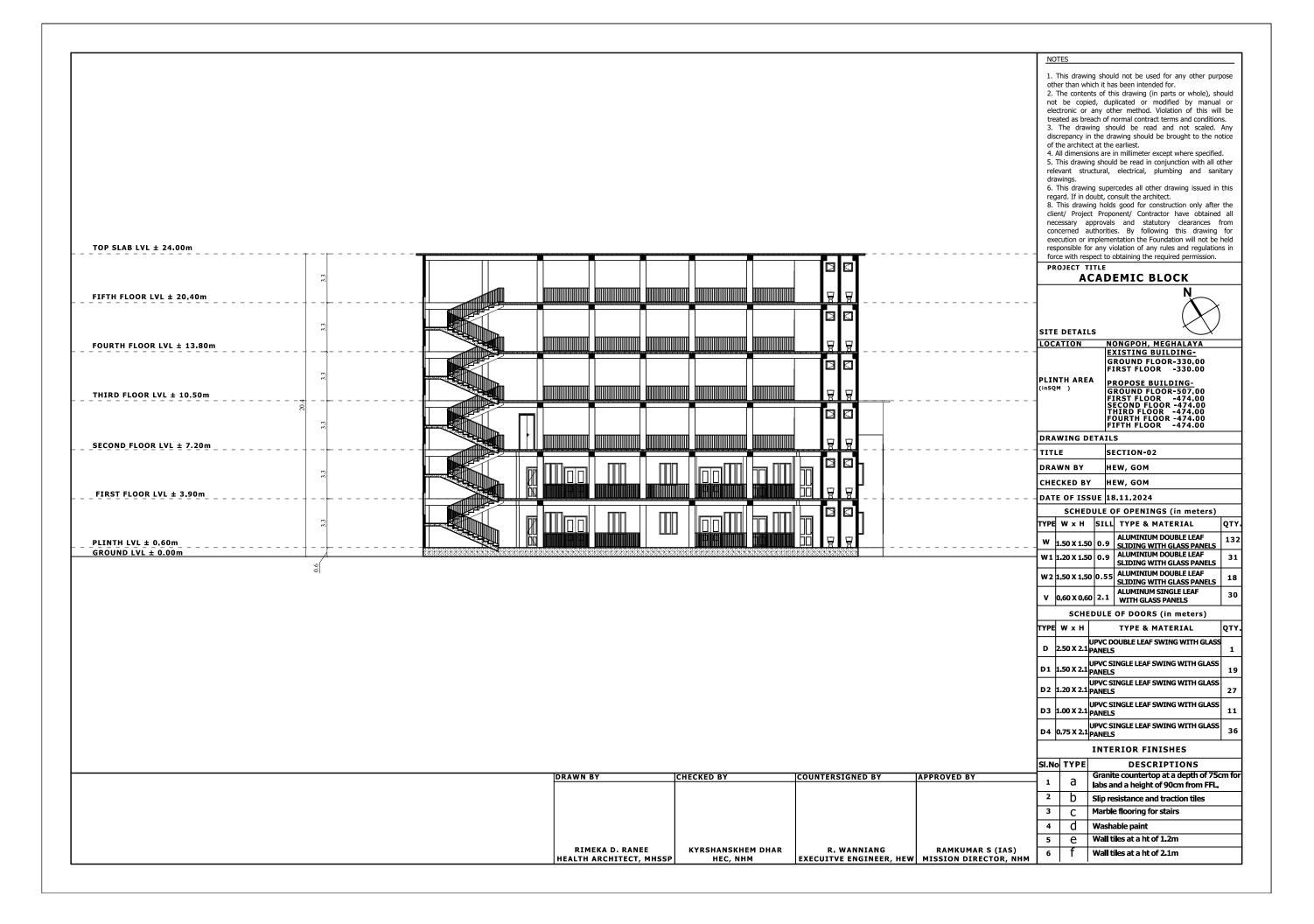
									NOTES	
									other than which it ha 2. The contents of the not be copied, dup electronic or any other	nis drawing (in parts or whole), sho plicated or modified by manual her method. Violation of this will
									 The drawing she discrepancy in the drawing of the architect at the All dimensions are This drawing shoul 	normal contract terms and conditions ould be read and not scaled. A awing should be brought to the not earliest. in millimeter except where specified. d be read in conjunction with all ot electrical, plumbing and sanit
ROOF LVL ± 0.60m									drawings. 6. This drawing supe regard. If in doubt, co 8. This drawing hold	rcedes all other drawing issued in t
TOP SLAB LVL ± 24.00m		V Va	n	В					necessary approvals concerned authoritie execution or impleme responsible for any vi	s and statutory clearances frees. By following this drawing intation the Foundation will not be highly to any rules and regulation; the required permission.
FIFTH FLOOR LVL ± 20,40m						,			PROJECT TITLE	EMIC BLOCK
OURTH FLOOR LVL ± 13.80m						+			SITE DETAILS	ONGPOH, MEGHALAYA
									PLINTH AREA	XISTING BUILDING- ROUND FLOOR-330.00 IRST FLOOR -330.00 ROPOSE BUILDING- ROUND FLOOR-507.00
HIRD FLOOR LVL ± 10.50m							=		- F) S T F(IRST FLOOR -474,00 ECOND FLOOR -474.00 HIRD FLOOR -474.00 OURTH FLOOR -474.00 IFTH FLOOR -474.00
ECOND FLOOR LVL ± 7.20m	+				-	+			TITLE F	SONT ELEVATION
										EW, GOM
FIRST FLOOR LVL ± 3.90m						 			DATE OF ISSUE 18	EW, GOM 3.11.2024
										OF OPENINGS (in meters) TYPE & MATERIAL
LINTH LVL ± 0.60m									W 1.50 X 1.50 0.9	ALUMINIUM DOUBLE LEAF
ROUND LVL ± 0.00m				,					- w 1 1.20 x 1.50 0.9	ALUMINIUM DOUBLE LEAF SLIDING WITH GLASS PANELS
									W2 1.50 X 1.50 0.55	ALUMINIUM DOUBLE LEAF SLIDING WITH GLASS PANELS
									V 0.60 X 0.60 2.1	
									SCHEDULE TYPE W x H	OF DOORS (in meters) TYPE & MATERIAL
										OURLE LEAF SWING WITH GLAS
										THE
										INGLE LEAF SWING WITH GLASS
									LIDVCS	INGLE LEAF SWING WITH GLASS
									D3 1.00 X 2.1 PANELS	TNGLE LEVE CALLE MILLER
									D4 0.75 X 2.1 PANELS	RIOR FINISHES
									SI.No TYPE	DESCRIPTIONS
			DRA	WN BY	CHECKED BY	COL	UNTERSIGNED BY	APPROVED BY	1 a Granit	te countertop at a depth of 75 nd a height of 90cm from FFL
									2 b Slip re	esistance and traction tiles
										e flooring for stairs able paint
										iles at a ht of 1.2m
				RIMEKA D. RANEE LTH ARCHITECT, MHSSI	KYRSHANSKHEM DI HEC, NHM		R. WANNIANG	RAMKUMAR S (IAS) W MISSION DIRECTOR, NHM	6 f Wallt	iles at a ht of 2.1m

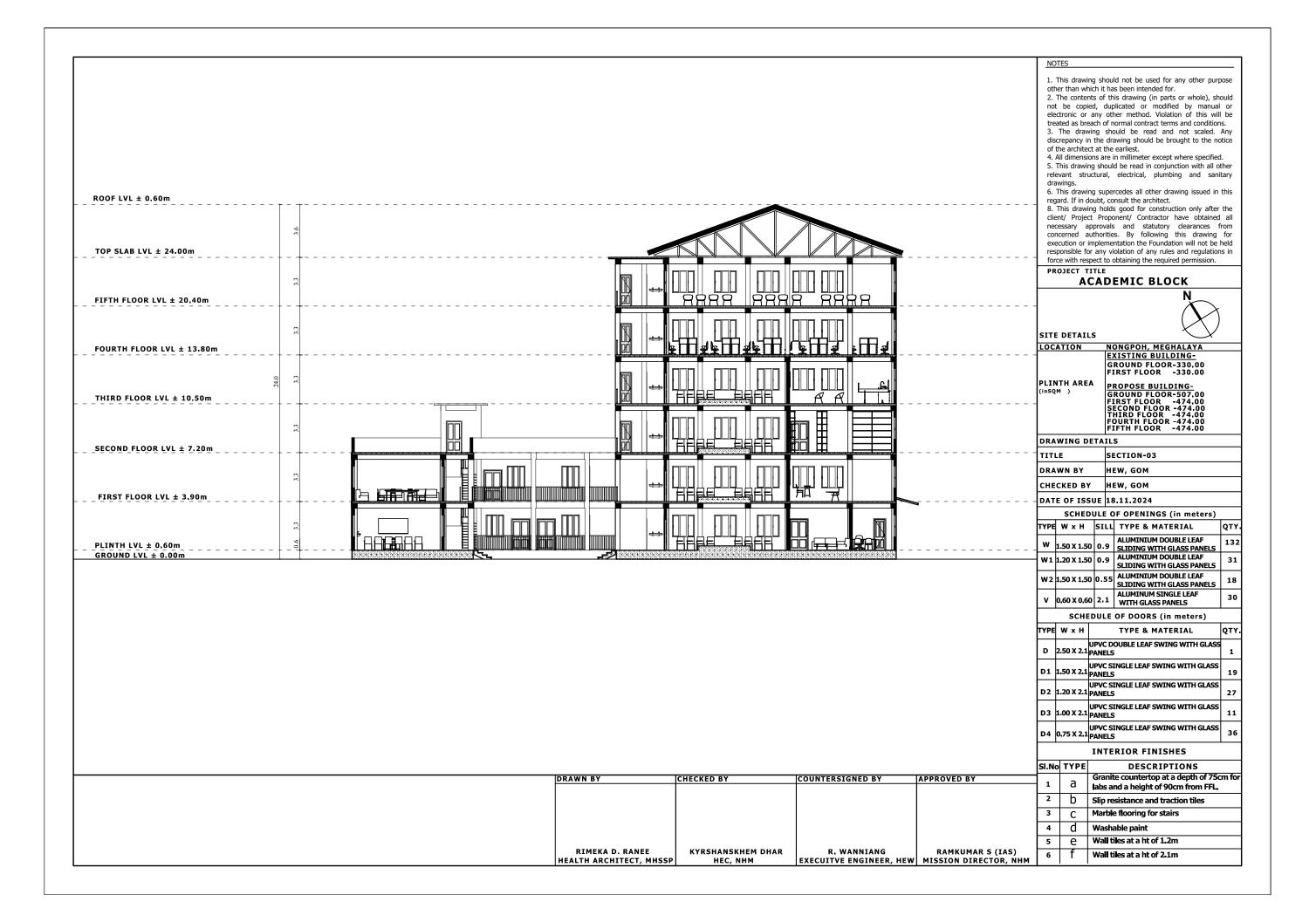


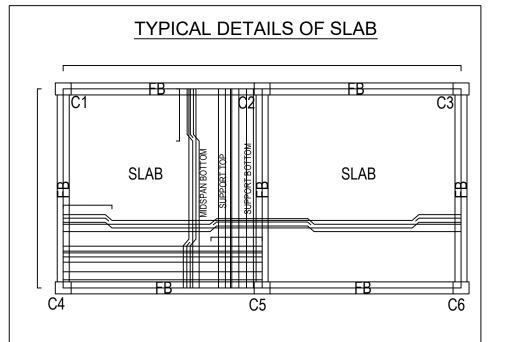
		NOTES
ROOF LVL ± 0.60m		1. This drawing should not be used for any other purpose other than which it has been intended for. 2. The contents of this drawing (in parts or whole), should not be copied, duplicated or modified by manual or electronic or any other method. Violation of this will be treated as breach of normal contract terms and conditions. 3. The drawing should be read and not scaled. Any discrepancy in the drawing should be brought to the notice of the architect at the earliest. 4. All dimensions are in millimeter except where specified. 5. This drawing should be read in conjunction with all other relevant structural, electrical, plumbing and sanitary drawings. 6. This drawing supercedes all other drawing issued in this regard. If in doubt, consult the architect. 8. This drawing holds good for construction only after the client/ Project Proponent/ Contractor have obtained all necessary approvals and statutory clearances from concerned authorities. By following this drawing for
TOP SLAB LVL ± 24.00m		execution or implementation the Foundation will not be held responsible for any violation of any rules and regulations in force with respect to obtaining the required permission.
		PROJECT TITLE ACADEMIC BLOCK
FIFTH FLOOR LVL ± 20.40m FOURTH FLOOR LVL ± 13.80m		SITE DETAILS LOCATION NONGPOH, MEGHALAYA
THIRD FLOOR LVL ± 10.50m		EXISTING BUILDING- GROUND FLOOR-330.00 FIRST FLOOR -330.00 PLINTH AREA (insQM) FIRST FLOOR -507.00 FIRST FLOOR -474.00
SECOND FLOOR LVL ± 7.20m		SECOND FLOOR -474.00 THIRD FLOOR -474.00 FOURTH FLOOR -474.00 FIFTH FLOOR -474.00 DRAWING DETAILS TITLE BACK ELEVATION
FIRST FLOOR LVL ± 3.90m		DRAWN BY HEW, GOM CHECKED BY HEW, GOM DATE OF ISSUE 18.11.2024
PLINTH LVL ± 0.60m		SCHEDULE OF OPENINGS (in meters) TYPE W x H SILL TYPE & MATERIAL QT' W 1.50 x 1.50 0.9 ALUMINIUM DOUBLE LEAF SIDING WITH GLASS PANELS 13
GROUND LVL ± 0.00m		W1 1.20 X 1.50 0.9 ALUMINIUM DOUBLE LEAF SLIDING WITH GLASS PANELS W2 1.50 X 1.50 0.55 ALUMINIUM DOUBLE LEAF SLIDING WITH GLASS PANELS 18
		SCHEDULE OF DOORS (in meters) TYPE W x H TYPE & MATERIAL QTY
		D 2.50 X 2.1 PANELS 1 D1 1.50 X 2.1 PANELS 19 D2 1.20 X 2.1 PANELS 19 D2 1.20 X 2.1 PANELS 27
		D3 1.00 X 2.1 PANELS 11 D4 0.75 X 2.1 PANELS 36 D4 0.75 X 2.1 PANELS 36
	DRAWN BY CUECUED BY COUNTERCYONED BY	INTERIOR FINISHES SI.No TYPE DESCRIPTIONS Granite countertop at a depth of 75cm for
	DRAWN BY CHECKED BY COUNTERSIGNED BY APPROVED BY	1 d labs and a height of 90cm from FFL 2 D Slip resistance and traction tiles 3 C Marble flooring for stairs
	RIMEKA D. RANEE KYRSHANSKHEM DHAR R. WANNIANG RAMKUMAR S (IA HEALTH ARCHITECT, MHSSP HEC, NHM EXECUITVE ENGINEER, HEW MISSION DIRECTOR,	

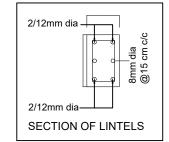












TYPICAL PLAN

TABLE OF SLAB REINFORCEMENT

DRAWN BY

JE. MHSSP

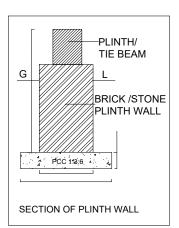
GARRY WEGARA K. MARAK

CHECKED BY

FRANKIE BIAM

HEM, MHSSP

Slab	Thickness		x- dire				Y- directi		
name	icknes		lspan	an At Support		At Midspan		At Support	
патте	1hi-	Тор	Bottom	Тор	Bottom	Тор	Bottom	Тор	Bottom
SLAB OR DROP SLAB @ FIRST,SECOND & TERRACE FLOOR LEVEL	12.5CM	Ϊ́Z	12 mm dia bar @ 12 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c	ΞZ	12 mm dia bar @ 12 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c
CANT SLAB OR CANT DROP SLAB @ FIRST, SECOND & TERRACE FLOOR LEVEL	10CM	12 mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c



COUNTERSIGNED BY

APPROVED BY

R. WANNIANG RAMKUMAR S (IAS)
EXECUITVE ENGINEER, HEW MISSION DIRECTOR, NHM

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SCHOOL OF NURSING **UPGRADATION** SITE DETAILS LOCATION NONGPOH, MEGHALAYA

EXISTING BUILDING-GROUND FLOOR-330.00 FIRST FLOOR -330.00

PLINTH AREA (inSQM)

PROPOSE BUILDING-GROUND FLOOR-507.00 FIRST FLOOR -474.00 SECOND FLOOR -474.00 THIRD FLOOR -474.00 FOURTH FLOOR -474.00 FIFTH FLOOR -474.00

DRAWING DETAILS					
TITLE	PLINTH WALL& SLAB DETAILS				
DRAWN BY	HEW, GOM				
CHECKED BY	неw, gom				
DATE OF ISSUE					

NOTES

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2. DISCREPANCY IF NOTICED IN BETWEEN THIS DRAWING AND CONCERNED ARCHITECTURAL DRAWING SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER.

3.ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.

4.ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED AND NO DIMENSION SHALL BE SCALED.

5.ALL R.C.C. WORK SHALL BE OF M25 GRADE.
6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-

A) FOOTING B) BEAM C) SLAB : 25 MM : 20 MM D) COLUMN E) STAIRCASE SLAB 40 MM

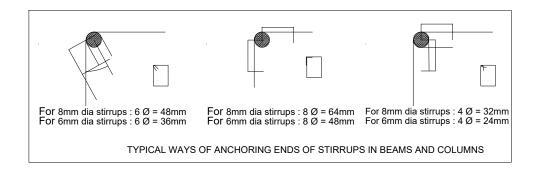
- 7. ALL GRID LINES PASS THROUGH THE CENTRE LINE OF
- 8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% PROOF STRESS NOT LESS THAN 500N/sqmm.

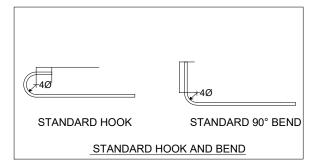
 9. LAP AND ANCHORAGE LENGTH, (Ld) OF BARS SHALL BE 47 TIMES OF BAR DIA . FOR MIX 1:1.5:3 LAP SHALL SHALL BE

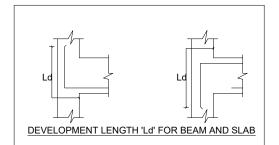
: 20 MM

- STAGGERED AND AVOIDED AT THE POINT OF MAX. BENDING MOMENT.
- 10. REINFORCEMENT SHALL HAVE CONCRETE COVER AND THICKNESS OF SUCH COVER (EXCLUSIVE OF PLASTER AND OTHER DECORATIVE FINISH) SHALL BE AS FOLLOWS:-
- A) AT THE END OF THE REINFORCEMENT BAR, NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.
- B) FOR LONGITUDINAL REINFORCING BAR IN A BEAM NOT LESS
- b) FOR CONTROL UDINAL REPPORTING BARK IN A BEAR IN OF LESS THAN THE DIA OF SUCH BAR.

 11. THE SAFE BEARING CAPACITY OF SOIL IS CONSIDERED AS 15.77 TON SQ.M AT A DEPTH OF 2.00M. THIS CAPACITY NEEDS TO BE CONFIRMED BY CONDUCTING A PLATE-LOAD TEST.
- 12. THE POSITION OF HOOKS OF COLUMN TIES SHALL BE VERTICALLY STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.
- 13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE

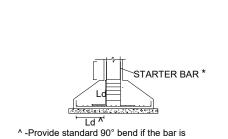






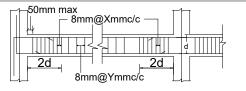
DEVELOPMENT LENGTH 'Ld' for Deformed Bars

Bar Diameter	'Ld' for Grade of Concrete (cm)			
(mm)	M15	M20	M25	
6	33.8	28.2	24.2	
8	45.1	37.6	32.2	
10	56.4	47.0	40.3	
12	67.7	56.4	48.4	
16	90.3	75.2	64.5	
20	112.8	94.0	80.6	
25	141.0	117.5	100.7	



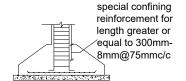
required to bent upward to get the required development length

* -Use of starter bars or continous bars depends upon the distance between the ground floor level and the level of foundation DEVELOPMENT LENGTH 'Ld' of COLUMN FOOTING

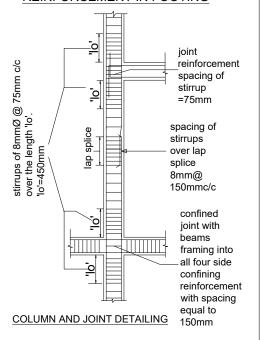


NOTE:d is the effective depth of beams NOTE:X is variable and is as per detailing NOTE:y is variable and is as per detailing

BEAM REINFORCEMENT



PROVISION OF SPECIAL CONFINING REINFORCEMENT IN FOOTING



TYPICAL DRAWING AND DETAILS SPACING OF REINFORCEMENT FOR BEAMS, COLUMNS & FOOTING AS PER IS 13920:1993

- 1. This drawing should not be used for any other purpose other than which has been intended for.
- 2. The contents of this drawing (in parts or whole), should not be copie duplicated or modified by manual or electronic or any other method. Violation
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PROJECT TITLE SCHOOL OF NURSING UPGRADATION

SITE DETAILS LOCATION NONGPOH, MEGHALAYA

PLINTH AREA (inSQM) **EXISTING BUILDING-GROUND FLOOR-330.00** FIRST FLOOR -330.00

PROPOSE BUILDING-**GROUND FLOOR-507.00** FIRST FLOOR -474.00 SECOND FLOOR -474.00 THIRD FLOOR -474.00 FOURTH FLOOR -474.00 FIFTH FLOOR -474.00

DRAWING DETAILS	
TITLE	STRUCTURAL SPECIFICATION
DRAWN BY	HEW, GOM
CHECKED BY	HEW, GOM
DATE OF ISSUE	

NOTES

1.THIS DRAWING SHALL BE READ ALONG WITH ARCHITECTURAL

2. DISCREPANCY IF NOTICED IN BETWEEN THIS DRAWING AND CONCERNED ARCHITECTURAL DRAWING SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER.

3.ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.

4.ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED AND NO DIMENSION SHALL BE SCALED.

5 ALL R.C.C. WORK SHALL BE OF M25 GRADE 6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-

A) FOOTING B) BEAM C) SLAB : 25 MM : 20 MM D) COLUMN E) STAIRCASE SLAB

ALL GRID LINES PASS THROUGH THE CENTRE LINE OF

8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% PROOF STRESS NOT LESS THAN 500N/sqmm.

9. LAP AND ANCHORAGE LENGTH (LG) OF BARS SHALL BE 47 TIMES OF BAR DIA . FOR MIX 1:1.5:3 LAP SHALL SHALL BE

: 20 MM

STAGGERED AND AVOIDED AT THE POINT OF MAX. BENDING MOMENT

10. REINFORCEMENT SHALL HAVE CONCRETE COVER AND THICKNESS OF SUCH COVER (EXCLUSIVE OF PLASTER AND OTHER DECORATIVE FINISH) SHALL BE AS FOLLOWS:-

A) AT THE END OF THE REINFORCEMENT BAR, NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

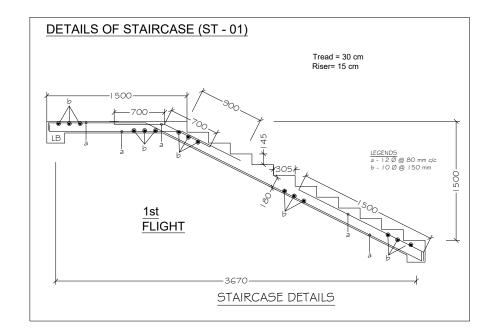
B) FOR LONGITUDINAL REINFORCING BAR IN A BEAM NOT LESS

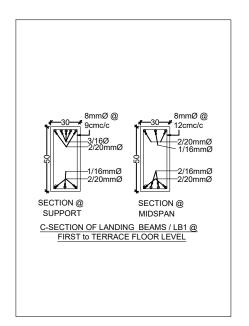
THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR. 11. THE SAFE BEARING CAPACITY OF SOIL IS CONSIDERED AS 15.77 TON/ SQ.M AT A DEPTH OF 2.00M. THIS CAPACITY NEEDS TO BE

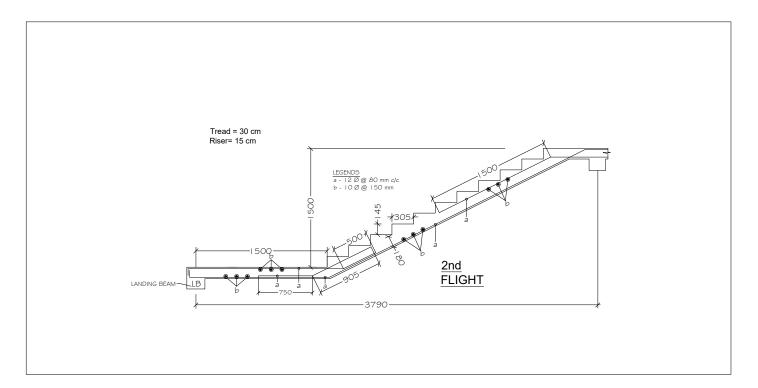
12. THE POSITION OF HOOKS OF COLUMN TIES SHALL BE VERTICALLY STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.

13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE

DRAWN BY	CHECKED BY	COUNTERSIGNED BY	APPROVED BY
GARRY WEGARA K. MARAK		R. WANNIANG	RAMKUMAR S (IAS)
JE, MHSSP	HEM, MHSSP	EXECUITVE ENGINEER, HEW	MISSION DIRECTOR, NHM







STAIRCASE -1

L DRAWN DV	Lausausa av	COUNTERSIGNED BY	APPROVED BY
DRAWN BY	CHECKED BY	COUNTERSTONED BY	AFFROVED BI
GARRY WEGARA K. MARAK	FRANKIE BIAM	R. WANNIANG	RAMKUMAR S (IAS)
JE, MHSSP		EXECUITVE ENGINEER, HEW	MISSION DIRECTOR, NHM
L	<u> </u>		

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PROJECT TITLE SCHOOL OF NURSING UPGRADATION



SITE DETAILS	
LOCATION	NONGPOH, MEGHALAYA
LOCATION	NONGPOH, MEGHALAYA

DRAWING DETAILS				
TITLE	STAIRCASE DETAILS			
DRAWN BY	HEW, GOM			
CHECKED BY	HEW, GOM			

DATE OF ISSUE NOTES

1.THIS DRAWING SHALL BE READ ALONG WITH ARCHITECTURAL DRAWING.

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6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-

A) FOOTING
B) BEAM
C) SLAB
D) COLUMN
E) STAIRCASE SLAB

7. ALL GRID LINES PASS THROUGH THE CENTRE LINE OF COLUMN.

8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% FROOF STRESS NOT LESS THAN 500N/sgmm.

9. LAP AND ANCHORAGE LENGTH (Ld) OF BARS SHALL BE 47 TIMES OF BAR DIA. FOR MIX 1:1.5:3 LAP SHALL SHALL BE STAGGERED AND AVOIDED AT THE POINT OF MAX. BENDING MOMENT.

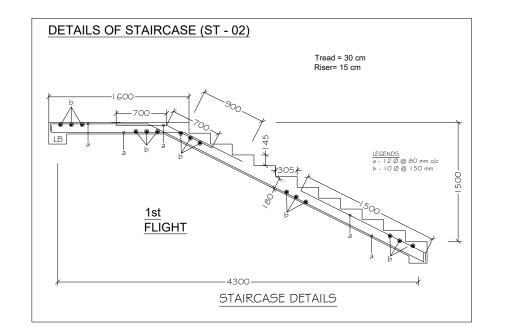
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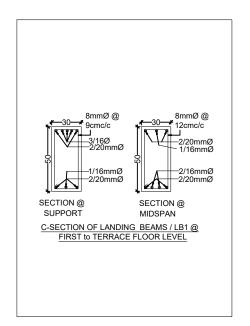
A) AT THE END OF THE REINFORCEMENT BAR, NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

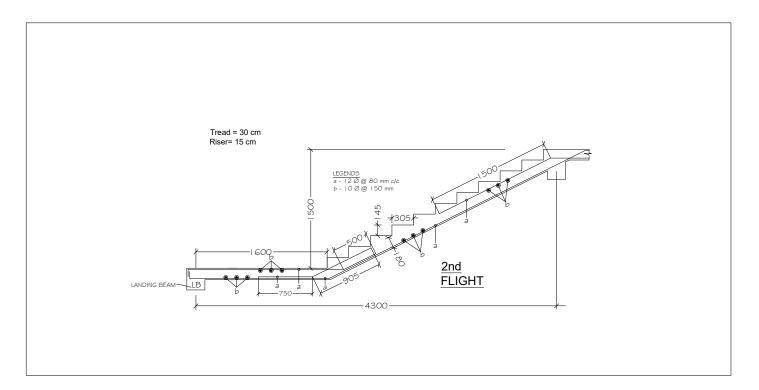
FOR LONGITUDINAL REINFORCING BAR IN A BEAM NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.
 HE SAFE BEARING CAPACITY OF SOIL IS CONSIDERED AS 15.77 TON SO, M AT A DEPTH OF 2.00M. THIS CAPACITY NEEDS TO BE CONFIRMED BY CONDUCTING A PLATE-LOAD TEST.

12. THE POSITION OF HOOKS OF COLUMN TIES SHALL BE VERTICALLY STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.

13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE SECTION







STAIRCASE -2

L DRAWN DV	Lausausa av	COUNTERSIGNED BY	APPROVED BY
DRAWN BY	CHECKED BY	COUNTERSTONED BY	AFFROVED BI
GARRY WEGARA K. MARAK	FRANKIE BIAM	R. WANNIANG	RAMKUMAR S (IAS)
JE, MHSSP		EXECUITVE ENGINEER, HEW	MISSION DIRECTOR, NHM
L	<u> </u>		

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PROJECT TITLE SCHOOL OF NURSING UPGRADATION



SITE DETAILS	
LOCATION	NONGPOH, MEGHALAYA

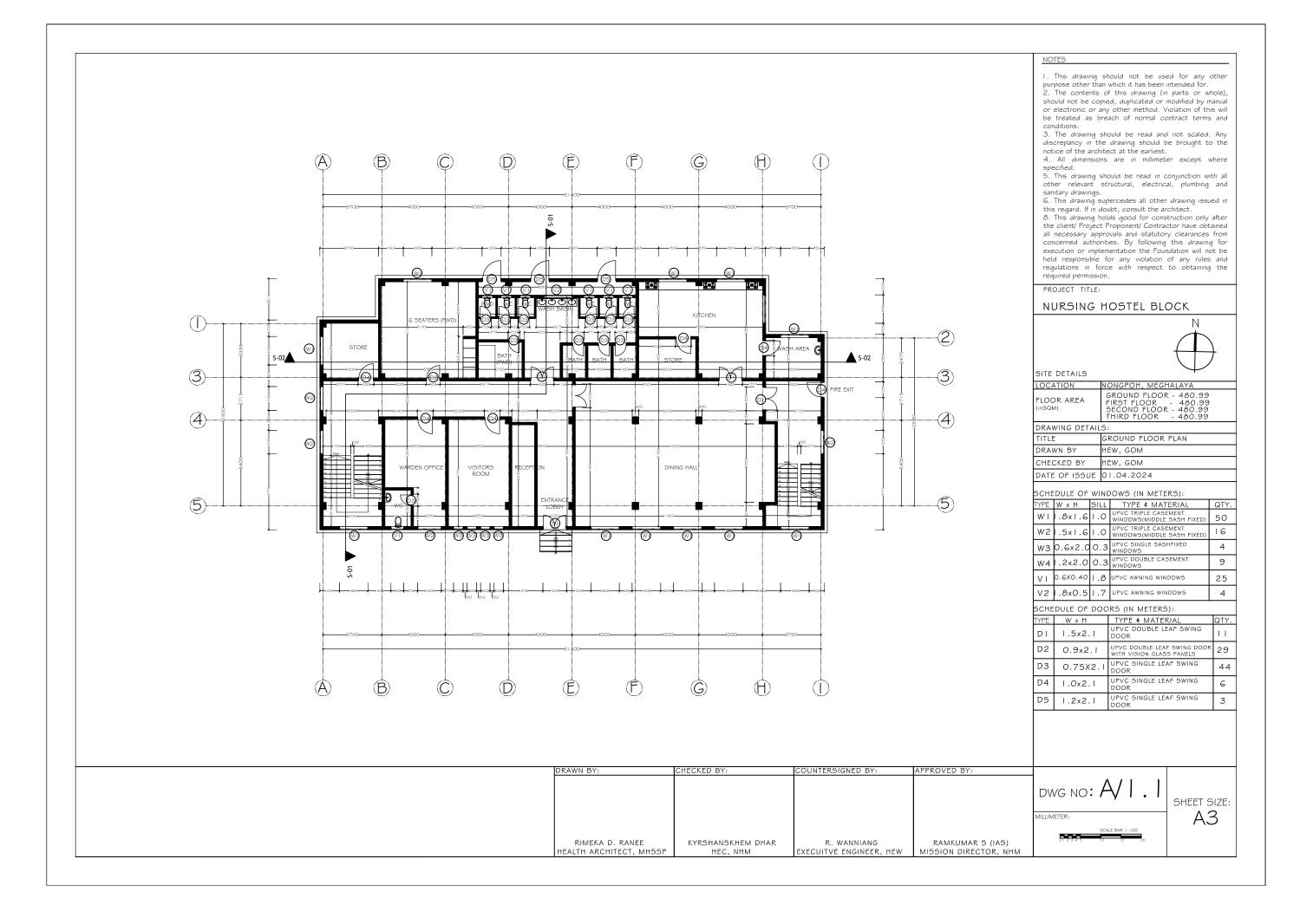
DRAWING DETAILS				
TITLE	STAIRCASE DETAILS			
DRAWN BY	неж, дом			
CHECKED BY	неw, дом			

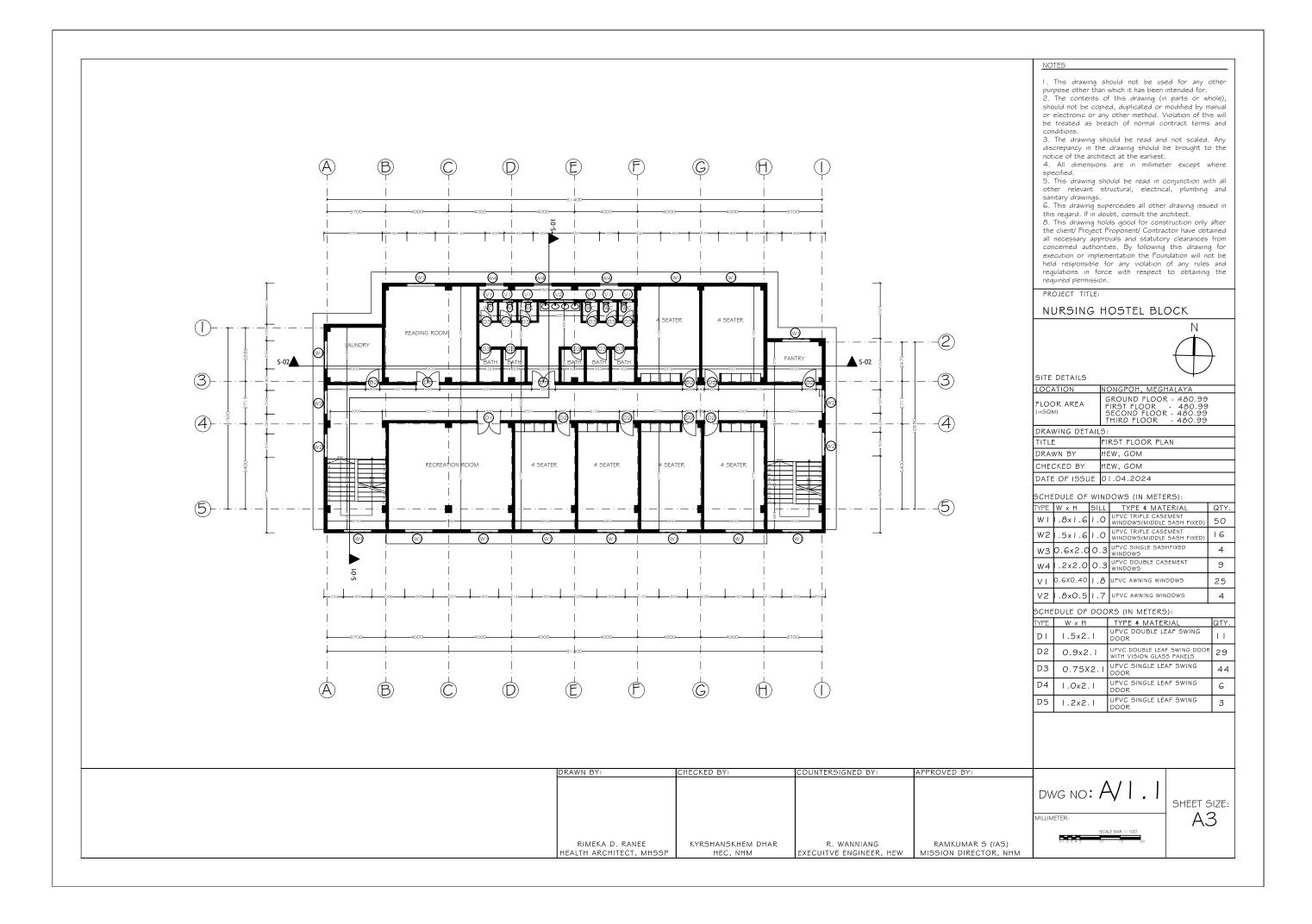
NOTES

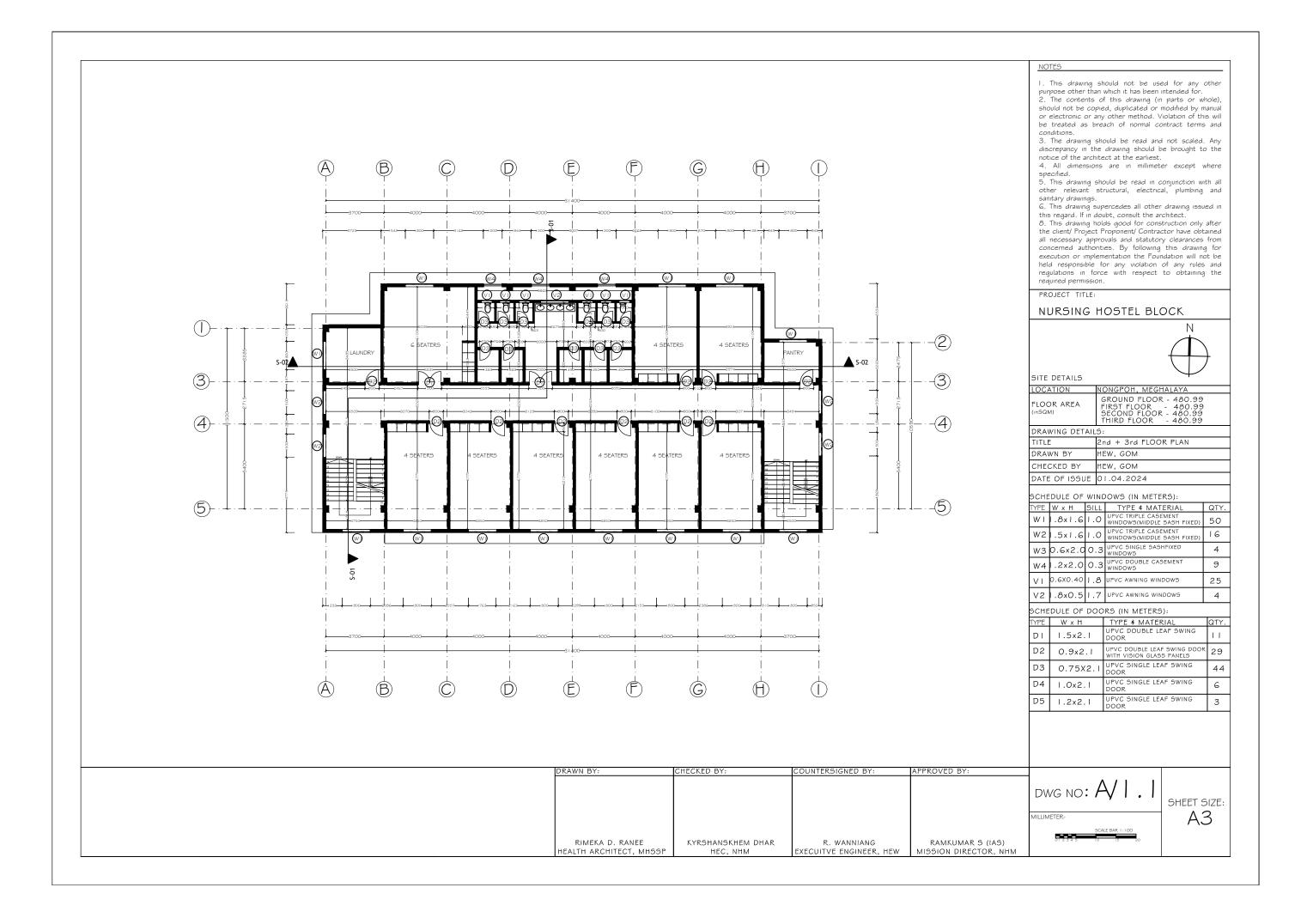
DATE OF ISSUE

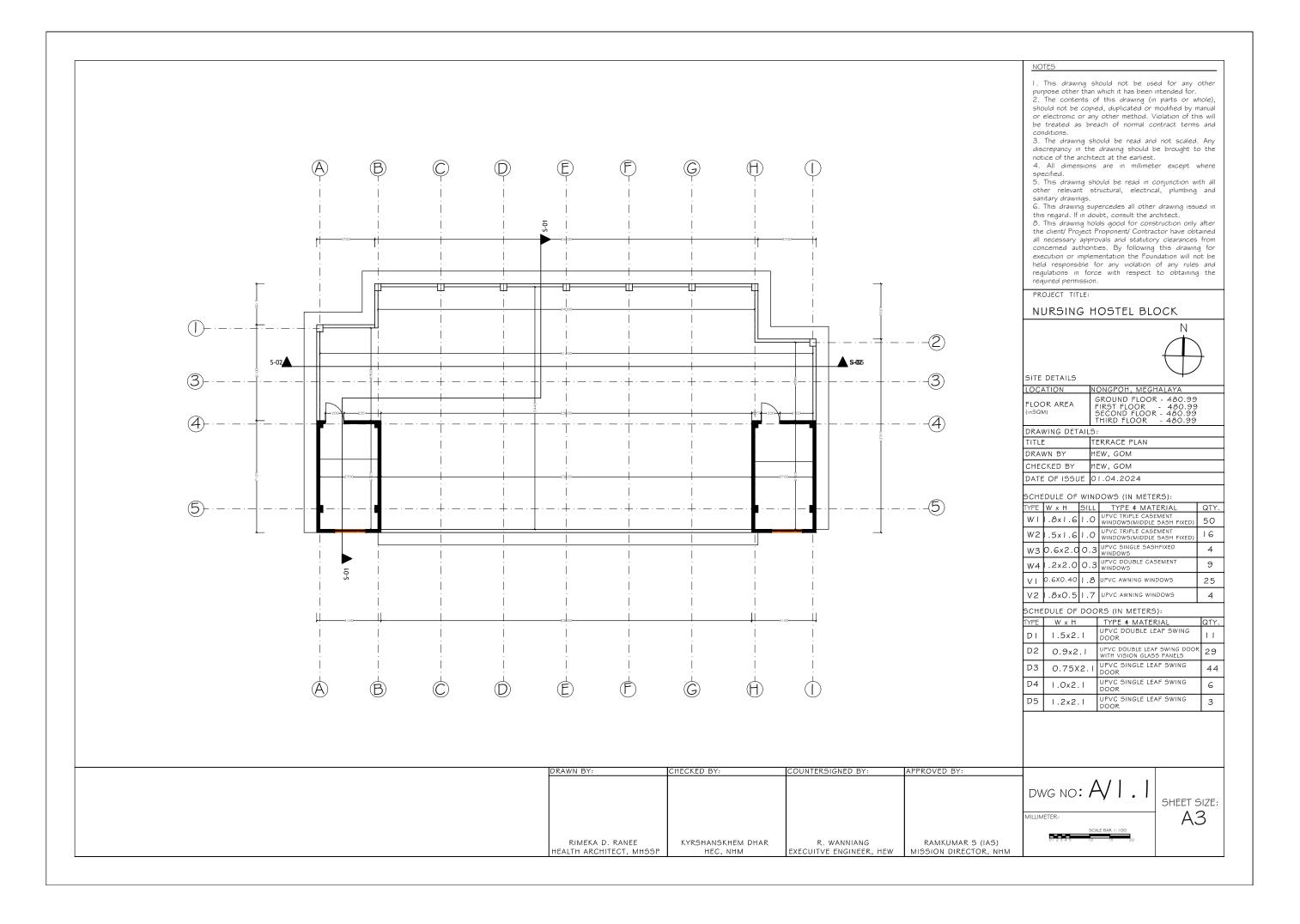
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- 5.ALL R.C.C. WORK SHALL BE OF M25 GRADE.
 6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-
- A) FOOTING
 B) BEAM
 C) SLAB
 D) COLUMN
 E) STAIRCASE SLAB
- 7. ALL GRID LINES PASS THROUGH THE CENTRE LINE OF COLUMN.
- 8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% FROOF STRESS NOT LESS THAN 500N/sgmm.

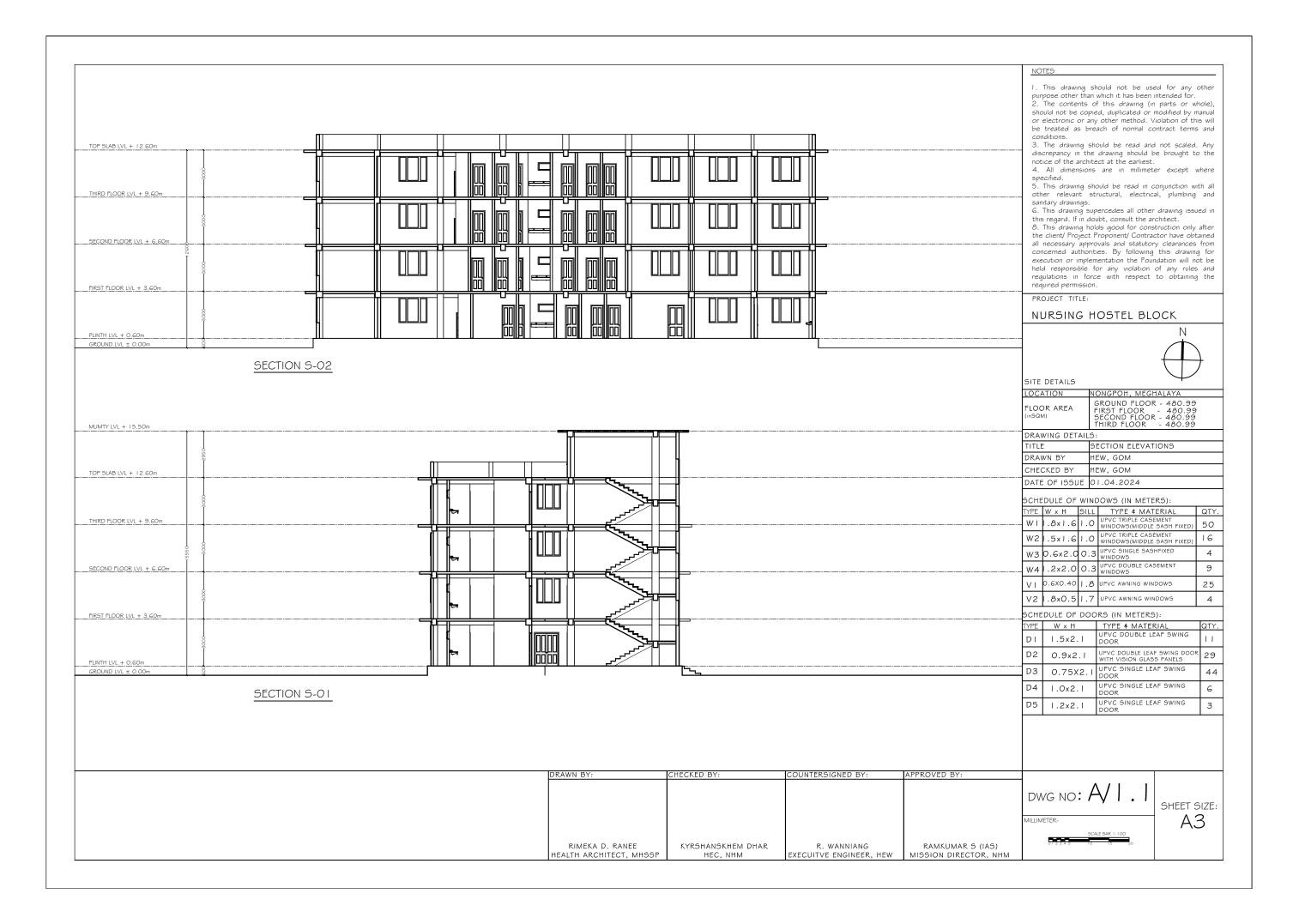
 9. LAP AND ANCHORAGE LENGTH (Ld) OF BARS SHALL BE 47 TIMES OF BAR DIA. FOR MIX 1:1.5:3 LAP SHALL SHALL BE STAGGERED AND AVOIDED AT THE POINT OF MAX. BENDING MOMENT.
- 10. REINFORCEMENT SHALL HAVE CONCRETE COVER AND THICKNESS OF SUCH COVER (EXCLUSIVE OF PLASTER AND OTHER DECORATIVE FINISH) SHALL BE AS FOLLOWS:-
- A) AT THE END OF THE REINFORCEMENT BAR, NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.
- FOR LONGITUDINAL REINFORCING BAR IN A BEAM NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.
 HE SAFE BEARING CAPACITY OF SOIL IS CONSIDERED AS 15.77 TON SO, M AT A DEPTH OF 2.00M. THIS CAPACITY NEEDS TO BE CONFIRMED BY CONDUCTING A PLATE-LOAD TEST.
- 12. THE POSITION OF HOOKS OF COLUMN TIES SHALL BE VERTICALLY STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.
- 13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE SECTION

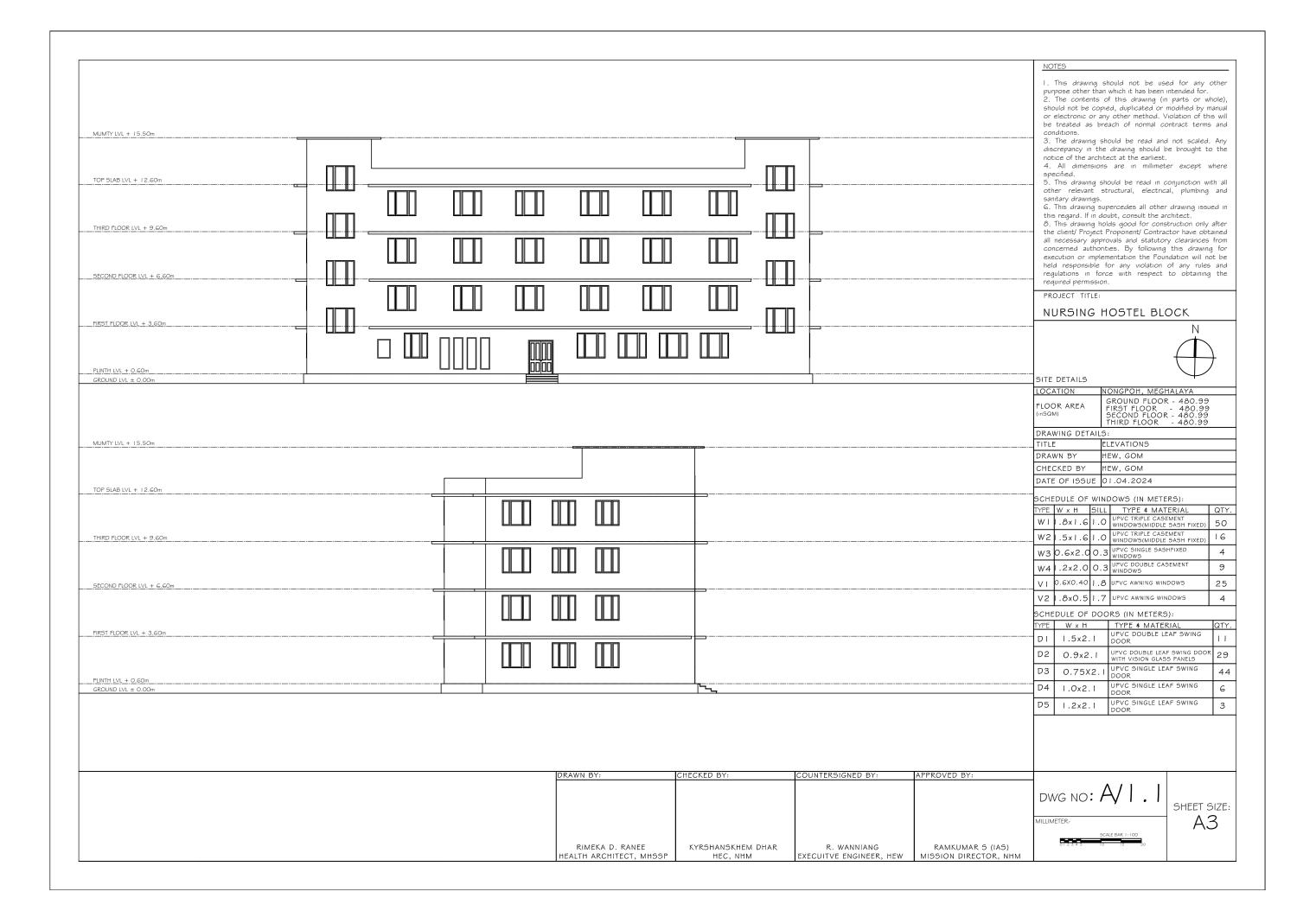


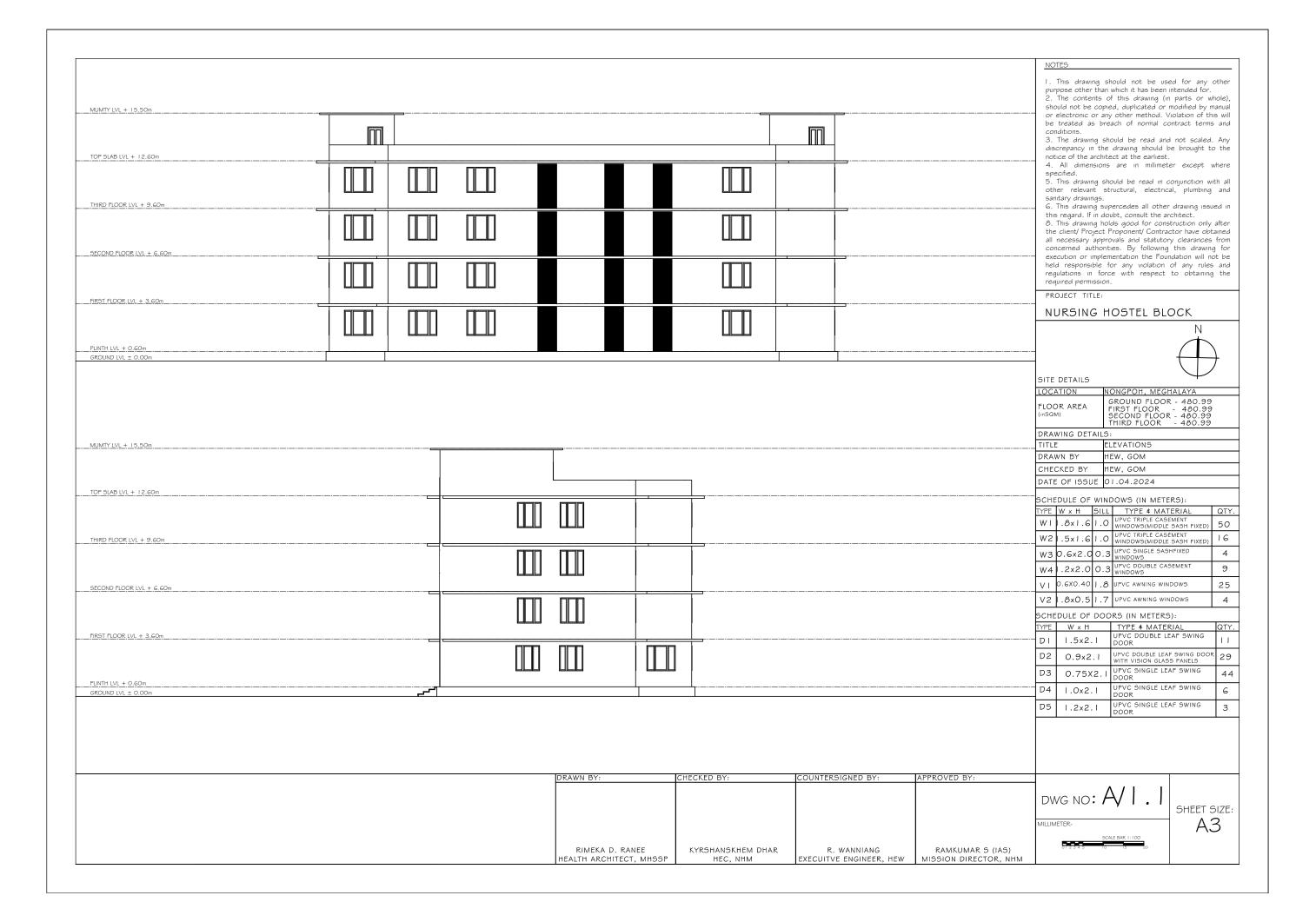


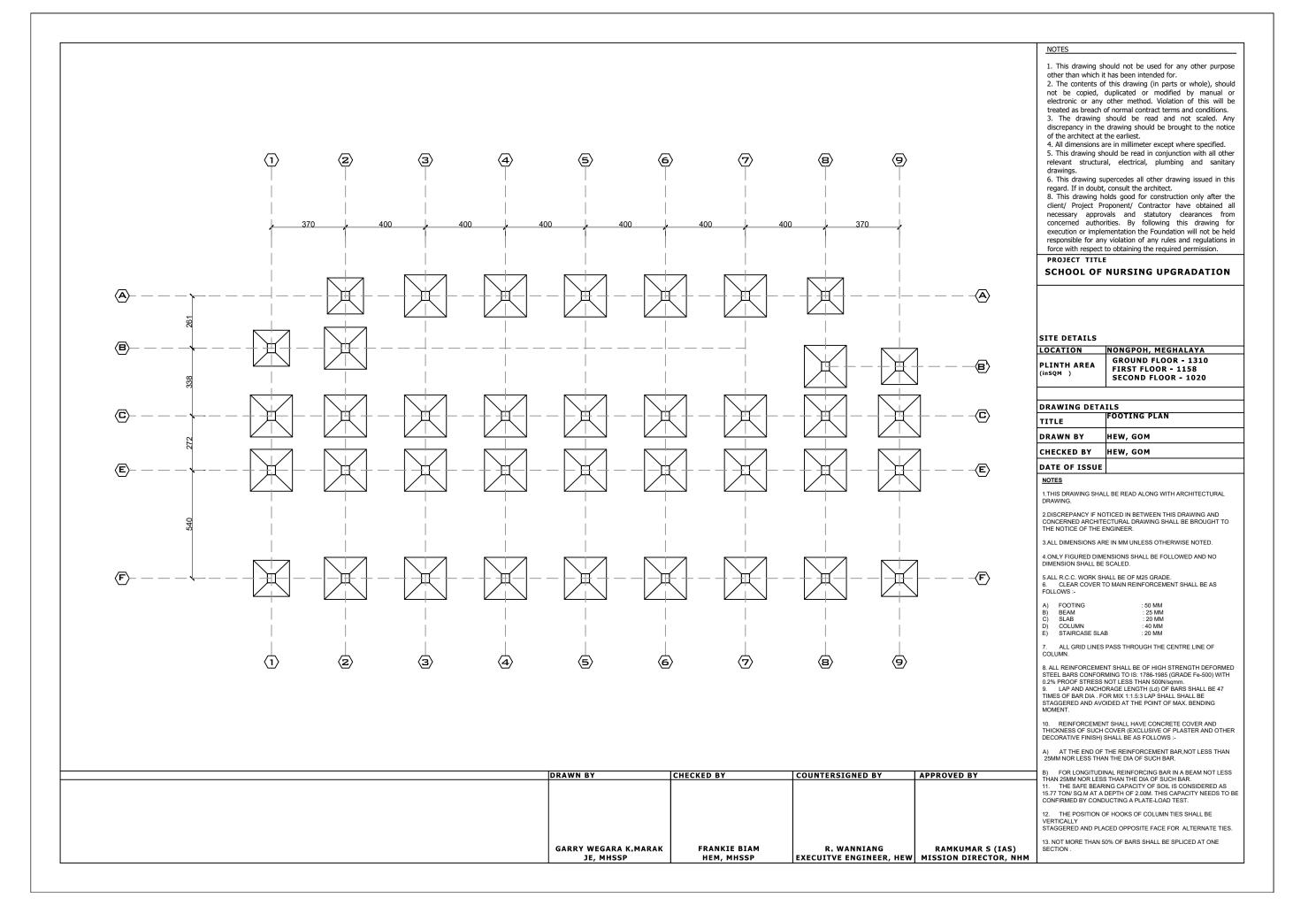


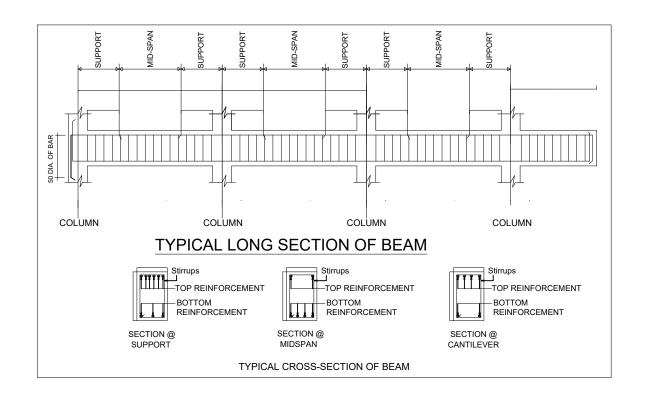


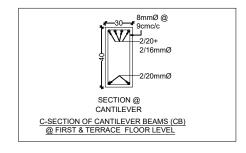


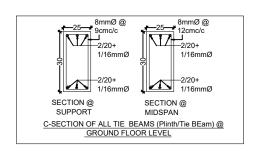


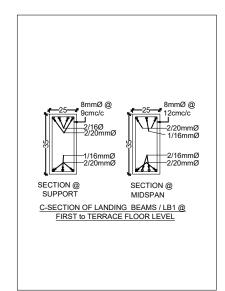


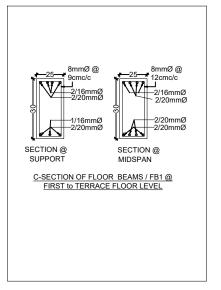


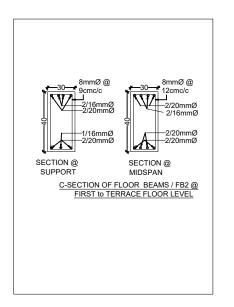












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GARRY WEGARA K.MARAK		R. WANNIANG	RAMKUMAR S (IAS)	SI
JE, MHSSP	HEM, MHSSP	EXECUITVE ENGINEER, HEW	MISSION DIRECTOR, NHM	

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PROJECT TITLE

HOSTEL BLOCK



SITE DETAILS

	NONGPOH, MEGHALAYA
PLINTH AREA (inSQM)	GROUND FLOOR - 472.35 FIRST FLOOR - 336.43 2nd & 3rd FLOOR - 361.41

DRAWING DETAILS

DKAWING DETA	ILS
TITLE	TYPICAL LONGSECTION OF BEAM BEAMS SECTION OF ALL FLOORS
DRAWN BY	HEW, GOM
CHECKED BY	HEW, GOM
DATE OF ISSUE	

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A) FOOTING : 50 MM B) BEAM : 25 MM C) SLAB : 20 MM D) COLUMN : 40 MM E) STAIRCASE SLAB : 20 MM

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8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% PROOF STRESS NOT LESS THAN 500N/sqmm.

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MOMENT

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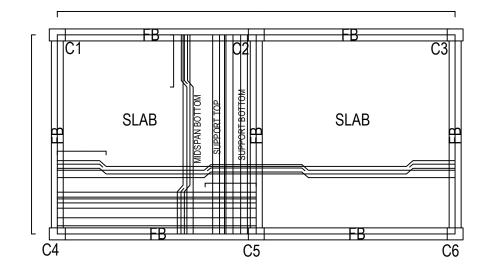
B) FOR LONGITUDINAL REINFORCING BAR IN A BEAM NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

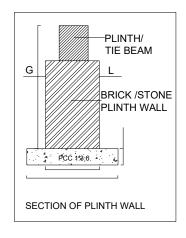
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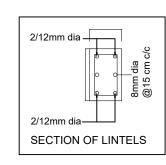
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STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.

13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE SECTION .

TYPICAL DETAILS OF SLAB







TYPICAL PLAN

TABLE OF SLAB REINFORCEMENT

		x- direction			LOCIVICION	Y- direction			
Slab Name	Thickness	At Mi	At Midspan At Support		At Midspan		At Su	pport	
		Тор	Bottom	Тор	Bottom	Тор	Bottom	Тор	Bottom
SLAB OR DROP SLAB @ FIRST,SECOND & TERRACE FLOOR LEVEL	12.5 CM	Nil	10 mm dia bar @ 12 cm c/c	12 mm dia bar @ 12 cm c/c	10 mm dia bar @ 24 cm c/c	Nil	10 mm dia bar @ 12 cm c/c	12 mm dia bar @ 12 cm c/c	10 mm dia bar @ 24 cm c/c
CANT SLAB OR CANT DROP SLAB @ FIRST, SECOND & TERRACE FLOOR LEVEL	12.5 CM	10 mm dia bar @ 12 cm c/c	10 mm dia bar @ 24 cm c/c	10 mm dia bar @ 12 cm c/c	10 mm dia bar @ 24 cm c/c	10 mm dia bar @ 12 cm c/c	10 mm dia bar @ 24 cm c/c	10 mm dia bar @ 12 cm c/c	10 mm dia bar @ 24 cm c/c

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GARRY WEGARA K.MARAK JE, MHSSP	FRANKIE BIAM HEM, MHSSP	R. WANNIANG EXECUITVE ENGINEER, HEW	RAMKUMAR S (IAS) MISSION DIRECTOR, NHM	13. I SEC

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PROJECT TITLE

HOSTEL BLOCK



SITE DETAILS

DRAWING DETAILS

TITLE	PLINTH WALL& SLAB DETAILS
DRAWN BY	HEW, GOM
CHECKED BY	HEW, GOM

DATE OF ISSUE

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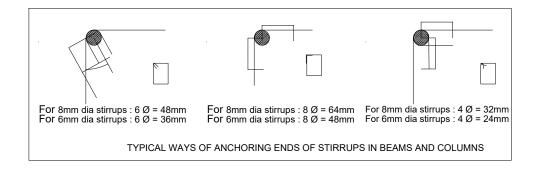
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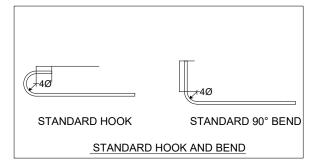
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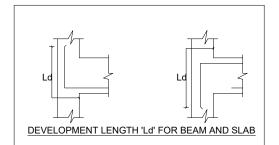
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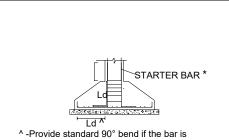






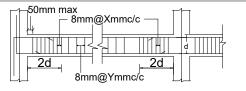
DEVELOPMENT LENGTH 'Ld' for Deformed Bars

Bar Diameter	'Ld' for Grade of Concrete (cm)				
(mm)	M15	M20	M25		
6	33.8	28.2	24.2		
8	45.1	37.6	32.2		
10	56.4	47.0	40.3		
12	67.7	56.4	48.4		
16	90.3	75.2	64.5		
20	112.8	94.0	80.6		
25	141.0	117.5	100.7		



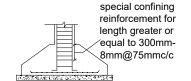
*-Provide standard 90° bend if the bar is required to bent upward to get the required development length *-Use of starter bars or continous bars

depends upon the distance between the ground floor level and the level of foundation DEVELOPMENT LENGTH 'Ld' of COLUMN FOOTING

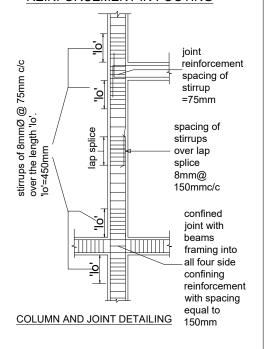


NOTE:d is the effective depth of beams NOTE:X is variable and is as per detailing NOTE:y is variable and is as per detailing

BEAM REINFORCEMENT



PROVISION OF SPECIAL CONFINING REINFORCEMENT IN FOOTING



TYPICAL DRAWING AND DETAILS
SPACING OF REINFORCEMENT
FOR BEAMS, COLUMNS & FOOTING AS PER
IS 13920:1993

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PROJECT TITLE

HOSTEL BLOCK



SITE DETAILS

LOCATION	NONGPOH, MEGHALAYA
	GROUND FLOOR - 472.35
PLINTH AREA	FIRST FLOOR - 336.43
(inSQM)	FIRST FLOOR - 336.43 2nd & 3rd FLOOR - 361.41

DRAWING DETAILS

TITLE	STRUCTURAL SPECIFICATION
DRAWN BY	HEW, GOM
CHECKED BY	HEW, GOM
DATE OF ISSUE	

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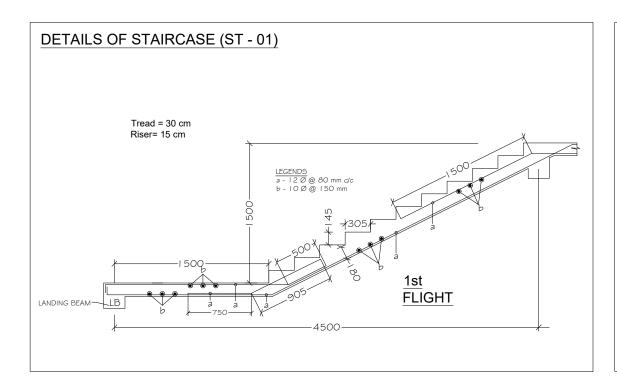
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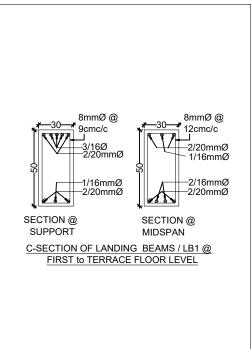
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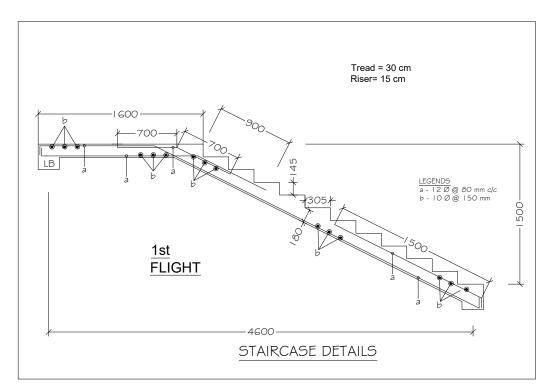
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JE, MHSSP	l	R. WANNIANG	RAMKUMAR S (IAS)	l s
JL, MIISSF	IILM, MIISSF	EXECUITVE ENGINEER, HEW	MISSION DIRECTOR, NHM	丄







DRAWN BY	CHECKED BY	COUNTERSIGNED BY	APPROVED BY	B) THA
				11. 15.7 CON
				12. VER STA
GARRY WEGARA K.MARAK JE, MHSSP	HEM MHSSD	R. WANNIANG EXECUITVE ENGINEER, HEW	RAMKUMAR S (IAS) MISSION DIRECTOR, NHM	13. N SEC

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HOSTEL BLOCK



SITE DETAILS

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	PLINTH AREA	GROUND FLOOR - 472.35	
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DATE OF ISSUE

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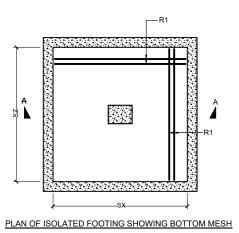
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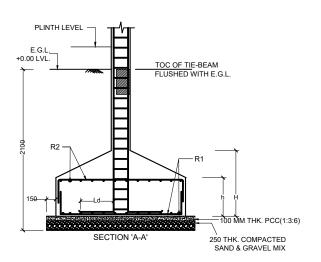
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B)	BEAM	: 25 MM
C)	SLAB	: 20 MM
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SCHEDULE OF COLUMN REINFORCEMENT UPTO 2ND FLOOR

COLUMN SIZE	REINF. BAR	SIZE	COLUMN MKD.	SCHEDULE OF STIRRUP ARRANGEMENT
450	6 - 20	350X450		ONE TIE & FIVE LINKS
350	12 - 20 & 10 & TIE	350X350		THREE TIES





DRAWN BY

GARRY WEGARA K.MARAK

JE, MHSSP

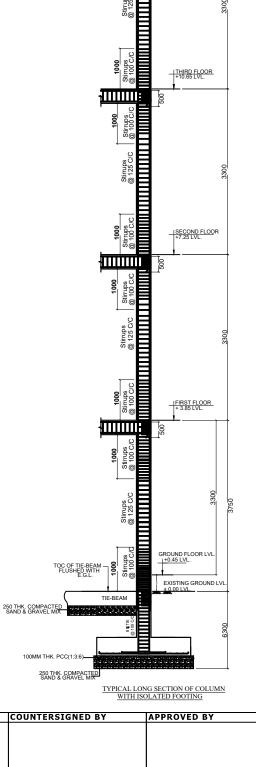
CHECKED BY

FRANKIE BIAM

HEM, MHSSP

ISOLATED FOOTING SCHEDULE

TYPE	sx	SZ	h	Н	R1 BOTTOM MESH	R2 TOP MESH
F1	1900	1900	400	700	16 ℚ @100 C/C	10 ₲ @1 50 C/C
F2	2100	2100	450	750	16 ^ℚ @100 C/C	10 ℚ @150 C/C



R. WANNIANG RAMKUMAR S (IAS)
EXECUITVE ENGINEER, HEW MISSION DIRECTOR, NHM

NOTES

TERRACE FLOOR & ROOF +14.05 LVL.

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PROJECT TITLE

SCHOOL OF NURSING UPGRADATION

SITE DETAILS

LOCATION	NONGPOH, MEGHALAYA
PLINTH AREA	GROUND FLOOR - 1310 FIRST FLOOR - 1158 SECOND FLOOR - 1020

DRAWING DETAILS

TITLE	FOOTING & COLUMNS DETAILS				
DRAWN BY	HEW, GOM				
CHECKED BY	HEW, GOM				
DATE OF ISSUE					

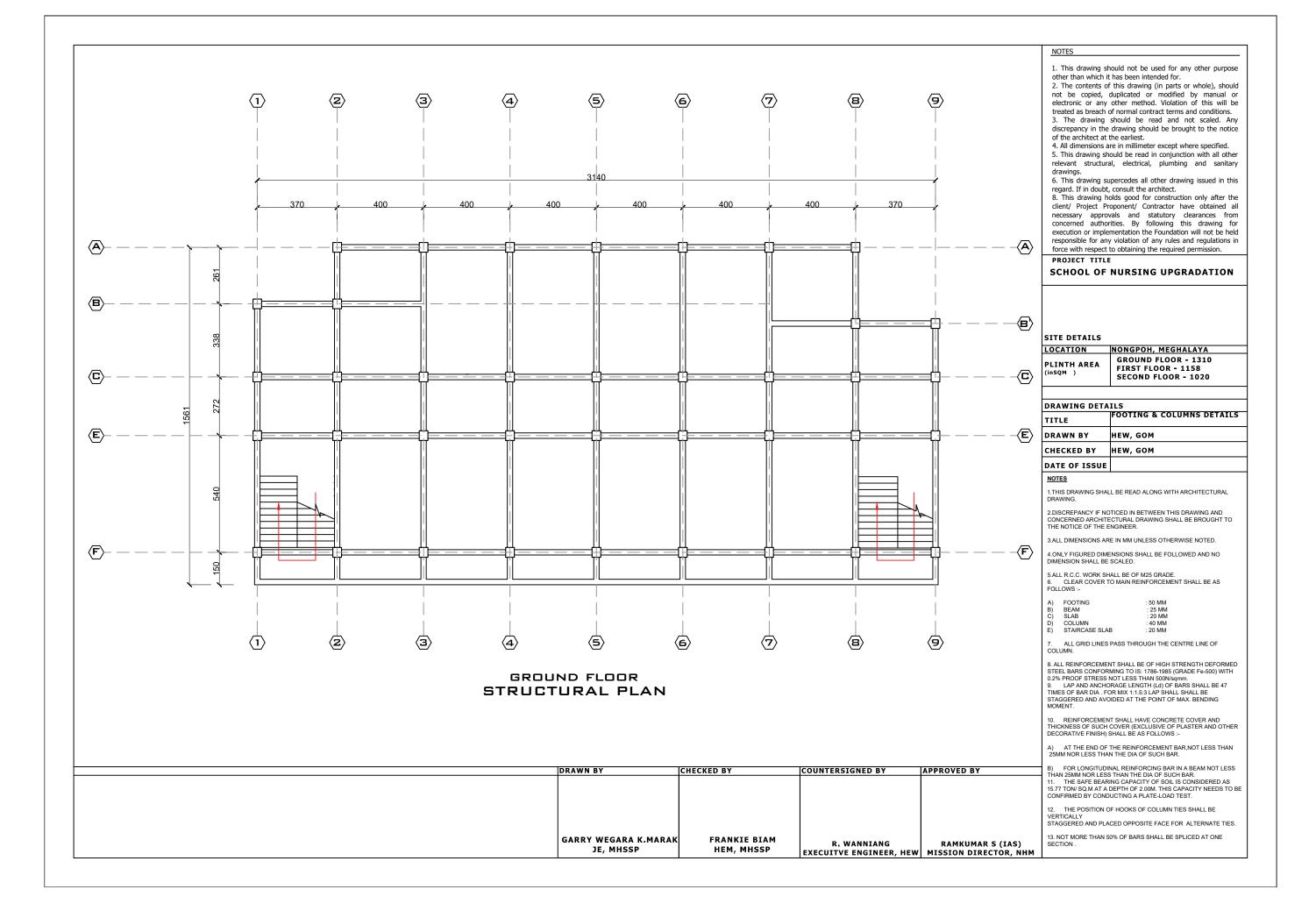
NOTES

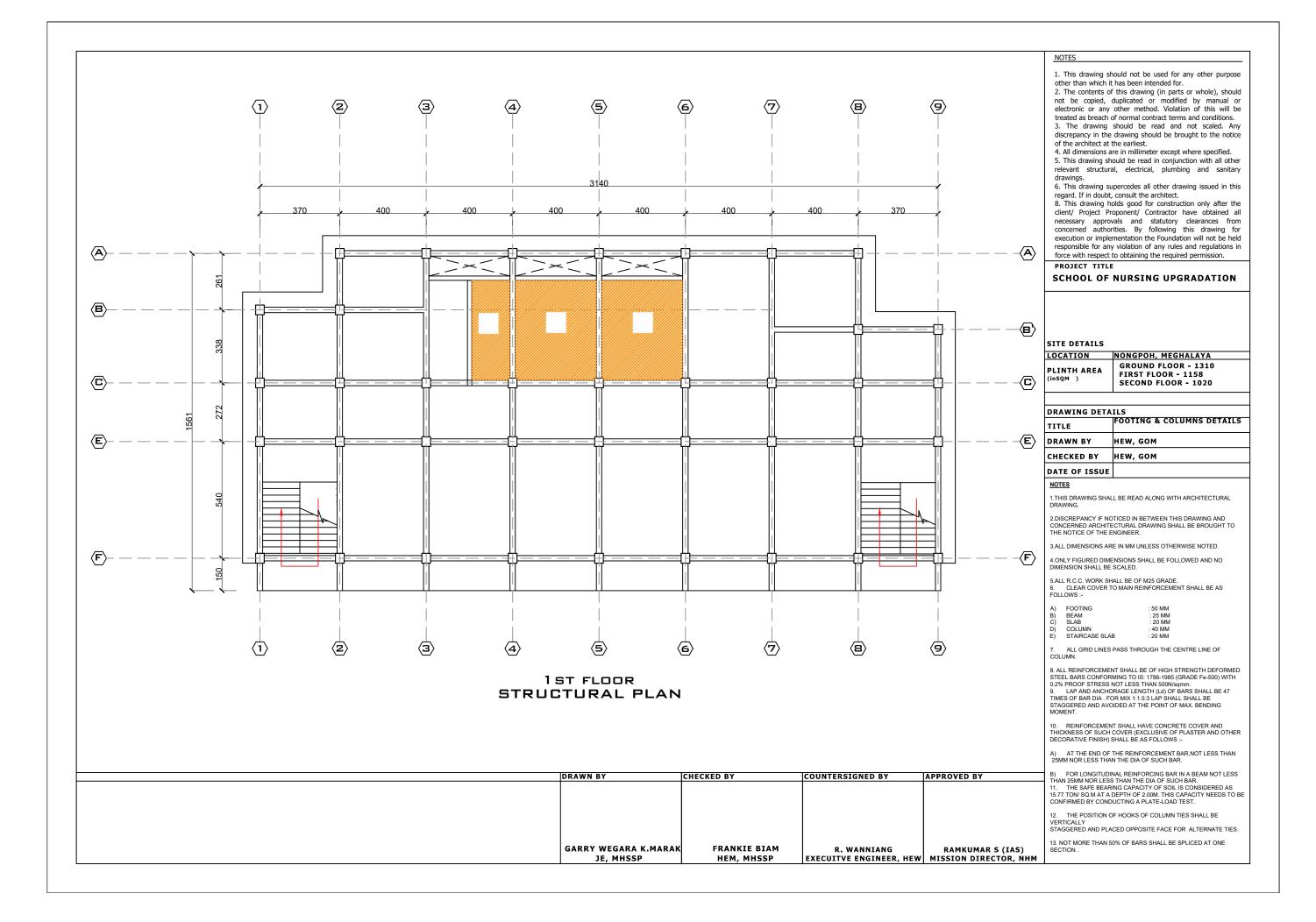
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- 4.ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED AND NO DIMENSION SHALL BE SCALED.
- 5.ALL R.C.C. WORK SHALL BE OF M25 GRADE.
 6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-
- OLLOWS:
 N) FOOTING : 50 MM

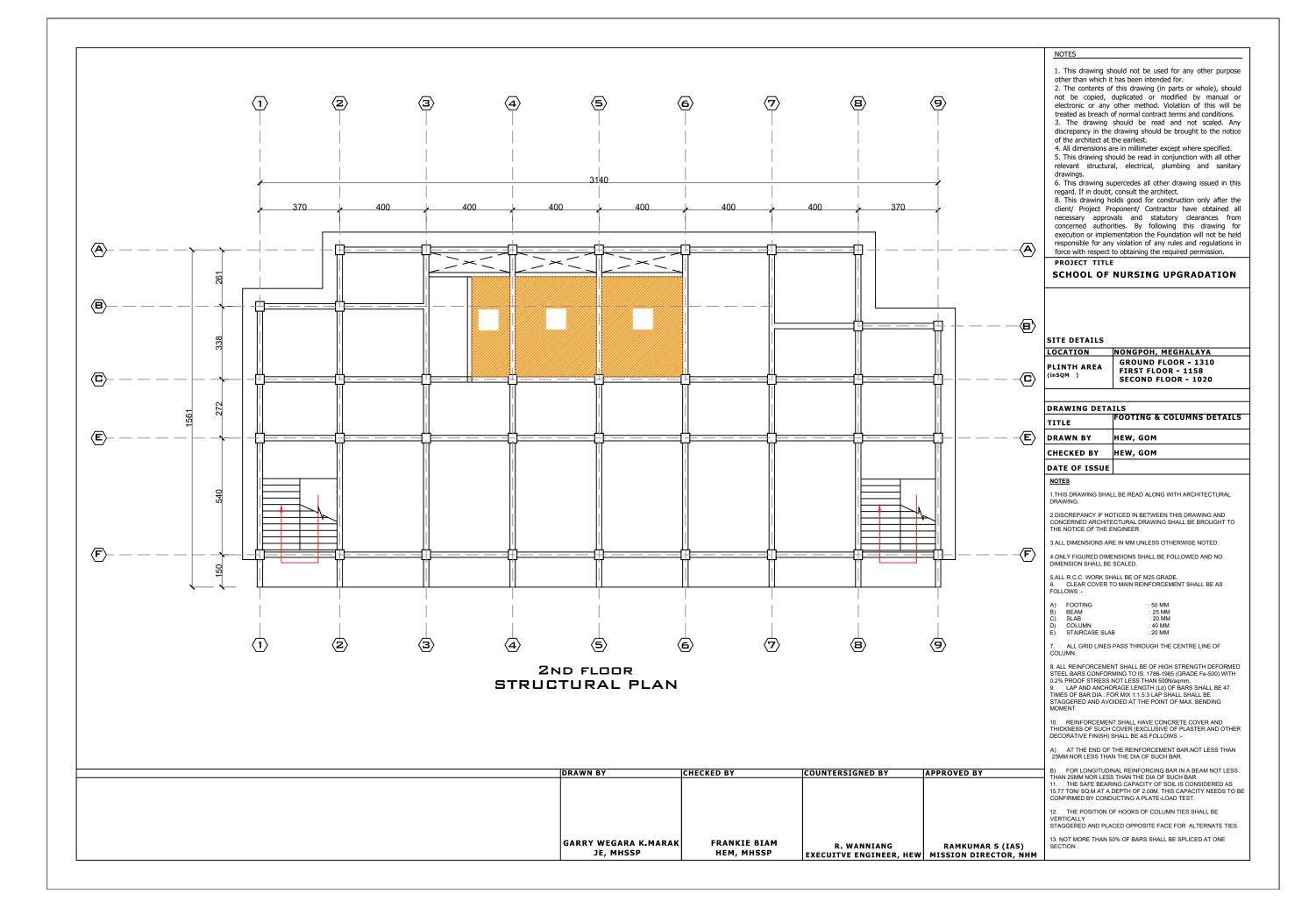
 BEAM : 25 MM

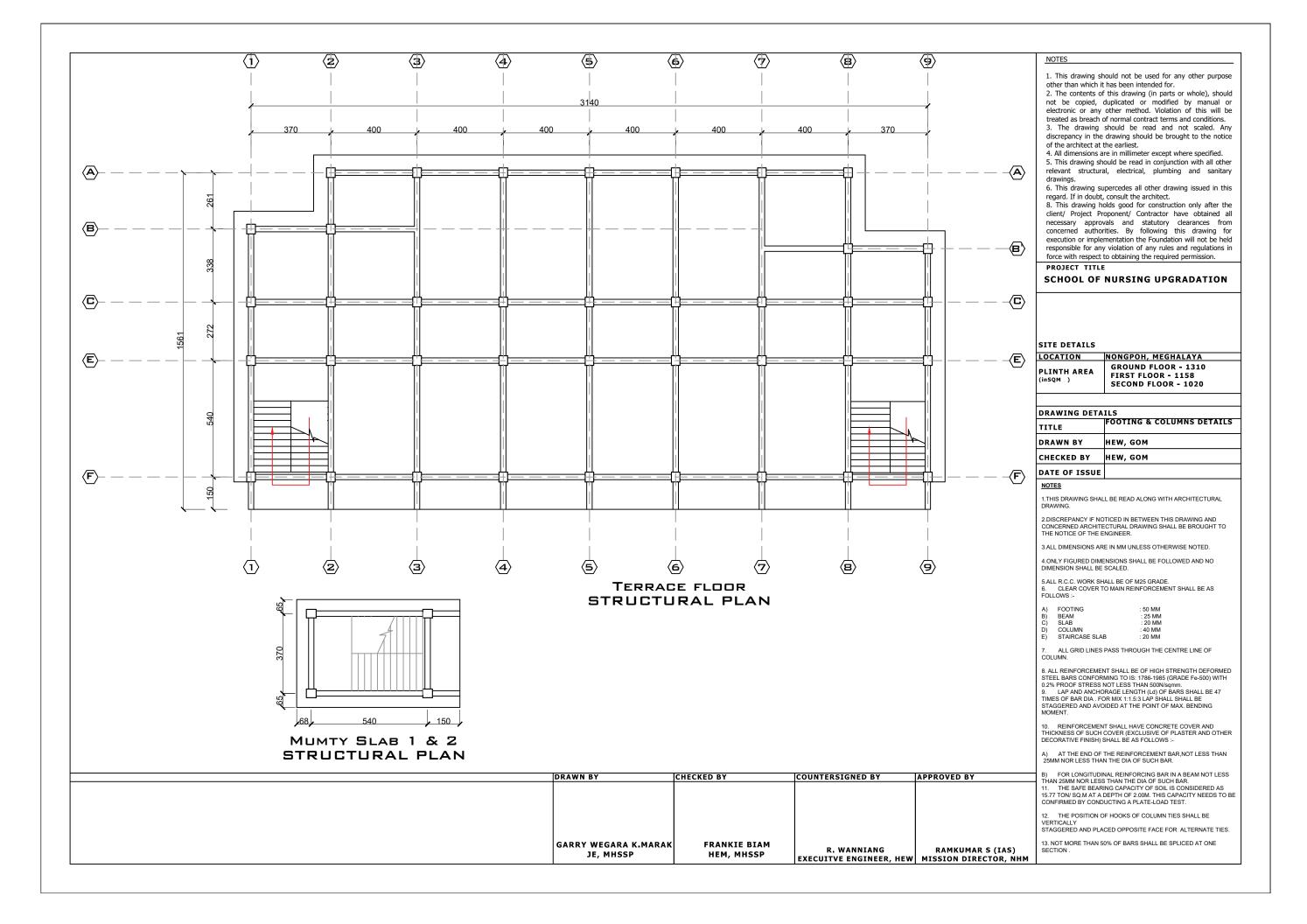
 COLUMN : 20 MM
- A) FOUTING :50 MM
 B) BEAM :25 MM
 C) SLAB :20 MM
 D) COLUMN :40 MM
 E) STAIRCASE SLAB :20 MM
- 7. ALL GRID LINES PASS THROUGH THE CENTRE LINE OF COLUMN.
- 8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% PROOF STRESS NOT LESS THAN 500N/sqmm. 9. LAP AND ANCHORAGE LENGTH (Ld) OF BARS SHALL BE 47
- 9. LAP AND ANCHORAGE LENGTH (Ld) OF BARS SHALL BE 4 TIMES OF BAR DIA . FOR MIX 1:1.5:3 LAP SHALL SHALL BE STAGGERED AND AVOIDED AT THE POINT OF MAX. BENDING
- 10. REINFORCEMENT SHALL HAVE CONCRETE COVER AND THICKNESS OF SUCH COVER (EXCLUSIVE OF PLASTER AND OTHER DECORATIVE FINISH) SHALL BE AS FOLLOWS:-
- A) AT THE END OF THE REINFORCEMENT BAR, NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.
- B) FOR LONGITUDINAL REINFORCING BAR IN A BEAM NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

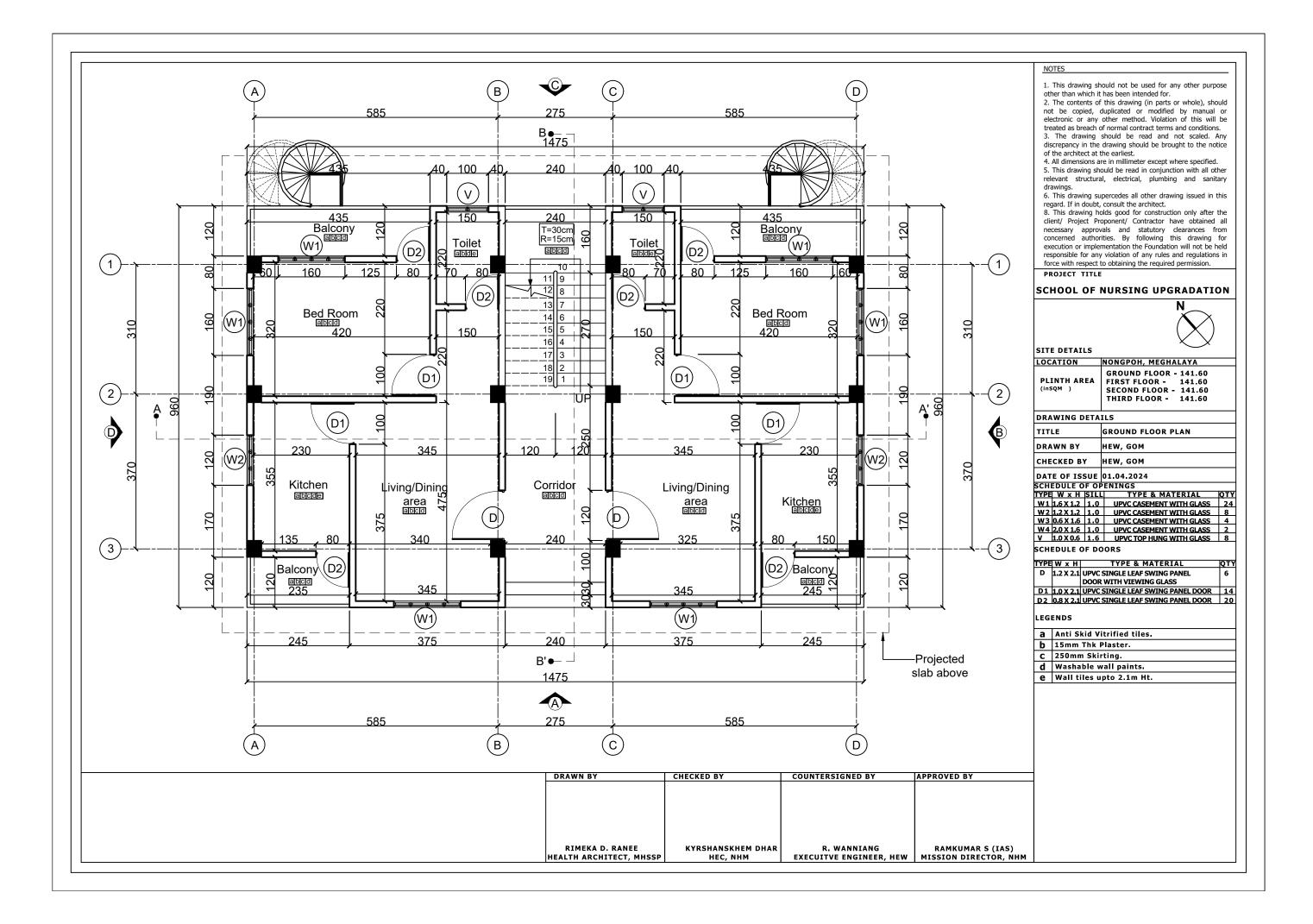
 11. THE SAFE BEARING CAPACITY OF SOIL IS CONSIDERED AS 15.77 TON SQ.M AT A DEPTH OF 2.00M. THIS CAPACITY NEEDS TO BE CONFIRMED BY CONDUCTING A PLATE-LOAD TEST.
- 12. THE POSITION OF HOOKS OF COLUMN TIES SHALL BE VERTICALLY STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.
- 13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE

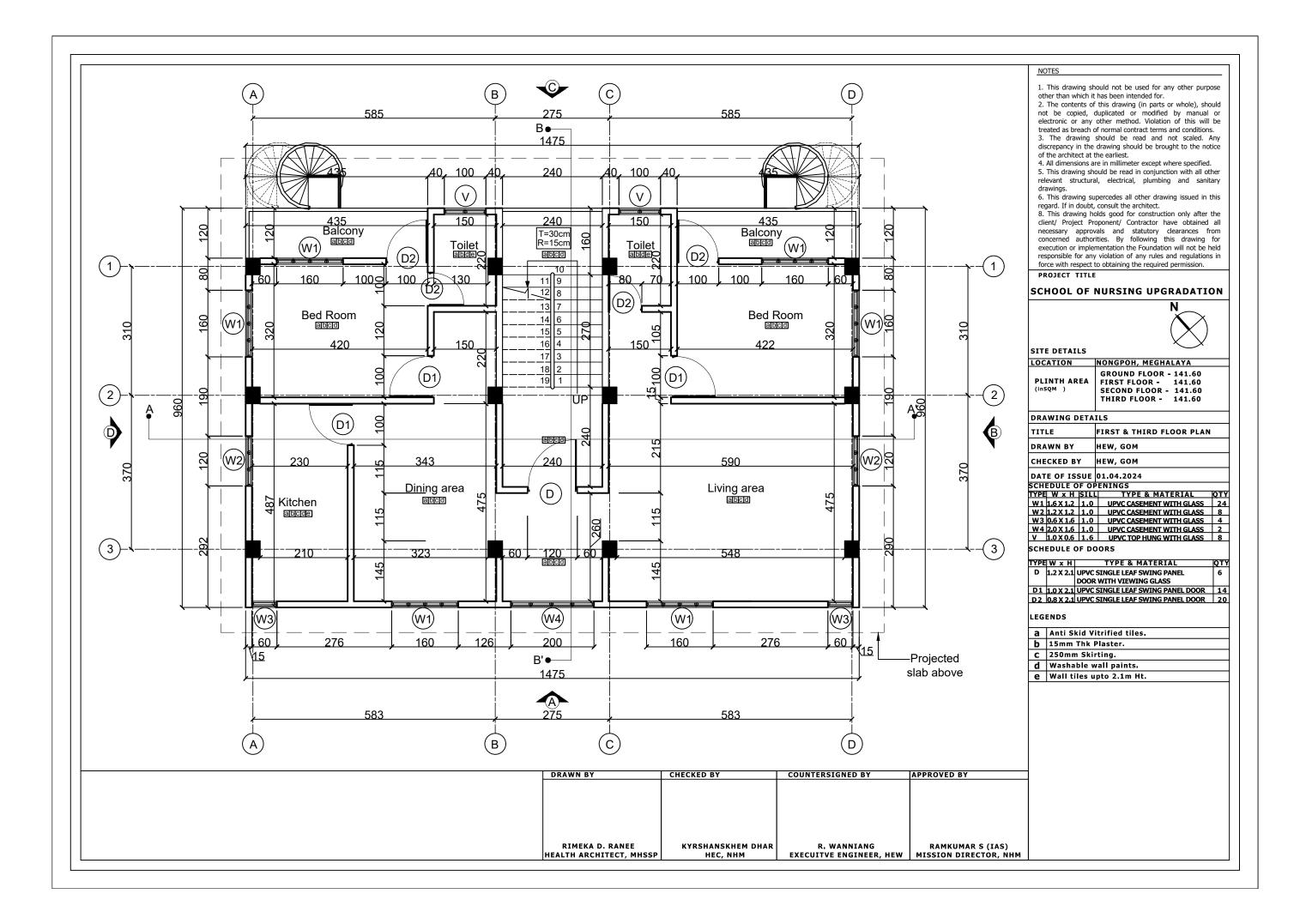


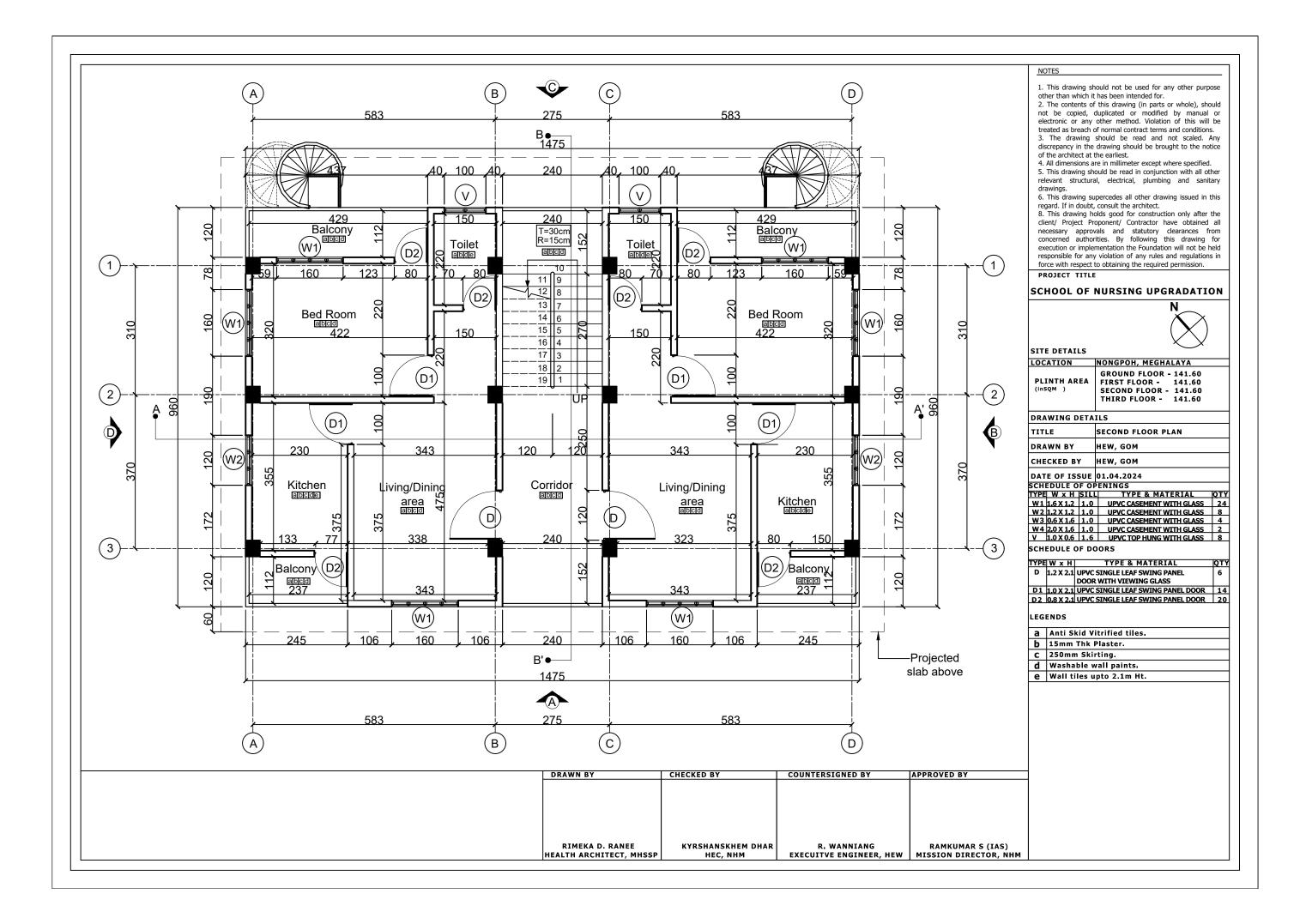


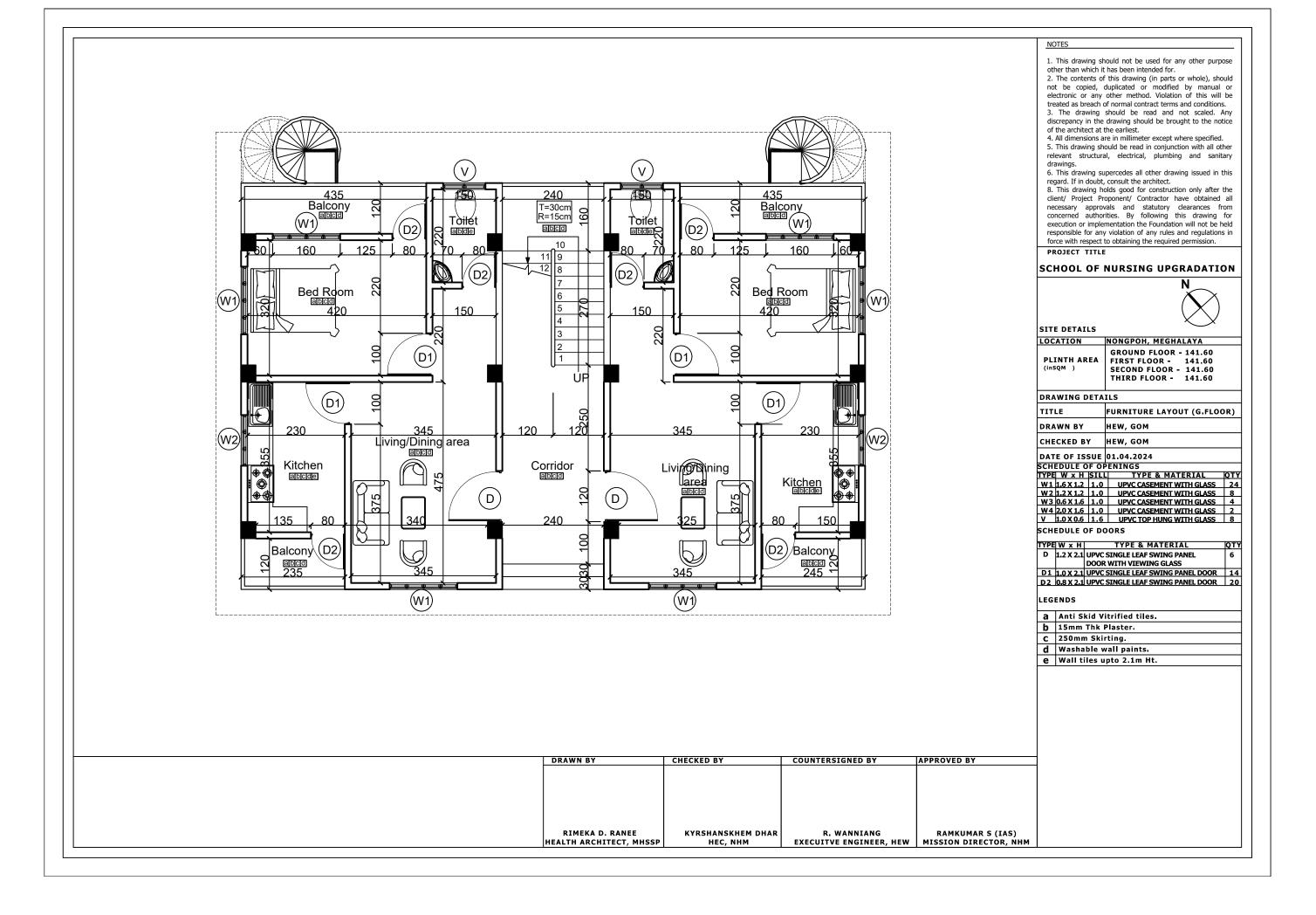


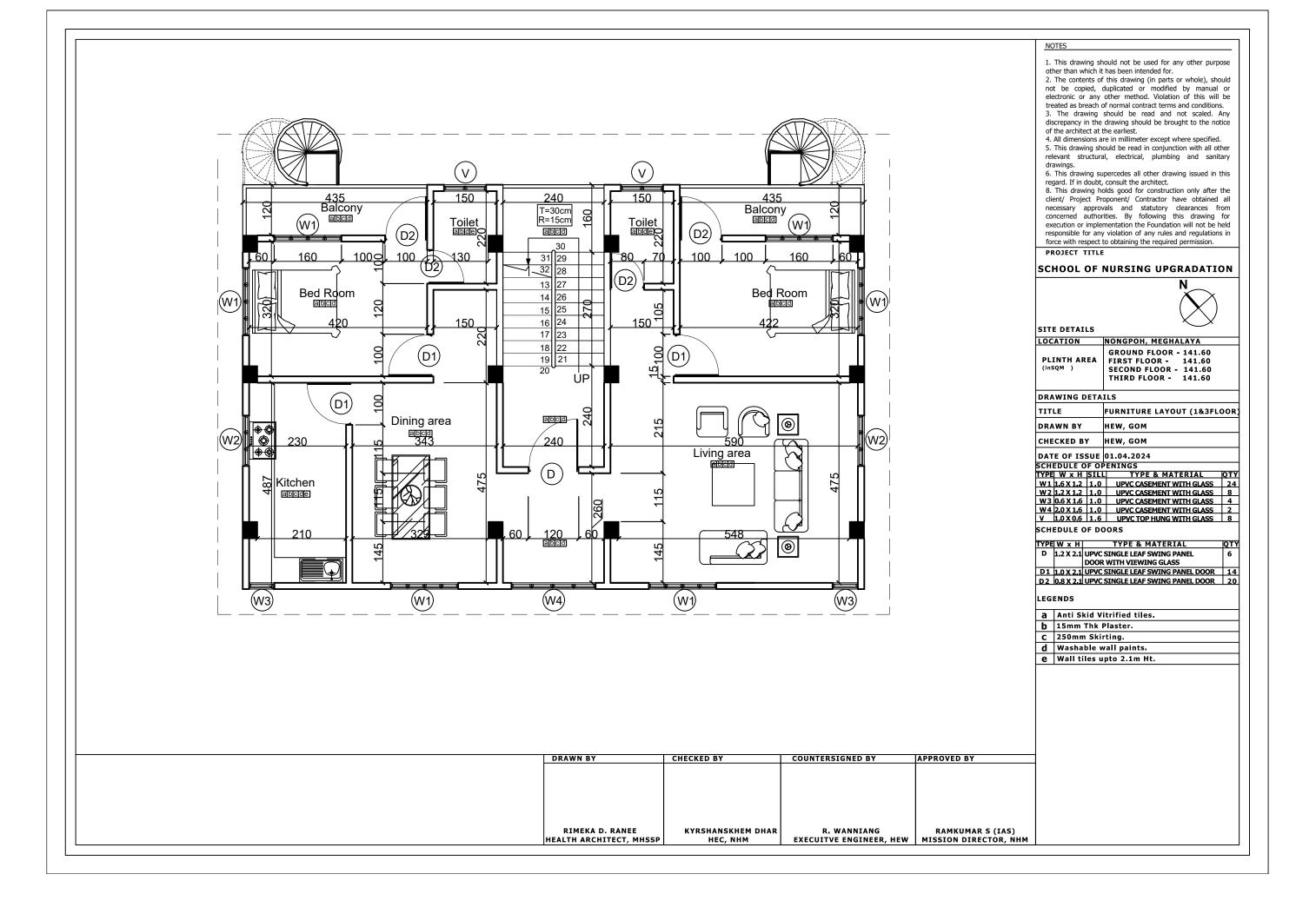


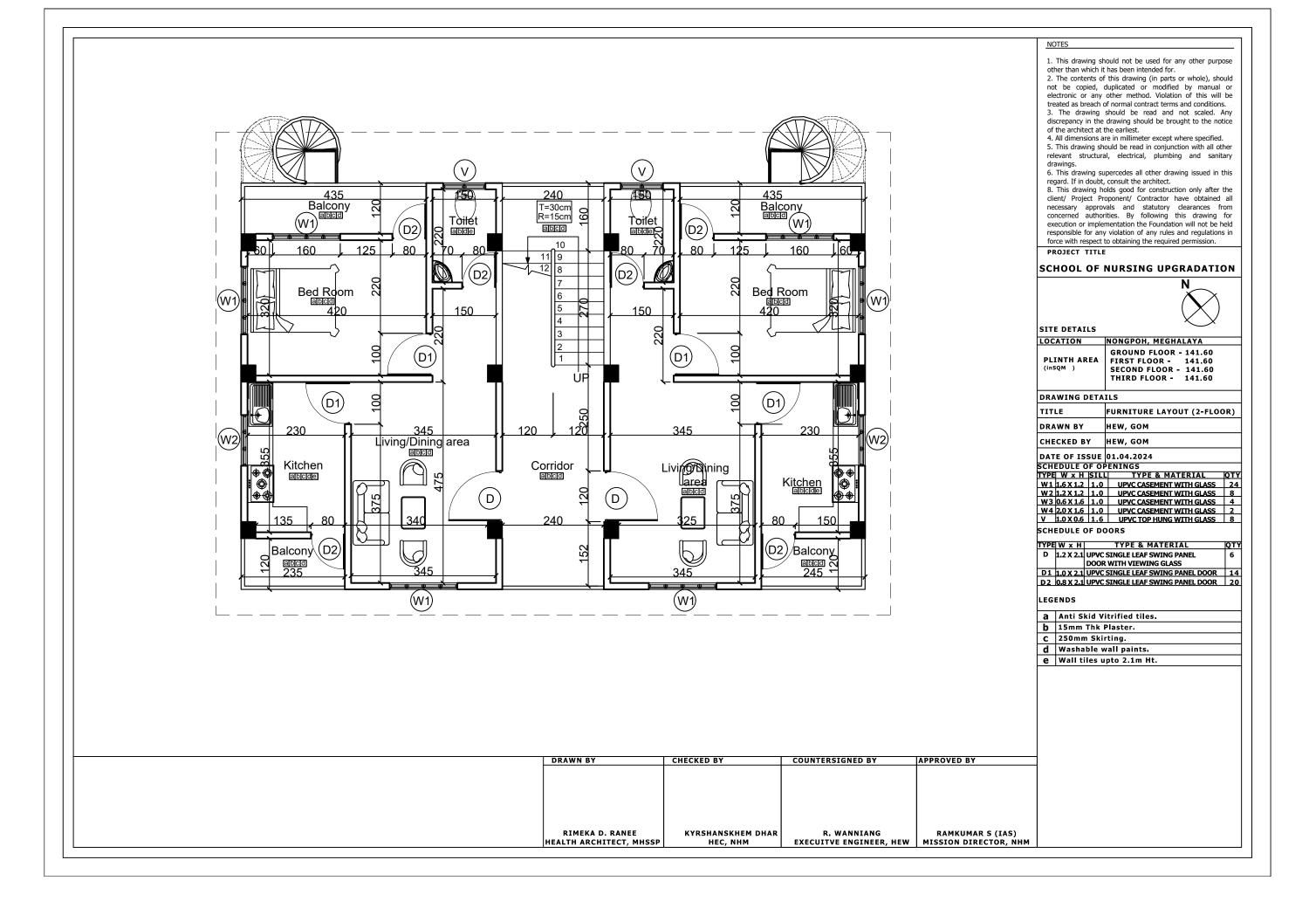


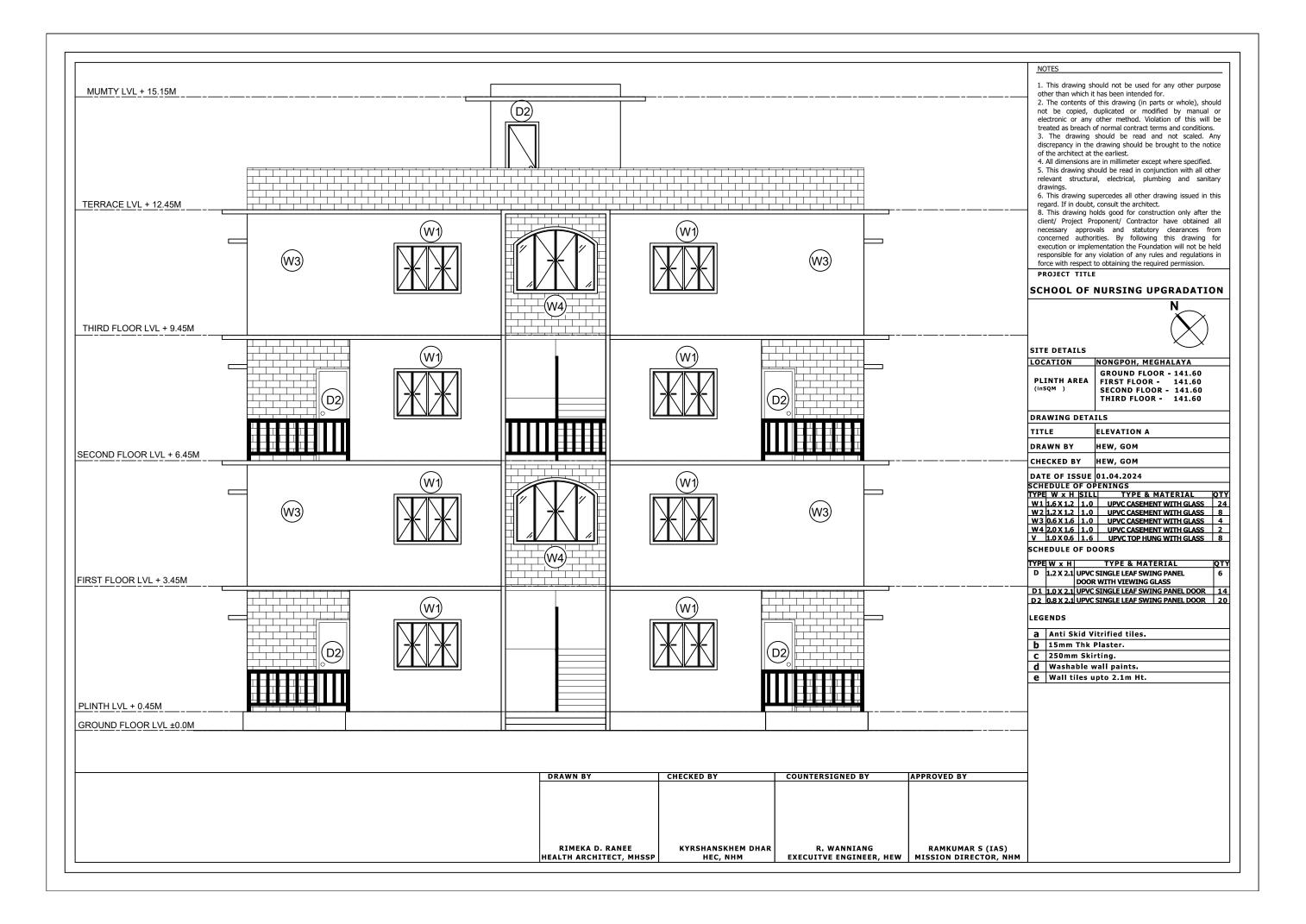


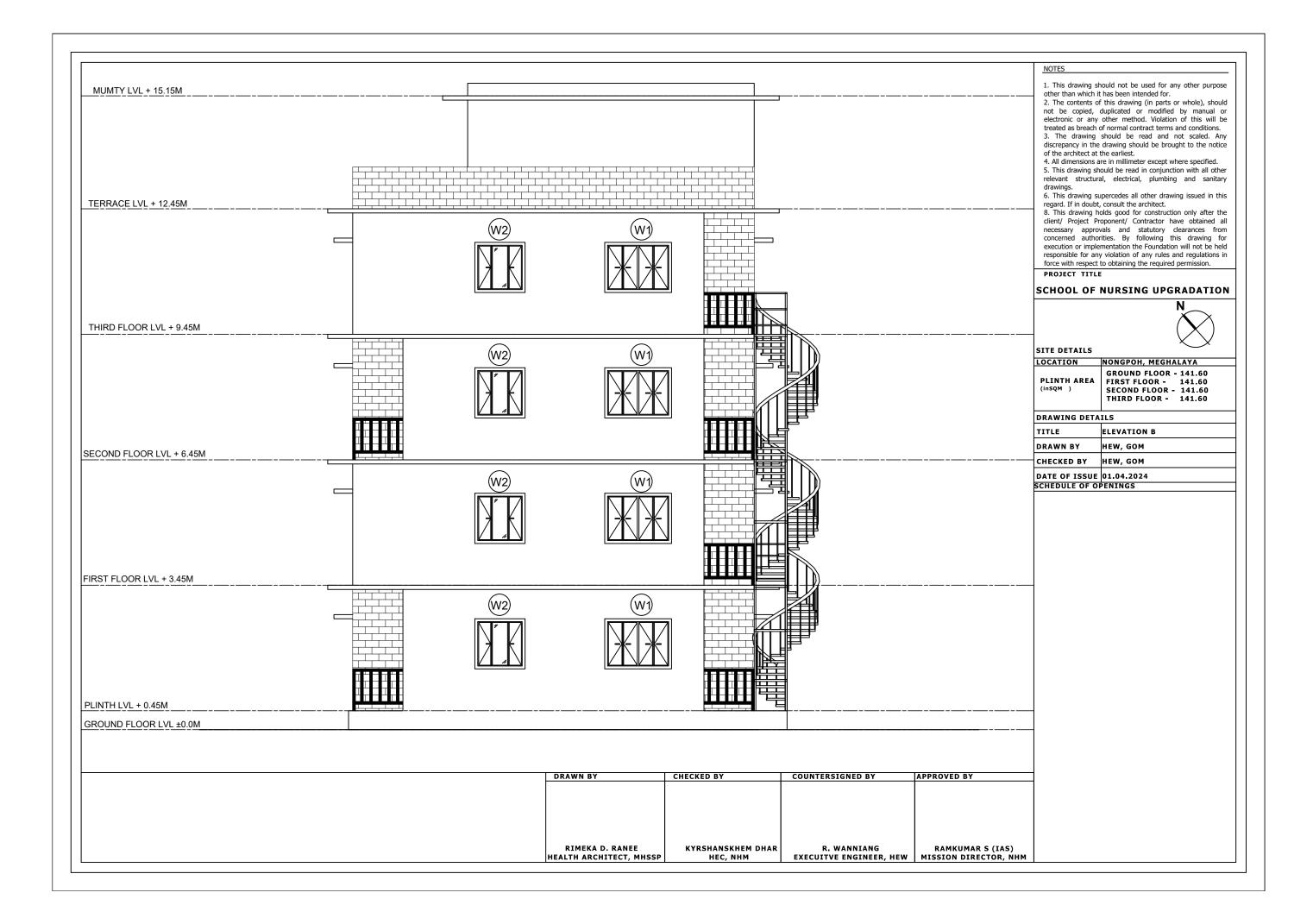


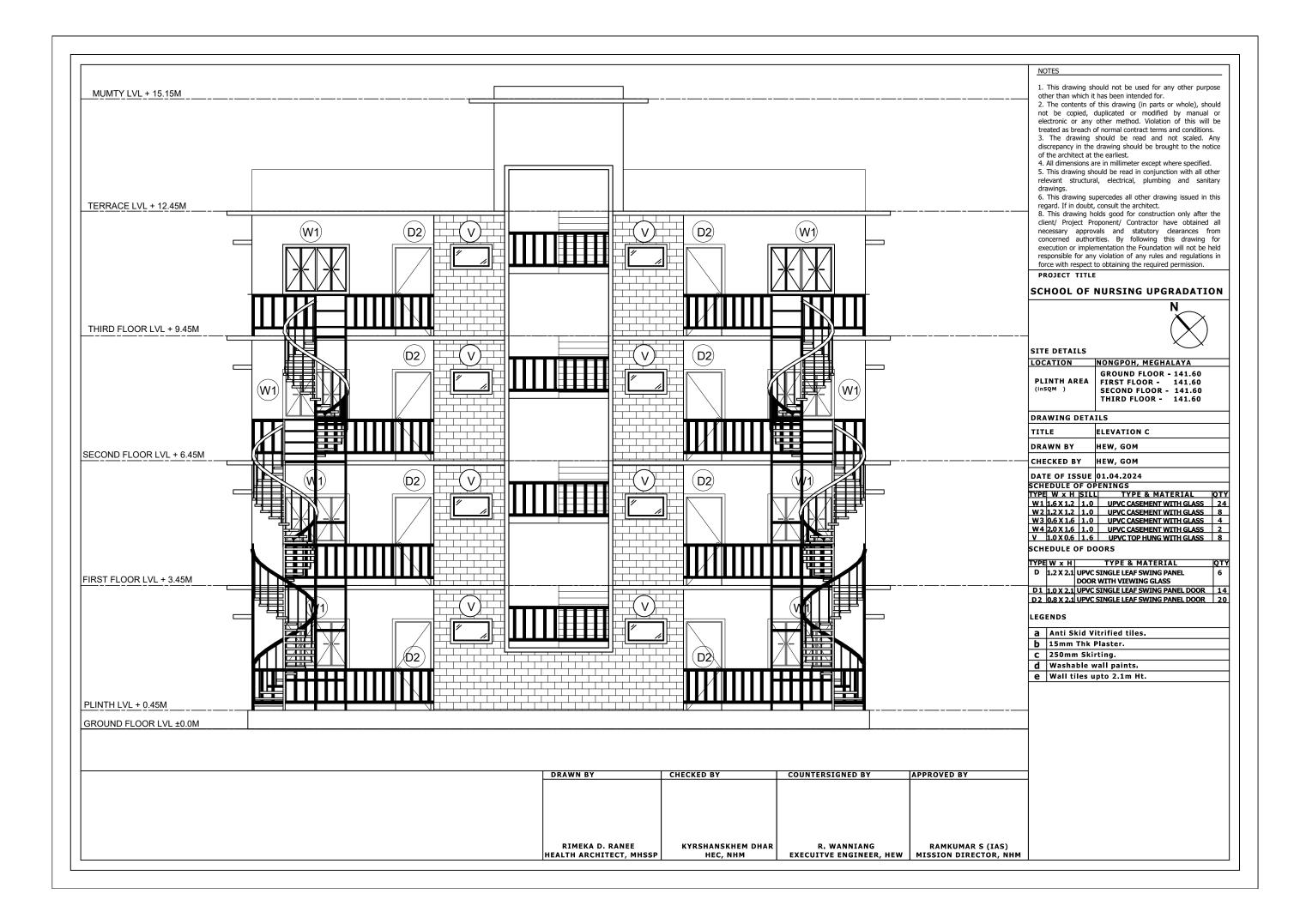


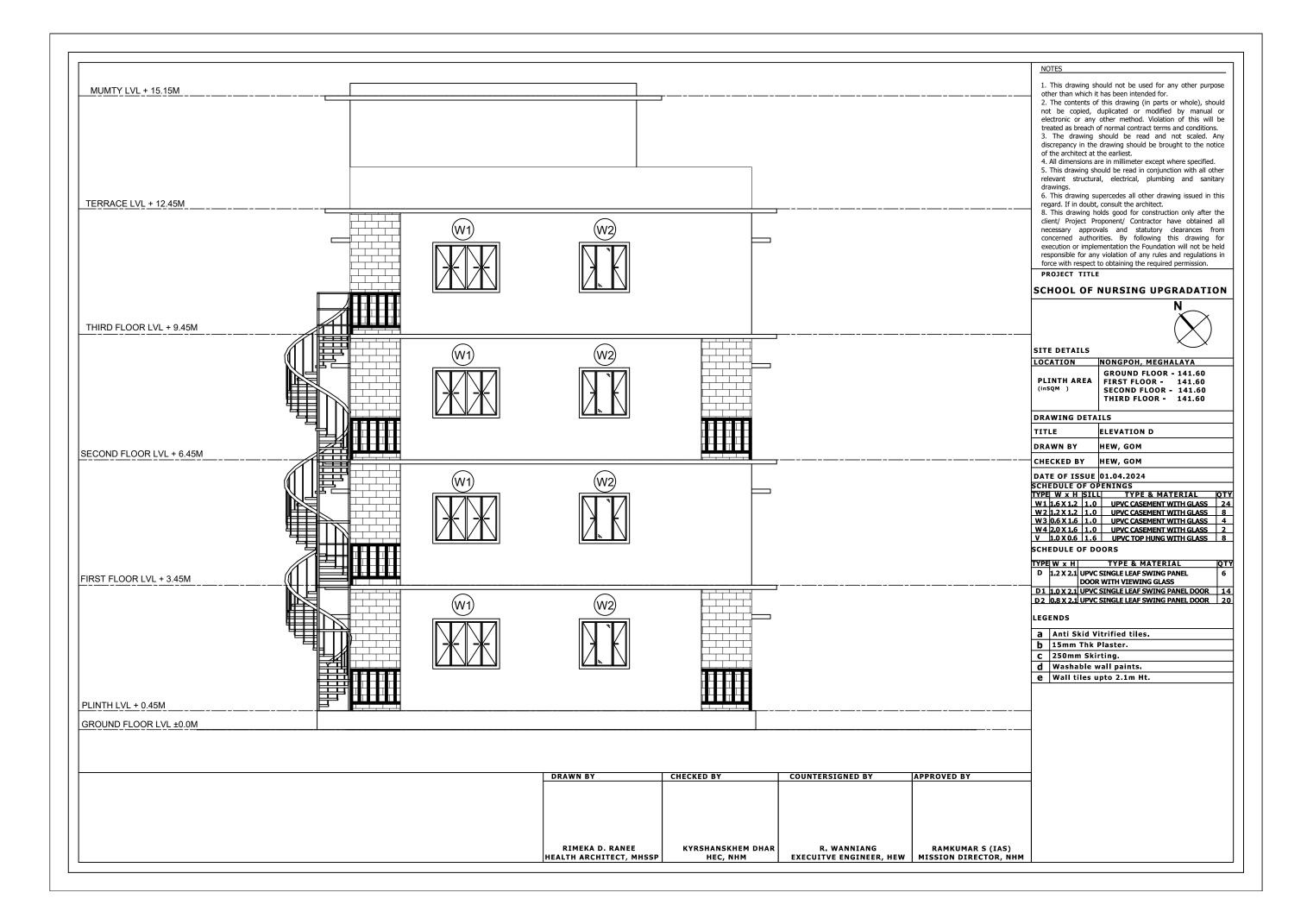


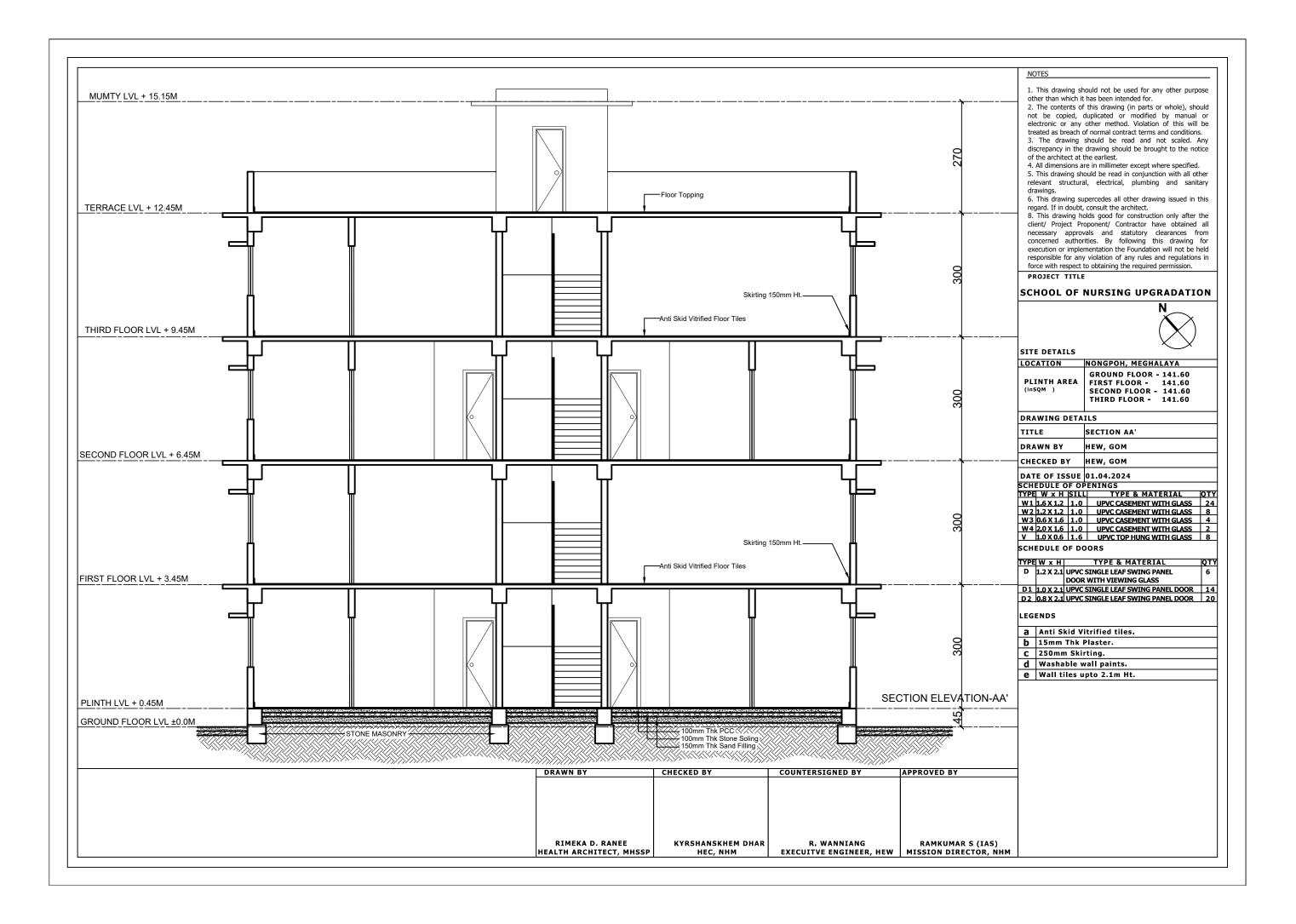


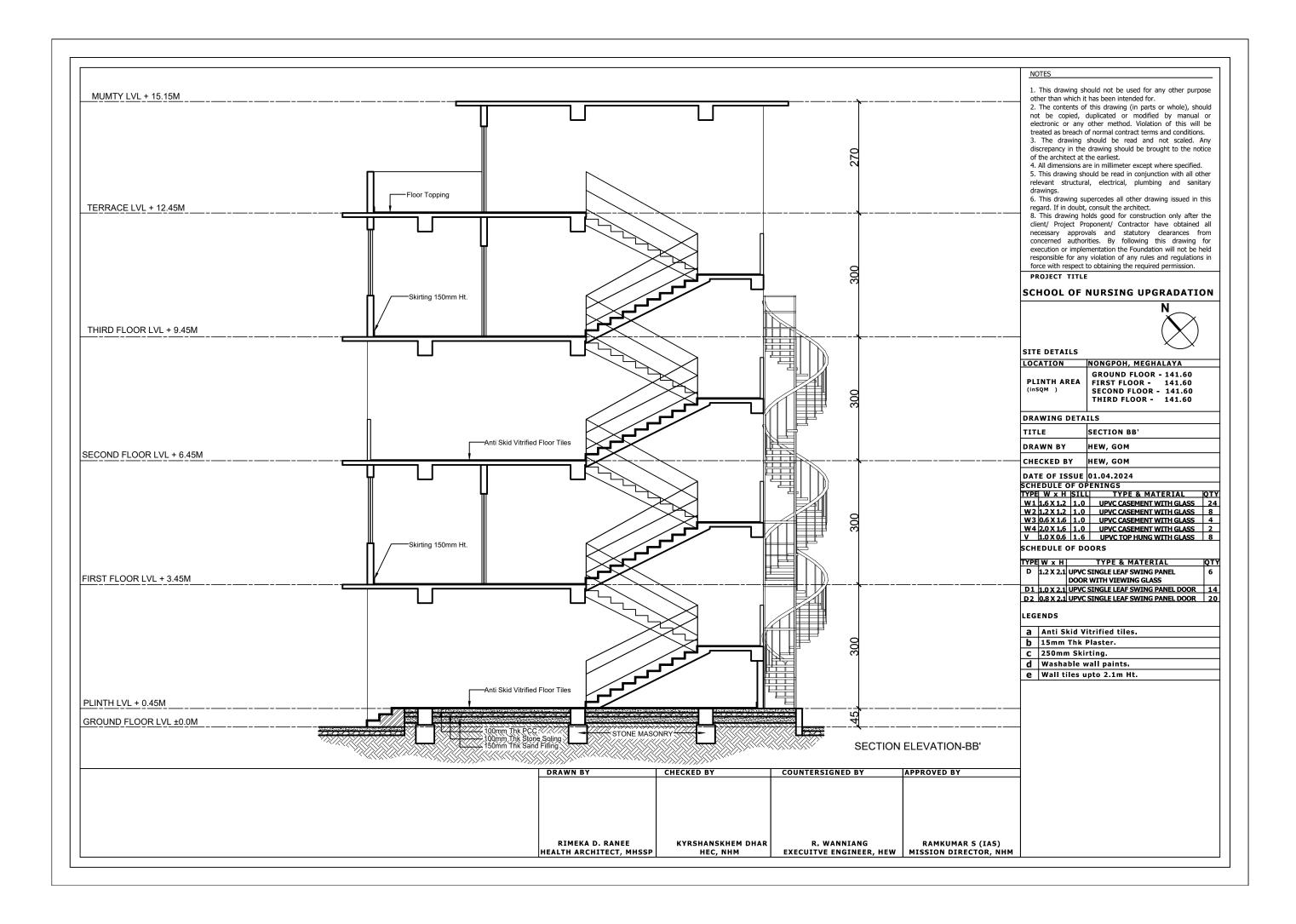


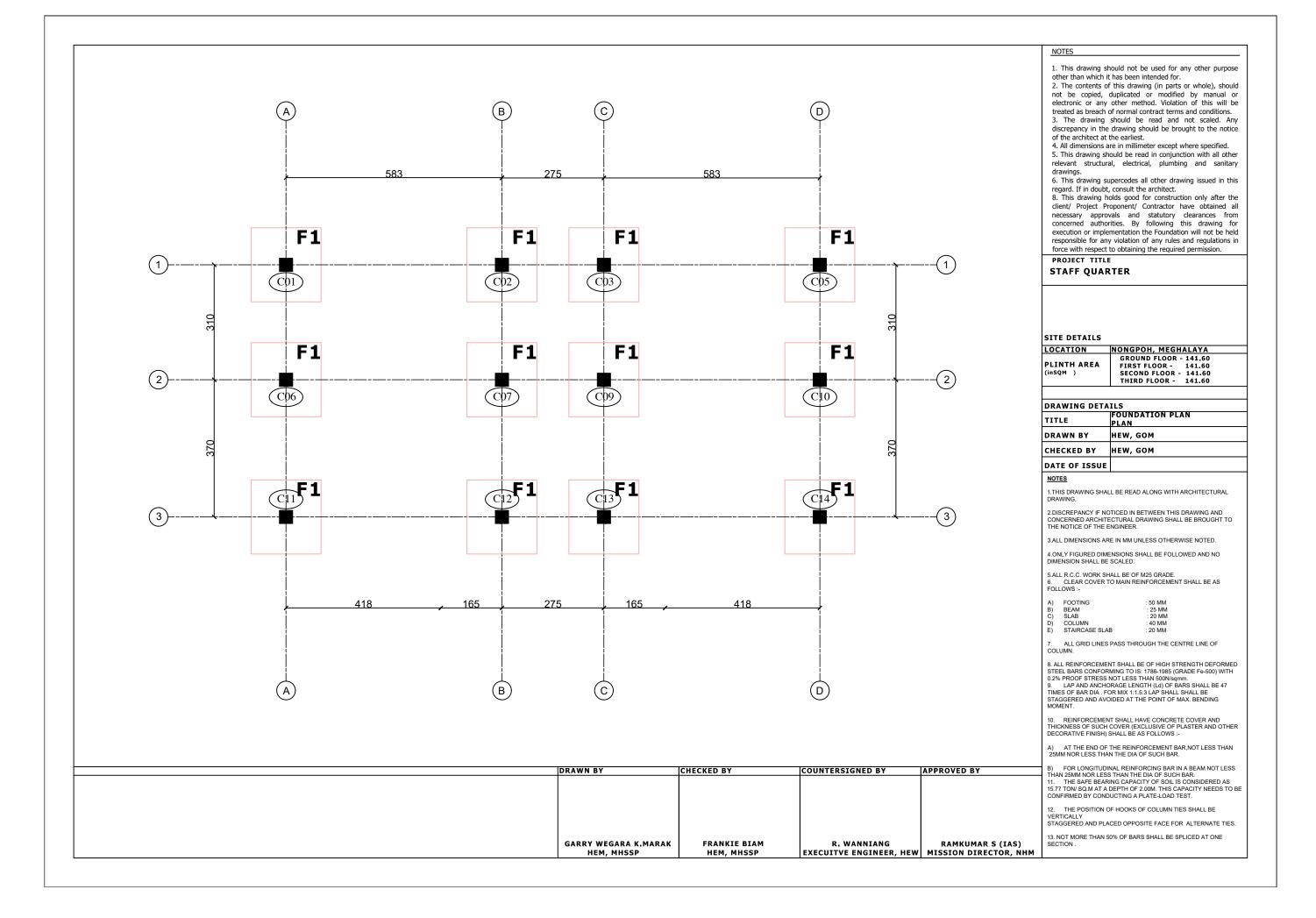


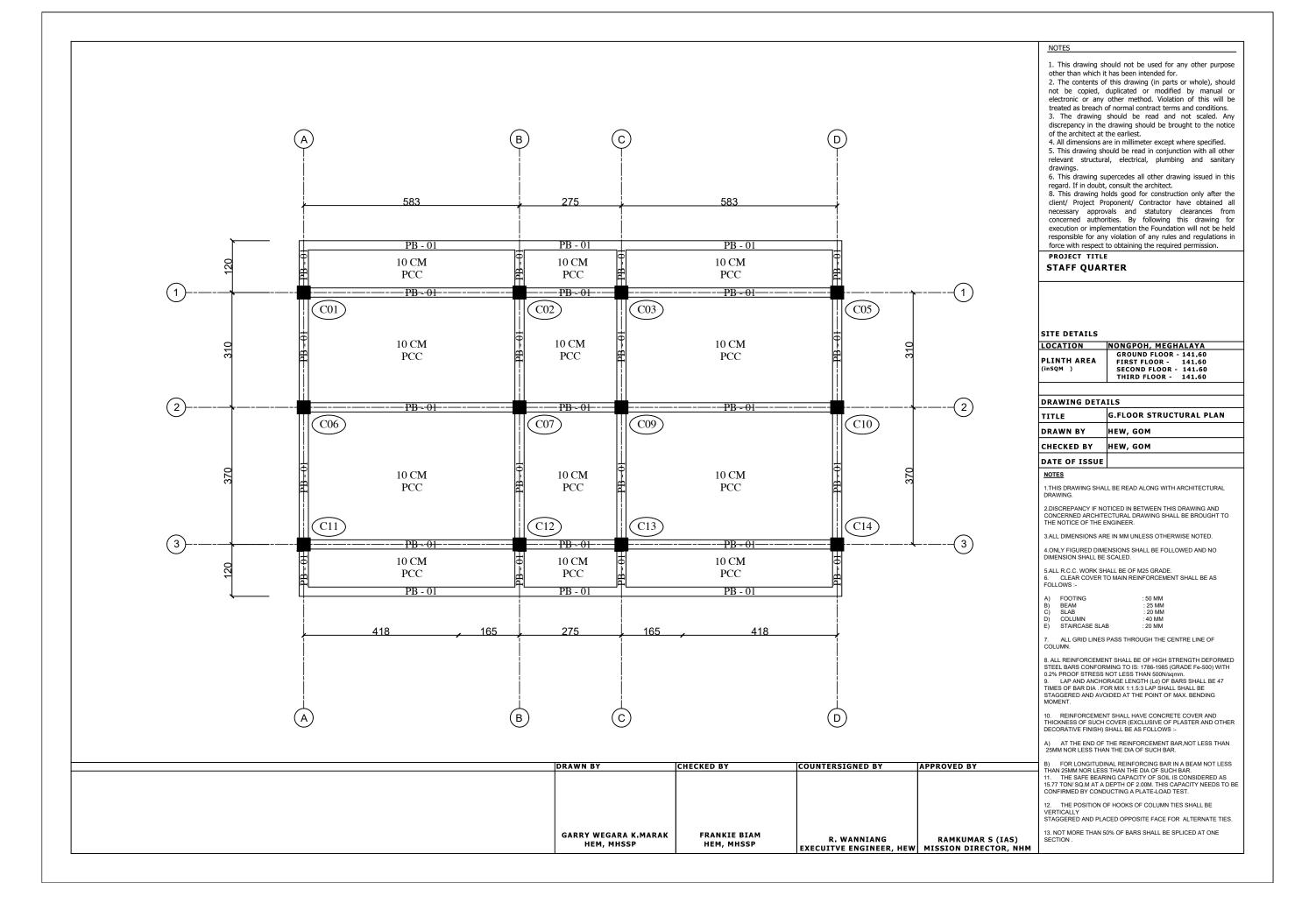


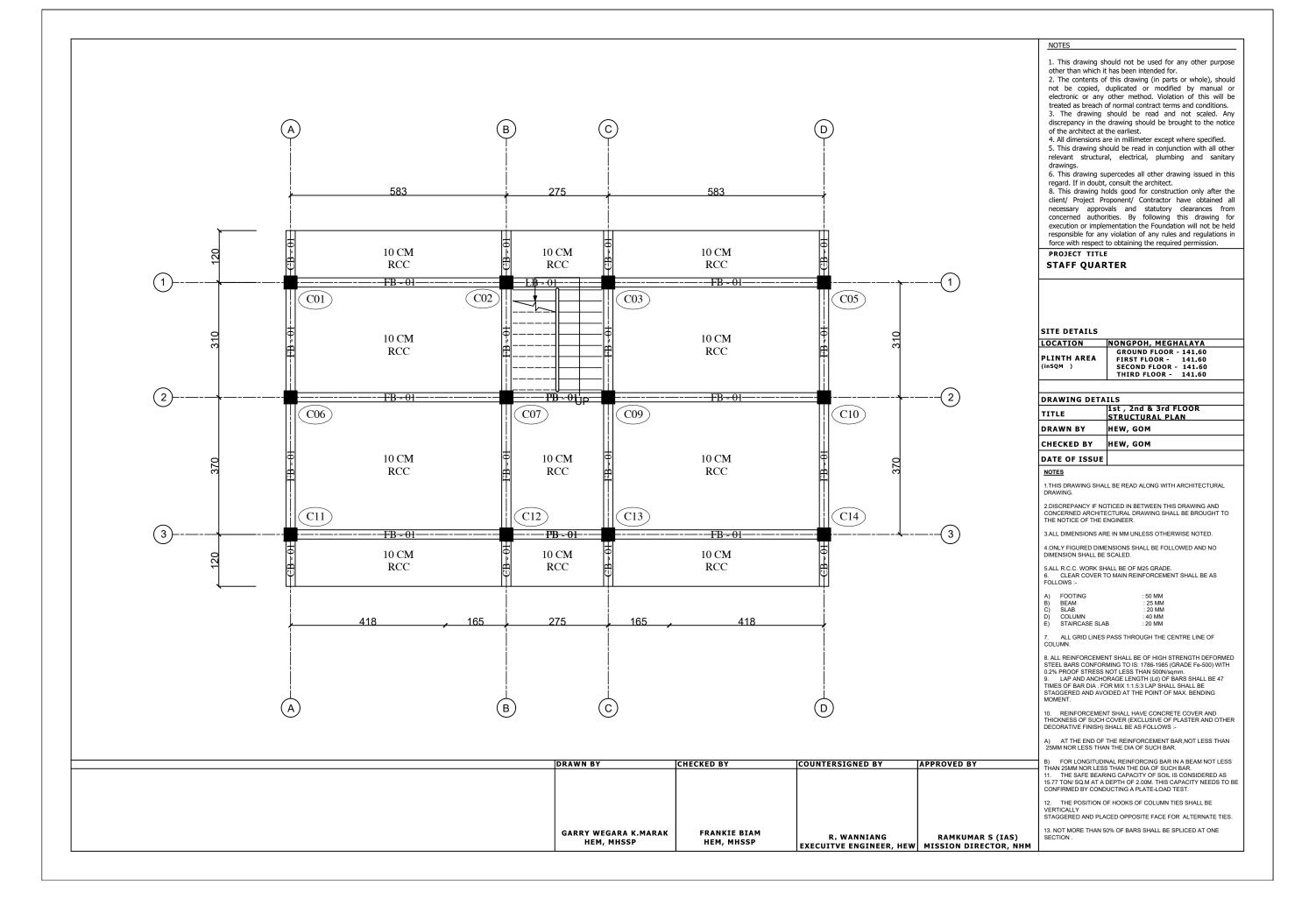






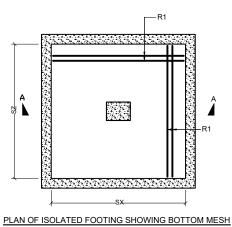


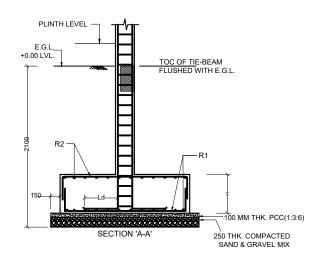




SCHEDULE OF COLUMN REINFORCEMENT UPTO 2ND FLOOR

COLUMN SIZE	REINF. BAR	SIZE	COLUMN MKD.	SCHEDULE OF STIRRUP ARRANGEMENT
98	16 - 25 क 10 के TIE		C01, C02, C03, C4, C5, C06, C07, C8,C9 C10, C11, C12	ONE TIE & FIVE LINKS





DRAWN BY

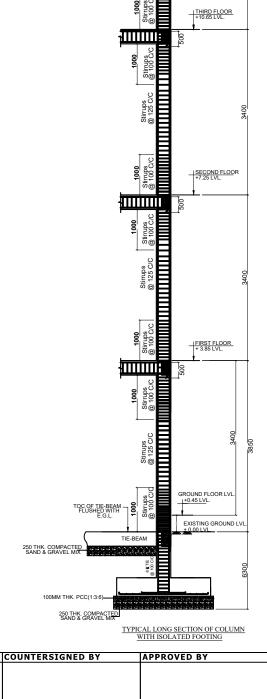
GARRY WEGARA K.MARAK

CHECKED BY

FRANKIE BIAM

ISOLATED FOOTING SCHEDULE

TYPE	SX	SZ	Н	R1 BOTTOM MESH	R2 TOP MESH
F1	1800	2000	450	16 ೩ @100 C/C	10 ℚ @1 50 C/C



R. WANNIANG RAMKUMAR S (IAS)
EXECUITVE ENGINEER, HEW MISSION DIRECTOR, NHM

NOTES

| TERRACE FLOOR & ROOF | +14.05 LVL.

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PROJECT TITLE

SCHOOL OF NURSING UPGRADATION

SITE DETAILS

LOCATION	NONGPOH, MEGHALAYA
	GROUND FLOOR - 141.60
PLINTH AREA	FIRST FLOOR - 141.60
(inSQM)	SECOND FLOOR - 141.60
	THIRD FLOOR - 141.60

DRAWING DETAILS

TITLE	FOOTING & COLUMNS DETAILS
DRAWN BY	HEW, GOM
CHECKED BY	HEW, GOM
DATE OF ISSUE	

NOTES

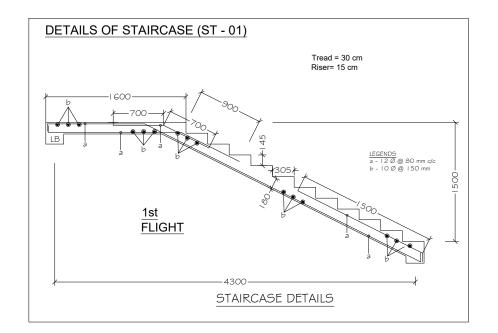
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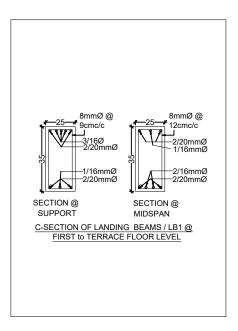
A)	FOOTING	: 50 MM
B)	BEAM	: 25 MM
C)	SLAB	: 20 MM
D)	COLUMN	: 40 MM
E)	STAIRCASE SLAB	: 20 MM

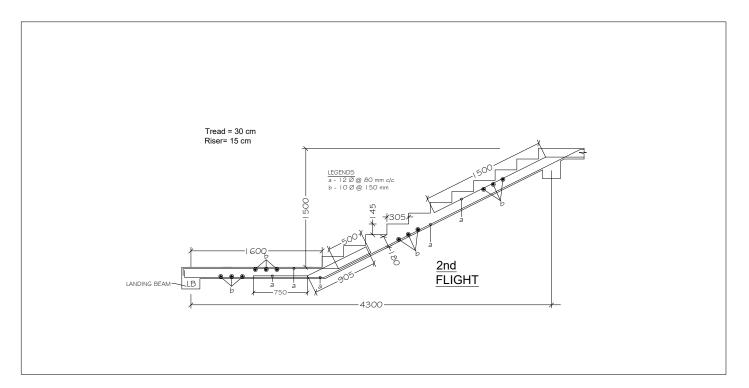
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- TIMES OF BAR DIA . FOR MIX 1:1.5:3 LAP SHALL SHALL BE STAGGERED AND AVOIDED AT THE POINT OF MAX. BENDING
- 10. REINFORCEMENT SHALL HAVE CONCRETE COVER AND THICKNESS OF SUCH COVER (EXCLUSIVE OF PLASTER AND OTHER DECORATIVE FINISH) SHALL BE AS FOLLOWS:-
- A) AT THE END OF THE REINFORCEMENT BAR,NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.
- B) FOR LONGITUDINAL REINFORCING BAR IN A BEAM NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

 11. THE SAFE BEARING CAPACITY OF SOIL IS CONSIDERED AS

 15.77 TON SQ.M AT A DEPTH OF 2.00M. THIS CAPACITY NEEDS TO BE CONFIRMED BY CONDUCTING A PLATE-LOAD TEST.
- 12. THE POSITION OF HOOKS OF COLUMN TIES SHALL BE VERTICALLY STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.
- 13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE







STAIRCASE -1

				2
DRAWN BY	CHECKED BY	COUNTERSIGNED BY	APPROVED BY	B)
				11 15 C
				12 VI S
GARRY WEGARA K.MARAK HEM, MHSSP		R. WANNIANG EXECUITVE ENGINEER, HEW	RAMKUMAR S (IAS) MISSION DIRECTOR, NHM	13 SE

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PROJECT TITLE

STAFF QUARTER



SITE DETAILS

LOCATION	NONGPOH, MEGHALAYA
	GROUND FLOOR - 141.60
PLINTH AREA	FIRST FLOOR - 141.60
(inSQM)	SECOND FLOOR - 141.60
	THIRD FLOOR - 141.60

DRAWING DETAILS

TITLE	STAIRCASE DETAILS
DRAWN BY	HEW, GOM
CHECKED BY	HEW, GOM
DATE OF ISSUE	

NOTES

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6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-

A) FOOTING B) BEAM C) SLAB : 25 MM : 20 MM D) COLUMN E) STAIRCASE SLAB : 40 MM : 20 MM

7. ALL GRID LINES PASS THROUGH THE CENTRE LINE OF COLUMN.

8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% PROOF STRESS NOT LESS THAN 500N/sqmm.

9. LAP AND ANCHORAGE LENORTH (Ld) OF BARS SHALL BE 47 TIMES OF BAR DIA. FOR MIX 1:1.5:3 LAP SHALL SHALL BE

STAGGERED AND AVOIDED AT THE POINT OF MAX. BENDING

10. REINFORCEMENT SHALL HAVE CONCRETE COVER AND THICKNESS OF SUCH COVER (EXCLUSIVE OF PLASTER AND OTHER DECORATIVE FINISH) SHALL BE AS FOLLOWS:-

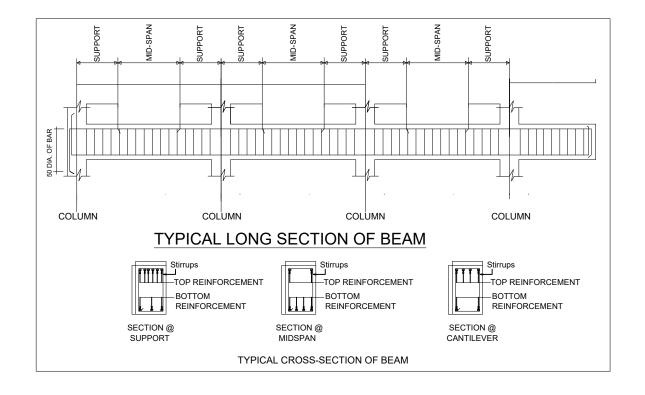
A) AT THE END OF THE REINFORCEMENT BAR, NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

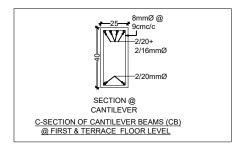
B) FOR LONGITUDINAL REINFORCING BAR IN A BEAM NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

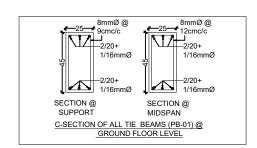
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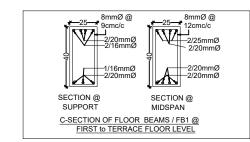
12. THE POSITION OF HOOKS OF COLUMN TIES SHALL BE STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.

13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE SECTION .









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PROJECT TITLE

STAFF QUARTER



SITE DETAILS

LOCATION	NONGPOH, MEGHALAYA
	GROUND FLOOR - 141.60
PLINTH AREA	FIRST FLOOR - 141.60
(inSQM)	SECOND FLOOR - 141.60
	THIRD FLOOR - 141.60

	DRAWING DETAILS		
		TYPICAL LONGSECTION OF BEAM BEAMS SECTION OF ALL FLOORS	
	DRAWN BY	HEW, GOM	
	CHECKED BY	HEW, GOM	

DATE OF ISSUE NOTES

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7. ALL GRID LINES PASS THROUGH THE CENTRE LINE OF

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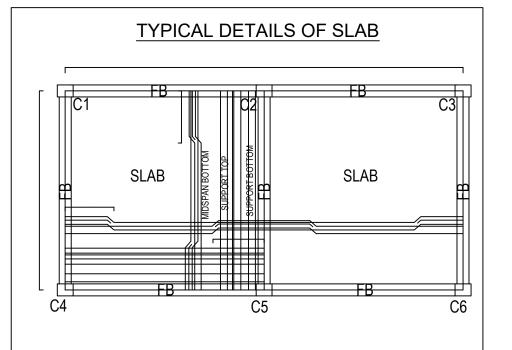
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THE POSITION OF HOOKS OF COLUMN TIES SHALL BE STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.

13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE SECTION .

DRAWN BY	CHECKED BY	COUNTERSIGNED BY	APPROVED BY
DRAWN DI	CHECKED BI	COOM LEKSTONED BY	AFFROVED DI
CARRY WECARA V MARAV	FRANKIE BIAM	R. WANNIANG	DAMKUMAD C (TAC)
GARRY WEGARA K.MARAK HEM, MHSSP	l HEM MUSES		RAMKUMAR S (IAS)
11211, 1111551	1	EXECUITVE ENGINEER, HEW	MISSION DIRECTOR, NHM



TYPICAL PLAN

At Midspan At Support

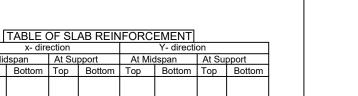
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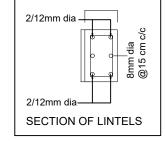
Slab

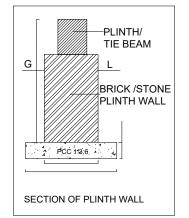
name



| 6 8 |

Top | Bottom | Top | Bottom SLAB OR DROP SLAB @ FIRST,SECOND & TERRACE FLOOR LEVEL 10 mm dia bar @ 24 cm c/c mm dia bar 12 cm c/c mm dia bar 12 cm c/c mm dia bar 24 cm c/c mm dia bar 12 cm c/c S 9 ш 12 Ē Ē 6 8 6 8 **₽ @ ⊝** ⊜ 5@ CANT SLAB OR CANT DROP SLAB @ FIRST, SECOND & TERRACE FLOOR LEVEL mm dia bar 24 cm c/c mm dia bar 12 cm c/c 10 mm dia bar @ 24 cm c/c mm dia bar 12 cm c/c 10 mm dia bar @ 24 cm c/c mm dia bar 12 cm c/c 10 mm dia bar @ 24 cm c/c 10 CM





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PROJECT TITLE

STAFF QUARTER



SITE DETAILS

LOCATION	NONGPOH, MEGHALAYA
	GROUND FLOOR - 141.60
PLINTH AREA	FIRST FLOOR - 141.60
(inSQM)	SECOND FLOOR - 141.60
	THIRD FLOOR - 141.60

DRAWING DETAILS

TITLE	PLINTH WALL& SLAB DETAILS
DRAWN BY	HEW, GOM
CHECKED BY	HEW, GOM
DATE OF ISSUE	

NOTES

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ALL GRID LINES PASS THROUGH THE CENTRE LINE OF

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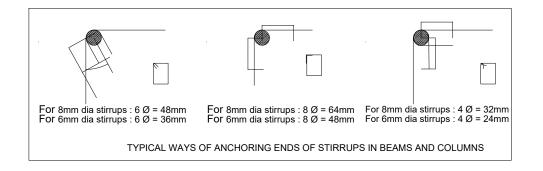
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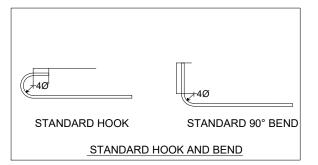
THE POSITION OF HOOKS OF COLUMN TIES SHALL BE VERTICALLY STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.

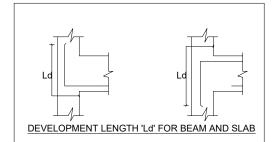
13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE SECTION

				-0.
DRAWN BY	CHECKED BY	COUNTERSIGNED BY	APPROVED BY	B) TH/
				11.
				15.7 CO
				12. VEF STA
GARRY WEGARA K.MARAK HEM, MHSSP	FRANKIE BIAM HEM, MHSSP	R. WANNIANG EXECUITVE ENGINEER, HEW	RAMKUMAR S (IAS) MISSION DIRECTOR, NHM	13. I SEC

6 @

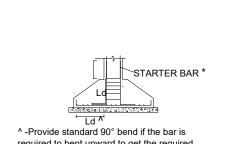






DEVELOPMENT LENGTH 'Ld' for Deformed Bars

Bar Diameter	'Ld' fo	or Grade of C (cm)	oncrete
(mm)	M15	M20	M25
6	33.8	28.2	24.2
8	45.1	37.6	32.2
10	56.4	47.0	40.3
12	67.7	56.4	48.4
16	90.3	75.2	64.5
20	112.8	94.0	80.6
25	141.0	117.5	100.7

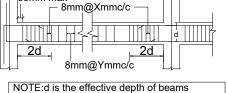


required to bent upward to get the required development length

* -Use of starter bars or continous bars

depends upon the distance between the ground floor level and the level of foundation

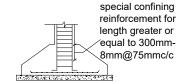
DEVELOPMENT LENGTH 'Ld' of COLUMN FOOTING



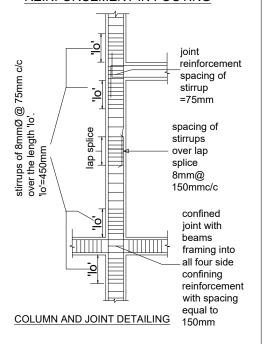
-50mm max

NOTE:X is variable and is as per detailing NOTE:y is variable and is as per detailing

BEAM REINFORCEMENT



PROVISION OF SPECIAL CONFINING REINFORCEMENT IN FOOTING



TYPICAL DRAWING AND DETAILS
SPACING OF REINFORCEMENT
FOR BEAMS, COLUMNS & FOOTING AS PER
IS 13920:1993

NOTES

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PROJECT TITLE

STAFF QUARTER



SITE DETAILS

	LOCATION	NONGPOH, MEGHALAYA
		GROUND FLOOR - 141.60
		FIRST FLOOR - 141.60
		SECOND FLOOR - 141.60
		THIRD FLOOR - 141.60

DRAWING DETAILS

TITLE	STRUCTURAL SPECIFICATION		
DRAWN BY	HEW, GOM		
CHECKED BY	неw, gom		
DATE OF ISSUE			

NOTES

1.THIS DRAWING SHALL BE READ ALONG WITH ARCHITECTURAL DRAWING.

2.DISCREPANCY IF NOTICED IN BETWEEN THIS DRAWING AND CONCERNED ARCHITECTURAL DRAWING SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER.

3.ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.

4.ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED AND NO DIMENSION SHALL BE SCALED.

5.ALL R.C.C. WORK SHALL BE OF M25 GRADE.
6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-

A) FOOTING :50 MM
B) BEAM :25 MM
C) SLAB :20 MM
D) COLUMN :40 MM
E) STAIRCASE SLAB :20 MM

7. ALL GRID LINES PASS THROUGH THE CENTRE LINE OF COLUMN.

8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% PROOF STRESS NOT LESS THAN 500N/sqmm.

9. LAP AND ANCHORAGE LENGTH (Ld) OF BARS SHALL BE 47

9. LAP AND ANCHORAGE LENGTH (Ld) OF BARS SHALL BE 4
TIMES OF BAR DIA . FOR MIX 1:1.5:3 LAP SHALL SHALL BE
STAGGERED AND AVOIDED AT THE POINT OF MAX. BENDING
MOMENT

10. REINFORCEMENT SHALL HAVE CONCRETE COVER AND THICKNESS OF SUCH COVER (EXCLUSIVE OF PLASTER AND OTHER DECORATIVE FINISH) SHALL BE AS FOLLOWS:-

A) AT THE END OF THE REINFORCEMENT BAR, NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

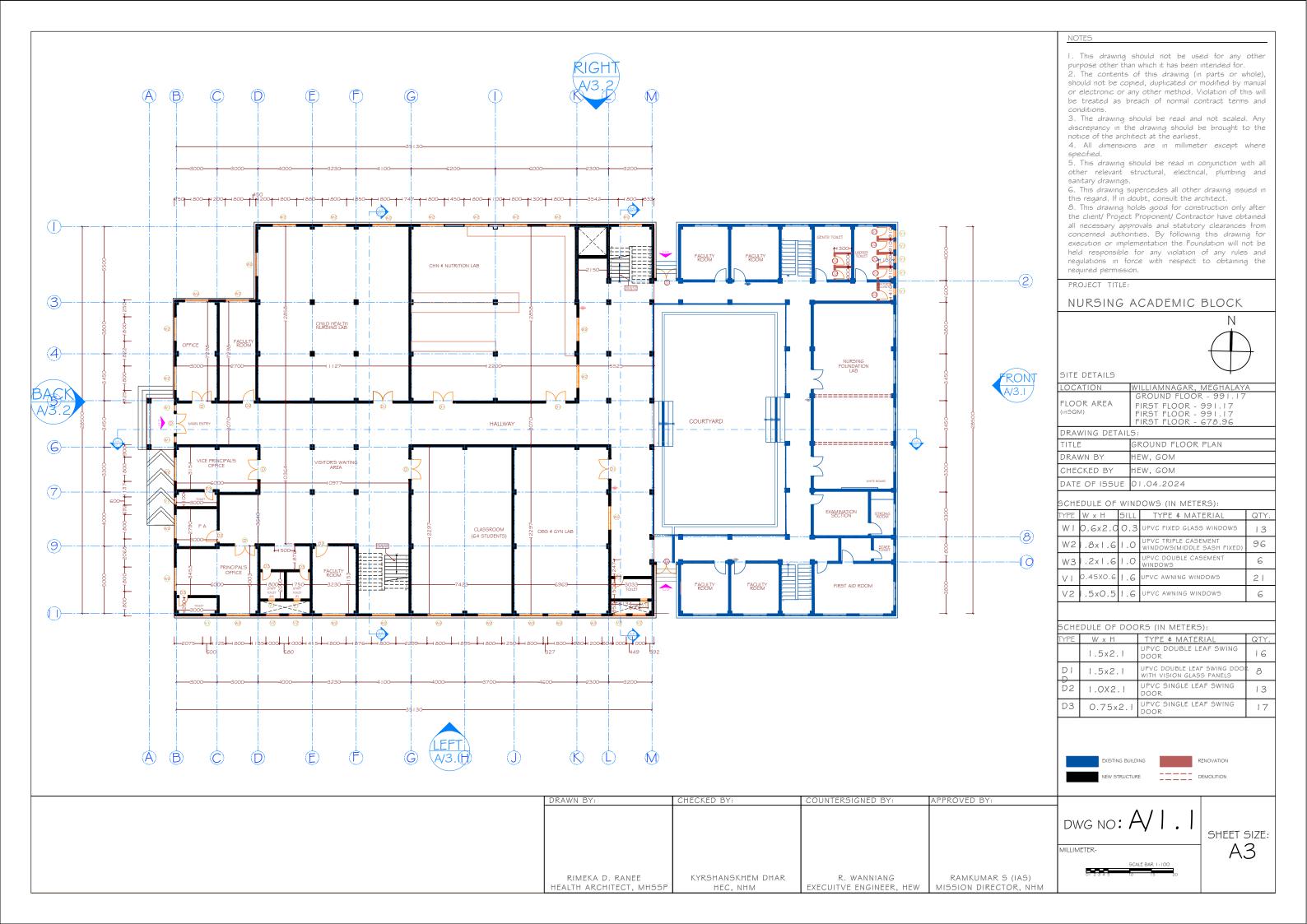
B) FOR LONGITUDINAL REINFORCING BAR IN A BEAM NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

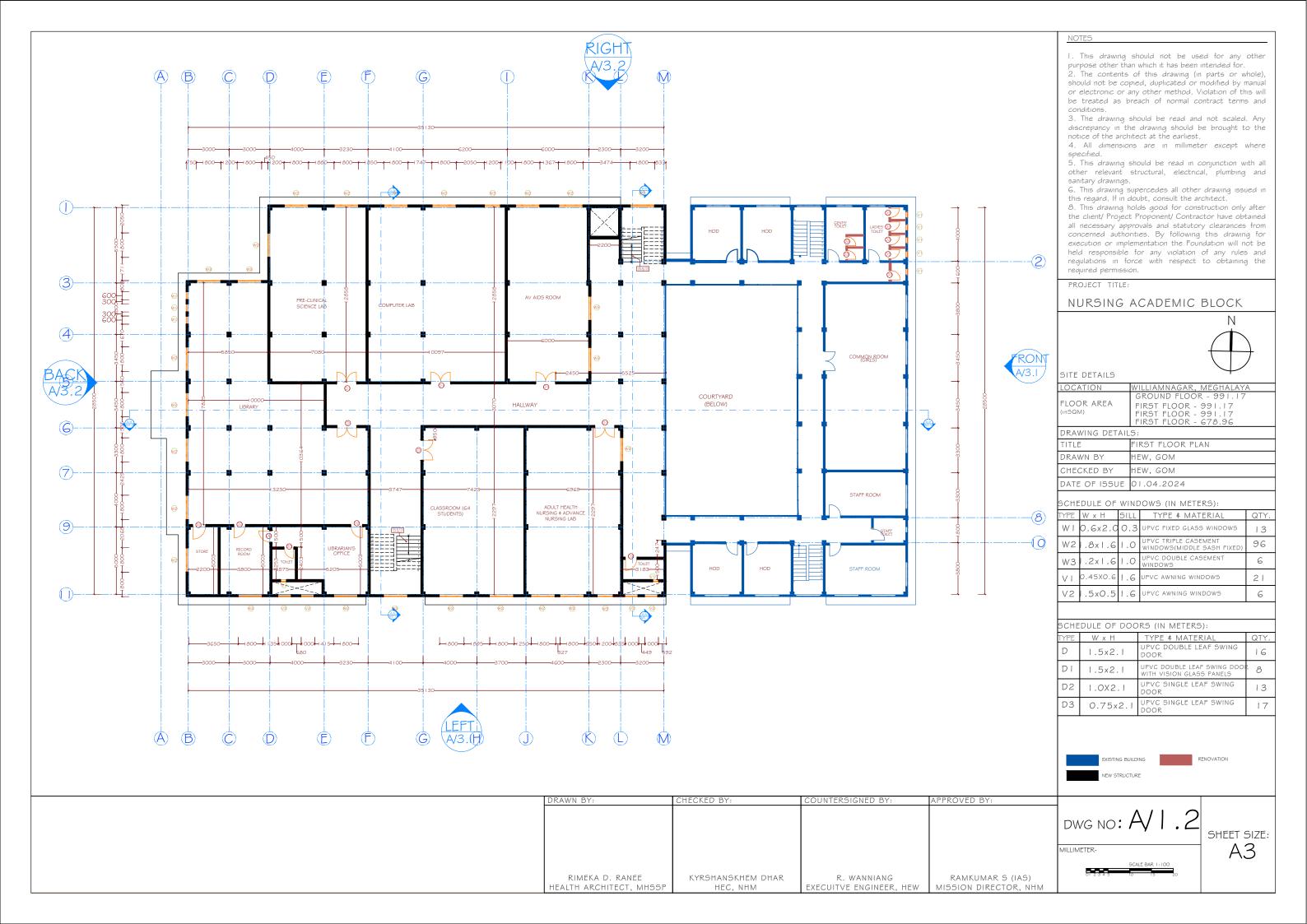
11. THE SAFE BEARING CAPACITY OF SOIL IS CONSIDERED AS 15.77 TON SQ.M AT A DEPTH OF 2.00M. THIS CAPACITY NEEDS TO BE CONFIRMED BY CONDUCTING A PLATE-LOAD TEST.

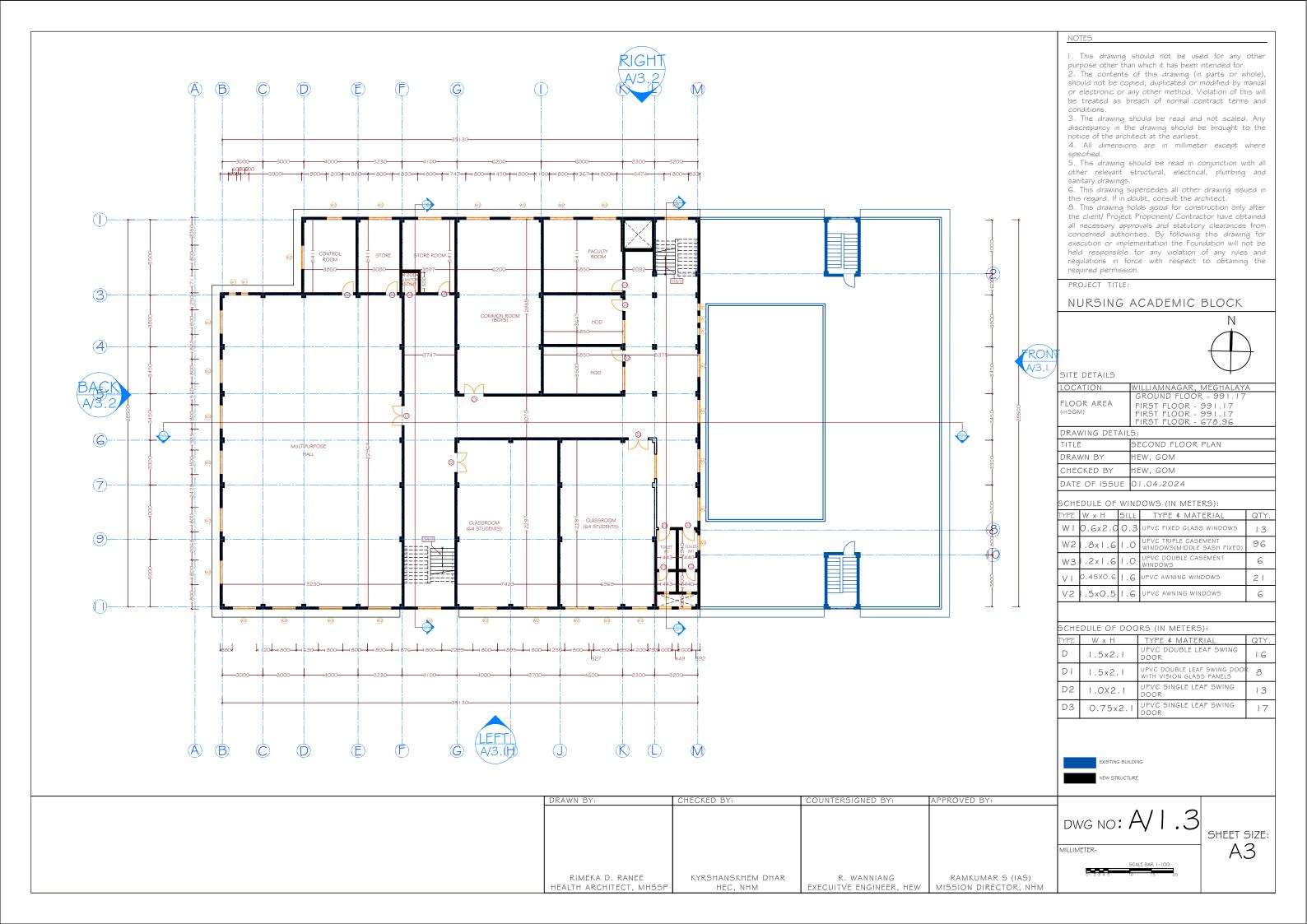
12. THE POSITION OF HOOKS OF COLUMN TIES SHALL BE VERTICALLY STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.

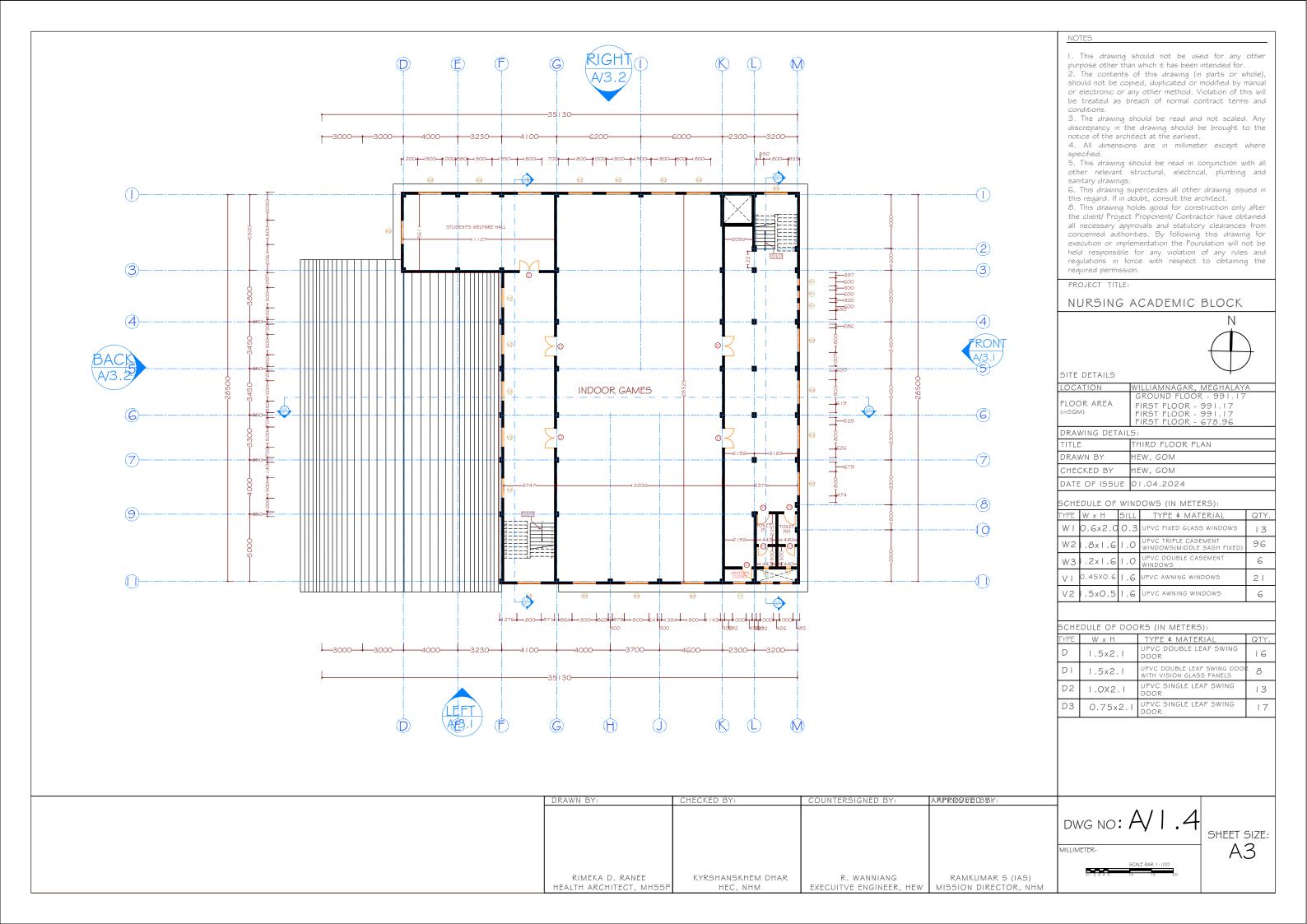
13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE SECTION .

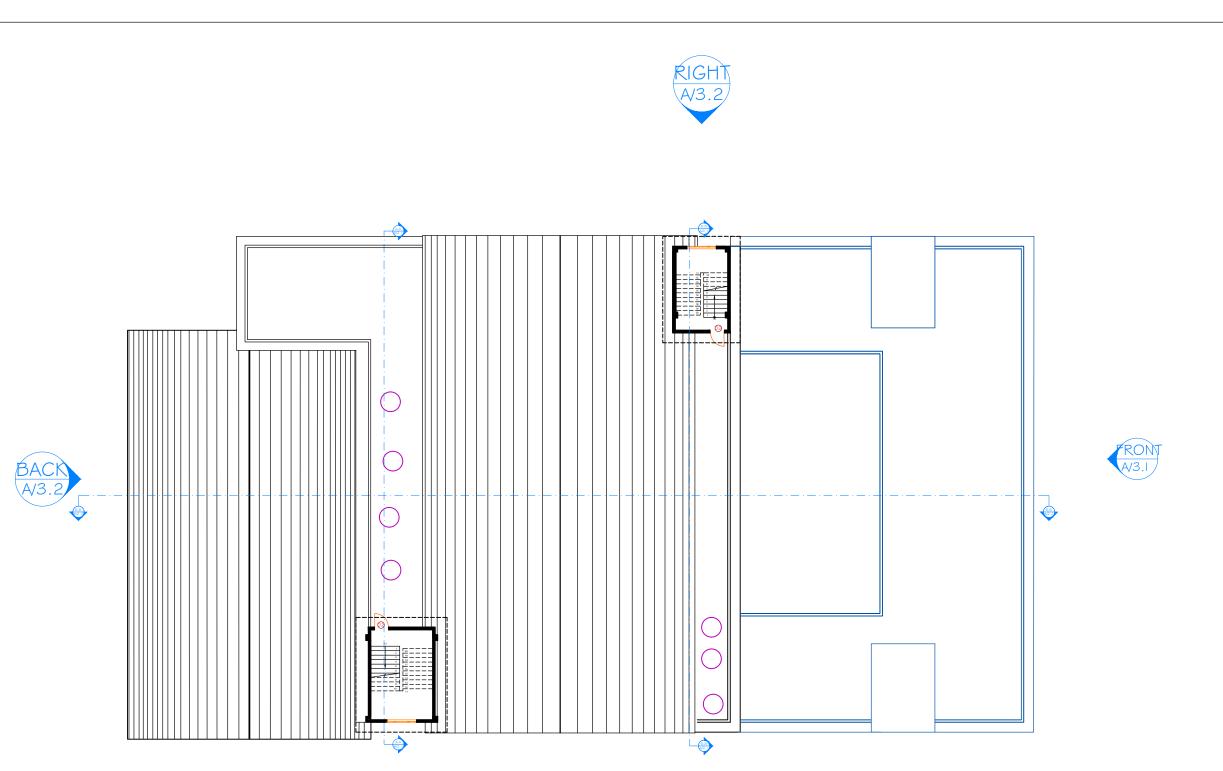
				1
DRAWN BY	CHECKED BY	COUNTERSIGNED BY	APPROVED BY	B
				1
				1:
				ľ
				1:
				s
				1
GARRY WEGARA K.MARAK	FRANKIE BIAM	R. WANNIANG	RAMKUMAR S (IAS)	s
HEM, MHSSP	HEM, MHSSP	EXECUITVE ENGINEER, HEW		













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PROJECT TITLE:

NURSING ACADEMIC BLOCK



SITE DETAILS

	LOCATION	WILLIAMNAGAR, MEGHALAYA
	5.000 .05.	GROUND FLOOR - 991.17
	FLOOR AREA	FIRST FLOOR - 991.17
(inSQM)	(in5QM)	FIRST FLOOR - 991.17
		FIRST FLOOR C78 OC

DRAWING DETAILS:		
TITLE	ROOF PLAN	
DRAWN BY	HEW, GOM	
CHECKED BY	HEW, GOM	
DATE OF ISSUE	01.04.2024	

SCHEDULE OF WINDOWS (IN METERS):

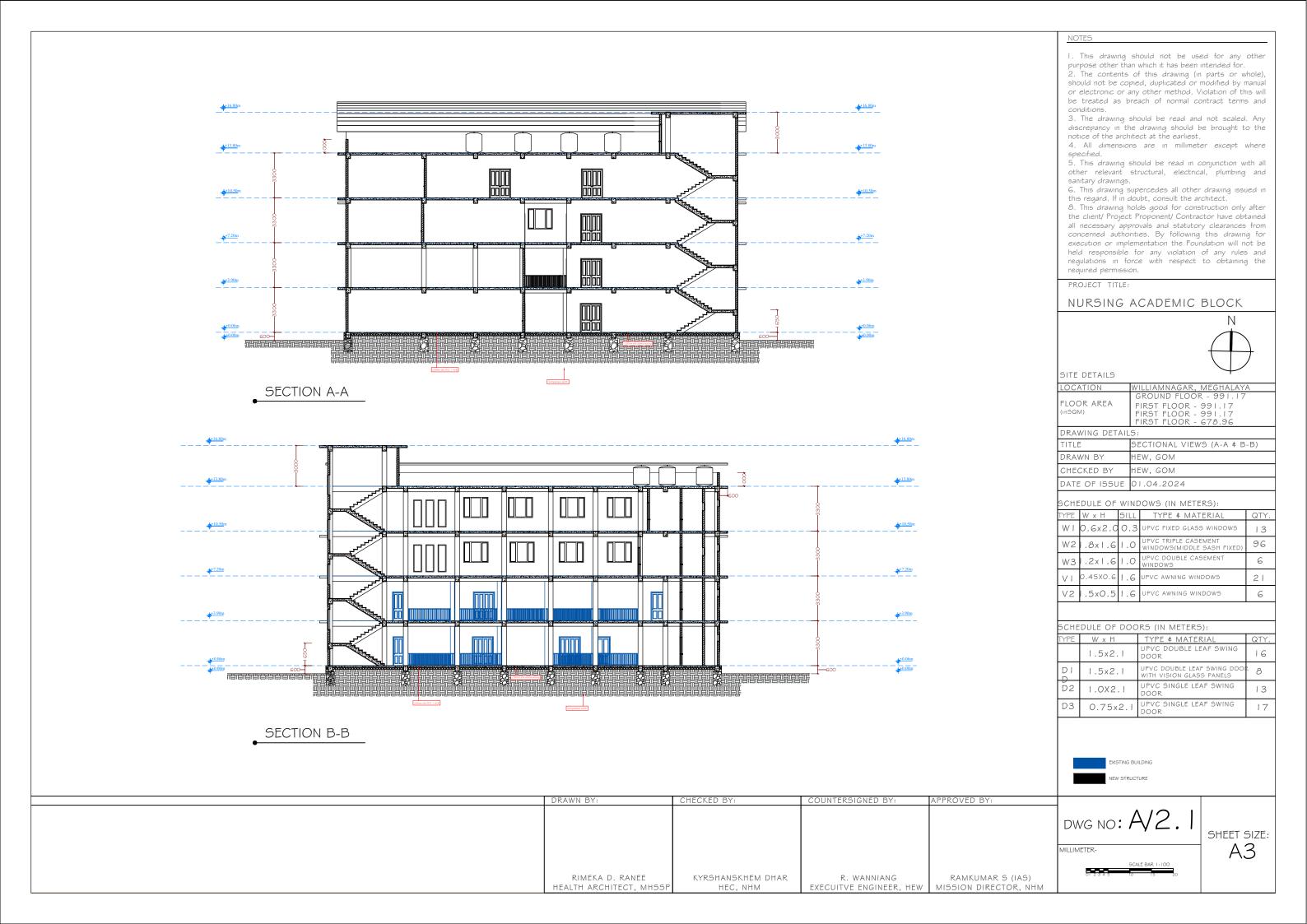
TYPE	W×H	SILL	TYPE & MATERIAL	QTY.
WI	0.6x2.0	0.3	UPVC FIXED GLASS WINDOWS	13
W2	1.8x1.6	1.0	UPVC TRIPLE CASEMENT WINDOWS(MIDDLE SASH FIXED)	96
W3	1.2x1.6	1.0	UPVC DOUBLE CASEMENT WINDOWS	6
VI	0.45X0.6	6	UPVC AWNING WINDOWS	21
V2	1.5x0.5	1.6	UPVC AWNING WINDOWS	9

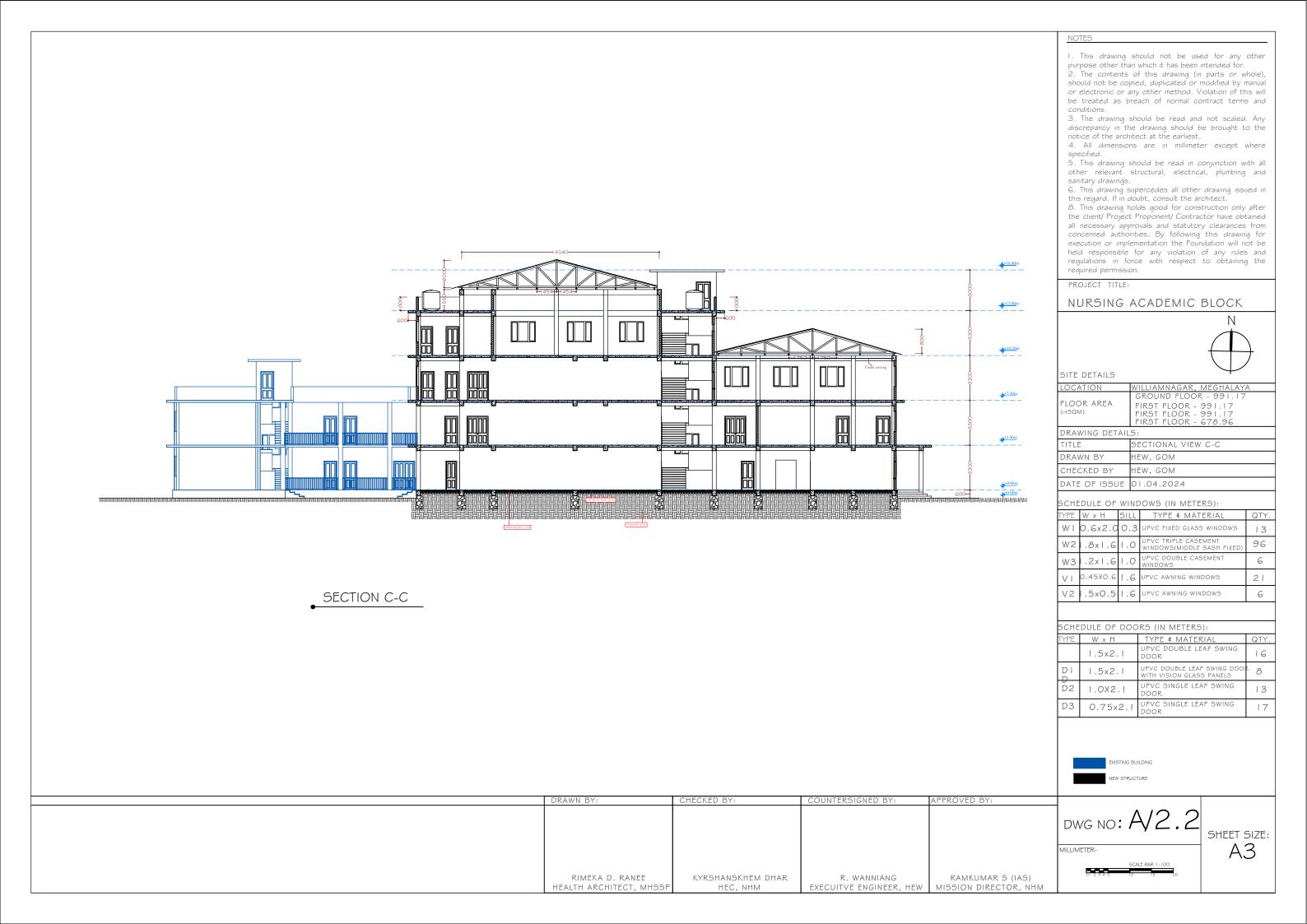
SCHEDULE OF DOORS (IN METERS):

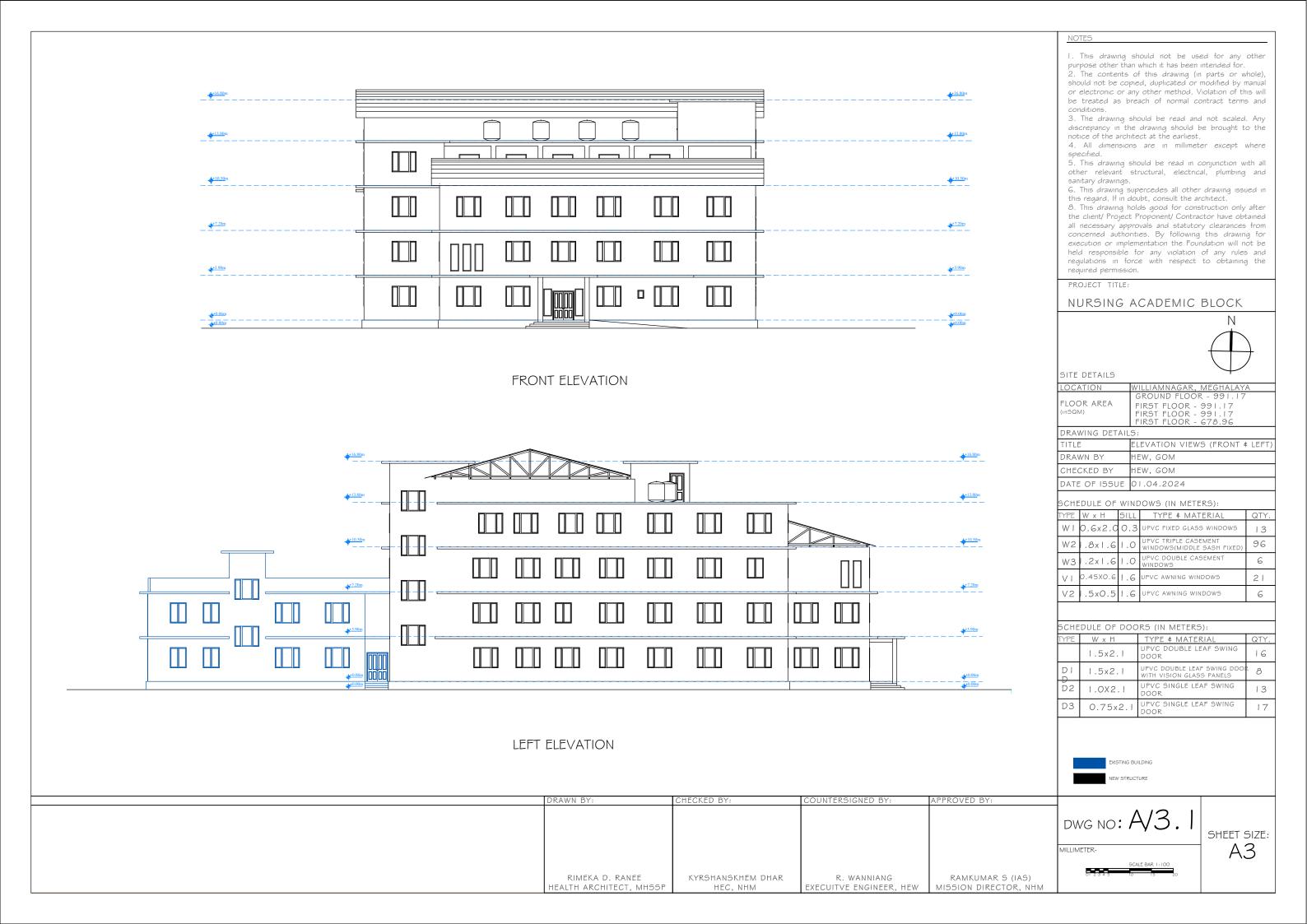
TYPE	W×H	TYPE # MATERIAL	QTY.
D	I.5x2.I	UPVC DOUBLE LEAF SWING DOOR	16
DI	1.5x2.1	UPVC DOUBLE LEAF SWING DOOR WITH VISION GLASS PANELS	8
D2	1.0X2.1	UPVC SINGLE LEAF SWING DOOR	13
D3	0.75x2.I	UPVC SINGLE LEAF SWING DOOR	17



DRAWN BY:	CHECKED BY:	COUNTERSIGNED BY:	APPROVED BY:		
				DWG NO: A/1.5	
				MILLIMETER-	A3
				5CALE BAR 1:100	
RIMEKA D. RANEE	KYRSHANSKHEM DHAR	R. WANNIANG	RAMKUMAR S (IAS)	0, 20, 3	
HEALTH ARCHITECT, MHSSP	HEC, NHM	EXECUITVE ENGINEER, HEW	MISSION DIRECTOR, NHM		

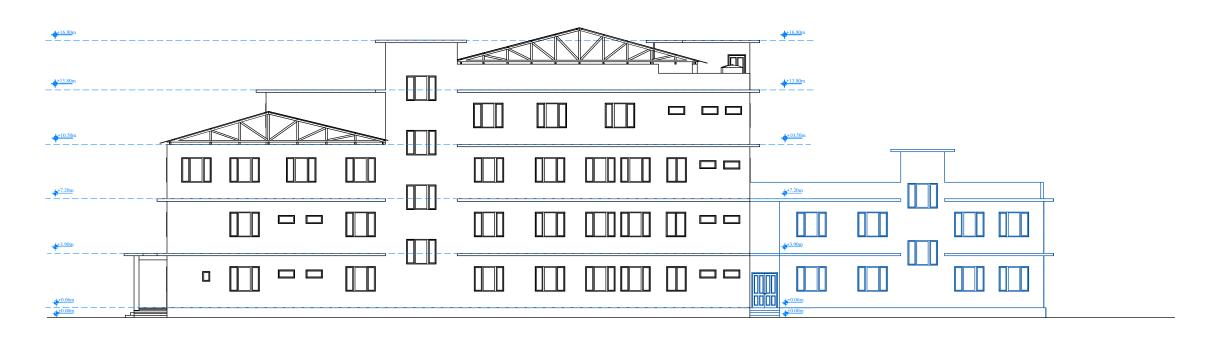








BACK ELEVATION



RIGHT ELEVATION

DRAWN BY:	CHECKED BY:	COUNTERSIGNED BY:	APPROVED BY:
RIMEKA D. RANEE	KYRSHANSKHEM DHAR	R. WANNIANG	RAMKUMAR S (IAS)
HEALTH ARCHITECT, MHSSP	HEC, NHM	EXECUITVE ENGINEER, HEW	MISSION DIRECTOR, NHM
-			

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PROJECT TITLE:

NURSING ACADEMIC BLOCK



SITE DETAILS

LOCATION	WILLIAMNAGAR, MEGHALAYA
	GROUND FLOOR - 991.17
FLOOR AREA	FIRST FLOOR - 991.17
(inSQM)	FIRST FLOOR - 991.17
	FIRST FLOOR - 678 96

DRAWING DETAILS:

TITLE	ELEVATION VIEWS (BACK # RIGHT)
DRAWN BY	HEW, GOM
CHECKED BY	HEW, GOM
DATE OF ISSUE	01.04.2024

SCHEDULE OF WINDOWS (IN METERS):

TYPE	PE WxH SILL		TYPE & MATERIAL	QTY.
WΙ	0.6x2.C	0.3	UPVC FIXED GLASS WINDOWS	13
W2	1.8x1.6	1.0	UPVC TRIPLE CASEMENT WINDOWS(MIDDLE SASH FIXED)	96
W3	1.2×1.6	1.0	UPVC DOUBLE CASEMENT WINDOWS	6
\vee	0.45X0.6	1.6	UPVC AWNING WINDOWS	21
V2	1.5x0.5	1.6	UPVC AWNING WINDOWS	6

SCHEDULE OF DOORS (IN METERS):

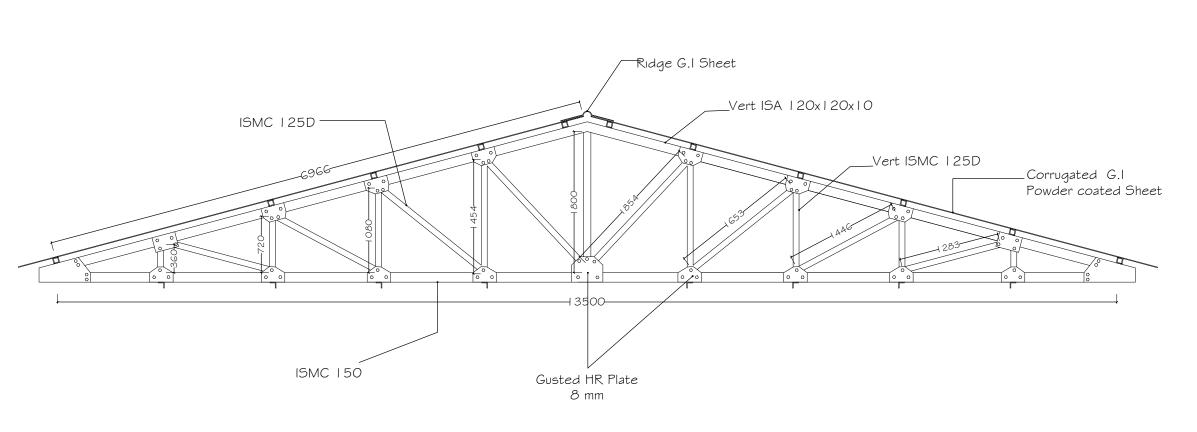
TYPE	W×H	TYPE # MATERIAL	QTY.
	1.5x2.1	UPVC DOUBLE LEAF SWING DOOR	-6
DI	1.5x2.1	UPVC DOUBLE LEAF SWING DOOR WITH VISION GLASS PANELS	8
D2	1.0X2.1	UPVC SINGLE LEAF SWING DOOR	13
D3	0.75x2.1	UPVC SINGLE LEAF SWING DOOR	17





SHEET SIZE:

SCALE BAR 1:100



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PROJECT TITLE:

NURSING ACADEMIC BLOCK



SITE DETAILS

LOCATION	WILLIAMNAGAR, MEGHALAYA
	GROUND FLOOR - 991.17
FLOOR AREA	FIRST FLOOR - 991.17 FIRST FLOOR - 991.17 FIRST FLOOR - 678.96
(inSQM)	FIRST FLOOR - 991.17
	FIRST FLOOR - 678.96

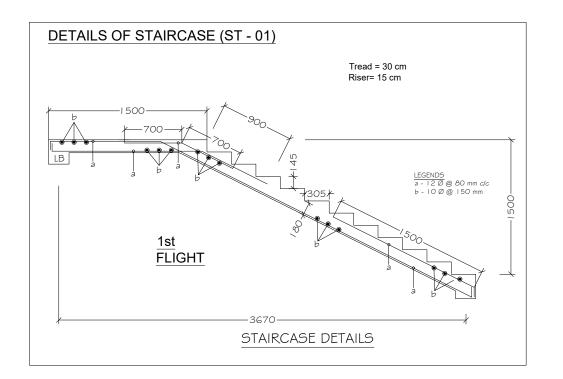
DRAWING DETAILS:

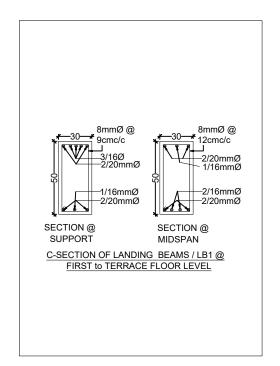
	DRAWING DETAILS.				
	TITLE	TRUSS DETAILS			
	DRAWN BY	HEW, GOM			
	CHECKED BY	HEW, GOM			
	DATE OF ISSUE	01.04.2024			

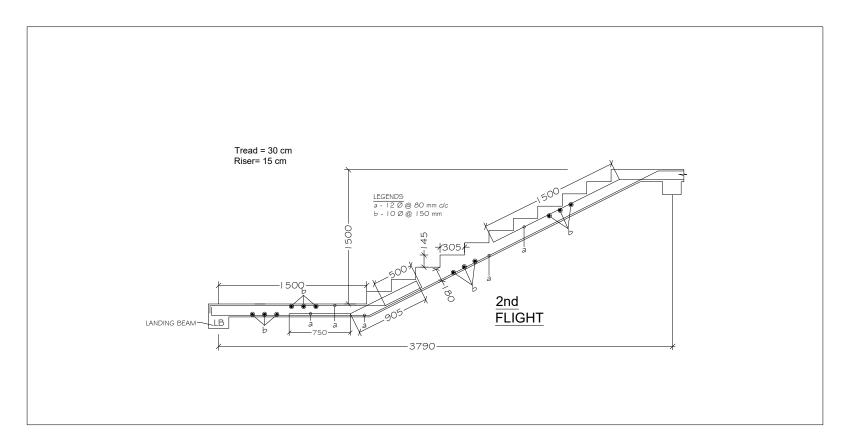
DRAWN BY: CHECKED BY: COUNTERSIGNED BY: APPROVED BY: BARTHOLOMEW .J FRANKIE BIAM R. WANNIANG RAMKUMAR S (IAS) HEM, MHSSP EXECUITVE ENGINEER, HEW MISSION DIRECTOR, NHM

DWG NO: 5/1.1 SHEET SIZE: А3

MILLIMETER-







STAIRCASE -1

				12. VFR1
DRAWN BY	CHECKED BY	COUNTERSIGNED BY	APPROVED BY	VERT STAC
				13. NO SECT
FRANKIE BIAM	KYRSHANSKHEM DHAR	R. WANNIANG	RAMKUMAR S (IAS)	
HEM, MHSSP	HEC, NHM	EXECUITVE ENGINEER, HEW	MISSION DIRECTOR, NHM	

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PROJECT TITLE SCHOOL OF NURSING UPGRADATION



SITE DETAILS LOCATION WILLIAMNAGAR, MEGHALAYA

DRAWING DETAILS	
TITLE	STAIRCASE DETAILS
DRAWN BY	HEW, GOM
CHECKED BY	неш, дом
DATE OF ISSUE	

NOTES

1.THIS DRAWING SHALL BE READ ALONG WITH ARCHITECTURAL

2.DISCREPANCY IF NOTICED IN BETWEEN THIS DRAWING AND CONCERNED ARCHITECTURAL DRAWING SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER.

3.ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.

4.ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED AND NO DIMENSION SHALL BE SCALED.

5.ALL R.C.C. WORK SHALL BE OF M25 GRADE.
6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-

A) FOOTING
B) BEAM
C) SLAB
D) COLUMN
E) STAIRCASE SLAB : 25 MM : 20 MM : 20 MM

7. ALL GRID LINES PASS THROUGH THE CENTRE LINE OF COLUMN.

8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% PROOF STRESS NOT LESS THAN 500M/sgmm.

9. LAP AND ANCHORAGE LENGTH (LG) OF BARS SHALL BE 47 TIMES OF BAR DIA . FOR MIX 1:1.5:3 LAP SHALL SHALL BE

STAGGERED AND AVOIDED AT THE POINT OF MAX. BENDING

10. REINFORCEMENT SHALL HAVE CONCRETE COVER AND THICKNESS OF SUCH COVER (EXCLUSIVE OF PLASTER AND OTHER DECORATIVE FINISH) SHALL BE AS FOLLOWS:-

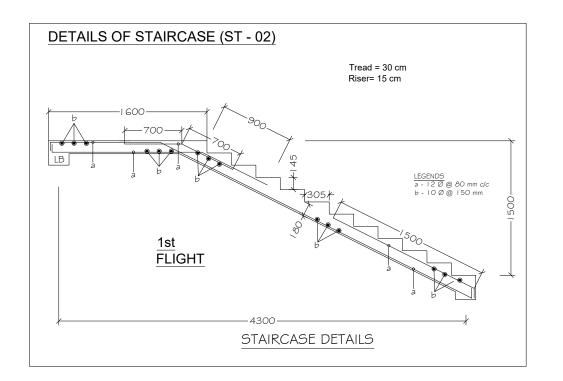
A) AT THE END OF THE REINFORCEMENT BAR, NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

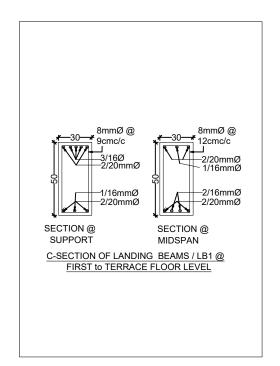
B) FOR LONGITUDINAL REINFORCING BAR IN A BEAM NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

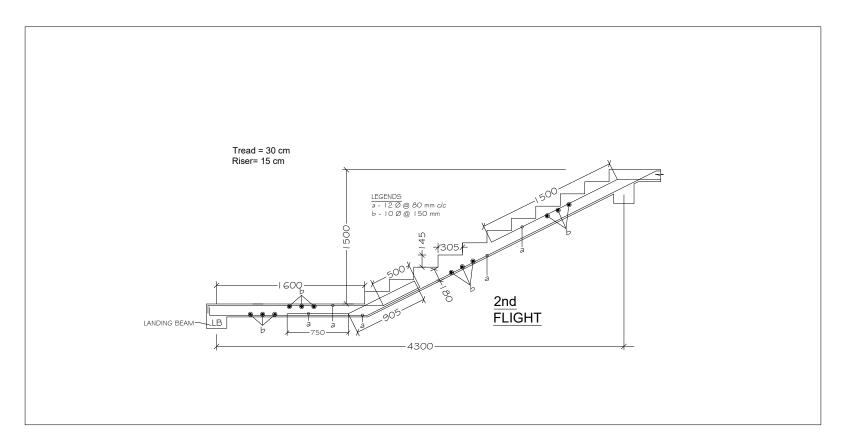
11. THE SAFE BEARING CAPACITY OF SOIL IS CONSIDERED AS 15.77 TON! SOM AT A DEPTH OF 2.00M. THIS CAPACITY NEEDS TO BE CONFIRMED BY CONDUCTING A PLATE-LOAD TEST.

12. THE POSITION OF HOOKS OF COLUMN TIES SHALL BE VERTICALLY STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.

13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE SECTION .







STAIRCASE -2

					12. VERTI
Į į	DRAWN BY	CHECKED BY	COUNTERSIGNED BY	APPROVED BY	STAG
					13. NO SECTI
					1
					1
	FRANKIE BIAM	KYRSHANSKHEM DHAR	R. WANNIANG	RAMKUMAR S (IAS)	l
	HEM, MHSSP	HEC, NHM	EXECUITVE ENGINEER, HEW	MISSION DIRECTOR, NHM	1

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PROJECT TITLE SCHOOL OF NURSING UPGRADATION



STIL DETAILS	
LOCATION	WILLIAMNAGAR, MEGHALAYA

DRAWING DETAILS						
TITLE	STAIRCASE DETAILS					
DRAWN BY	неш, дом					
CHECKED BY	неш, дом					
DATE OF ISSUE						

NOTES

1.THIS DRAWING SHALL BE READ ALONG WITH ARCHITECTURAL

2.DISCREPANCY IF NOTICED IN BETWEEN THIS DRAWING AND CONCERNED ARCHITECTURAL DRAWING SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER.

3.ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.

4.ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED AND NO DIMENSION SHALL BE SCALED.

5.ALL R.C.C. WORK SHALL BE OF M25 GRADE.
6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-

A) FOOTING
B) BEAM
C) SLAB
D) COLUMN
E) STAIRCASE SLAB : 25 MM : 20 MM : 20 MM

7. ALL GRID LINES PASS THROUGH THE CENTRE LINE OF COLUMN.

8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% PROOF STRESS NOT LESS THAN 500N/sqmm.

9. LAP AND ANCHORAGE LENGTH (Ld) OF BARS SHALL BE 47 TIMES OF BAR DIA . FOR MIX 1:1.5:3 LAP SHALL SHALL BE STAGGERED AND AVOIDED AT THE POINT OF MAX. BENDING

10. REINFORCEMENT SHALL HAVE CONCRETE COVER AND THICKNESS OF SUCH COVER (EXCLUSIVE OF PLASTER AND OTHER DECORATIVE FINISH) SHALL BE AS FOLLOWS:-

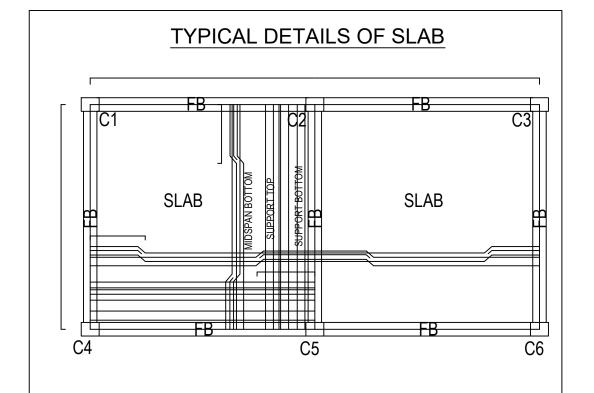
A) AT THE END OF THE REINFORCEMENT BAR, NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

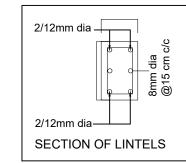
B) FOR LONGITUDINAL REINFORCING BAR IN A BEAM NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

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2. THE POSITION OF HOOKS OF COLUMN TIES SHALL BE FERTICALLY STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.

3. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE JECTION .

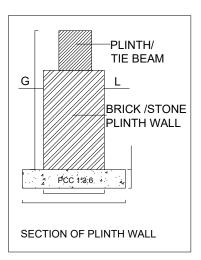




TYPICAL PLAN

TABLE OF SLAB REINFORCEMENT

Slab 289		جي.	X- direction		r- direction					
Siab		icknes !	At Mic	dspan	At Su	pport	At Mic	dspan	At Su	pport
name		Thickness	Тор	Bottom	Тор	Bottom	Top	Bottom	Тор	Bottom
SLAB OR DROP SLAB @ FIRST,SECOND & TERRACE FLOOR		12.5CM	Nii	12 mm dia bar @ 12 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c	III	12 mm dia bar @ 12 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c
CANT SLAB OR CANT DROP SLAB @ FIRST, SECOND & TERRACE FLOOR LEVEL		10CM	12 mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c



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PROJECT TITLE SCHOOL OF NURSING **UPGRADATION** SITE DETAILS LOCATION WILLIAMNAGAR, **MEGHALAYA**

DRAWING DETAILS						
TITLE	PLINTH WALL& SLAB DETAILS					
DRAWN BY	HEW, GOM					
CHECKED BY	HEW, GOM					

NOTES

DATE OF ISSUE

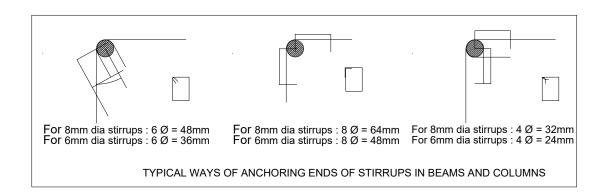
- 1.THIS DRAWING SHALL BE READ ALONG WITH ARCHITECTURAL
- 2.DISCREPANCY IF NOTICED IN BETWEEN THIS DRAWING AND CONCERNED ARCHITECTURAL DRAWING SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER.
- 3.ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
- 4. ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED AND NO DIMENSION SHALL BE SCALED.
- 5.ALL R.C.C. WORK SHALL BE OF M25 GRADE.
 6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS 6. CLEAR FOLLOWS :-

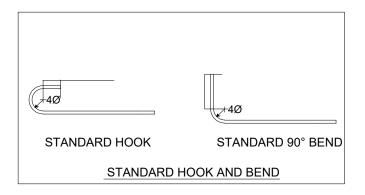
FOOTING	: 50 M
BEAM	: 25 N
SLAB	: 20 N
COLUMN	: 40 M
STAIRCASE SLAB	: 20 M

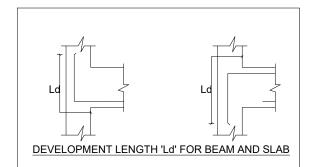
- ALL GRID LINES PASS THROUGH THE CENTRE LINE OF
- 8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% PROOF STRESS NOT LESS THAN 500N/sqmm.
- 0.2% PROOF STRESS NOT LESS THAN SUUNISHIM.

 9. LAP AND ANCHORAGE LENGTH (Ld) OF BARS SHALL BE 47
 TIMES OF BAR DIA . FOR MIX 1:1.5:3 LAP SHALL SHALL BE STAGGERED AND AVOIDED AT THE POINT OF MAX. BENDING
- 10. REINFORCEMENT SHALL HAVE CONCRETE COVER AND THICKNESS OF SUCH COVER (EXCLUSIVE OF PLASTER AND OTHER DECORATIVE FINISH) SHALL BE AS FOLLOWS:-
- A) AT THE END OF THE REINFORCEMENT BAR, NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.
- B) FOR LONGITUDINAL REINFORCING BAR IN A BEAM NOT LESS 11. THE SAFE BEARING CAPACITY OF SOIL IS CONSIDERED AS
 15.77 TON/ SQ.M AT A DEPTH OF 2.00M. THIS CAPACITY NEEDS TO BE
- CONFIRMED BY CONDUCTING A PLATE-LOAD TEST.
- 12. THE POSITION OF HOOKS OF COLUMN TIES SHALL BE VERTICALLY
 STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.
- 13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE

DRAWN BY	CHECKED BY	COUNTERSIGNED BY	APPROVED BY
FRANKIE BIAM	KYRSHANSKHEM DHAR	R. WANNIANG	RAMKUMAR S (IAS)
HEM, MHSSP	HEC, NHM	EXECUITVE ENGINEER, HEW	MISSION DIRECTOR, NHM
		•	

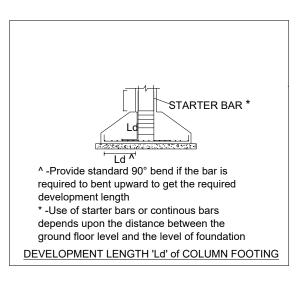


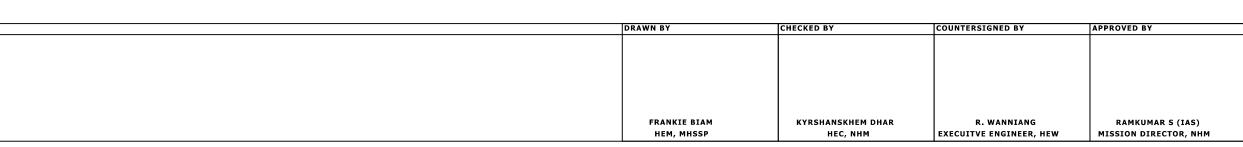


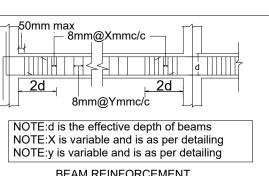


DEVELOPMENT LENGTH 'Ld' for Deformed Bars

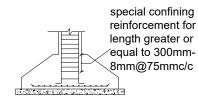
Bar Diameter	'Ld' for Grade of Concrete (cm)				
(mm)	M15	M20	M25		
6	33.8	28.2	24.2		
8	45.1	37.6	32.2		
10	56.4	47.0	40.3		
12	67.7	56.4	48.4		
16	90.3	75.2	64.5		
20	112.8	94.0	80.6		
25	141.0	117.5	100.7		



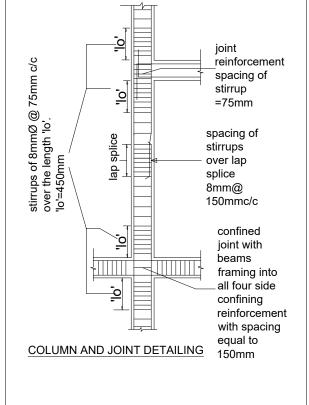




BEAM REINFORCEMENT



PROVISION OF SPECIAL CONFINING REINFORCEMENT IN FOOTING



TYPICAL DRAWING AND DETAILS SPACING OF REINFORCEMENT FOR BEAMS, COLUMNS & FOOTING AS PER IS 13920:1993

NOTES

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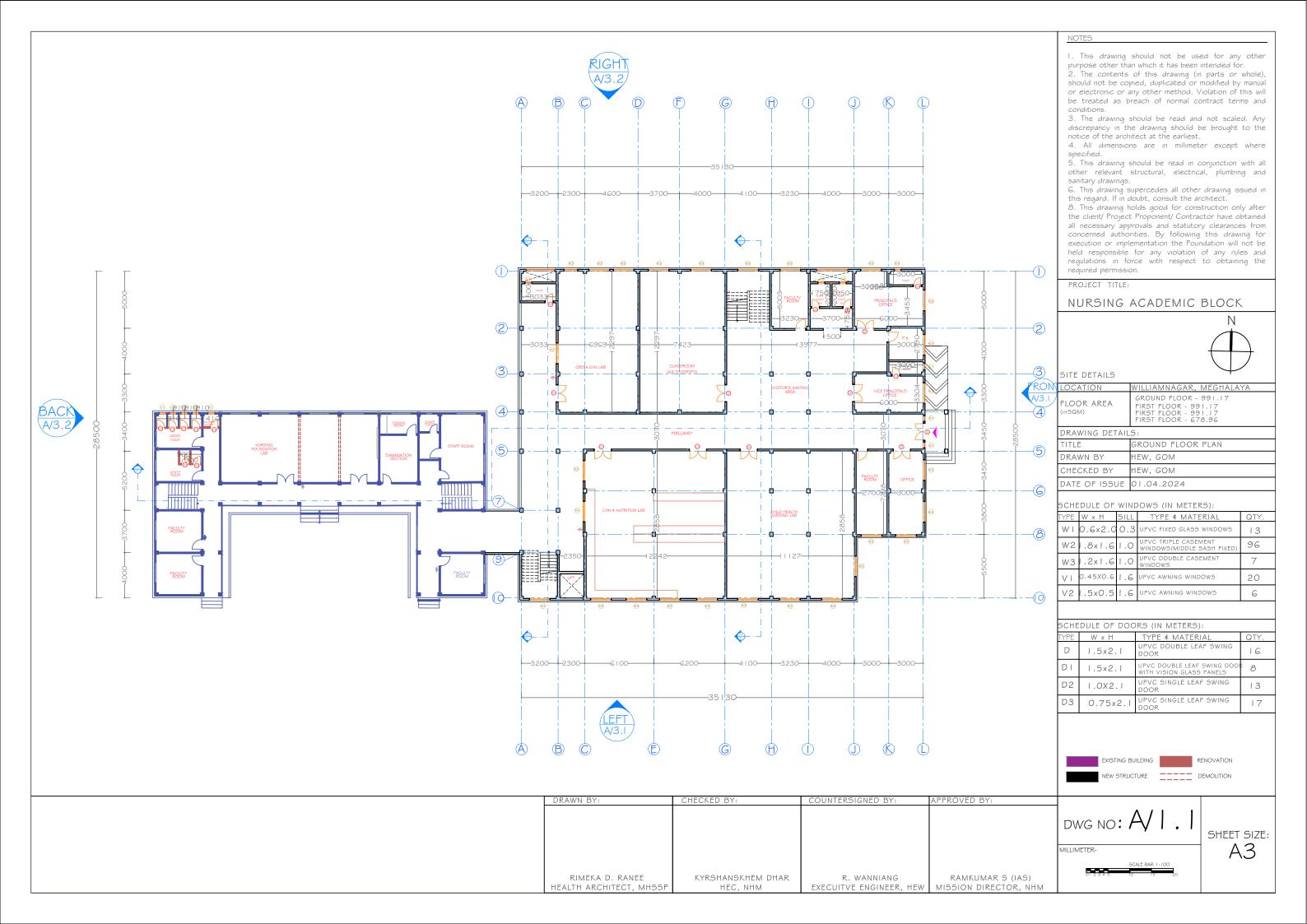
 6. This drawing supercedes all other drawing issued in this regard. If in doul
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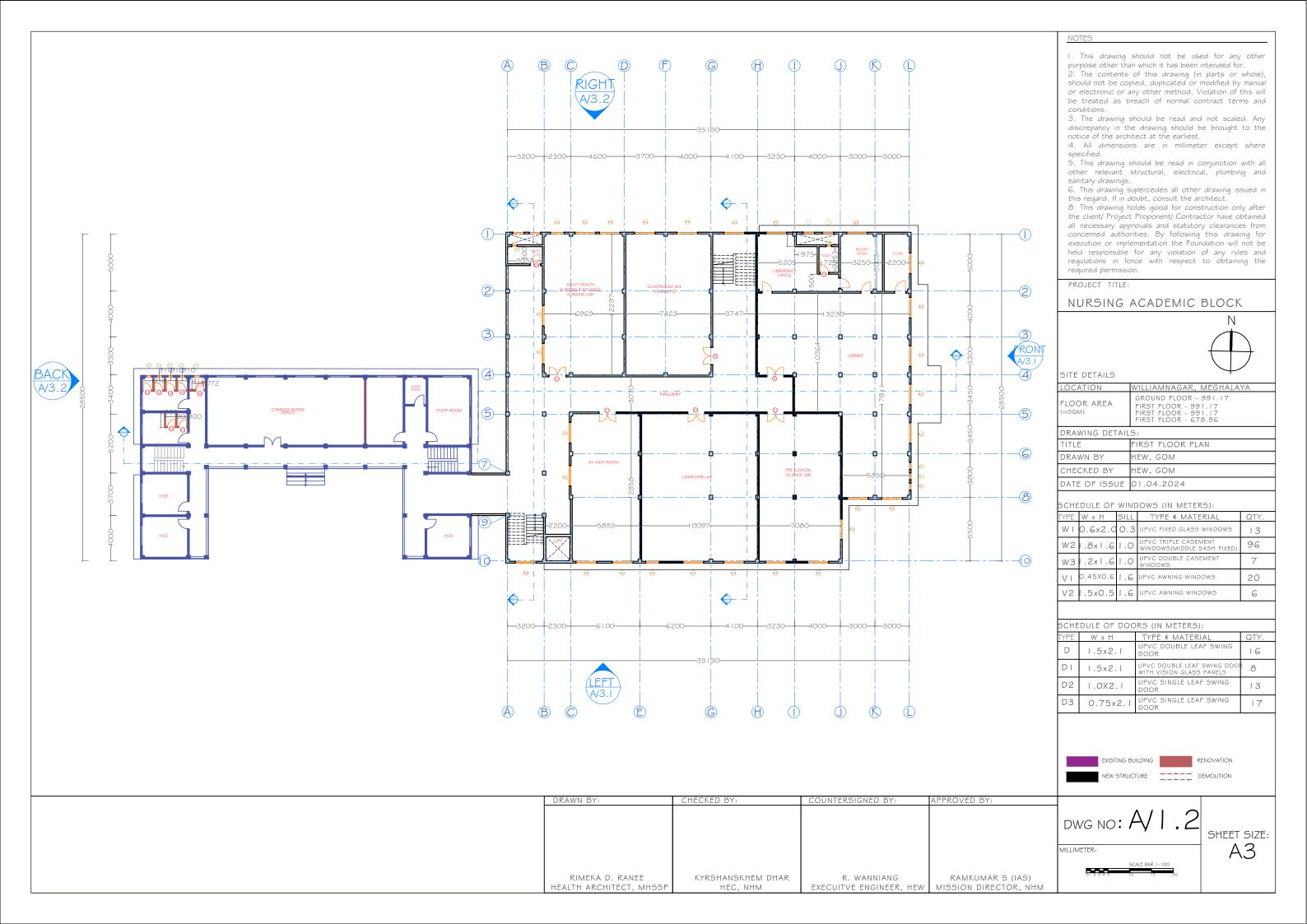
PROJECT TITLE SCHOOL OF NURSING UPGRADATION

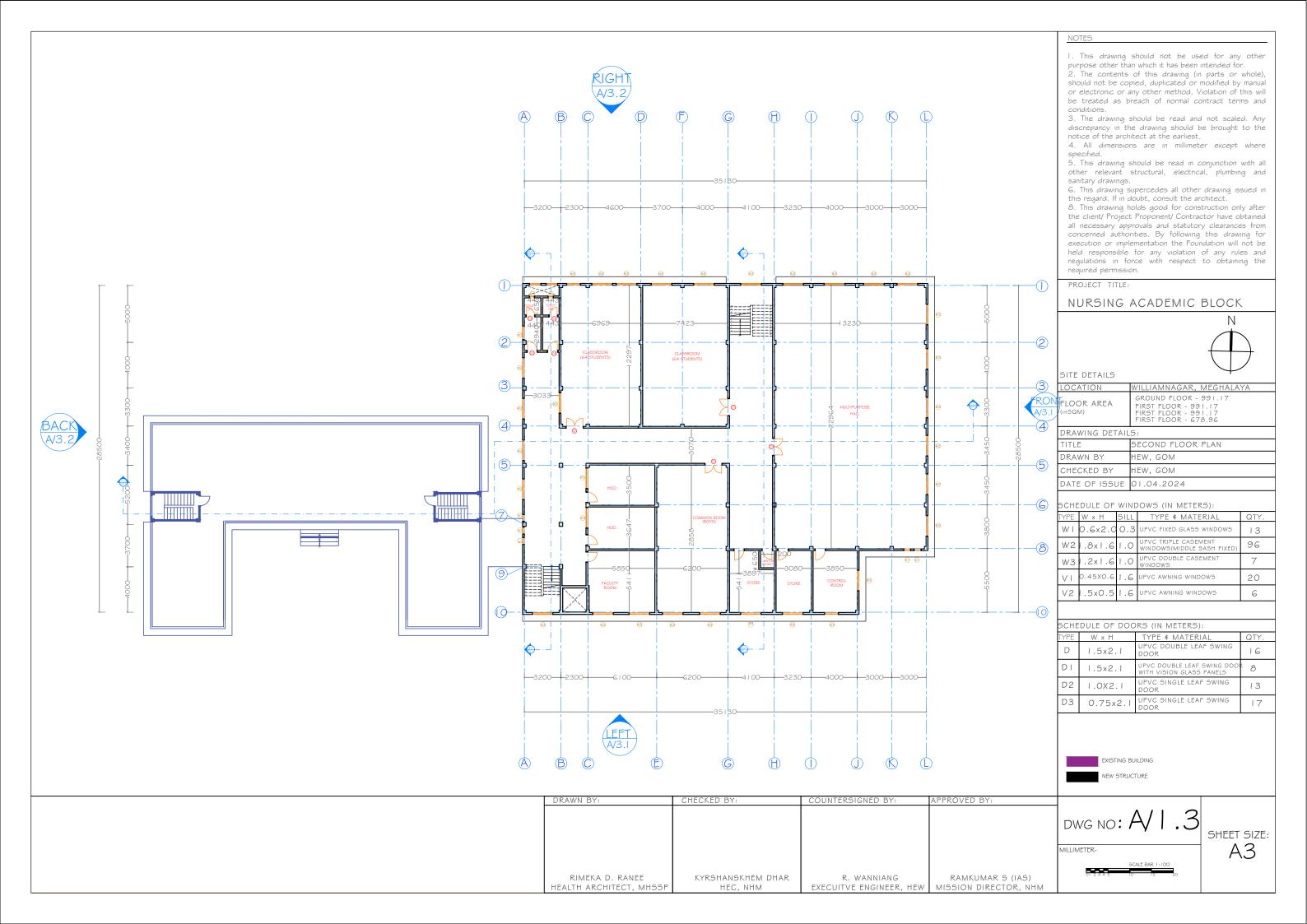
SITE DETAILS LOCATION WILLIAMNAGAR, **MEGHALAYA**

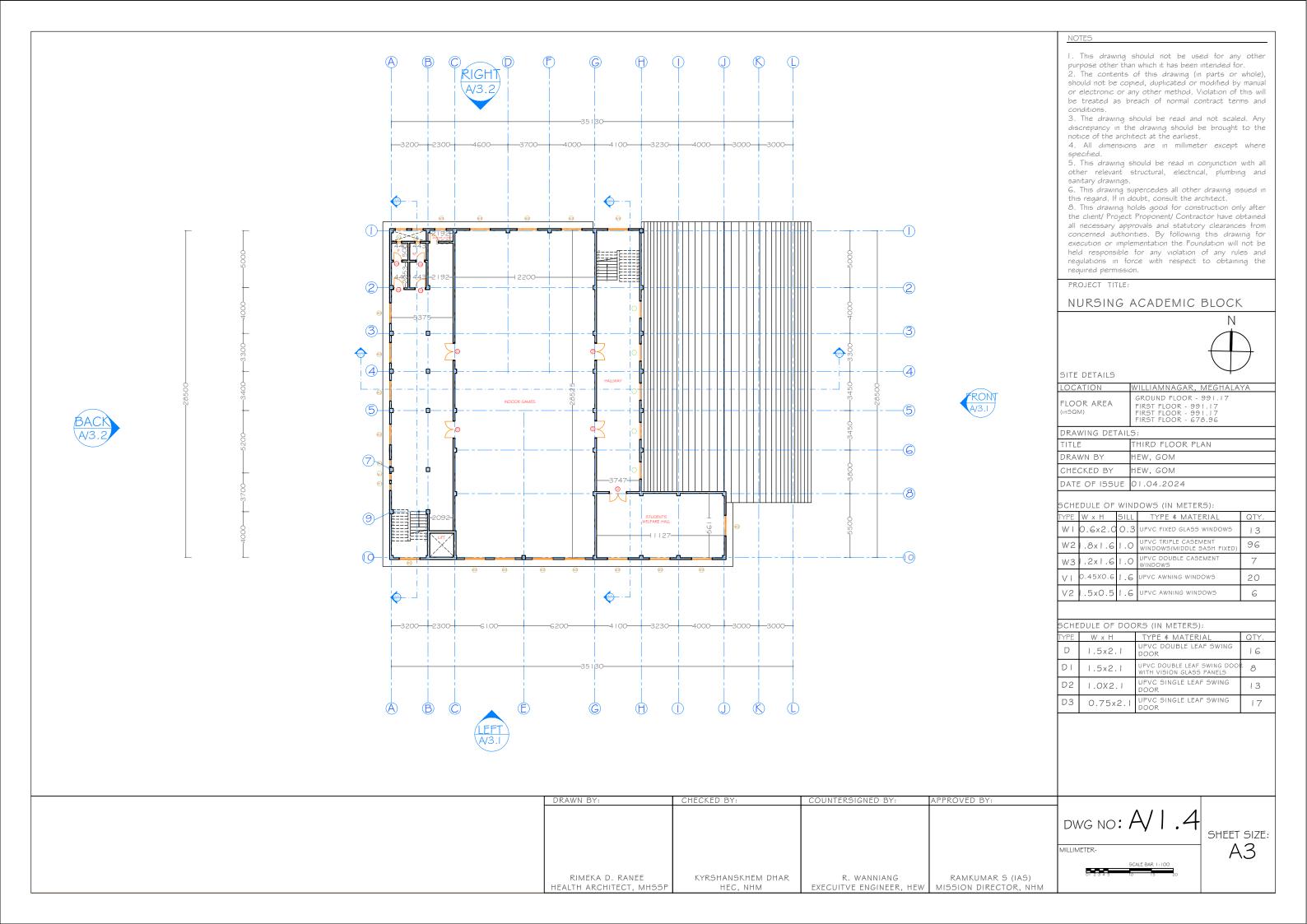
DRAWING DETAILS					
TITLE	STRUCTURAL SPECIFICATION				
DRAWN BY	неw, gom				
CHECKED BY	неw, g om				
DATE OF ISSUE					

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 - FOOTING : 50 MM BEAM SLAB : 25 MM : 20 MM COLUMN : 40 MM STAIRCASE SLAB
- ALL GRID LINES PASS THROUGH THE CENTRE LINE OF COLUMN
- 8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% PROOF STRESS NOT LESS THAN 500N/sqmm.
- 9. LAP AND ANCHORAGE LENGTH (Ld) OF BARS SHALL BE 47 TIMES OF BAR DIA . FOR MIX 1:1.5:3 LAP SHALL SHALL BE STAGGERED AND AVOIDED AT THE POINT OF MAX. BENDING
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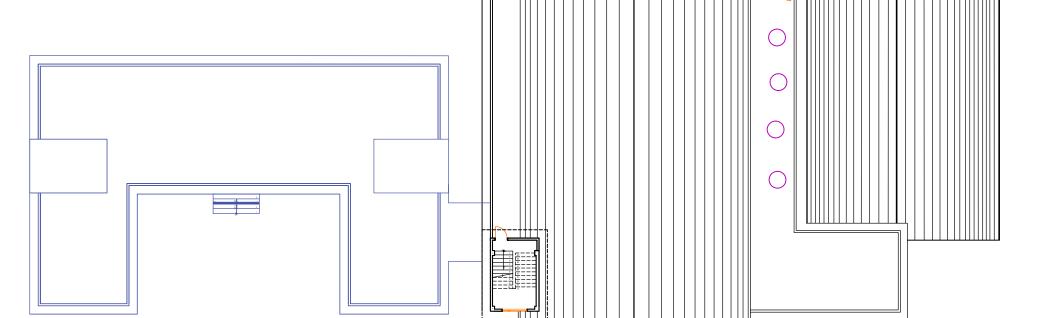














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PROJECT TITLE:

NURSING ACADEMIC BLOCK



SITE DETAILS

LOCATION	WILLIAMNAGAR, MEGHALAYA
FLOOR AREA	GROUND FLOOR - 991.17 FIRST FLOOR - 991.17 FIRST FLOOR - 991.17

DRAWING DETAILS:

DIVINIO DETINIE	· · · · · · · · · · · · · · · · · · ·
TITLE	ROOF PLAN
DRAWN BY	HEW, GOM
CHECKED BY	HEW, GOM
DATE OF ISSUE	01.04.2024

SCHEDULE OF WINDOWS (IN METERS):

· · · · · · · · · · · · · · · · · · ·					
TYPE	WxH	SILL	TYPE \$ MATERIAL	QTY.	
WI	0.6x2.0	0.3	UPVC FIXED GLASS WINDOWS	13	
W2	1.8x1.6	1.0	UPVC TRIPLE CASEMENT WINDOWS(MIDDLE SASH FIXED)	96	
W3	1.2x1.6	1.0	UPVC DOUBLE CASEMENT WINDOWS	7	
VI	0.45X0.6	1.6	UPVC AWNING WINDOWS	20	
V2	1.5x0.5	1.6	UPVC AWNING WINDOWS	6	

SCHEDULE OF DOORS (IN METERS):

TYPE	$W \times H$	TYPE & MATERIAL	QTY.
D	1.5x2.1	UPVC DOUBLE LEAF SWING DOOR	-6
DI	1.5x2.1	UPVC DOUBLE LEAF SWING DOOR	8
D2	1.0X2.1	UPVC SINGLE LEAF SWING DOOR	13
D3	0.75x2.I	UPVC SINGLE LEAF SWING DOOR	29
		DOOK	



RIMEKA D. RANEE
HEALTH ARCHITECT, MHSSP

CHECKED BY:

COUNTERSIGNED BY:

APPROVED BY:

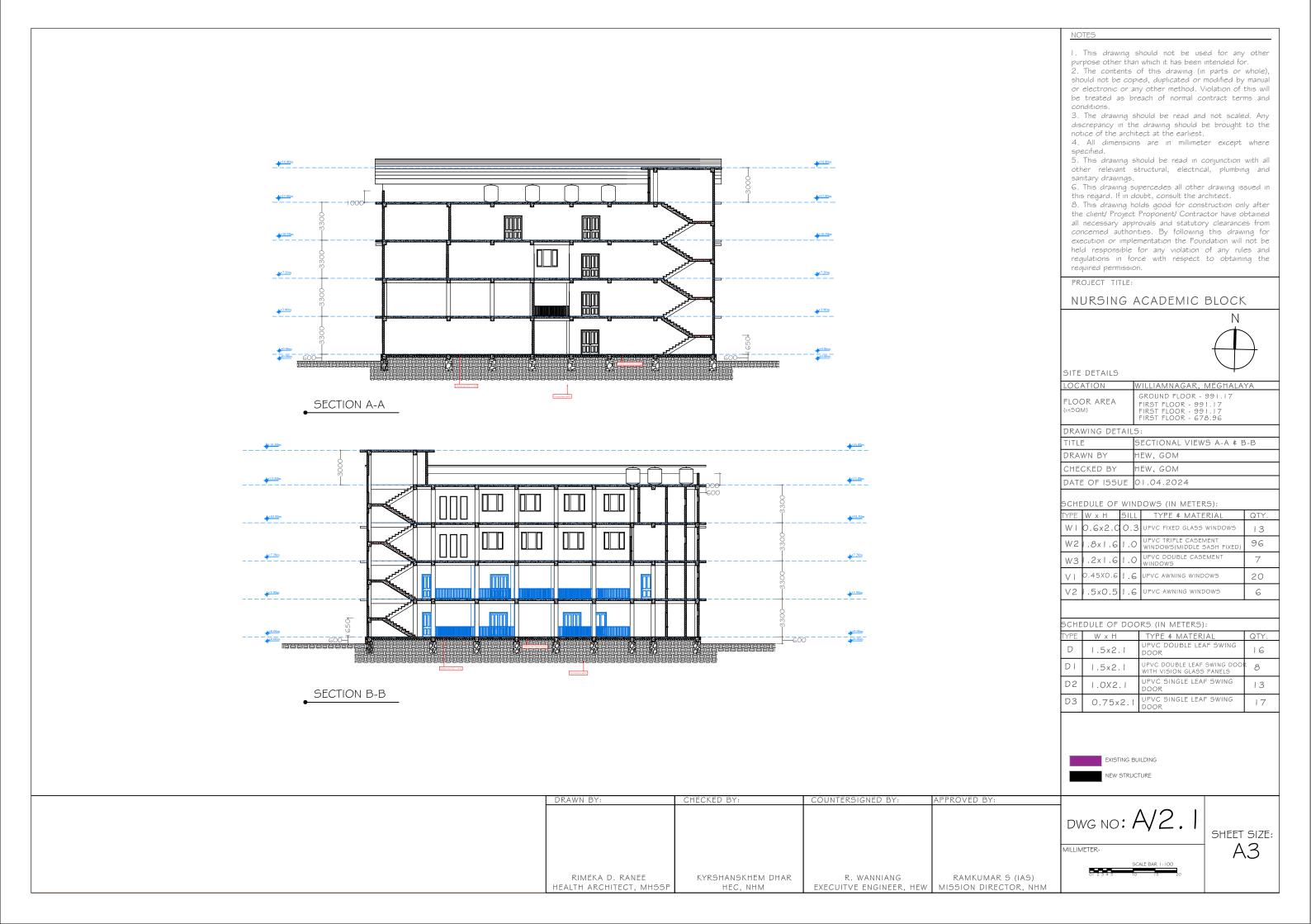
RIMEKA D. RANEE
KYRSHANSKHEM DHAR
HEC, NHM
EXECUITVE ENGINEER, HEW
MISSION DIRECTOR, NHM

DWG NO: A/ 1.5

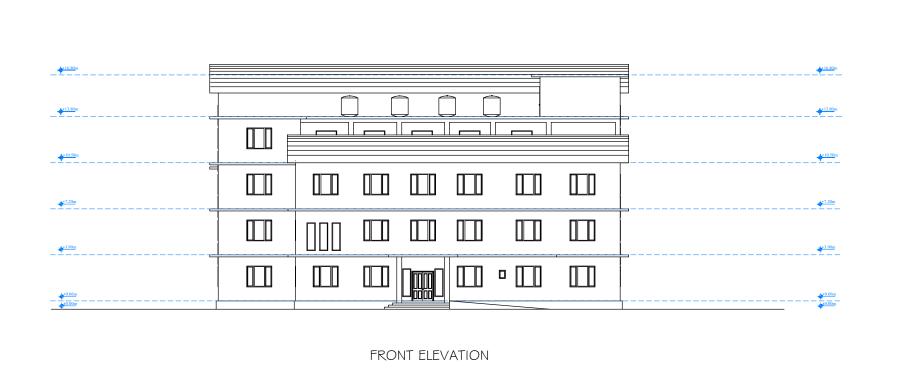
MILLIMETER-

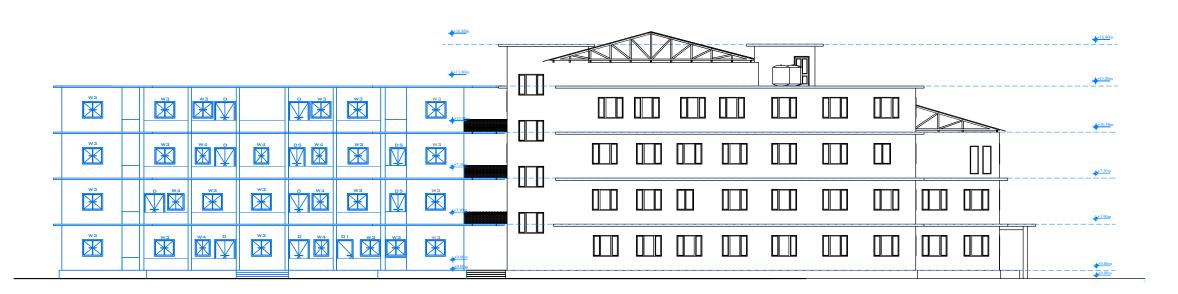


SHEET SIZE:









LEFT

NOTES

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PROJECT TITLE:

NURSING ACADEMIC BLOCK



SHEET SIZE:

SITE DETAILS

LOCATION	WILLIAMNAGAR, MEGHALAYA
FLOOR AREA	GROUND FLOOR - 991.17 FIRST FLOOR - 991.17 FIRST FLOOR - 991.17

DRAWING DETAILS:

	DRAWING DETAIL	
	TITLE	ELEVATION (FRONT # LEFT)
	DRAWN BY	HEW, GOM
	CHECKED BY	HEW, GOM
	DATE OF ISSUE	01.04.2024

SCHEDULE OF WINDOWS (IN METERS).

SCHE	SCHEDULE OF WINDOWS (IN METERS):			
TYPE	WxH	SILL	TYPE # MATERIAL	QTY.
WI	0.6x2.0	0.3	UPVC FIXED GLASS WINDOWS	13
W2	1.8x1.6	1.0	UPVC TRIPLE CASEMENT WINDOWS (MIDDLE SASH FIXED)	96
W3	1.2×1.6	1.0	UPVC DOUBLE CASEMENT WINDOWS	7
VI	0.45X0.6	1.6	UPVC AWNING WINDOWS	20
V2	1.5x0.5	1.6	UPVC AWNING WINDOWS	6

SCHEDULE OF DOORS (IN METERS):

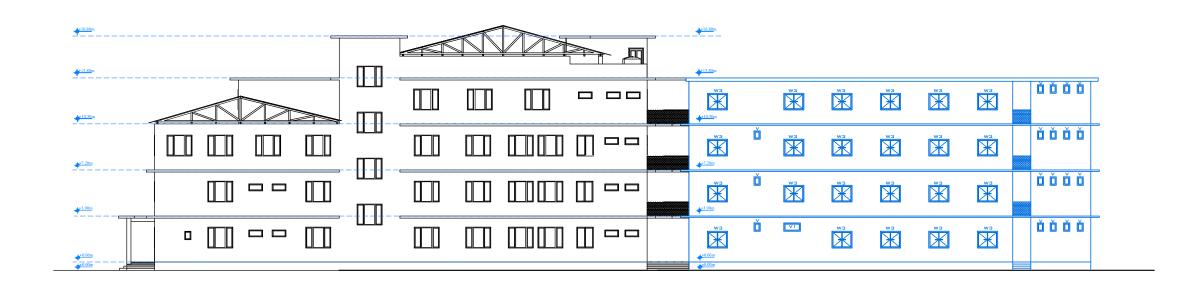
TYPE	W×H	W x H TYPE & MATERIAL	
D	1.5x2.1	UPVC DOUBLE LEAF SWING DOOR	16
DΙ	1.5x2.1	UPVC DOUBLE LEAF SWING DOOL WITH VISION GLASS PANELS	8
D2	1.0X2.1	UPVC SINGLE LEAF SWING DOOR	13
D3	0.75x2.I	UPVC SINGLE LEAF SWING DOOR	17



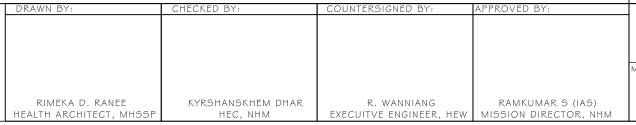
RIMEKA D. RANEE HEALTH ARCHITECT, MHSSP HEC, NHM EXECUITVE ENGINEER, HEW MISSION DIRECTOR, NHM



BACK ELEVATION



FRONT ELEVATION



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PROJECT TITLE:

NURSING ACADEMIC BLOCK



SITE DETAILS

LOCATION	WILLIAMNAGAR, MEGHALAYA
FLOOR AREA	GROUND FLOOR - 991.17 FIRST FLOOR - 991.17 FIRST FLOOR - 991.17 FIRST FLOOR - 678.96

DRAWING DETAILS:

TITLE	ELEVATIONS (BACK & RIGHT)
DRAWN BY	HEW, GOM
CHECKED BY	HEW, GOM
DATE OF ISSUE	01.04.2024

SCHEDULE OF WINDOWS (IN METERS):

SOTIED DEL OT WINDOWS (IN METERS):				
TYPE	WxH	SILL	TYPE # MATERIAL	QTY.
WI	0.6x2.0	0.3	UPVC FIXED GLASS WINDOWS	13
W2	1.8x1.6	1.0	UPVC TRIPLE CASEMENT WINDOWS(MIDDLE SASH FIXED)	96
W3	1.2×1.6	1.0	UPVC DOUBLE CASEMENT WINDOWS	7
VI	0.45X0.6	1.6	UPVC AWNING WINDOWS	20
V2	1.5x0.5	1.6	UPVC AWNING WINDOWS	6
<u> </u>				

SCHEDULE OF DOORS (IN METERS):

TYPE	W×H	TYPE & MATERIAL	QTY.		
D	1.5x2.1	UPVC DOUBLE LEAF SWING DOOR	16		
DΙ	1.5x2.1	UPVC DOUBLE LEAF SWING DOOL WITH VISION GLASS PANELS	8		
D2	1.0X2.1	UPVC SINGLE LEAF SWING DOOR	13		
D3	0.75x2.I	UPVC SINGLE LEAF SWING DOOR	17		

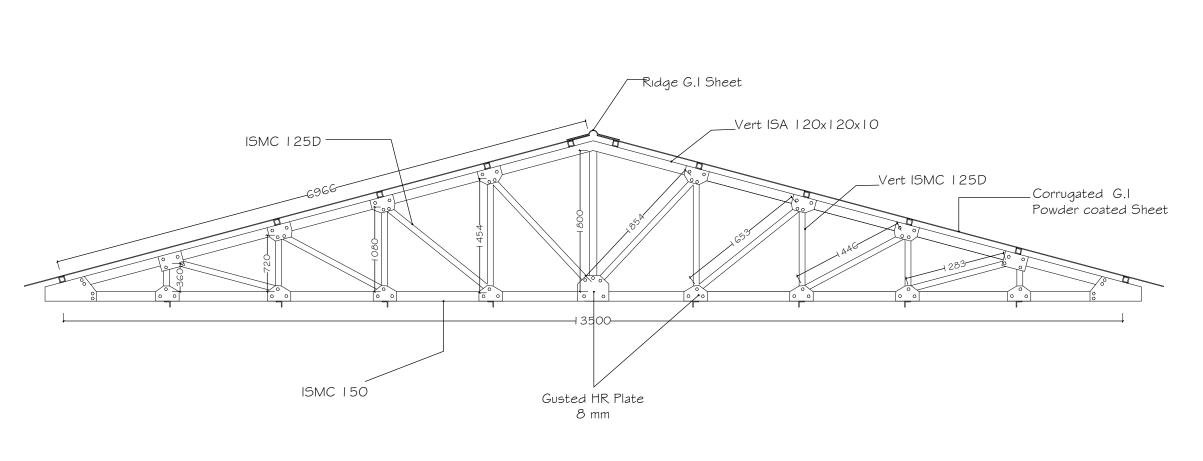


DWG NO: A/3.2

MILLIMETER-



SHEET SIZE:



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PROJECT TITLE:

NURSING ACADEMIC BLOCK



SITE DETAILS

LOCATION	NONGSTOIN, MEGHALAYA		
FLOOR AREA	GROUND FLOOR - 991.17		
	FIRST FLOOR - 991.17 FIRST FLOOR - 991.17 FIRST FLOOR - 678.96		
	FIRST FLOOR - 991.17		
	FIRST FLOOR - 678.96		

DRAWING DETAILS

DRAWING DETAILS:		
TITLE	TRUSS DETAILS	
DRAWN BY	HEW, GOM	
CHECKED BY	HEW, GOM	
DATE OF ISSUE	01.04.2024	

DRAWN BY:

CHECKED BY:

COUNTERSIGNED BY:

APPROVED BY:

M

BARTHOLOMEW .J

HEM, MH55P

HEM, MH55P

COUNTERSIGNED BY:

APPROVED BY:

M

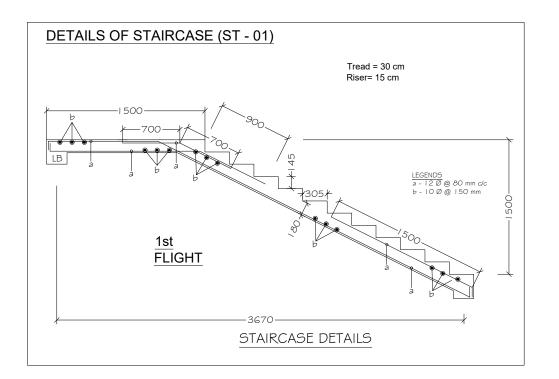
EXECUITVE ENGINEER, HEW MISSION DIRECTOR, NHM

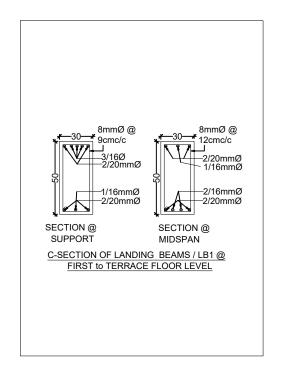
DWG NO: 5/1.1

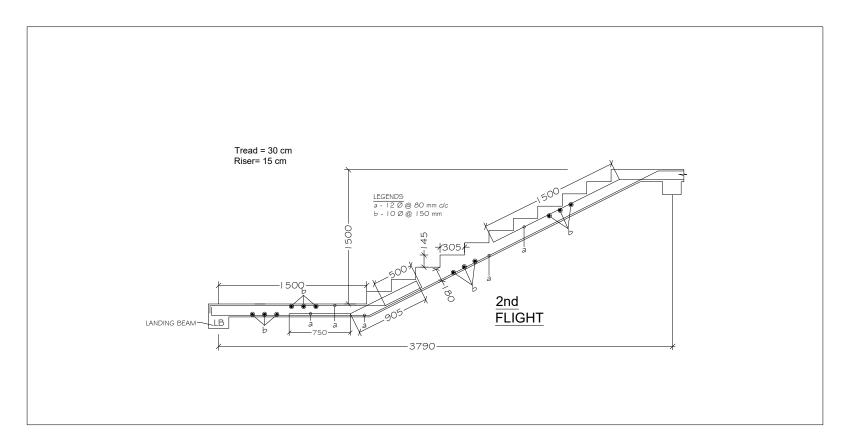
MILLIMETER-



SHEET SIZE:







STAIRCASE -1

	DRAWN BY	CHECKED BY	COUNTERSIGNED BY	APPROVED BY	VERT STAC	
					13. N SECT	
					SECI	
	FRANKIE BIAM	KYRSHANSKHEM DHAR	R. WANNIANG	RAMKUMAR S (IAS)		
	HEM, MHSSP	HEC, NHM	EXECUITVE ENGINEER, HEW	MISSION DIRECTOR, NHM	1	

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PROJECT TITLE SCHOOL OF NURSING UPGRADATION



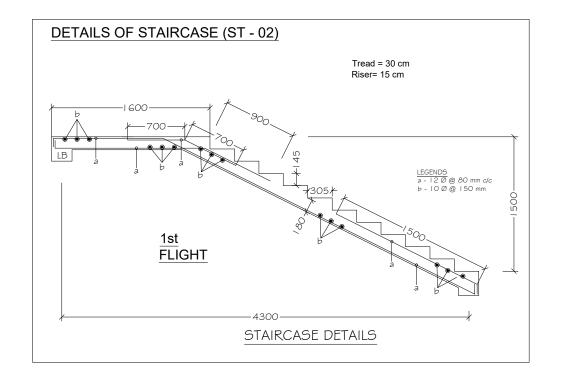
SITE DETAILS	
LOCATION	NONGSTOIN, MEGHALAYA

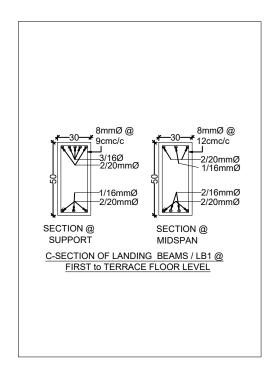
DRAWING DETAILS	
TITLE	STAIRCASE DETAILS
DRAWN BY	неw, дом
CHECKED BY	неw, дом
DATE OF ISSUE	

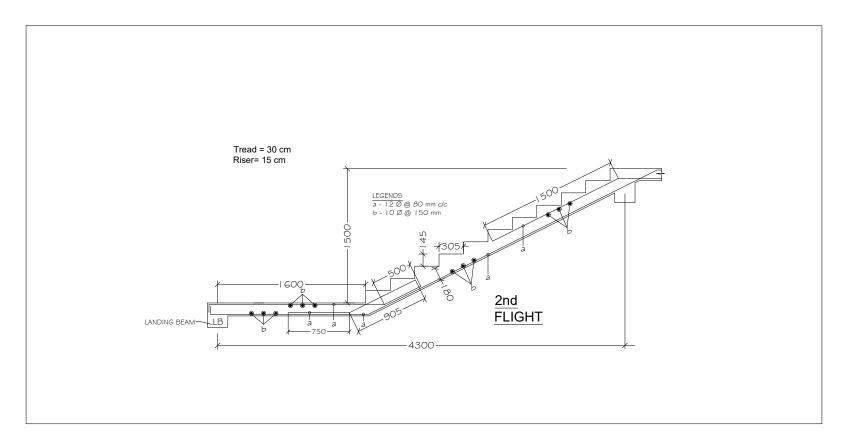
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- 5.ALL R.C.C. WORK SHALL BE OF M25 GRADE.
 6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-
- A) FOOTING
 B) BEAM
 C) SLAB
 D) COLUMN
 E) STAIRCASE SLAB : 25 MM : 20 MM : 20 MM
- 7. ALL GRID LINES PASS THROUGH THE CENTRE LINE OF COLUMN.
- 8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% PROOF STRESS NOT LESS THAN 500N/sqmm.

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- 10. REINFORCEMENT SHALL HAVE CONCRETE COVER AND THICKNESS OF SUCH COVER (EXCLUSIVE OF PLASTER AND OTHER DECORATIVE FINISH) SHALL BE AS FOLLOWS:-
- A) AT THE END OF THE REINFORCEMENT BAR, NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.
- B) FOR LONGITUDINAL REINFORCING BAR IN A BEAM NOT LESS THAN 25MM NOR LESS THAN THE DIA OF SUCH BAR.

 11. THE SAFE BEARING CAPACITY OF SOIL IS CONSIDERED AS 15.77 TON! SOM AT A DEPTH OF 2.00M. THIS CAPACITY NEEDS TO BE CONFIRMED BY CONDUCTING A PLATE-LOAD TEST.
- 12. THE POSITION OF HOOKS OF COLUMN TIES SHALL BE VERTICALLY STAGGERED AND PLACED OPPOSITE FACE FOR ALTERNATE TIES.
- 13. NOT MORE THAN 50% OF BARS SHALL BE SPLICED AT ONE SECTION .







STAIRCASE -2

				12. VERT
DRAWN BY	CHECKED BY	COUNTERSIGNED BY	APPROVED BY	VERT STAG
				13. NO SECT
FRANKIE BIAM	KYRSHANSKHEM DHAR	R. WANNIANG	RAMKUMAR S (IAS)	
HEM, MHSSP	HEC, NHM	EXECUITVE ENGINEER, HEW	MISSION DIRECTOR, NHM	

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PROJECT TITLE SCHOOL OF NURSING UPGRADATION



SITE DETAILS	
LOCATION	NONGSTOIN, MEGHALAYA

DRAWING DETAILS				
TITLE	STAIRCASE DETAILS			
DRAWN BY	HEW, GOM			
CHECKED BY	HEW, GOM			
DATE OF ISSUE				

NOTES

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4.ONLY FIGURED DIMENSIONS SHALL BE FOLLOWED AND NO DIMENSION SHALL BE SCALED.

5.ALL R.C.C. WORK SHALL BE OF M25 GRADE.
6. CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:-

A) FOOTING
B) BEAM
C) SLAB
D) COLUMN
E) STAIRCASE SLAB : 25 MM : 20 MM : 20 MM

7. ALL GRID LINES PASS THROUGH THE CENTRE LINE OF COLUMN.

8. ALL REINFORCEMENT SHALL BE OF HIGH STRENGTH DEFORMED STEEL BARS CONFORMING TO IS: 1786-1985 (GRADE Fe-500) WITH 0.2% PROOF STRESS NOT LESS THAN 500N/sqmm.

9. LAP AND ANCHORAGE LENGTH (Ld) OF BARS SHALL BE 47 TIMES OF BAR DIA . FOR MIX 1:1.5:3 LAP SHALL SHALL BE STAGGERED AND AVOIDED AT THE POINT OF MAX. BENDING

10. REINFORCEMENT SHALL HAVE CONCRETE COVER AND THICKNESS OF SUCH COVER (EXCLUSIVE OF PLASTER AND OTHER DECORATIVE FINISH) SHALL BE AS FOLLOWS:-

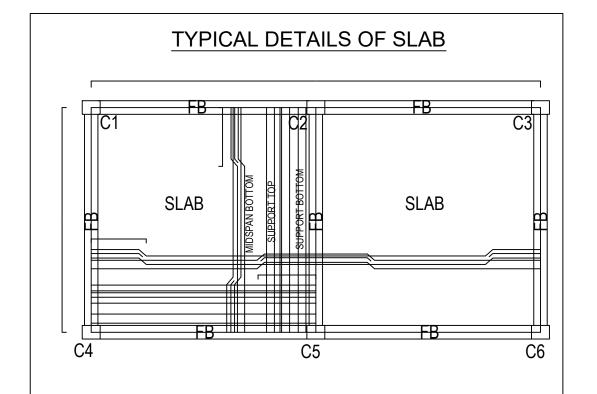
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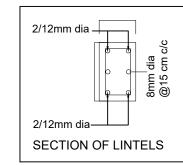
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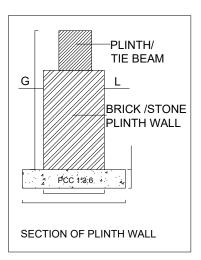




TYPICAL PLAN

TABLE OF SLAB REINFORCEMENT

Slab	Thickness	X- direction			r - direction				
name		At Mic	At Midspan A		At Support		At Midspan		oport
Hame	This	Тор	Bottom	Тор	Bottom	Тор	Bottom	Тор	Bottom
SLAB OR DROP SLAB @ FIRST,SECOND & TERRACE FLOOR LEVEL	12.5CM	Nii	12 mm dia bar @ 12 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c	Ē	12 mm dia bar @ 12 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c
CANT SLAB OR CANT DROP SLAB @ FIRST, SECOND & TERRACE FLOOR LEVEL	10CM	12 mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c	12mm dia bar @ 12 cm c/c	12mm dia bar @ 24 cm c/c



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PROJECT TITLE SCHOOL OF NURSING **UPGRADATION** SITE DETAILS LOCATION NONGSTOIN, MEGHALAYA

	DRAWING DETAILS				
	TITLE	PLINTH WALL& SLAB DETAILS			
	DRAWN BY	HEW, GOM			
	CHECKED BY	HEW, GOM			
	DATE OF ISSUE				

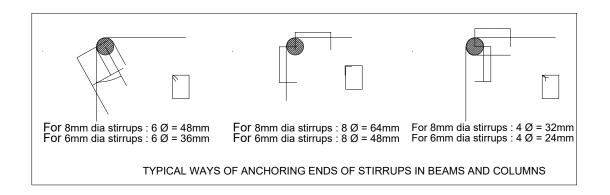
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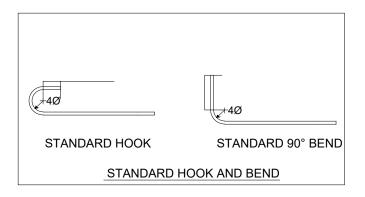
FOOTING	: 50 M
BEAM	: 25 N
SLAB	: 20 N
COLUMN	: 40 M
STAIRCASE SLAB	: 20 M

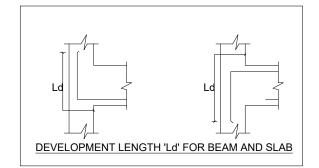
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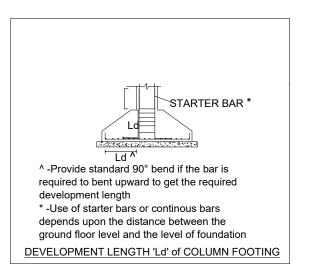






DEVELOPMENT LENGTH 'Ld' for Deformed Bars

Bar Diameter	'Ld' for Grade of Concrete (cm)				
(mm)	M15	M20	M25		
6	33.8	28.2	24.2		
8	45.1	37.6	32.2		
10	56.4	47.0	40.3		
12	67.7	56.4	48.4		
16	90.3	75.2	64.5		
20	112.8	94.0	80.6		
25	141.0	117.5	100.7		

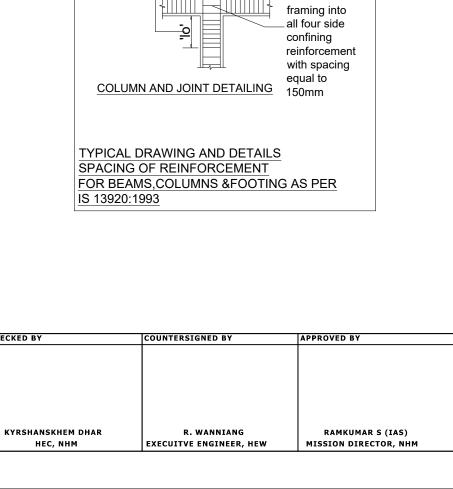


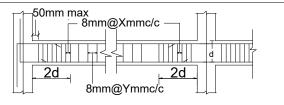
DRAWN BY

FRANKIE BIAM

HEM, MHSSP

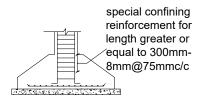
CHECKED BY



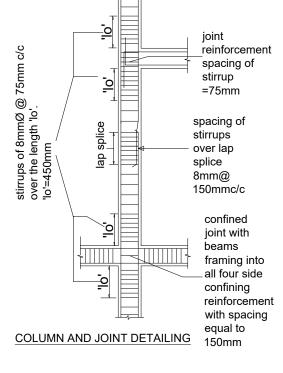


NOTE:d is the effective depth of beams NOTE:X is variable and is as per detailing NOTE:y is variable and is as per detailing

BEAM REINFORCEMENT



PROVISION OF SPECIAL CONFINING REINFORCEMENT IN FOOTING



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SITE DETAILS LOCATION NONGSTOIN, MEGHALAYA

DRAWING DETAILS				
TITLE	STRUCTURAL SPECIFICATION			
DRAWN BY	HEW, GOM			
CHECKED BY	HEW, GOM			
DATE OF ISSUE				

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