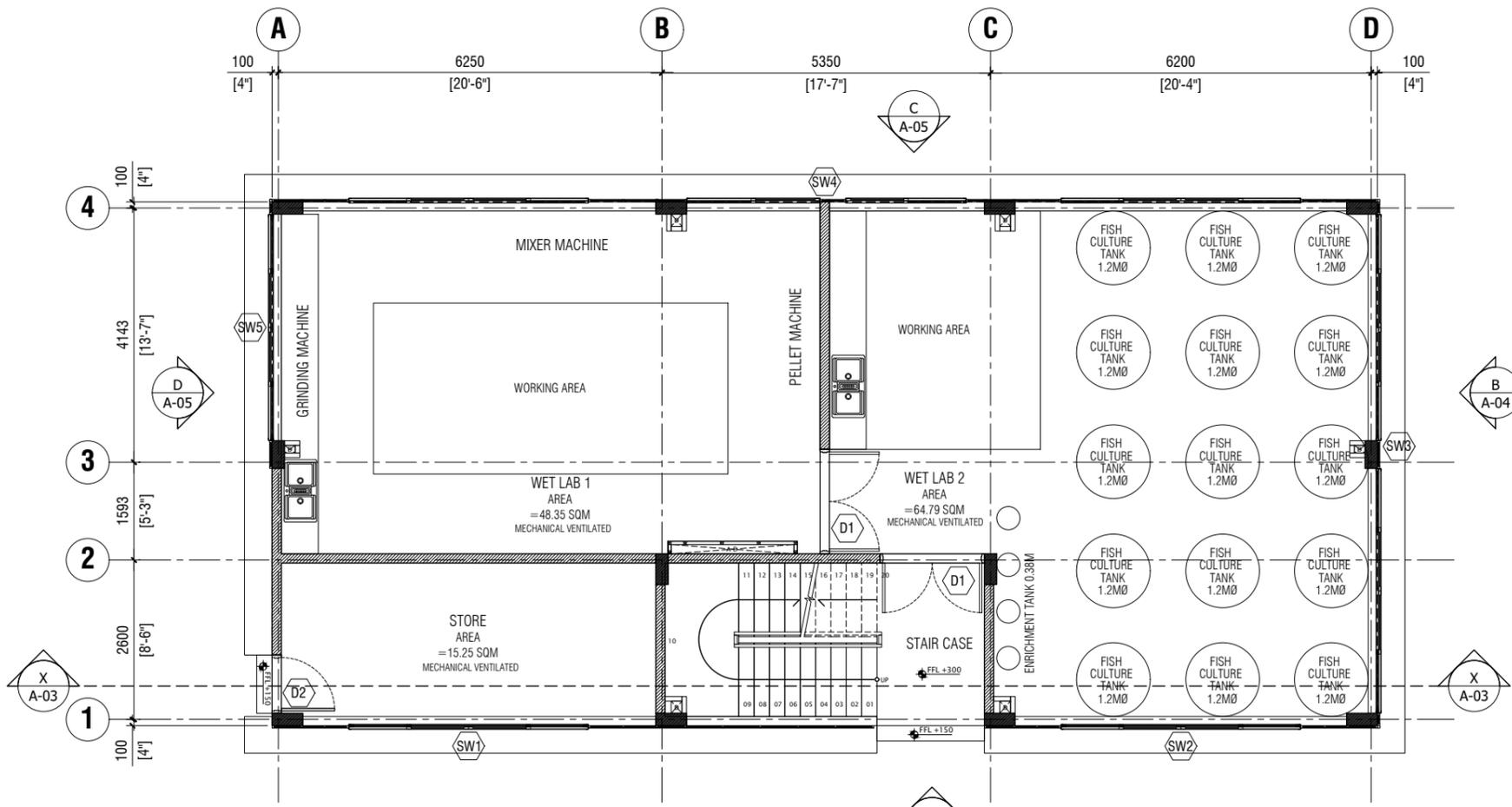


**Maldives Sustainable Fisheries Resources Development Project  
Marine Research Center, Ministry of Fisheries and Agriculture**



**LEGEND**

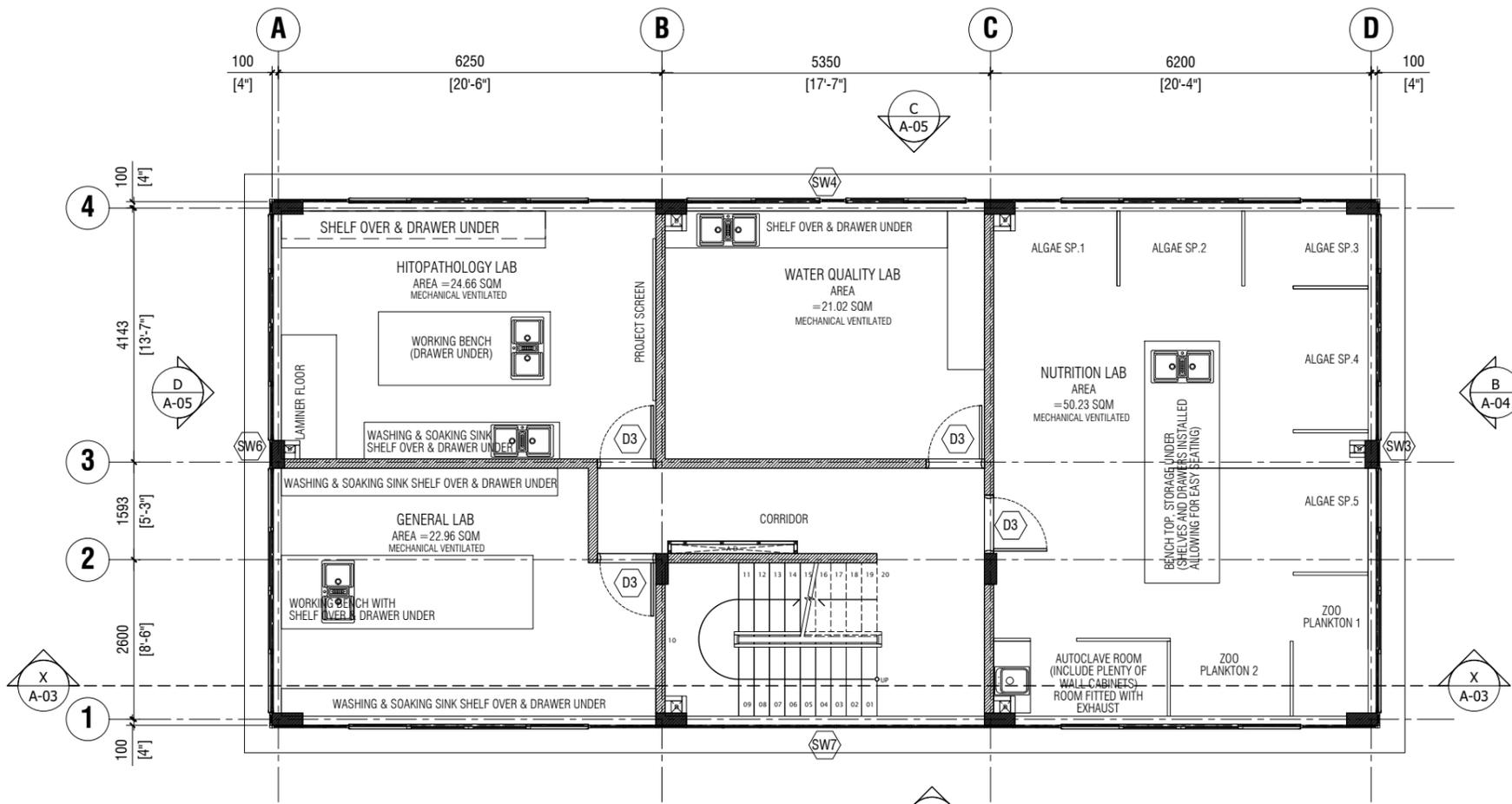
D DUCT  
AD AC PIPE DUCT

**GROUND FLOOR PLAN**

SCALE 1:100

**FINISHES:**

FLOOR FINISH  
- 600x600MM WHITE HOMOGENEOUS TILES FOR CLASSROOM ETC.  
- 600x600MM WHITE HOMOGENEOUS TILES FOR CORRIDORS.  
- 600x600MM WHITE HOMOGENEOUS ROUGH NON SLIP TILES FOR WET AREA INCLUDING TERRACE FLOOR.  
FLOOR FINISH  
- INTERIOR WALLS WHITE SMOOTH PAINT FINISH  
- EXTERIOR WALLS WHITE ROUGH PAINT FINISH



**LEGEND**

D DUCT  
AD AC PIPE DUCT

**1ST FLOOR PLAN**

SCALE 1:100

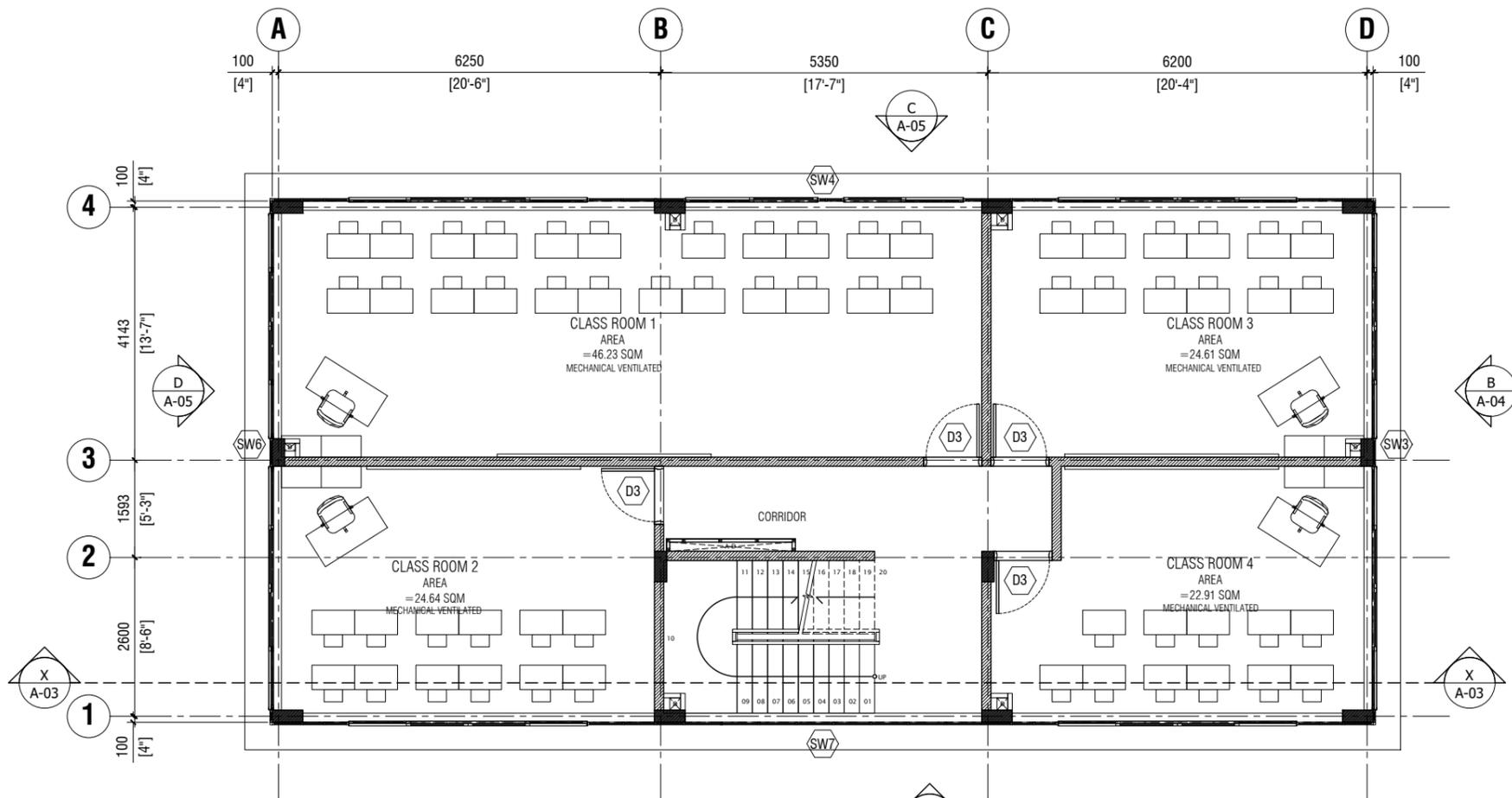
PROJECT: LAB BUILDING  
CLIENT: ---  
DATE: JAN 2018  
DO NOT SCALE THE DRAWING

ARCHITECTURAL DESIGN  
DRAFTED BY: - HUSSAIN AZEEM  
DESIGNED BY: - HUSSAIN ZIYATH

STRUCTURAL DESIGN  
DESIGNED BY: - ADAM SAANEEZ  
APPROVED BY: - SAMNOON FUAD

DWG NO:  
A - 01/ 15

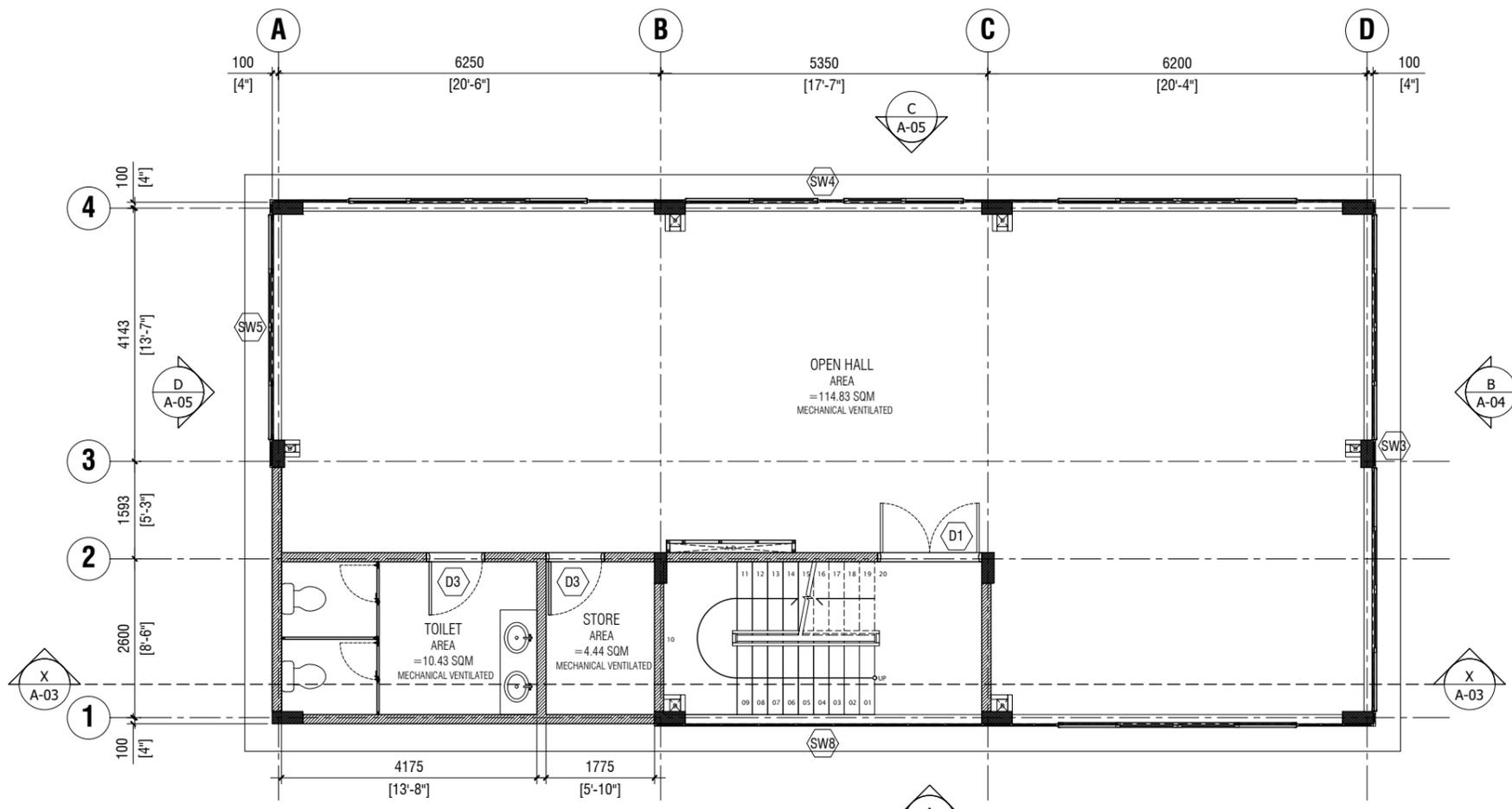




**LEGEND**  
 D DUCT  
 AD AC PIPE DUCT

**2ND FLOOR PLAN**  
 SCALE 1:100

**FINISHES:**  
**FLOOR FINISH**  
 - 600x600MM WHITE HOMOGENEOUS TILES FOR CLASSROOM ETC.  
 - 600x600MM WHITE HOMOGENEOUS TILES FOR CORRIDORS.  
 - 600x600MM WHITE HOMOGENEOUS ROUGH NON SLIP TILES FOR WET AREA INCLUDING TERRACE FLOOR.  
**FLOOR FINISH**  
 - INTERIOR WALLS WHITE SMOOTH PAINT FINISH  
 - EXTERIOR WALLS WHITE ROUGH PAINT FINISH



**LEGEND**  
 D DUCT  
 AD AC PIPE DUCT

**3RD FLOOR PLAN**  
 SCALE 1:100

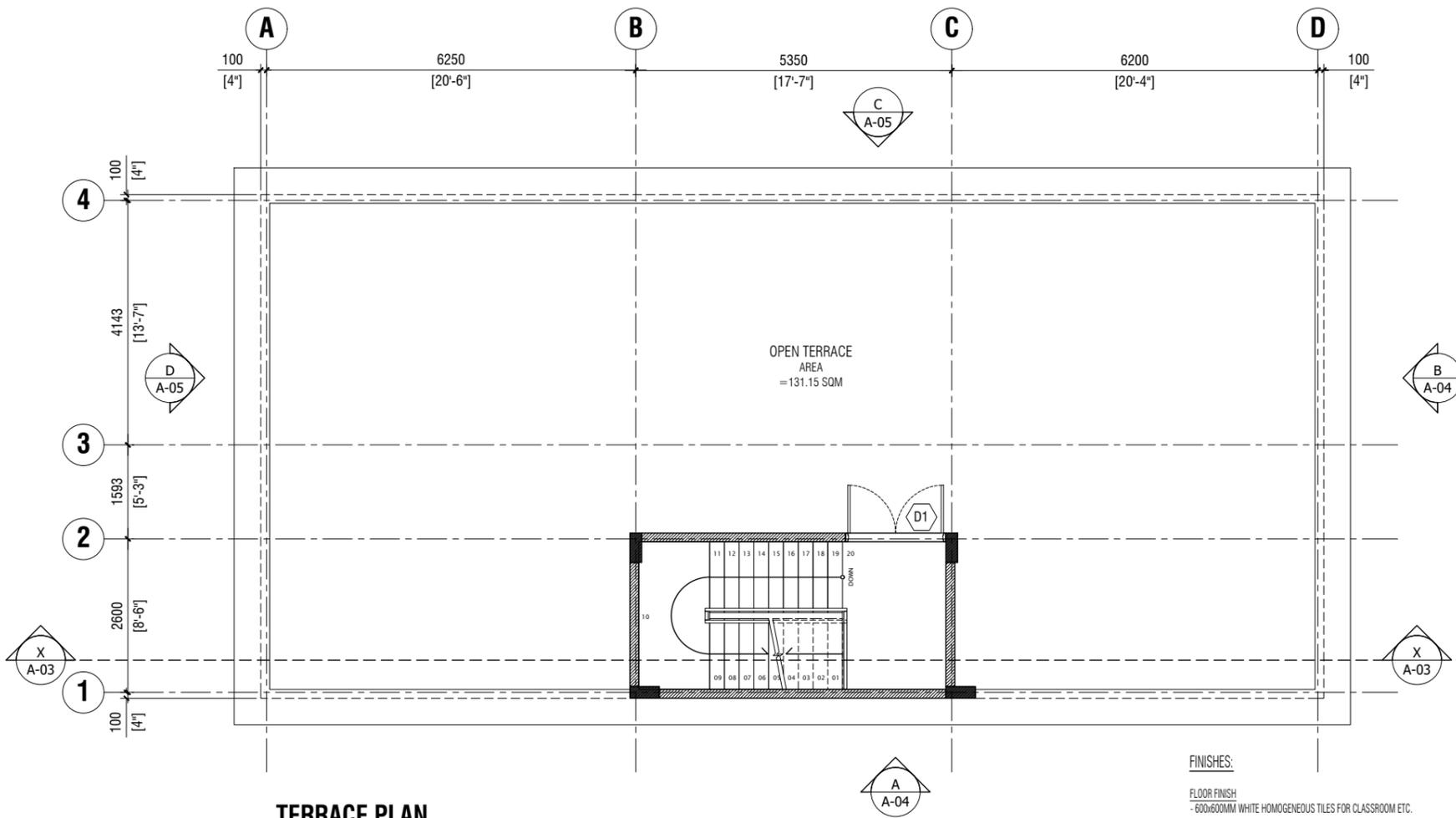
PROJECT: LAB BUILDING  
 CLIENT: ---  
 DATE: JAN 2018  
 DO NOT SCALE THE DRAWING

ARCHITECTURAL DESIGN  
 DRAFTED BY: - HUSSAIN AZEEM  
 DESIGNED BY: - HUSSAIN ZIYATH

STRUCTURAL DESIGN  
 DESIGNED BY: - ADAM SAANEZ  
 APPROVED BY: - SAMNOON FUAD

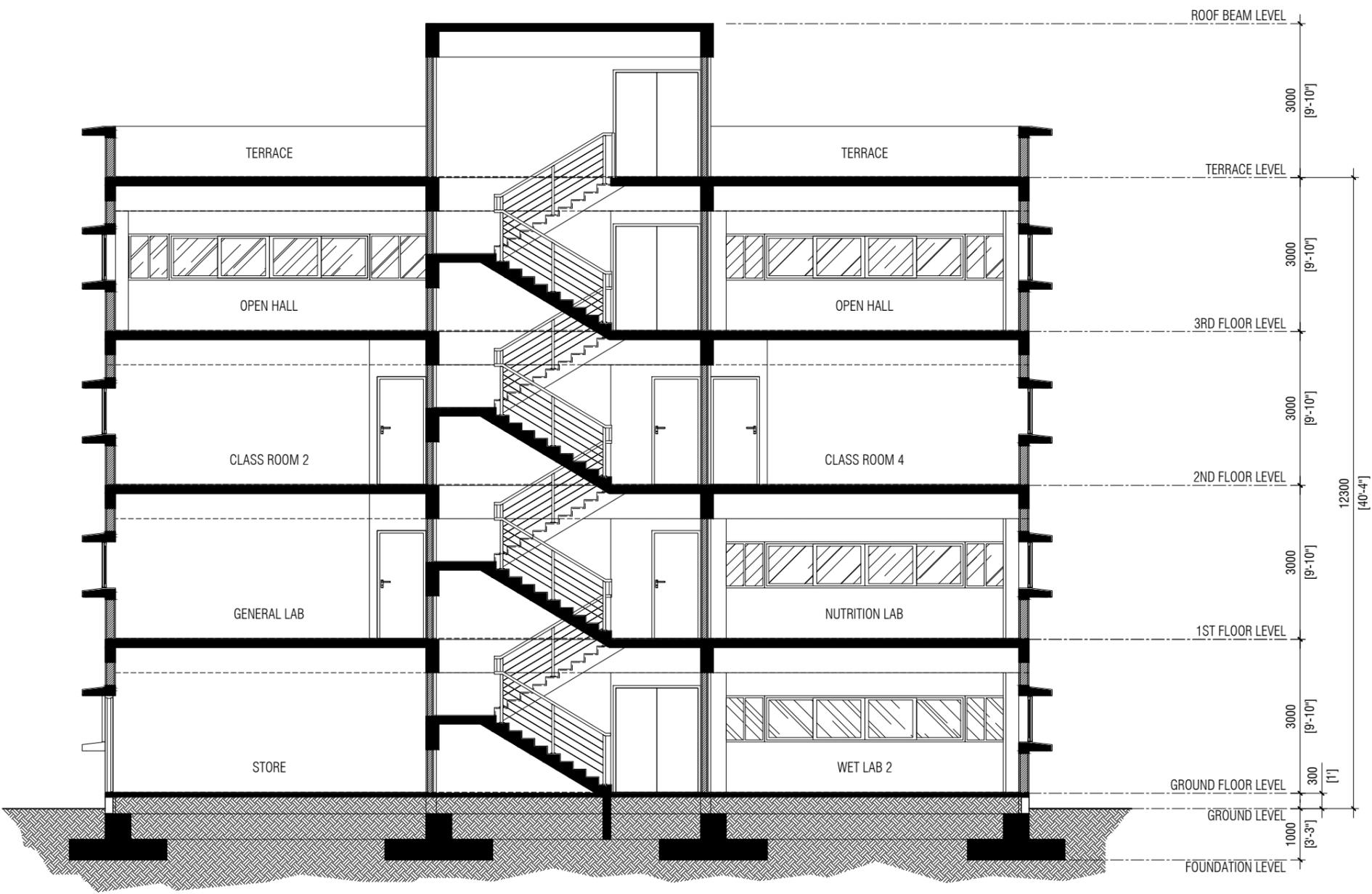
DWG NO:  
 A - 02/ 15





**TERRACE PLAN**  
SCALE 1:100

**FINISHES:**  
**FLOOR FINISH**  
 - 600x600MM WHITE HOMOGENEOUS TILES FOR CLASSROOM ETC.  
 - 600x600MM WHITE HOMOGENEOUS TILES FOR CORRIDORS.  
 - 600x600MM WHITE HOMOGENEOUS ROUGH NON SLIP TILES FOR WET AREA INCLUDING TERRACE FLOOR.  
**FLOOR FINISH**  
 - INTERIOR WALLS WHITE SMOOTH PAINT FINISH  
 - EXTERIOR WALLS WHITE ROUGH PAINT FINISH



**SECTION X-X**  
SCALE 1:100

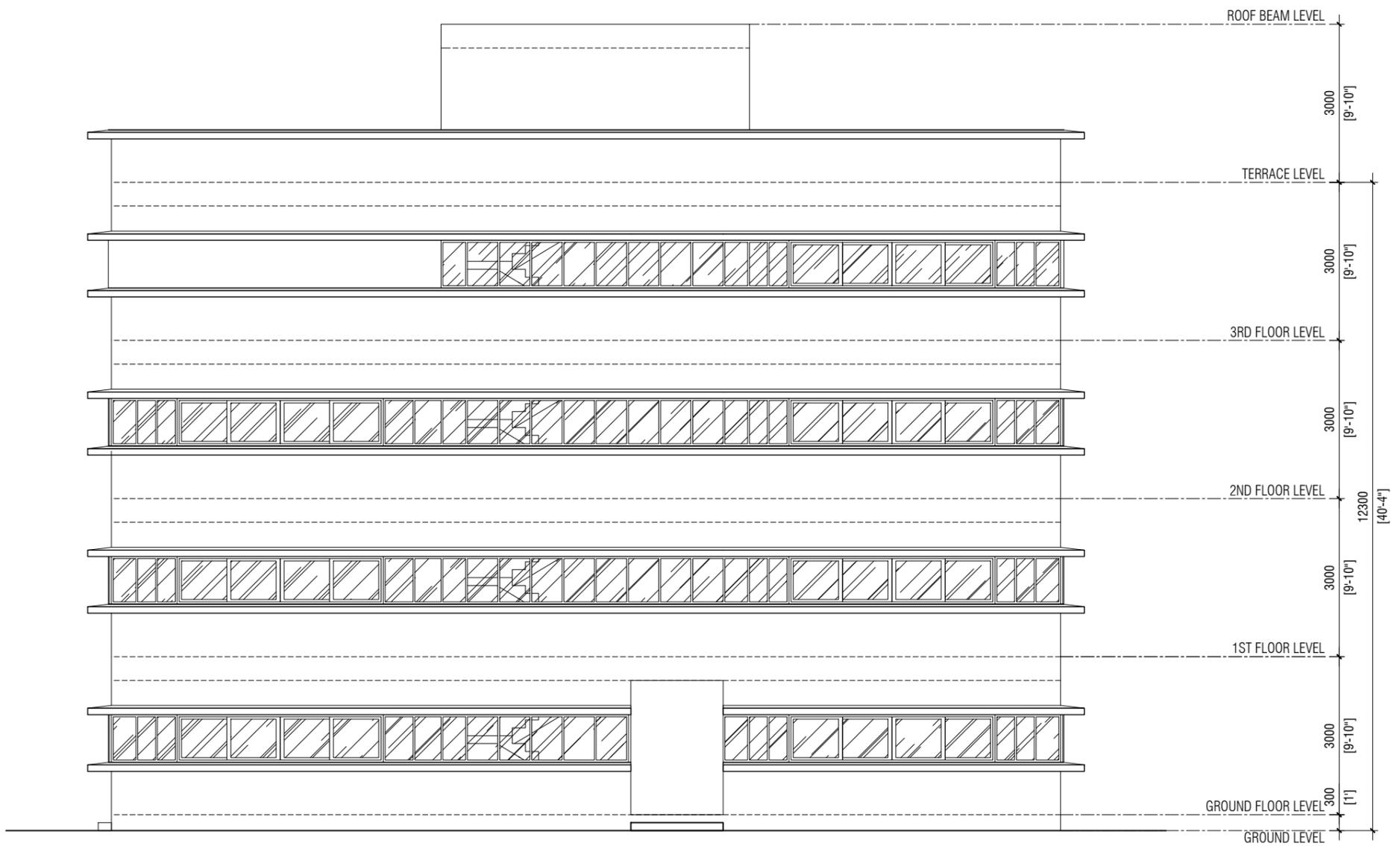
PROJECT: LAB BUILDING  
 CLIENT: ---  
 DATE: JAN 2018  
 DO NOT SCALE THE DRAWING

ARCHITECTURAL DESIGN  
 DRAFTED BY: - HUSSAIN AZEEM  
 DESIGNED BY: - HUSSAIN ZIYATH

STRUCTURAL DESIGN  
 DESIGNED BY: - ADAM SAANEEZ  
 APPROVED BY: - SAMNOON FUAD

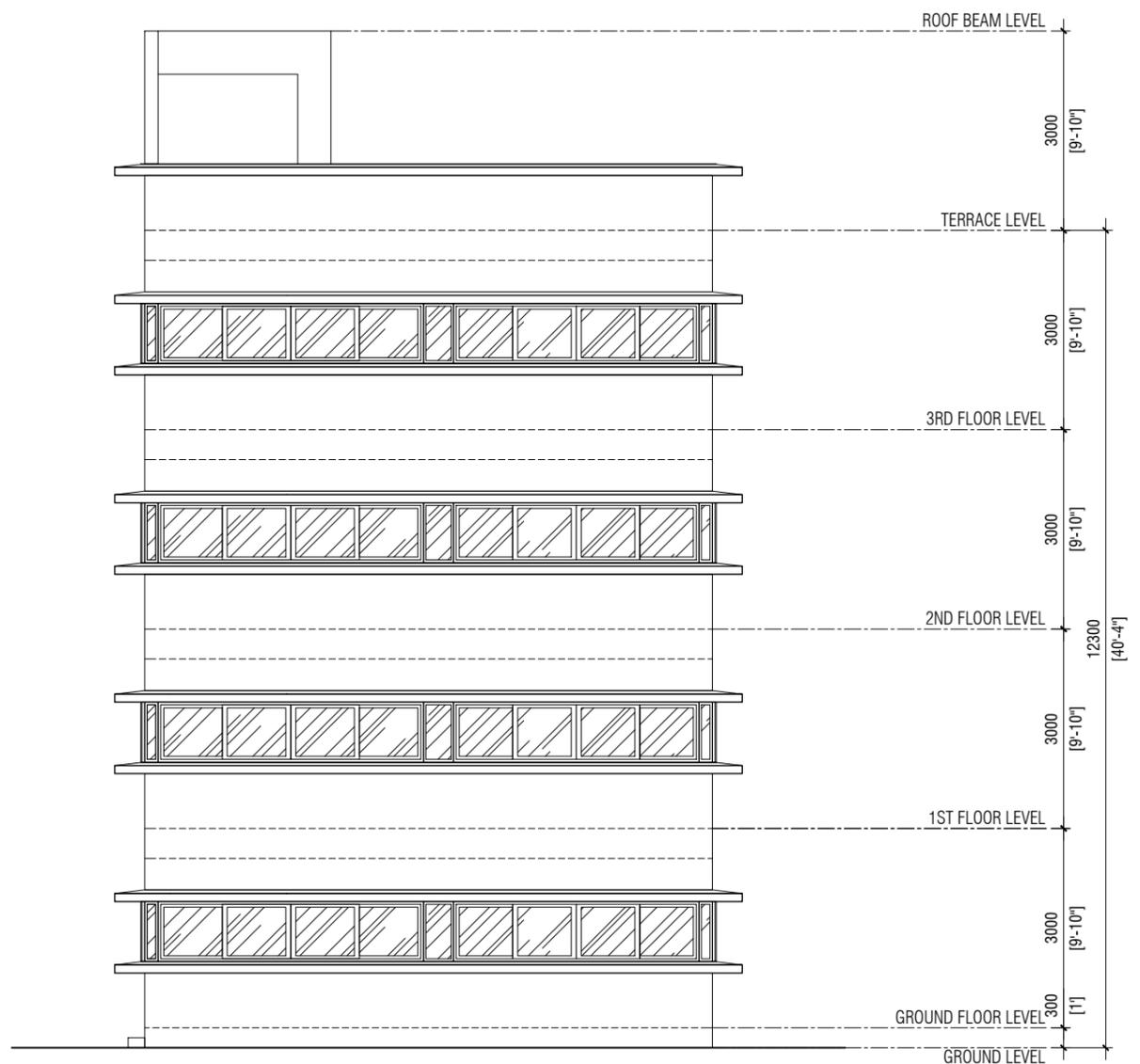
DWG NO:  
 A - 03/ 15





**ELEVATION A**

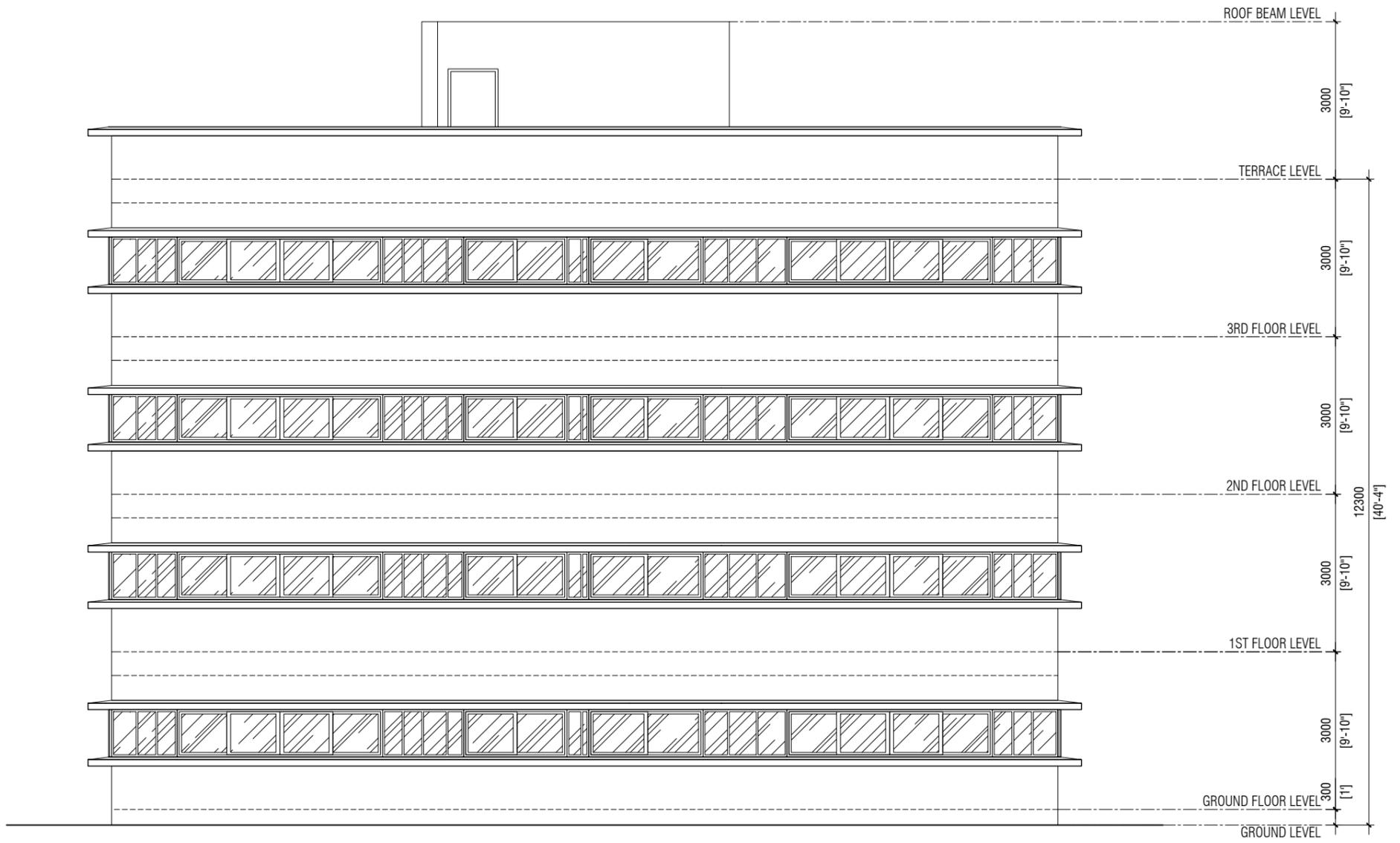
SCALE 1:100



**ELEVATION B**

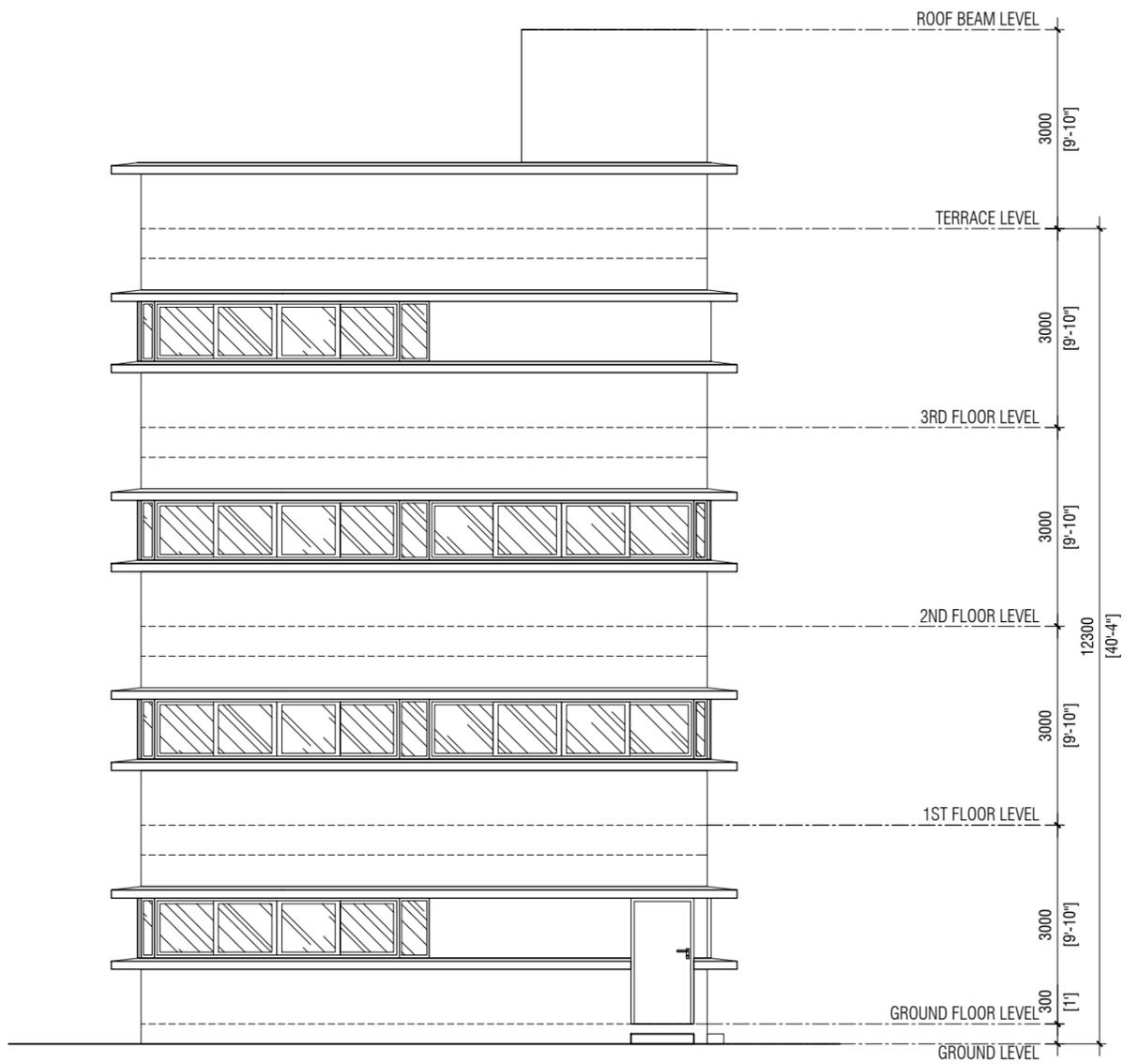
SCALE 1:100

PROJECT: LAB BUILDING	ARCHITECTURAL DESIGN	STRUCTURAL DESIGN	DWG NO:	
CLIENT: ---	DRAFTED BY: - HUSSAIN AZEEM	DESIGNED BY: - ADAM SAANEEZ	A - 04/ 15	
DATE: JAN 2018	DESIGNED BY: - HUSSAIN ZIYATH	APPROVED BY: - SAMNOON FUAD		
DO NOT SCALE THE DRAWING				



**ELEVATION C**

SCALE 1:100



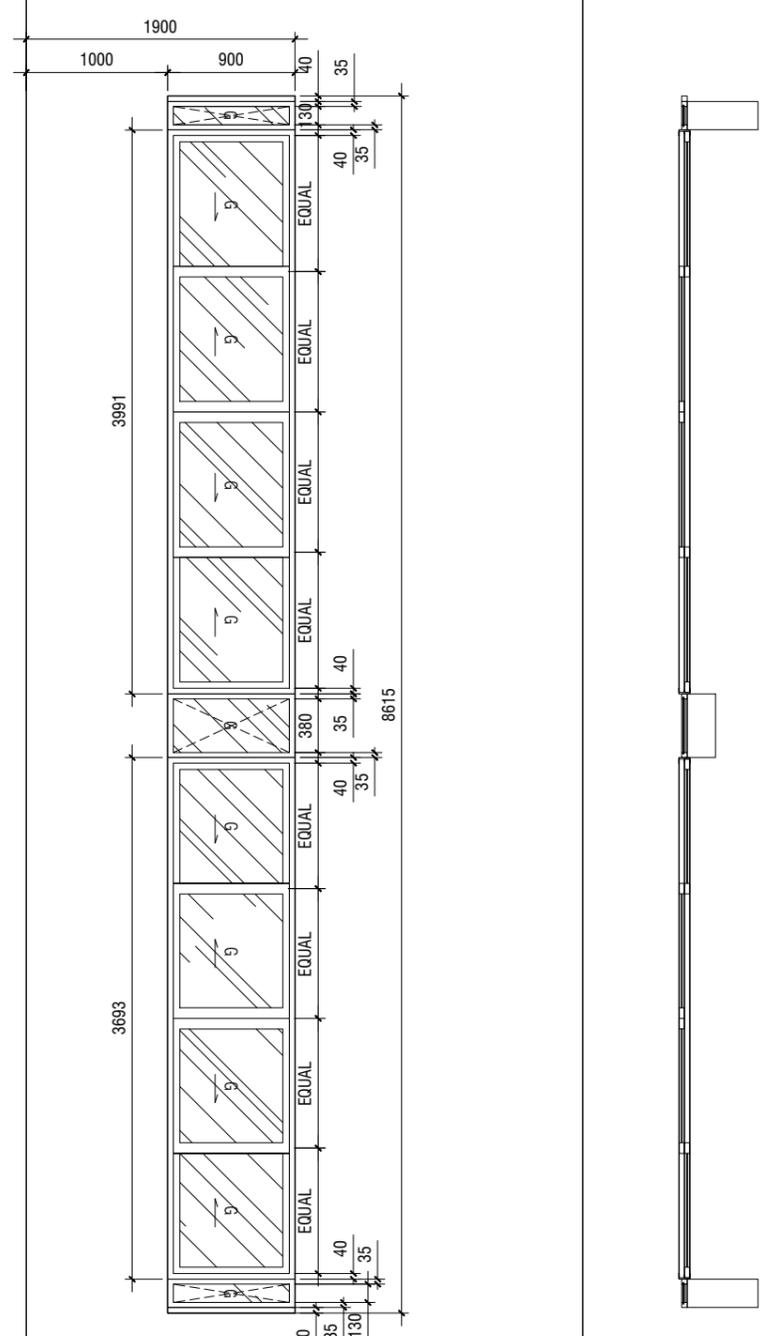
**ELEVATION D**

SCALE 1:100

PROJECT: LAB BUILDING	ARCHITECTURAL DESIGN	STRUCTURAL DESIGN	DWG NO:	
CLIENT: ---	DRAFTED BY: - HUSSAIN AZEEM	DESIGNED BY: - ADAM SAANEEZ	A - 05/ 15	
DATE: JAN 2018	DESIGNED BY: - HUSSAIN ZIYATH	APPROVED BY: - SAMNOON FUAD		
DO NOT SCALE THE DRAWING				





PLAN :	
ELEVATIONS :	
FINISH FLOOR LEVEL	
DR / W/D NO.	SWS3
DESCRIPTION :	ALUMINIUM FRAME SLIDING WINDOW PANELS
FRAME :	80 MICRON WHITE POWDER COATED ALUMINIUM FRAME
GLAZING :	6MM THICK HEAT REFLECTIVE GLASS
VEN. AREA :	3.25 SQ.M

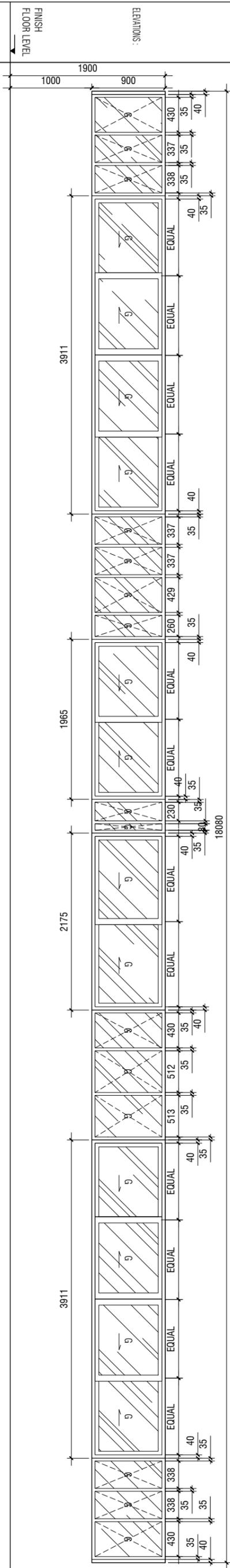
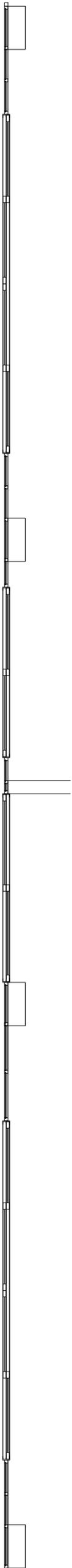
KEY  
 G - GLASS  
 T - TIMBER  
 FAL - FIXED ALUMINIUM LOUVERS  
 FG - FIXED GLASS

**DOOR WINDOW SCHEDULE 2**

SCALE 1:50

PROJECT: LAB BUILDING	ARCHITECTURAL DESIGN	STRUCTURAL DESIGN	DWG NO:	
CLIENT: ---	DRAFTED BY: - HUSSAIN AZEEM	DESIGNED BY: - ADAM SAANEEZ	A - 08/ 15	
DATE: JAN 2018	DESIGNED BY: - HUSSAIN ZIYATH	APPROVED BY: - SAMNOON FUAD		
DO NOT SCALE THE DRAWING				

PLAN:



DR / WD NO. :	SW4
DESCRIPTION :	ALUMINIUM FRAME SLIDING WINDOW PANELS
FRAME :	80 MICRON WHITE POWDER COATED ALUMINIUM FRAME
GLAZING :	6MM THICK HEAT REFLECTIVE GLASS
VEN. AREA :	5.00 SQ.M

KEY  
 G - GLASS  
 T - TIMBER  
 FAL - FIXED ALUMINIUM LOUVERS  
 FG - FIXED GLASS

**DOOR WINDOW SCHEDULE 3**

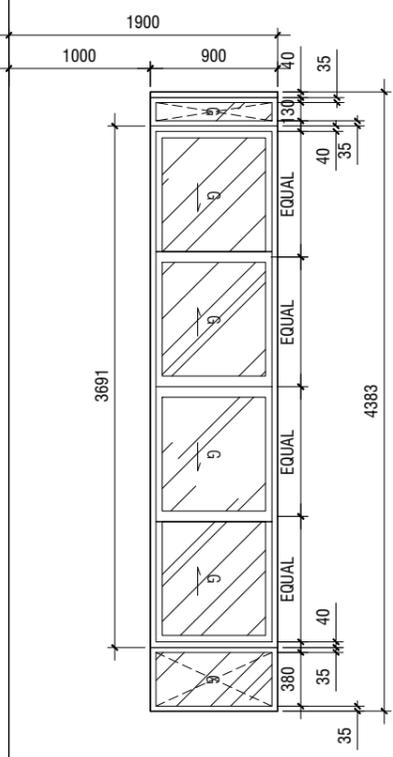
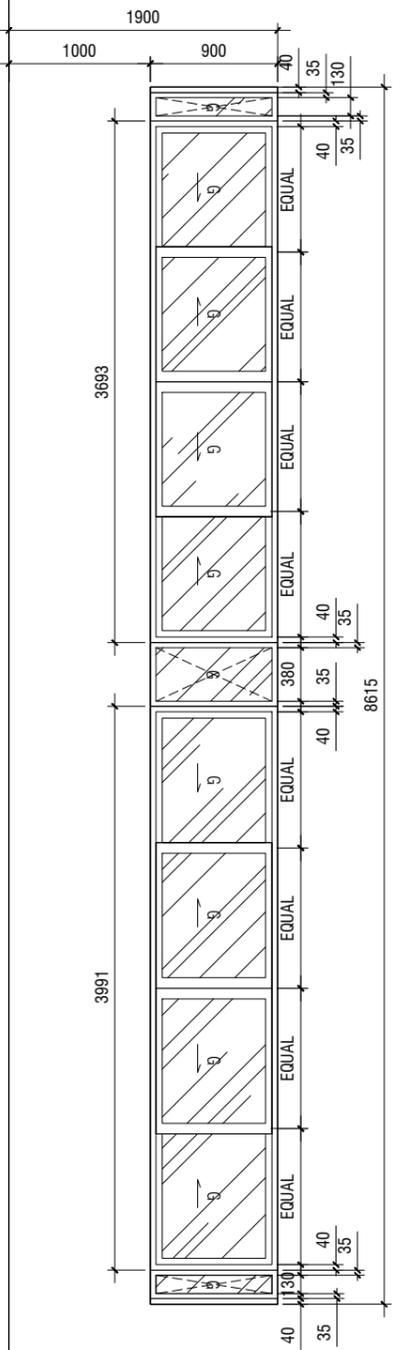
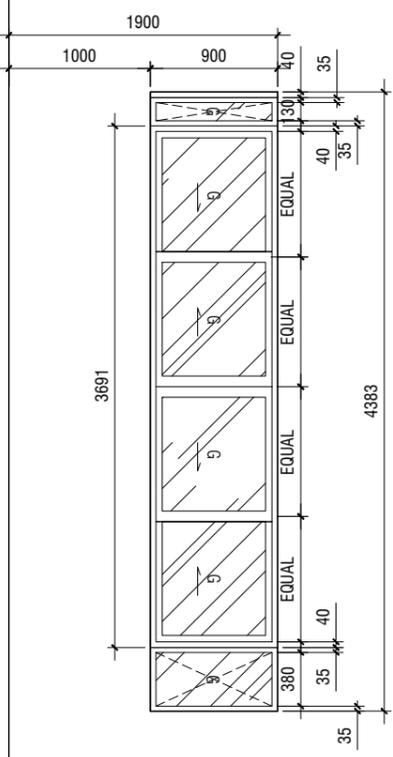
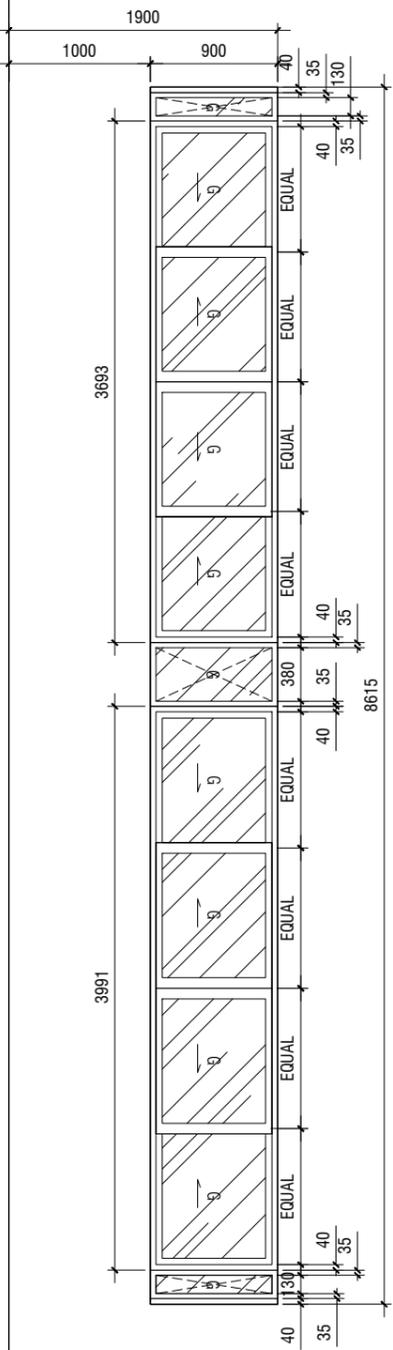
SCALE 1:50

PROJECT: LAB BUILDING	ARCHITECTURAL DESIGN
CLIENT: ---	DRAFTED BY: - HUSSAIN AZEEM
DATE: JAN 2018	DESIGNED BY: - HUSSAIN ZIYATH
DO NOT SCALE THE DRAWING	

STRUCTURAL DESIGN
DESIGNED BY: - ADAM SAANEEZ
APPROVED BY: - SAMNOON FUAD

DWG NO:  
**A - 09/ 15**



<p>PLAN:</p> 	
<p>ELEVATIONS:</p> <p>FINISH FLOOR LEVEL</p> 	
<p>DR / WID NO.:</p>	<p>SW5</p>
<p>DESCRIPTION:</p>	<p>ALUMINIUM FRAME SLIDING WINDOW PANELS</p>
<p>FRAME:</p>	<p>80 MICRON WHITE POWDER COATED ALUMINIUM FRAME</p>
<p>GLAZING:</p>	<p>6MM THICK HEAT REFLECTIVE GLASS</p>
<p>VEN. AREA:</p>	<p>3.25 SQ.M</p>

KEY  
 G - GLASS  
 T - TIMBER  
 FAL - FIXED ALUMINIUM LOUVERS  
 FG - FIXED GLASS

**DOOR WINDOW SCHEDULE 4**

SCALE 1:50

PROJECT: LAB BUILDING	ARCHITECTURAL DESIGN	STRUCTURAL DESIGN
CLIENT: ---	DRAFTED BY: - HUSSAIN AZEEM	DESIGNED BY: - ADAM SAANEEZ
DATE: JAN 2018	DESIGNED BY: - HUSSAIN ZIYATH	APPROVED BY: - SAMNOON FUAD
DO NOT SCALE THE DRAWING		

DWG NO:  
**A - 10/ 15**



PLAN:	
ELEVATIONS:	
FINISH FLOOR LEVEL	
DR / WD NO.	8WS
DESCRIPTION:	ALUMINIUM FRAME SLIDING WINDOW PANELS
FRAME:	80 MICRON WHITE POWDER COATED ALUMINIUM FRAME
GLAZING:	6MM THICK HEAT REFLECTIVE GLASS
VEN. AREA:	1.66 SQ.M

**DOOR WINDOW SCHEDULE 5**  
SCALE 1:30

KEY  
G - GLASS  
T - TIMBER  
FAL - FIXED ALUMINIUM LOUVERS  
FG - FIXED GLASS

PROJECT: LAB BUILDING  
CLIENT: ---  
DATE: JAN 2018  
DO NOT SCALE THE DRAWING

ARCHITECTURAL DESIGN  
DRAFTED BY: - HUSSAIN AZEEM  
DESIGNED BY: - HUSSAIN ZIYATH

STRUCTURAL DESIGN  
DESIGNED BY: - ADAM SAANEEZ  
APPROVED BY: - SAMNOON FUAD

DWG NO:  
A - 12/ 15



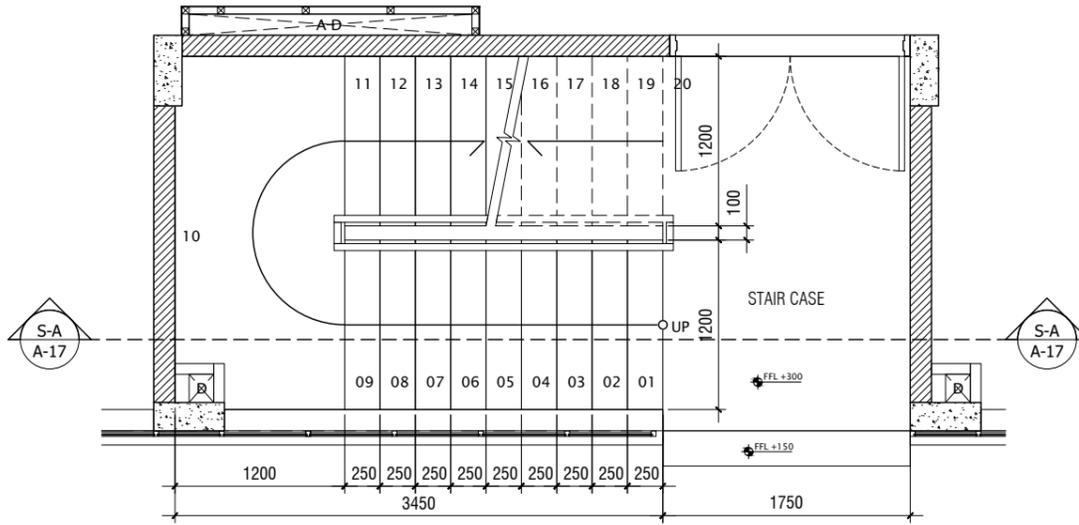


## SCHEDULE OF VENTILATION

ROOM NAME	ROOM AREAS (SQM)	WINDOW ( OPENING) NUMBER	REQUIRED OPENING AREA (SQM)	DESIGNED OPENING AREA (SQM)
<b>GROUND FLOOR</b>				
WET LAB 1	48.29 SQ.M	MECHANICAL VENTILATION	4.83 SQ.M	MECHANICAL VENTILATION
WET LAB 2	64.79 SQ.M	MECHANICAL VENTILATION	6.48 SQ.M	MECHANICAL VENTILATION
STORE	15.24 SQ.M	MECHANICAL VENTILATION	1.52 SQ.M	MECHANICAL VENTILATION
<b>1ST FLOOR</b>				
NUTRITION LAB	50.23 SQ.M	MECHANICAL VENTILATION	5.02 SQ.M	MECHANICAL VENTILATION
WATER QUALITY LAB	21.02 SQ.M	MECHANICAL VENTILATION	2.20 SQ.M	MECHANICAL VENTILATION
HITOPATHOLOGY LAB	24.66 SQ.M	MECHANICAL VENTILATION	2.46 SQ.M	MECHANICAL VENTILATION
GENERAL LAB	22.96 SQ.M	MECHANICAL VENTILATION	2.29 SQ.M	MECHANICAL VENTILATION
<b>2ND FLOOR</b>				
CLASS ROOM 1	46.23 SQ.M	MECHANICAL VENTILATION	4.62 SQ.M	MECHANICAL VENTILATION
CLASS ROOM 2	24.64 SQ.M	MECHANICAL VENTILATION	2.46 SQ.M	MECHANICAL VENTILATION
CLASS ROOM 3	24.61 SQ.M	MECHANICAL VENTILATION	2.46 SQ.M	MECHANICAL VENTILATION
CLASS ROOM 4	22.91 SQ.M	MECHANICAL VENTILATION	2.29 SQ.M	MECHANICAL VENTILATION
<b>3RD FLOOR</b>				
OPEN HALL	114.83 SQ.M	MECHANICAL VENTILATION	11.48 SQ.M	MECHANICAL VENTILATION
STORE	4.44 SQ.M	MECHANICAL VENTILATION	0.44 SQ.M	MECHANICAL VENTILATION
TOILET	10.43 SQ.M	MECHANICAL VENTILATION	1.04 SQ.M	MECHANICAL VENTILATION

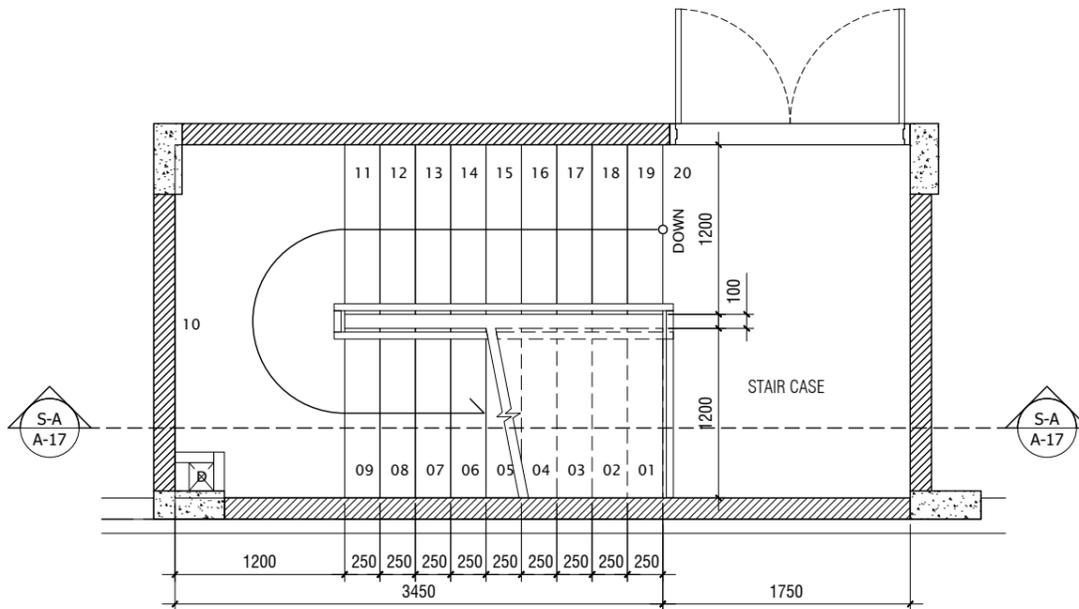
## VENTILATION OF SCHEDULE

SCALE 1:50



### STAIR CASE FROM GROUND FLOOR TO 3RD FLOOR PLAN

SCALE 1:50



### STAIR CASE FROM TERRACE FLOOR TO 3RD FLOOR PLAN

SCALE 1:50

PROJECT: LAB BUILDING

CLIENT: ---

DATE: JAN 2018

DO NOT SCALE THE DRAWING

ARCHITECTURAL DESIGN

DRAFTED BY: - HUSSAIN AZEEM

DESIGNED BY: - HUSSAIN ZIYATH

STRUCTURAL DESIGN

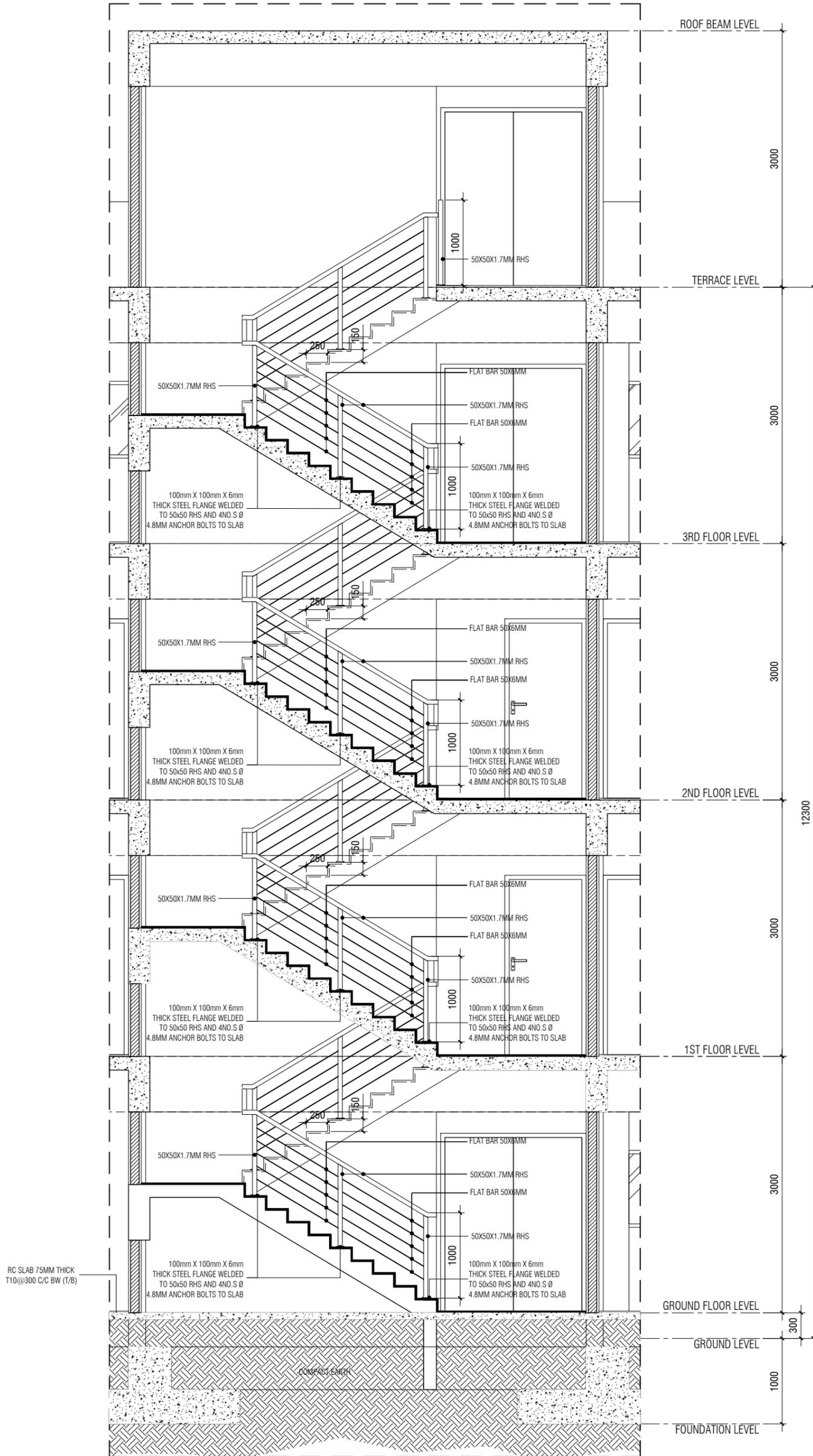
DESIGNED BY: - ADAM SAANEZ

APPROVED BY: - SAMNOON FUAD

DWG NO:

A - 13/ 15

**CHARRETTE**  
STUDIO

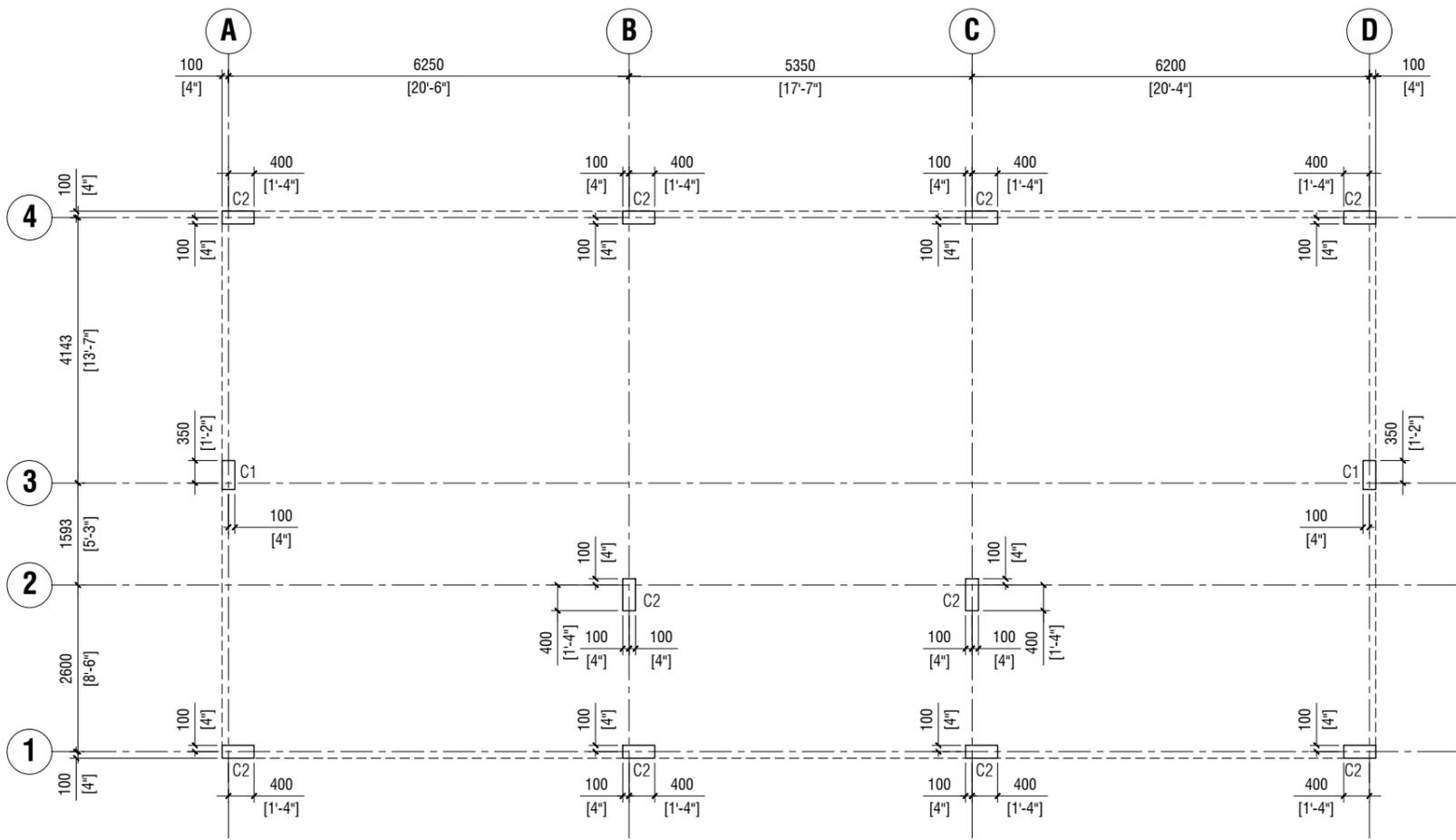


**SECTION A-A**

SCALE 1:50

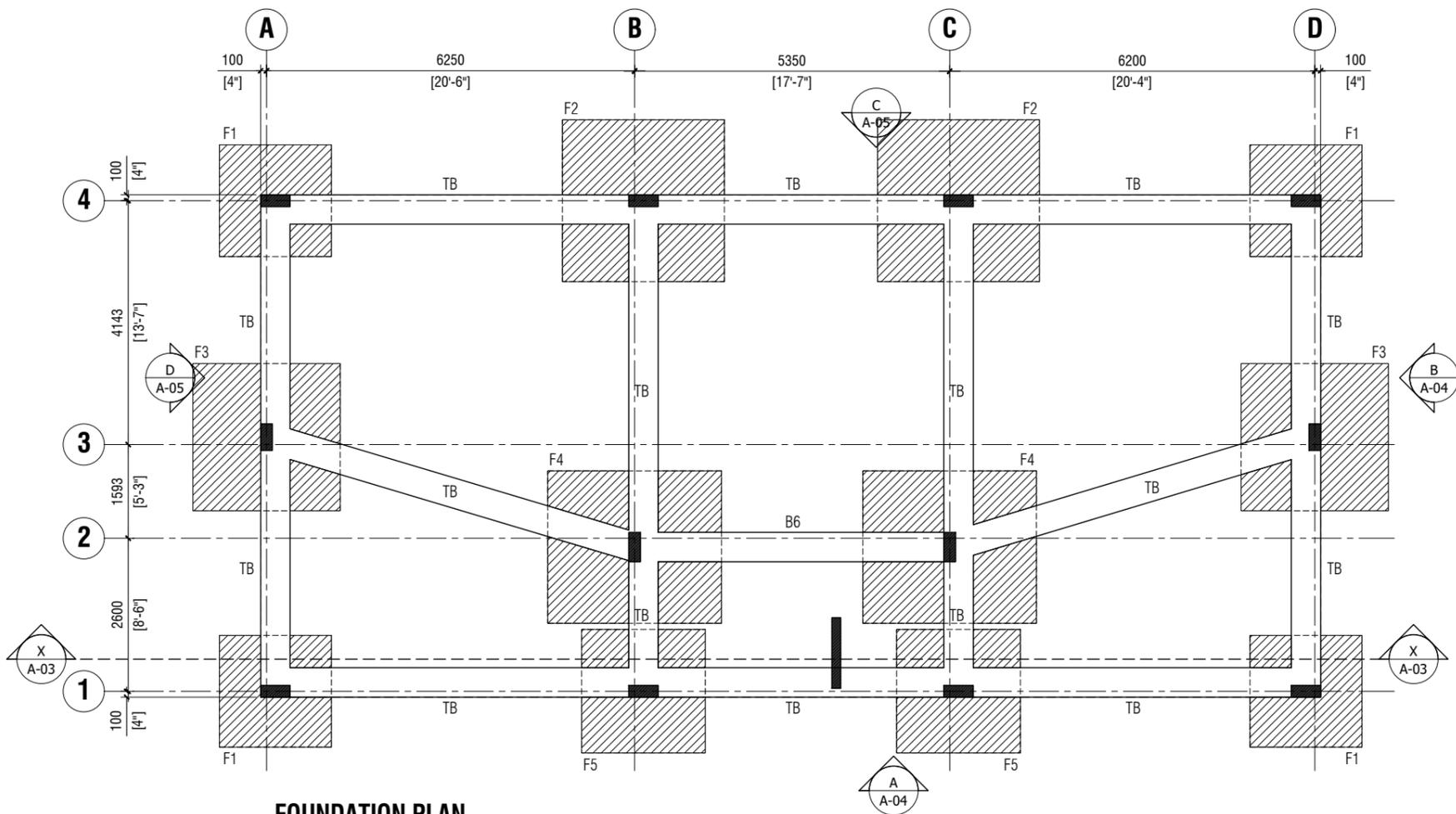
PROJECT: LAB BUILDING	ARCHITECTURAL DESIGN	STRUCTURAL DESIGN	DWG NO:
CLIENT: ---	DRAFTED BY: - HUSSAIN AZEEM	DESIGNED BY: - ADAM SAANEZ	A - 14/ 15
DATE: JAN 2018	DESIGNED BY: - HUSSAIN ZIYATH	APPROVED BY: - SAMNOON FUAD	
DO NOT SCALE THE DRAWING			





**COLUMN SETTING PLAN**

SCALE 1:100



**FOUNDATION PLAN**

SCALE 1:100

PROJECT: LAB BUILDING

CLIENT: ---

DATE: JAN 2018

DO NOT SCALE THE DRAWING

ARCHITECTURAL DESIGN

DRAFTED BY: - HUSSAIN AZEEM

DESIGNED BY: - HUSSAIN ZIYATH

STRUCTURAL DESIGN

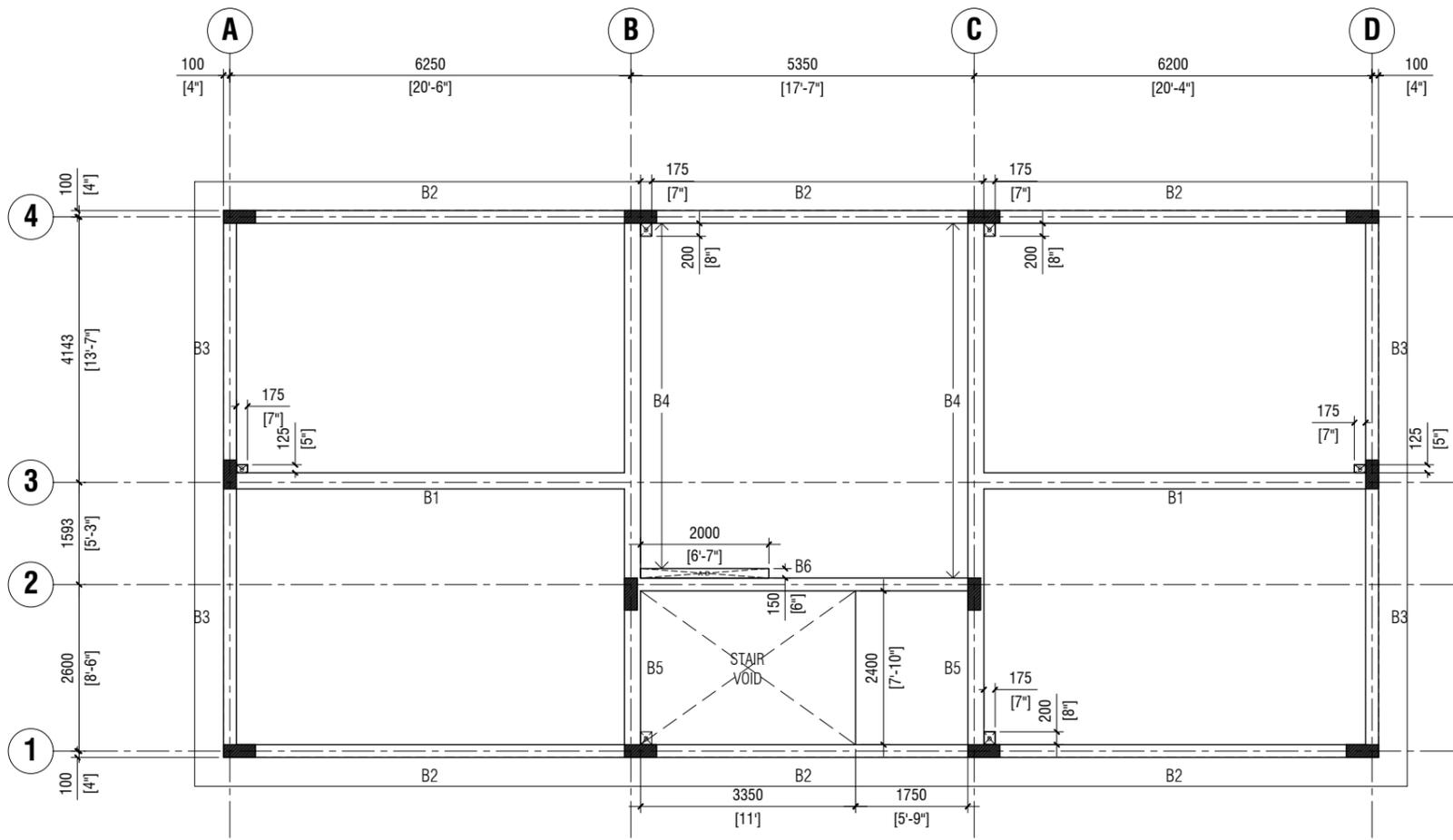
DESIGNED BY: - ADAM SAANEEZ

APPROVED BY: - SAMNOON FUAD

DWG NO:

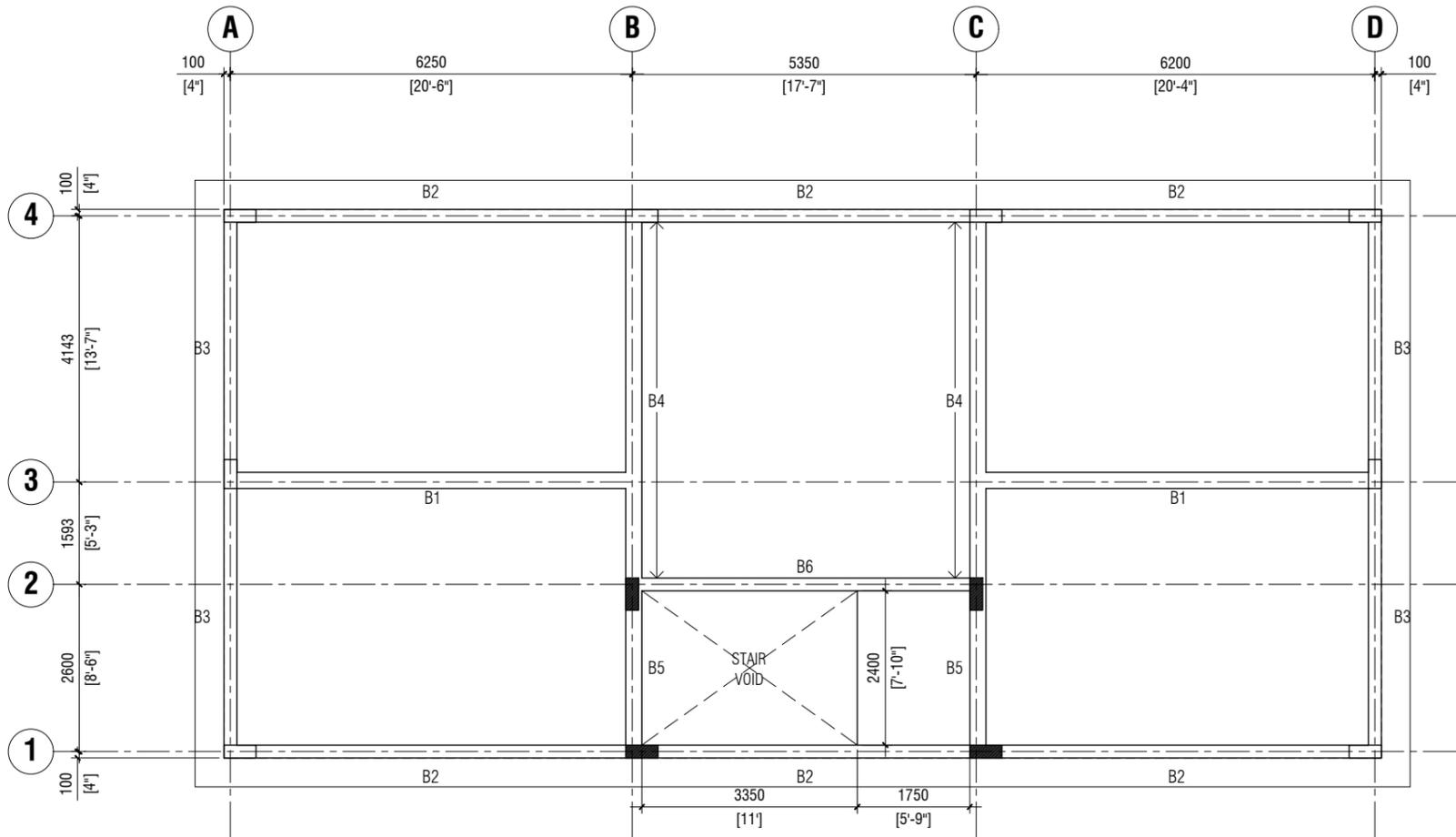
S - 01/05

**CHARRETTE**  
STUDIO



LEGEND  
 D DUCT  
 AD AC PIPE DUCT

**1ST TO 3RD FLOOR BEAM PLAN**  
 SCALE 1:100



LEGEND  
 D DUCT  
 AD AC PIPE DUCT

**TERRACE PLAN**  
 SCALE 1:100

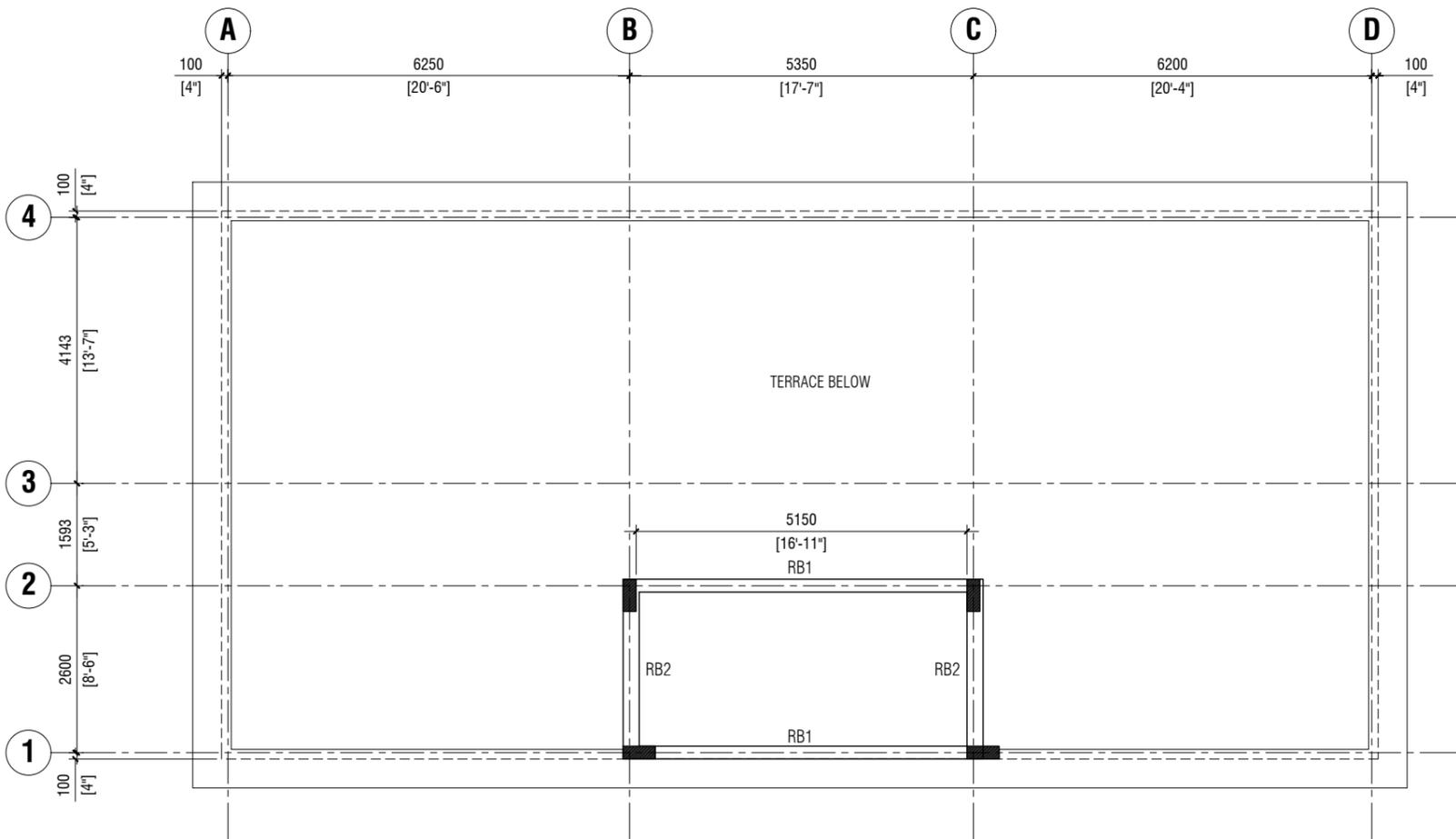
PROJECT: LAB BUILDING  
 CLIENT: ---  
 DATE: JAN 2018  
 DO NOT SCALE THE DRAWING

ARCHITECTURAL DESIGN  
 DRAFTED BY: - HUSSAIN AZEEM  
 DESIGNED BY: - HUSSAIN ZIYATH

STRUCTURAL DESIGN  
 DESIGNED BY: - ADAM SAANEZ  
 APPROVED BY: - SAMNOON FUAD

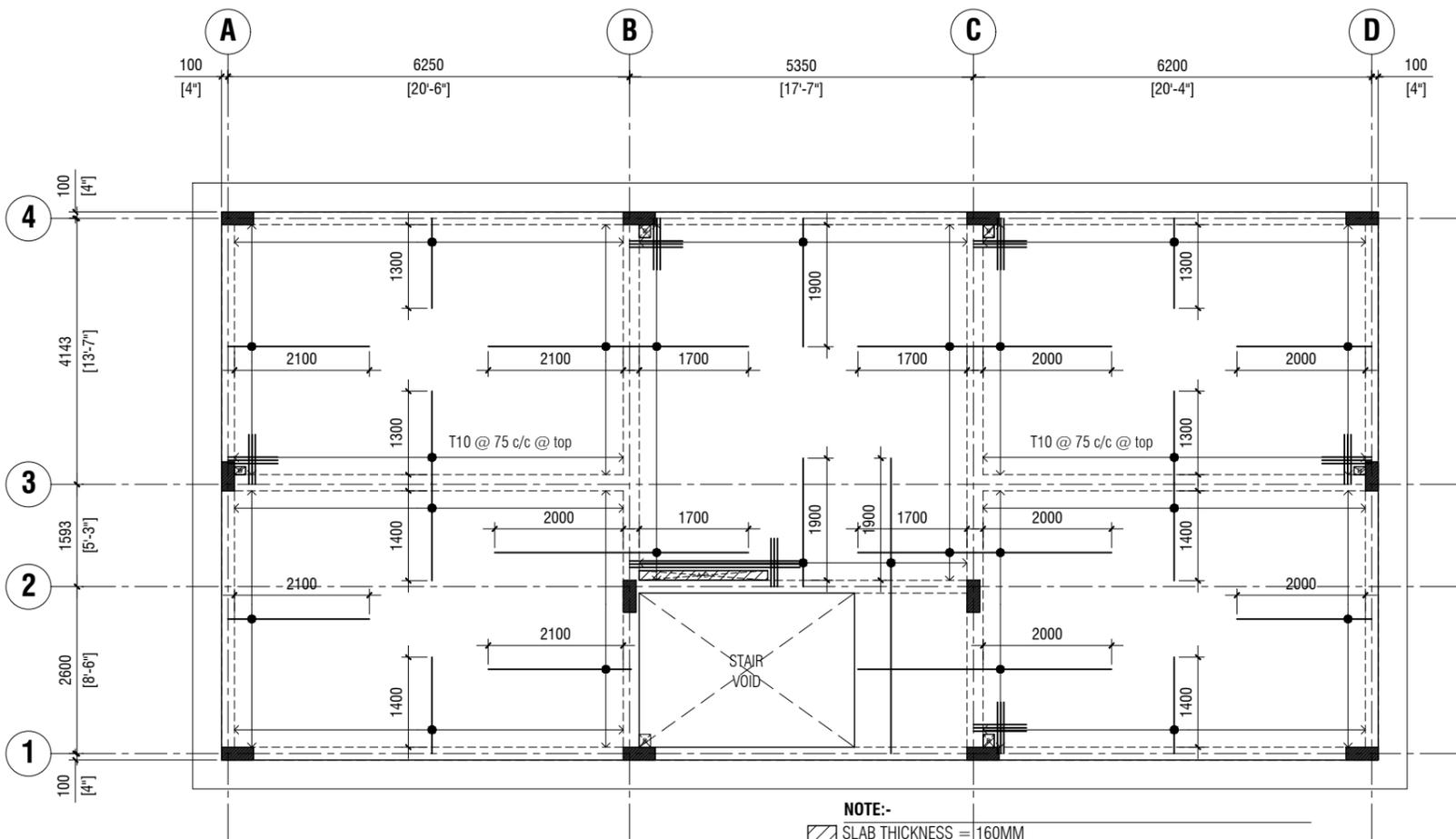
DWG NO:  
 S - 02/ 05





**ROOF BEAM PLAN**

SCALE 1:100



**LEGEND**

D DUCT  
AD AC PIPE DUCT

**1ST TO 3RD FLOOR SLAB REINFORCEMENT PLAN**

SCALE 1:100

**NOTE:-**

- ▨ SLAB THICKNESS = 160MM
- ▨ SLAB THICKNESS = 130MM
- TOP RFMNT = T10 @ 150 C/C BW AS SHOWN UNLESS SPECIFIED
- BOTTOM RFMNT = T10 @ 150 C/C BW (NOT SHOWN)
- TOP DISTRIBUTION BARS = T10 @ 150 C/C BW (NOT SHOWN)
- PROVIDE EXTRA REINFORCEMENT AS SHOWN
- REINFORCEMENT BARS WILL BE DISCONTINUOUS OVER VOIDS .
- FOLLOW STANDARD REINFORCEMENT DETAILS FOR ALL OPENINGS
- ALL MAIN BARS SHALL HAVE BENDS UP OR DOWN EQUAL TO 12Ø FROM FACE OF SUPPORT

PROJECT: LAB BUILDING

CLIENT: ---

DATE: JAN 2018

DO NOT SCALE THE DRAWING

ARCHITECTURAL DESIGN

DRAFTED BY: - HUSSAIN AZEEM

DESIGNED BY: - HUSSAIN ZIYATH

STRUCTURAL DESIGN

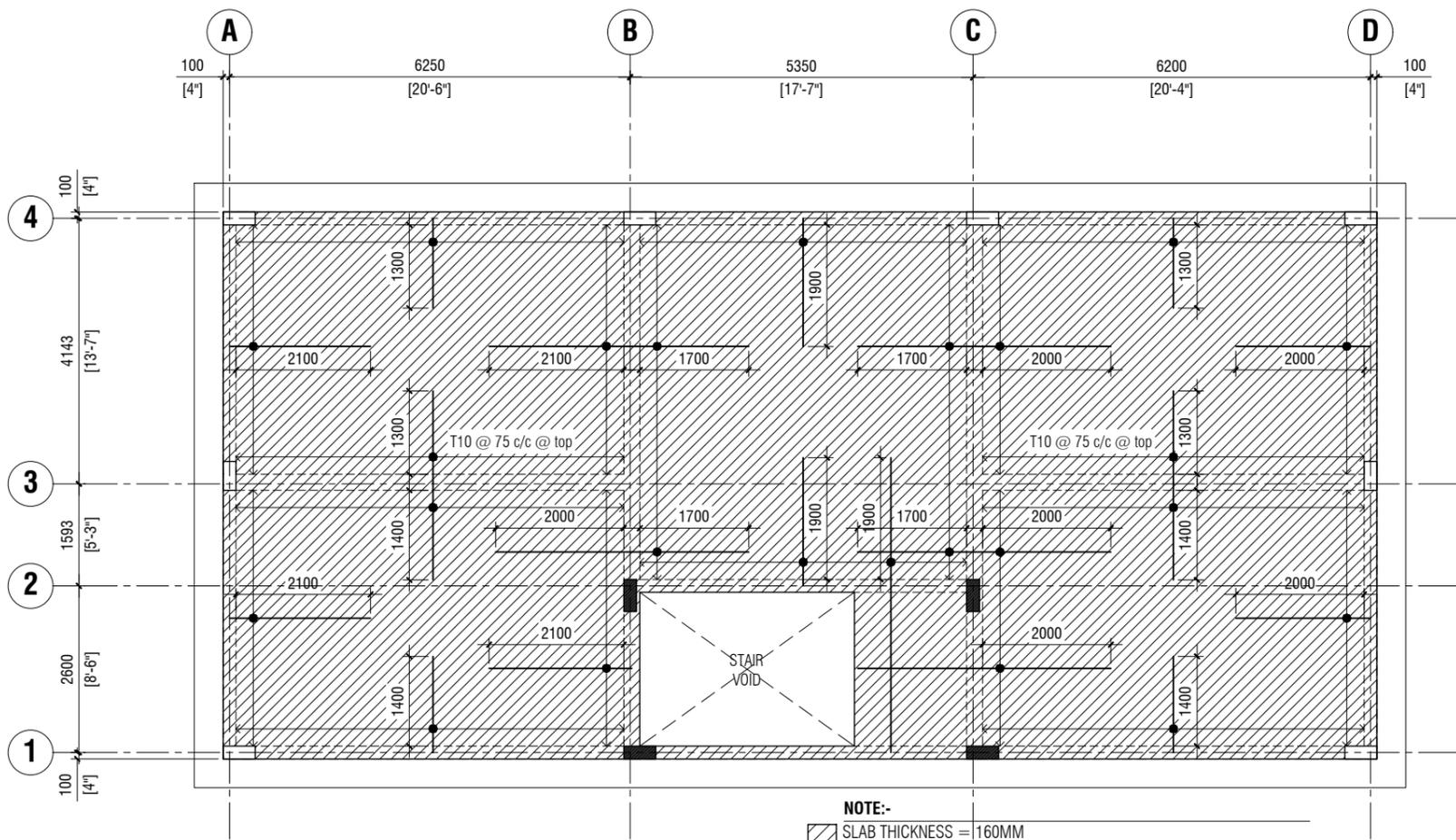
DESIGNED BY: - ADAM SAANEEZ

APPROVED BY: - SAMNOON FUAD

DWG NO:

S - 03/ 05

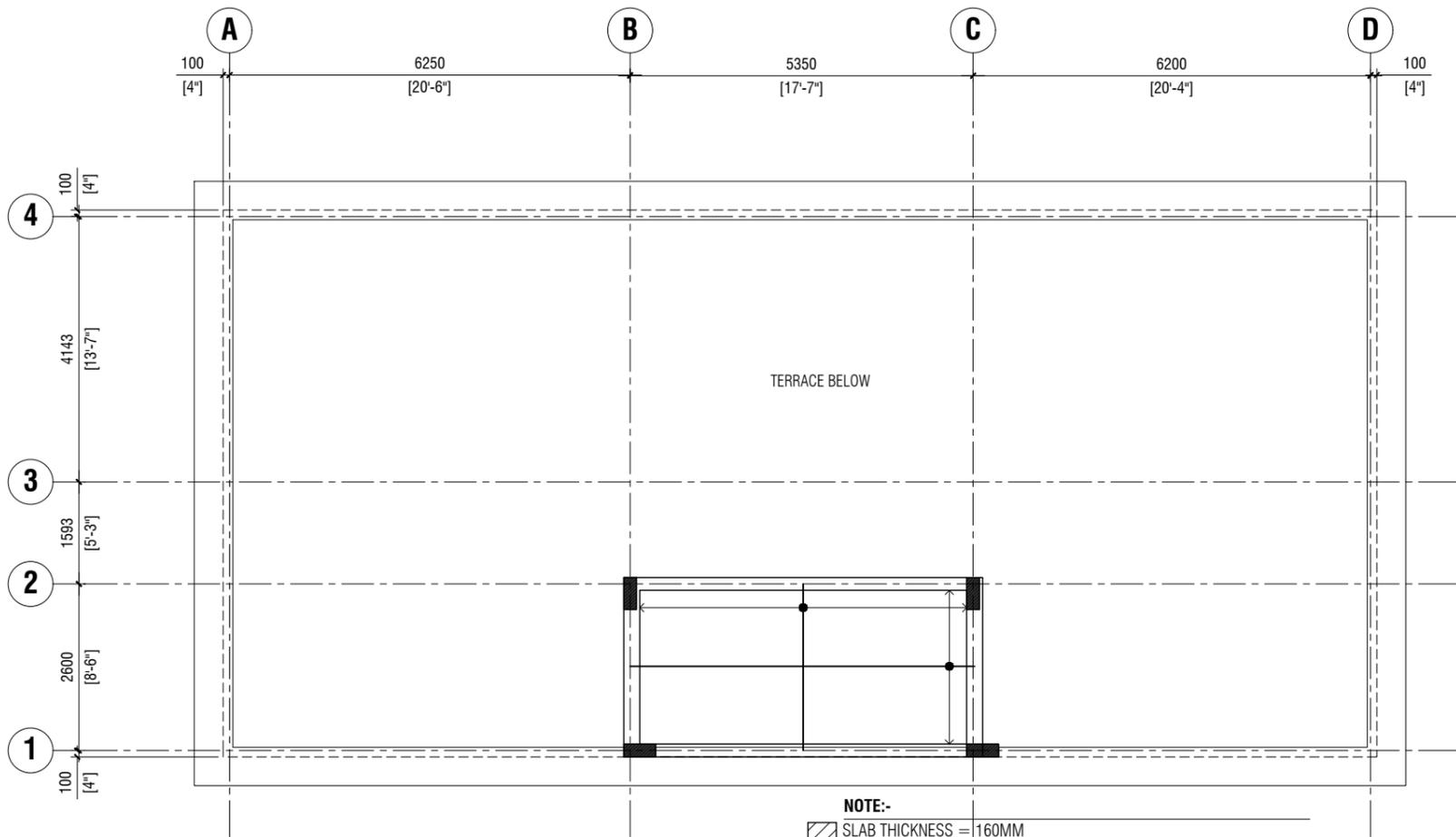
**CHARRETTE**  
STUDIO



**LEGEND**  
 D DUCT  
 AD AC PIPE DUCT

**TERRACE SLAB REINFORCEMENT PLAN**  
 SCALE 1:100

**NOTE:-**  
 ▨ SLAB THICKNESS = 160MM  
 SLAB THICKNESS = 130MM  
 TOP RFMNT = T10 @ 150 C/C BW AS SHOWN UNLESS SPECIFIED  
 BOTTOM RFMNT = T10 @ 150 C/C BW (NOT SHOWN)  
 TOP DISTRIBUTION BARS = T10 @ 150 C/C BW (NOT SHOWN)  
 PROVIDE EXTRA REINFORCEMENT AS SHOWN  
 REINFORCEMENT BARS WILL BE DISCONTINUOUS OVER VOIDS .  
 FOLLOW STANDARD REINFORCEMENT DETAILS FOR ALL OPENINGS  
 ALL MAIN BARS SHALL HAVE BENDS UP OR DOWN EQUAL TO 12Ø FROM FACE OF SUPPORT



**ROOF SLAB REINFORCEMENT PLAN**  
 SCALE 1:100

**NOTE:-**  
 ▨ SLAB THICKNESS = 160MM  
 SLAB THICKNESS = 130MM  
 TOP RFMNT = T10 @ 150 C/C BW AS SHOWN UNLESS SPECIFIED  
 BOTTOM RFMNT = T10 @ 150 C/C BW (NOT SHOWN)  
 TOP DISTRIBUTION BARS = T10 @ 150 C/C BW (NOT SHOWN)  
 PROVIDE EXTRA REINFORCEMENT AS SHOWN  
 REINFORCEMENT BARS WILL BE DISCONTINUOUS OVER VOIDS .  
 FOLLOW STANDARD REINFORCEMENT DETAILS FOR ALL OPENINGS  
 ALL MAIN BARS SHALL HAVE BENDS UP OR DOWN EQUAL TO 12Ø FROM FACE OF SUPPORT

PROJECT: LAB BUILDING  
 CLIENT: ---  
 DATE: JAN 2018  
 DO NOT SCALE THE DRAWING

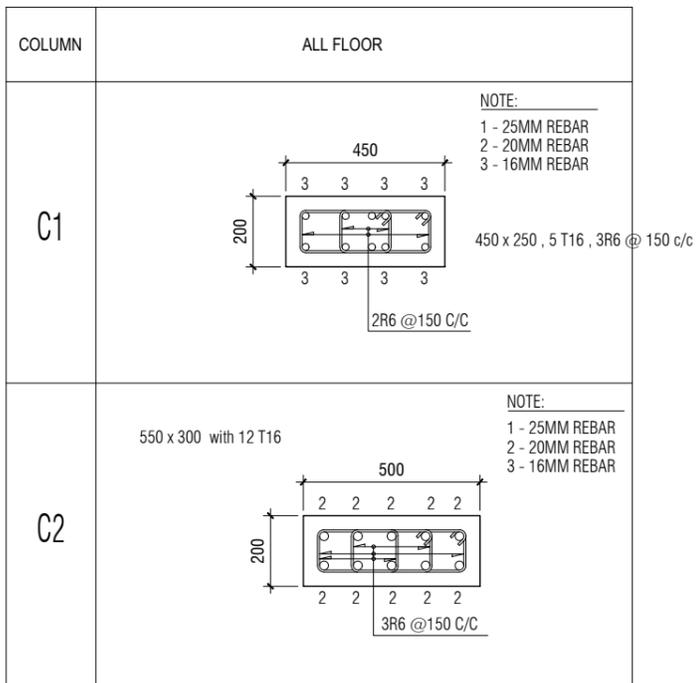
ARCHITECTURAL DESIGN  
 DRAFTED BY: - HUSSAIN AZEEM  
 DESIGNED BY: - HUSSAIN ZIYATH

STRUCTURAL DESIGN  
 DESIGNED BY: - ADAM SAANEEZ  
 APPROVED BY: - SAMNOON FUAD

DWG NO:  
 S - 04/ 05

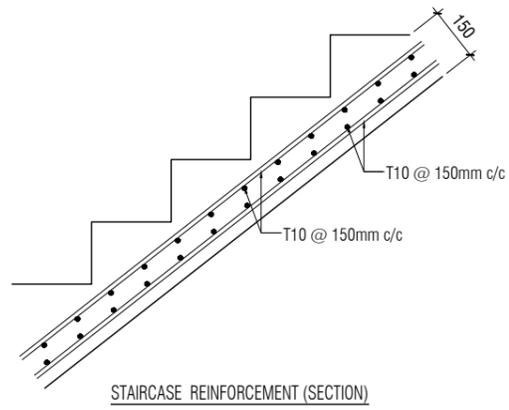


COLUMN DETAILS

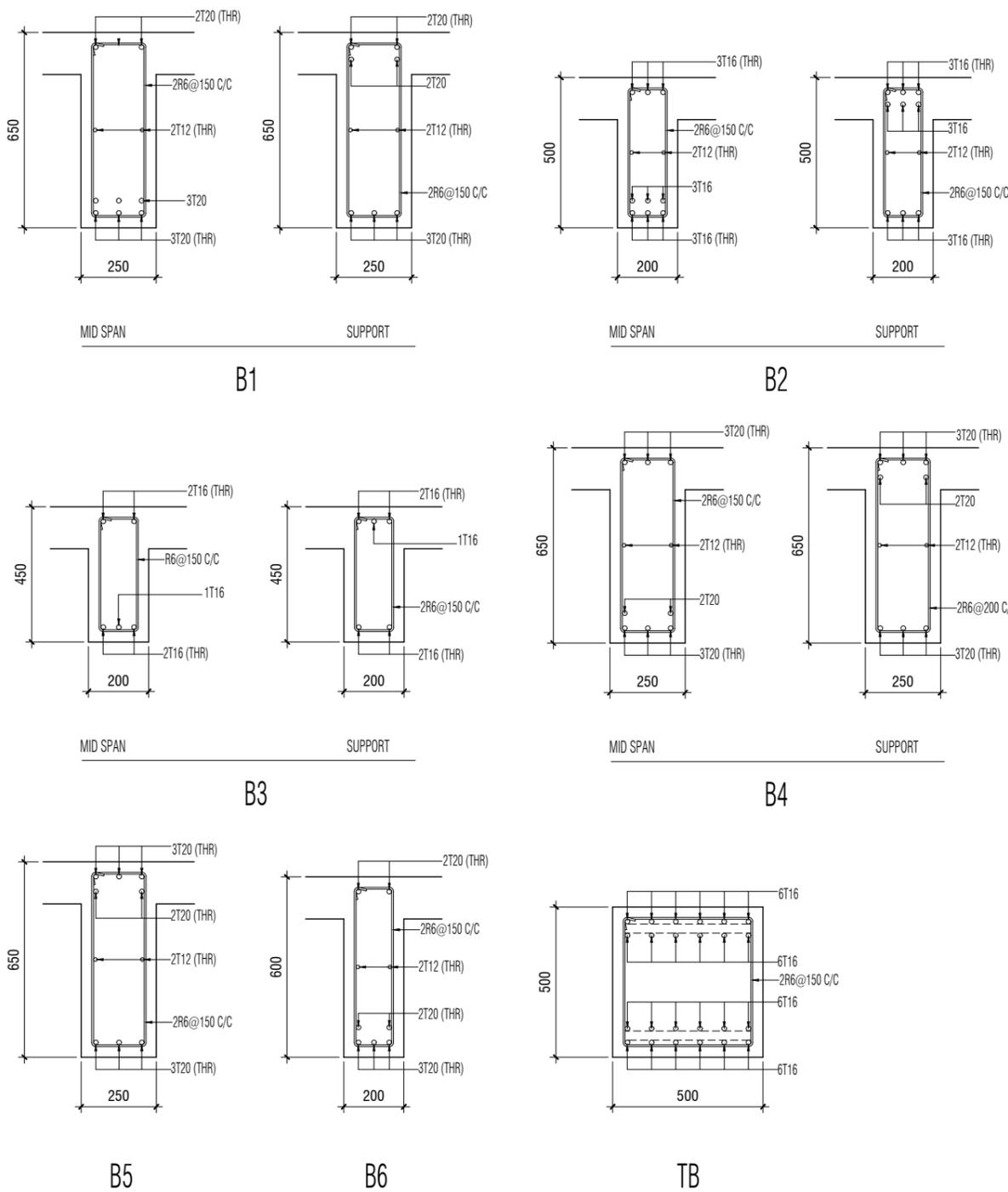


FOUNDATION DETAILS

FOOTING	LENGTH/mm	WIDTH/mm	DEPTH/mm	REINFORCEMENT
F1	1900	1900	400	T12@100mm C/C BW BOTTOM ( T12 @ 200mm c/c B/W TOP)
F2	2750	2750	460	T12@75mm C/C BW BOTTOM (T12@200mm C/C BW TOP)
F3	2500	2500	460	T12@100mm C/C BW BOTTOM (T12@200mm C/C BW TOP)
F4	2950	2590	500	T12@75mm C/C BW BOTTOM (T12@200mm C/C BW TOP)
F5	2100	2100	400	T12@100mm C/C BW BOTTOM ( T12 @ 200mm c/c B/W TOP)



BEAM DETAILS



STRUCTURAL DETAIL 1

SCALE 1:20

PROJECT: LAB BUILDING	ARCHITECTURAL DESIGN	STRUCTURAL DESIGN	DWG NO:
CLIENT: ---	DRAFTED BY: - HUSSAIN AZEEM	DESIGNED BY: - ADAM SAANEEZ	S - 05/ 05
DATE: JAN 2018	DESIGNED BY: - HUSSAIN ZIYATH	APPROVED BY: - SAMNOON FUAD	
DO NOT SCALE THE DRAWING			