



# LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

## UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

LUMHS GIRLS HOSTEL BLOCK  
TENDER DRAWINGS  
FEB, 2024

DESIGN BY



### **NEW VISION ENGINEERING CONSULTANT**

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# LIST OF DRAWINGS

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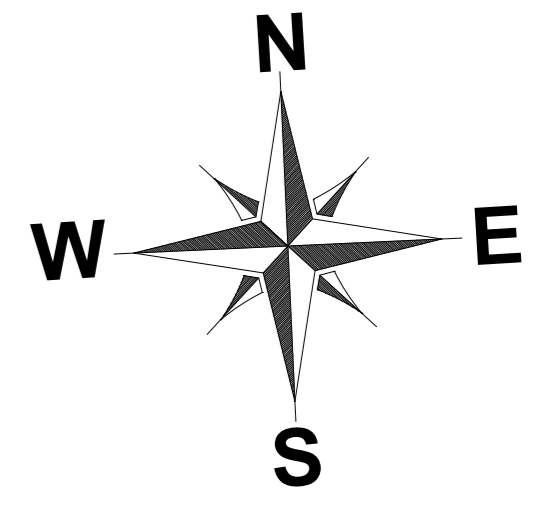
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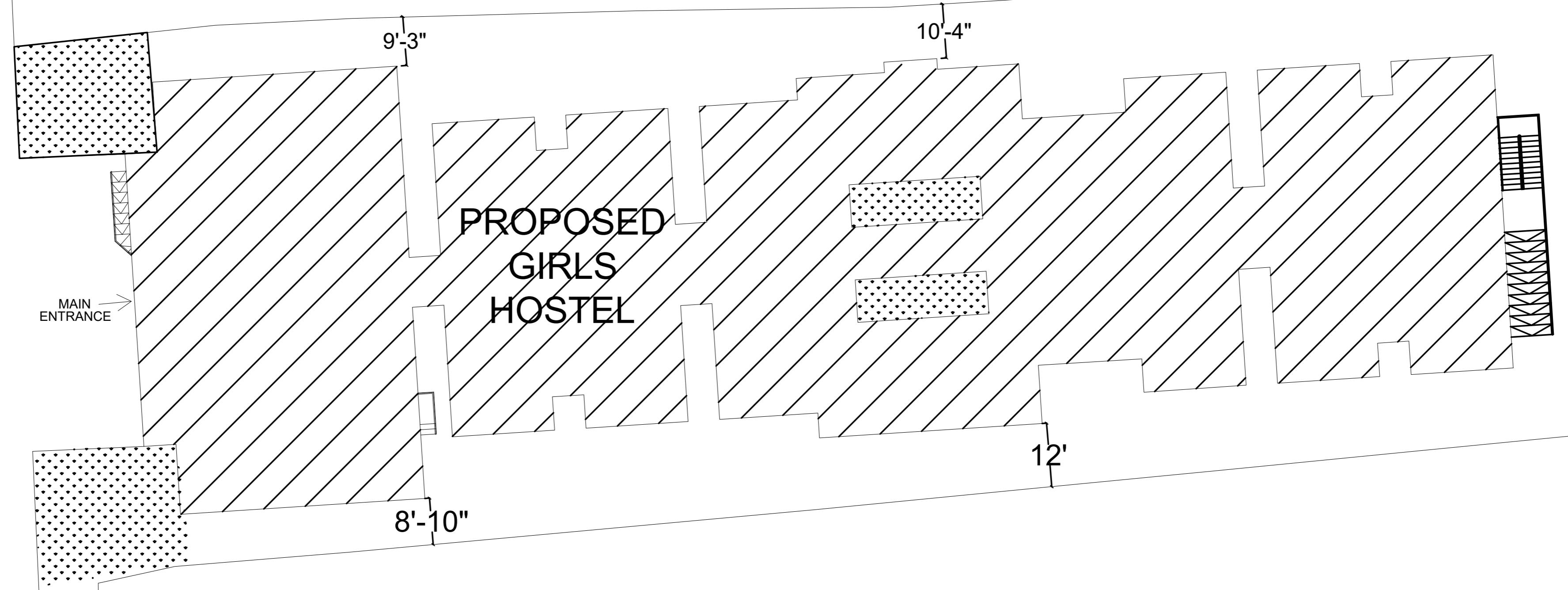
<b>PROJECT:</b> UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	<b>CLIENT:</b> LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
<b>TITLE:</b> LUMHS HOSTEL BLOCK LIST OF DRAWINGS	<b>DESIGNED BY:</b> AR.SALMAN	<b>APPROVED BY:</b> A.S
<b>CAD filename:</b>	<b>DRAWN BY:</b> RANA ALI HAIDER	<b>DATE :</b> FEB, 2024
<b>DRG. NO.</b> LS-00	<b>JOB NO.</b>	<b>SCALE:</b> N.T.S

# **MASTER PLAN**



EXISTING  
SPORTS  
COMPLEX

EXISTING  
ROAD



PROPOSED  
GIRLS  
HOSTEL

EXISTING  
GIRLS  
HOSTEL

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PROJECT:  
**UPGRADATION AND IMPROVEMENT OF PEOPLE  
NURSING SCHOOL, LIAQUAT UNIVERSITY OF  
MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE:  
**LUMHS HOSTEL BLOCK  
MASTER PLAN**

CAD filename:

CLIENT:  
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH  
SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE : FEB, 2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.	MP-01	



**3D VIEW**

**LUMHS GIRLS HOSTEL  
3D VIEW OP - 03**



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ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY



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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	LUMHS HOSTEL BLOCK 3D VIEW	
CAD filename:		

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE :
AR.SALMAN	A.S	FEB, 2024
DRAWN BY:	JOB NO.	SCALE:
RANA ALI HAIDER		N.T.S
DRG. NO.	3D-01	

**LUMHS GIRLS HOSTEL  
3D VIEW OP - 03**



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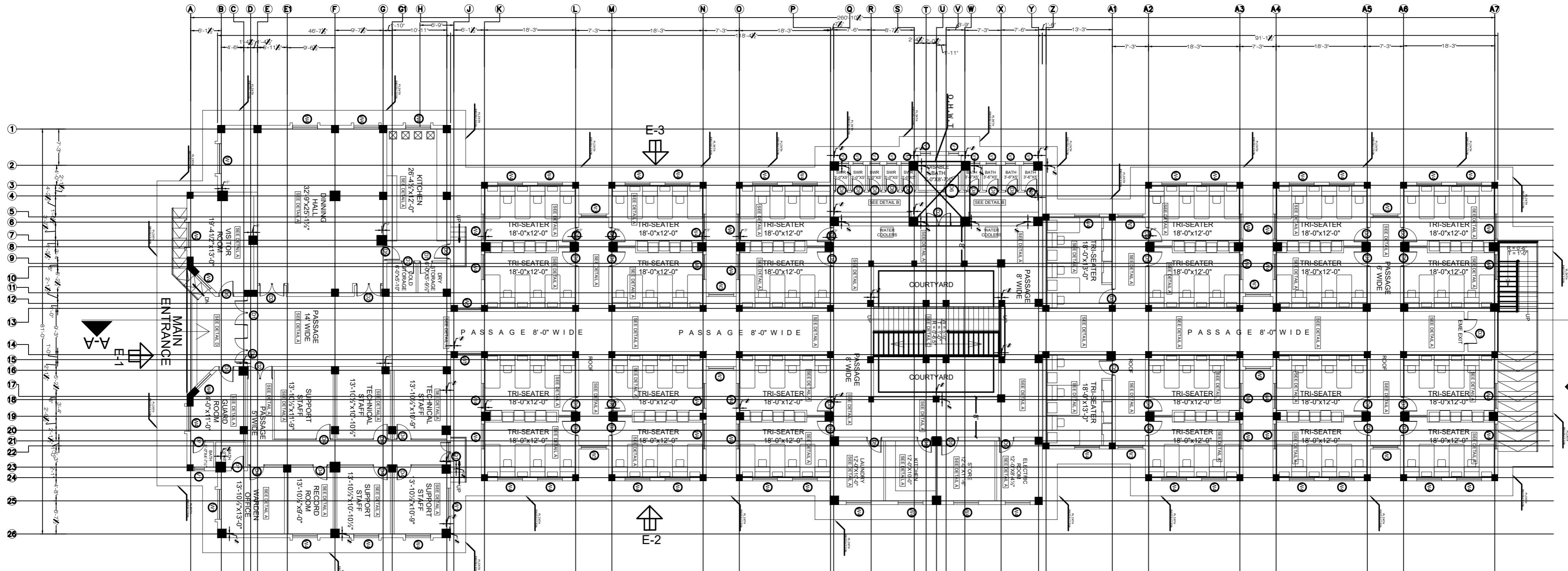
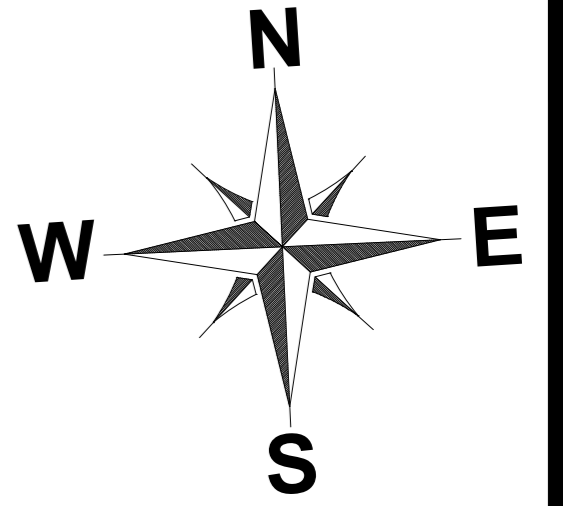

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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE:	LUMHS HOSTEL BLOCK 3D VIEW
CAD filename:	

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY:	APPROVED BY:	DATE :	
AR.SALMAN	A.S	FEB, 2024	
DRAWN BY:	JOB NO.	SCALE:	
RANA ALI HAIDER		N.T.S	
DRG. NO.	3D-02		

# **ARCHITECTURE PLAN**





**GROUND FLOOR PLAN**  
COVERED AREA = 15,506 sft

ADDITION & REVISION				
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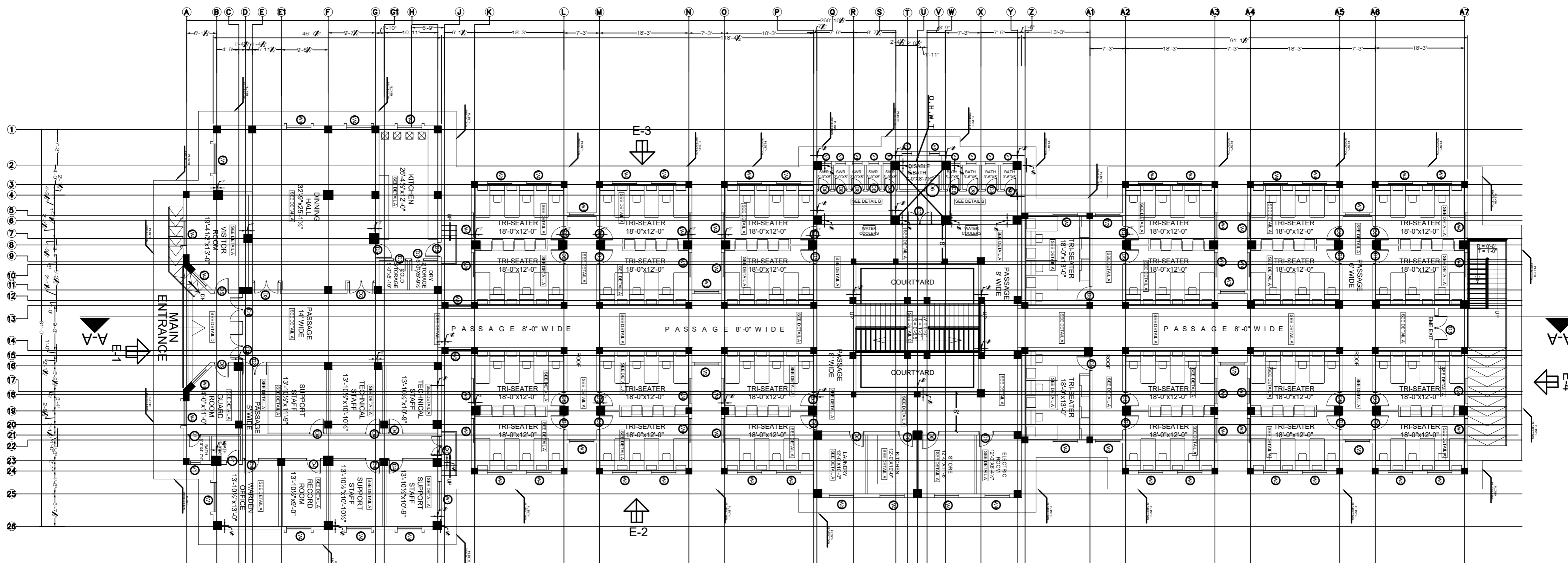
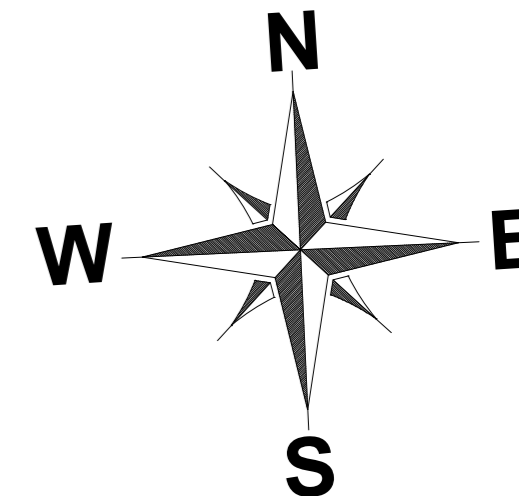
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 TITLE: **LUMHS HOSTEL BLOCK GROUND FLOOR PLAN**  
 CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE: FEB, 2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.	AR-01	



**GROUND FLOOR PLAN**  
COVERED AREA = 15,506 sft

ADDITION & REVISION				
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY



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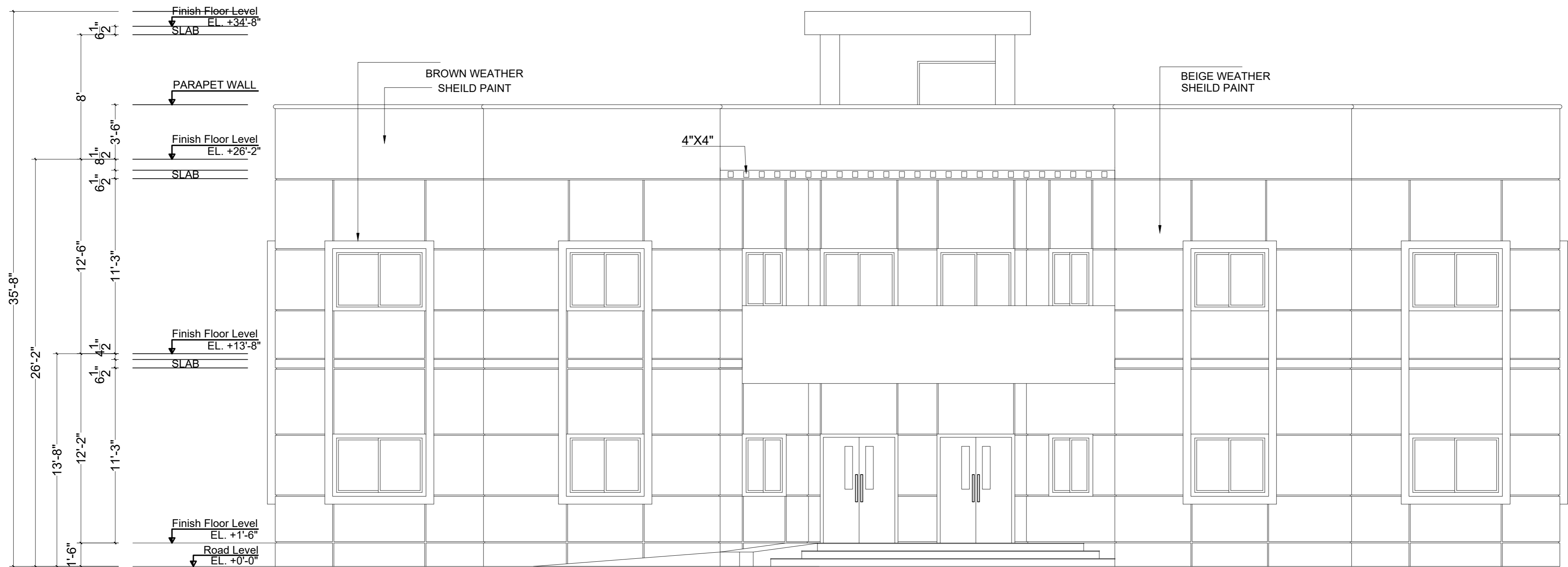
Head Office: Office No.B-6 Second Floor Masood Arcade  
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PROJECT: <b>UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>		CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>	
TITLE: <b>LUMHS HOSTEL BLOCK FIRST FLOOR PLAN</b>		DESIGNED BY: AR.SALMAN	APPROVED BY: A.S
CAD filename:		DRAWN BY: RANA ALI HAIDER	DATE : FEB, 2024
		JOB NO.	SCALE: N.T.S
		DRG. NO.	AR-02







## FRONT ELEVATION -1

ADDITION & REVISION				
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PROJECT:  
**UPGRADATION AND IMPROVEMENT OF PEOPLE  
NURSING SCHOOL, LIAQUAT UNIVERSITY OF  
MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE:  
**LUMHS HOSTEL BLOCK  
ELEVATION 1**

CAD filename:

CLIENT:  
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH  
SCIENCE JAMSHORO**

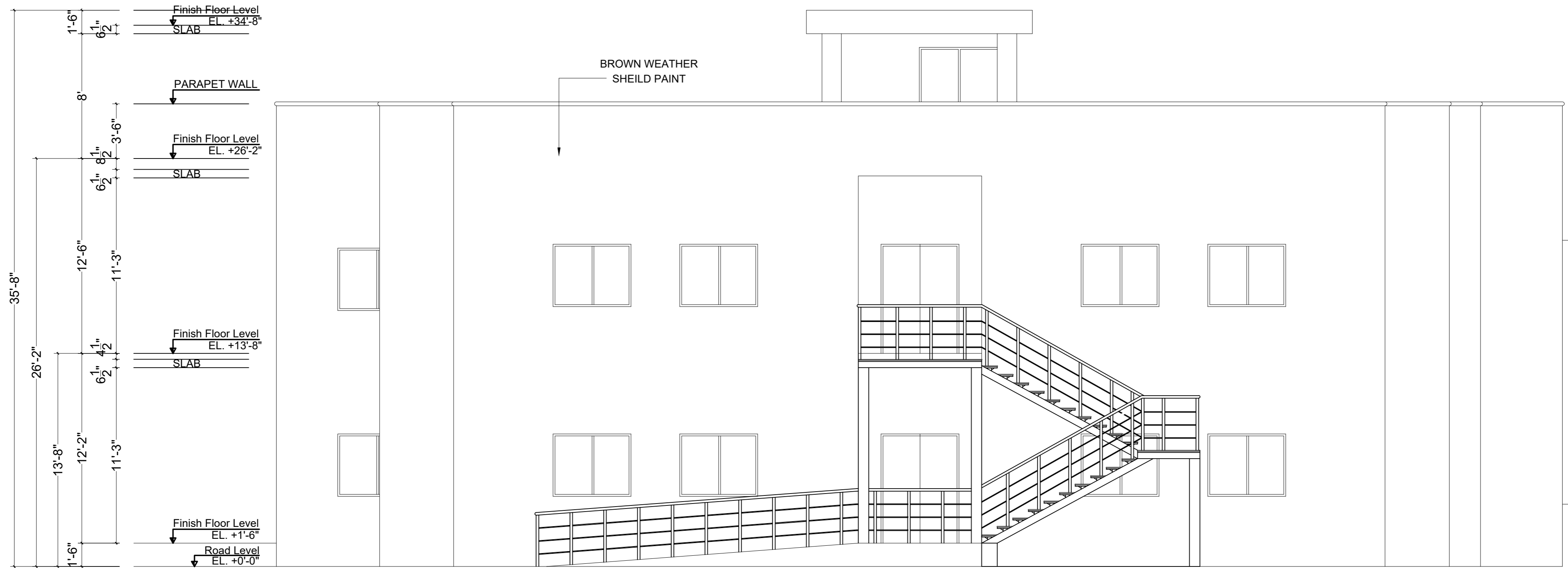
DESIGNED BY: AR.SALMAN APPROVED BY: A.S DATE: FEB, 2024

DRAWN BY: RANA ALI HAIDER JOB NO. SCALE: N.T.S

DRG. NO. AR-04







# ELEVATION -4

ADDITION & REVISION				
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY

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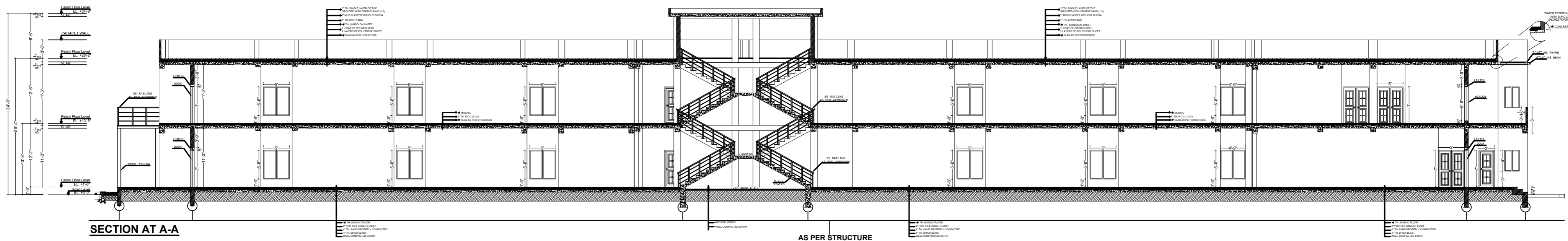
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS HOSTEL BLOCK ELEVATION 4**

CAD filename: \_\_\_\_\_

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE : FEB, 2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.		AR-07



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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	LUMHS HOSTEL BLOCK SECTION AT A-A	
CAD filename:		

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE :
AR.SALMAN	A.S	FEB, 2024
DRAWN BY:	JOB NO.	SCALE:
RANA ALI HAIDER		N.T.S
DRG. NO.	AR-08	



# AREAS DETAIL

GROUND FLOOR COVERED AREA	15,506 SFT
FIRST COVERED AREA	15,439 SFT
MUMTY COVERED AREA	428 SFT
TOTAL COVERED AREA	31,373 SFT
OPEN AREA	343 SFT

ADDITION & REVISION				
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PROJECT: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO  
 TITLE: LUMHS HOSTEL BLOCK COVERED AREA DETAIL  
 CAD filename:

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO  
 DESIGNED BY: AR.SALMAN  
 APPROVED BY: A.S  
 DATE: FEB, 2024  
 DRAWN BY: RANA ALI HAIDER  
 JOB NO.  
 SCALE: N.T.S  
 DRG. NO. AR-09

# SCHEDULE OF OPENINGS

## DOOR SCHEDULE

S.NO.	OPENINGS	DIMENSIONS	SILL LEVEL	DESCRIPTION
1	D1	5'-0"x7'-0"	0'-0"	ALUMINUM GLASS DOOR
2	D2	5'-0"x7'-0"	0'-0"	SOLID FLUSH DOOR
3	D3	5'-0"x7'-0"	0'-0"	FIRE RATED DOOR
4	D4	3'-0"x7'-0"	0'-0"	ALUMINUM GLASS DOOR
5	D5	3'-0"x7'-0"	0'-0"	SOLID FLUSH DOOR
6	D6	3'-3"x7'-0"	0'-0"	UPVC DOOR
7	D7	2'-6"x7'-0"	0'-0"	SOLID FLUSH DOOR
8	D8	2'-6"x7'-0"	0'-0"	UPVC DOOR
9	D9	5'-0"x7'-0"	0'-0"	STEEL DOOR

## WINDOW SCHEDULE

10	W1	6'-0"x4'-0"	+3'-0"	ALUMINUM WINDOW
11	W2	5'-0"x6'-6"	+0'-6"	ALUMINUM WINDOW
12	W3	5'-0"x5'-6"	+1'-6"	ALUMINUM WINDOW
13	W4	5'-0"x4'-0"	+3'-0"	ALUMINUM WINDOW
14	W5	4'-9"x5'-6"	+1'-0"	ALUMINUM WINDOW
15	V-1	2'-0"x2'-0"	+5'-0"	ALUMINUM WINDOW
16	V-2	1'-7"x2'-0"	+5'-0"	ALUMINUM WINDOW

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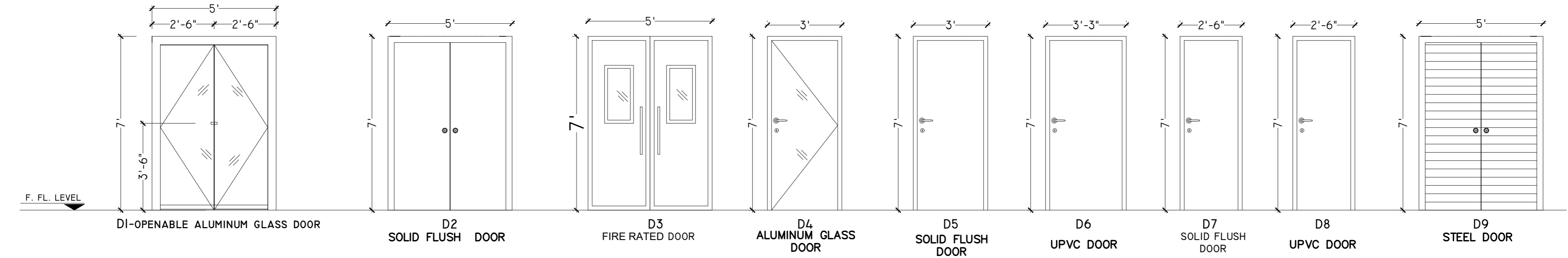
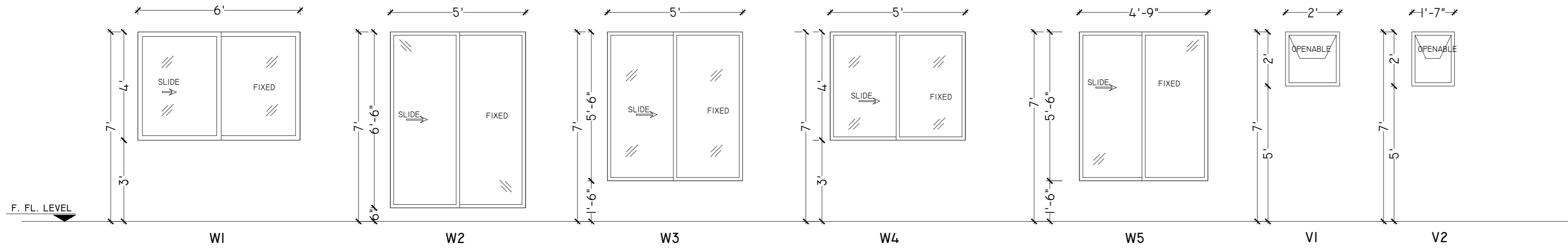


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TITLE: LUMHS HOSTEL BLOCK SCHEDULE OF OPENING		DESIGNED BY: AR.SALMAN	APPROVED BY: A.S
CAD filename:		DRAWN BY: RANA ALI HAIDER	DATE : FEB, 2024
		JOB NO.	SCALE: N.T.S
		DRG. NO.	AR-10



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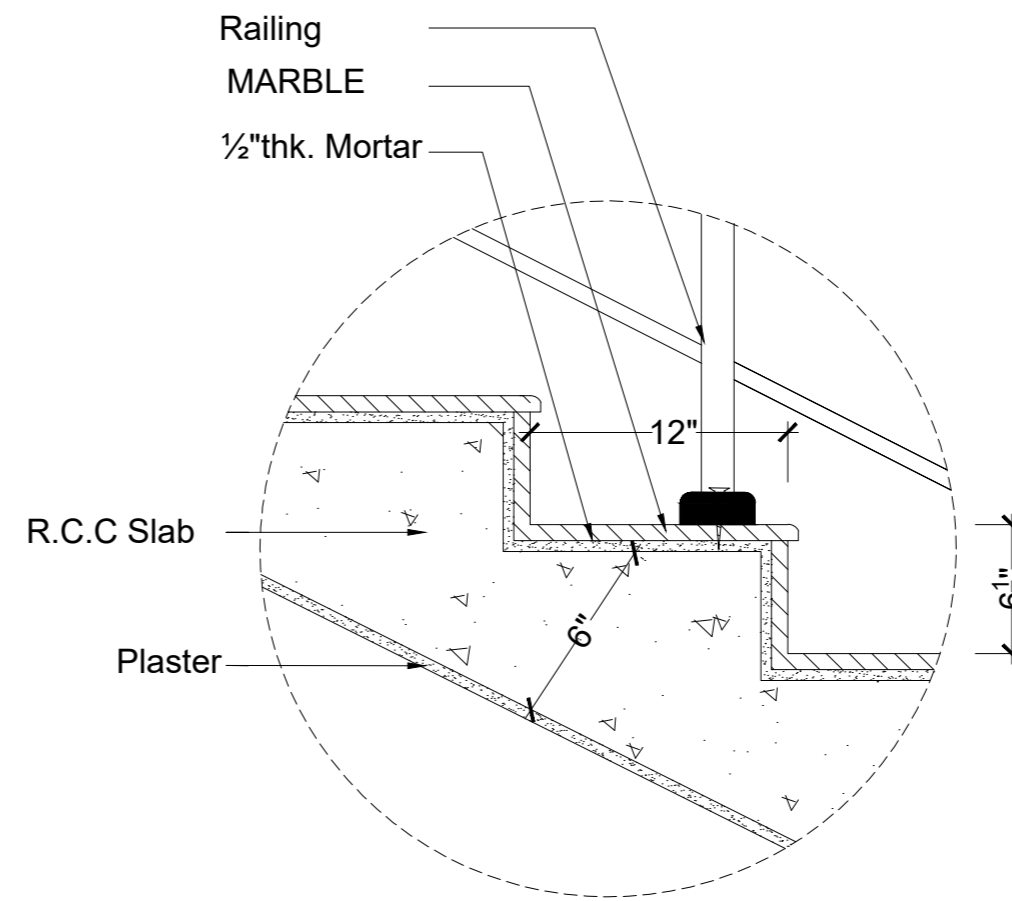
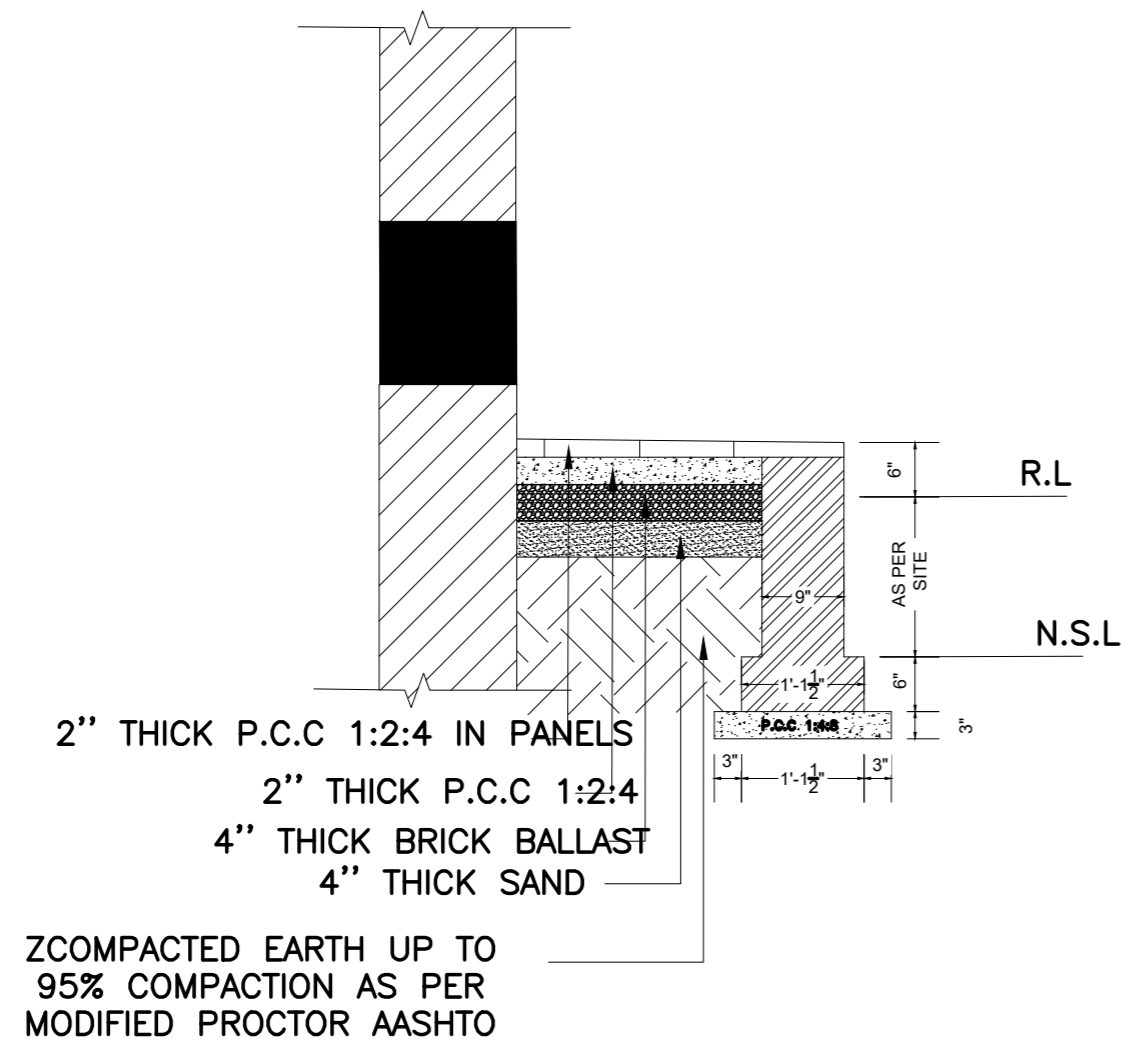
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS HOSTEL BLOCK DOOR WINDOW ELEVATION**

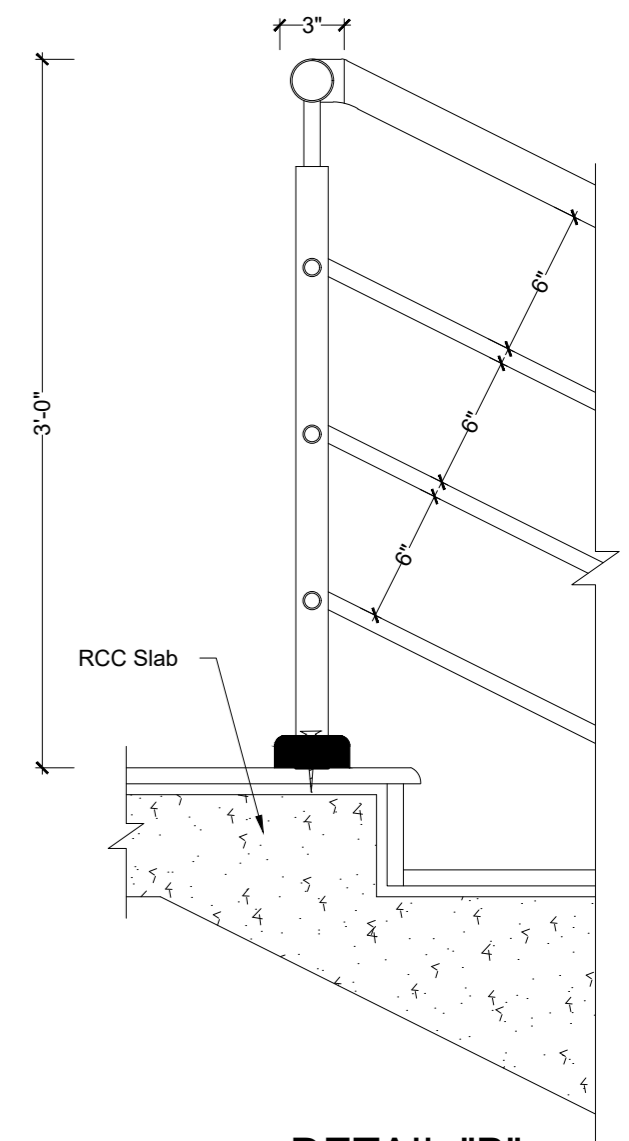
CAD filename: \_\_\_\_\_

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE: FEB, 2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.	AR-11	

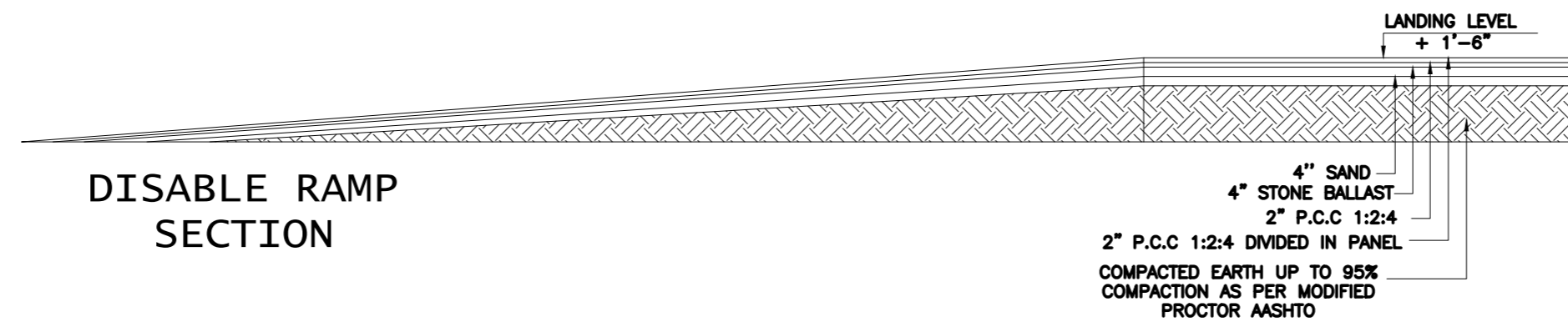
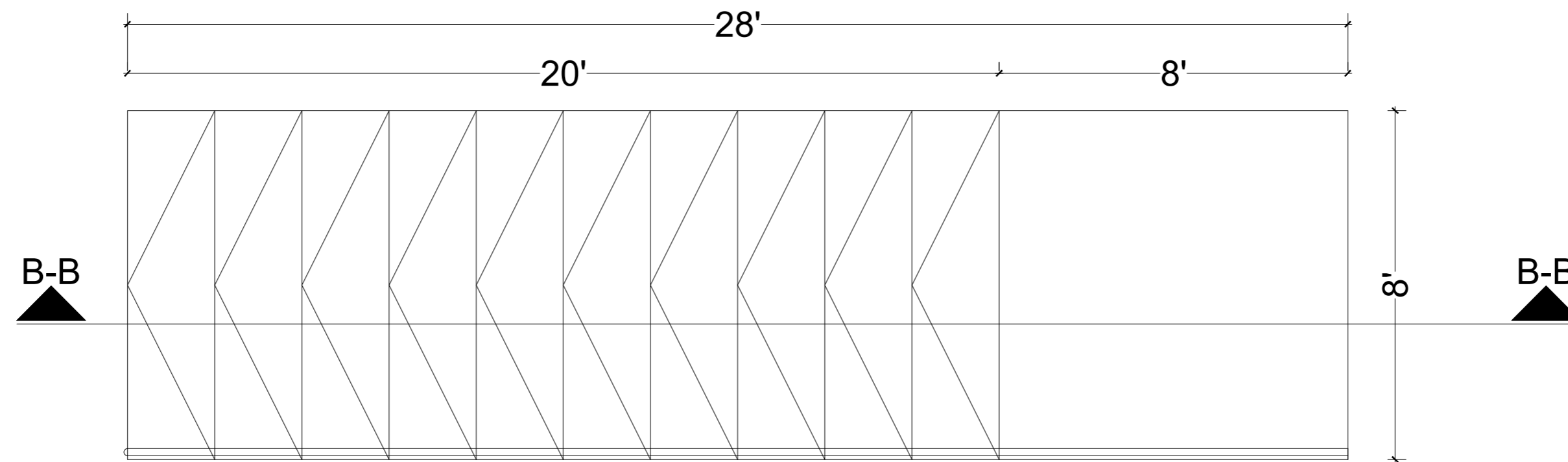


DETAIL "A"



DETAIL "B"

**PLINTH PROTECTION**



DISABLE RAMP SECTION

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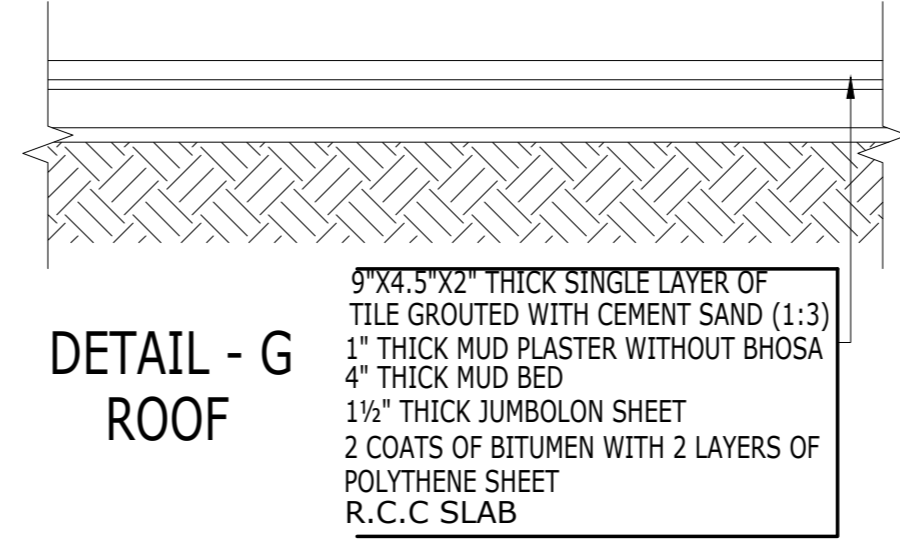
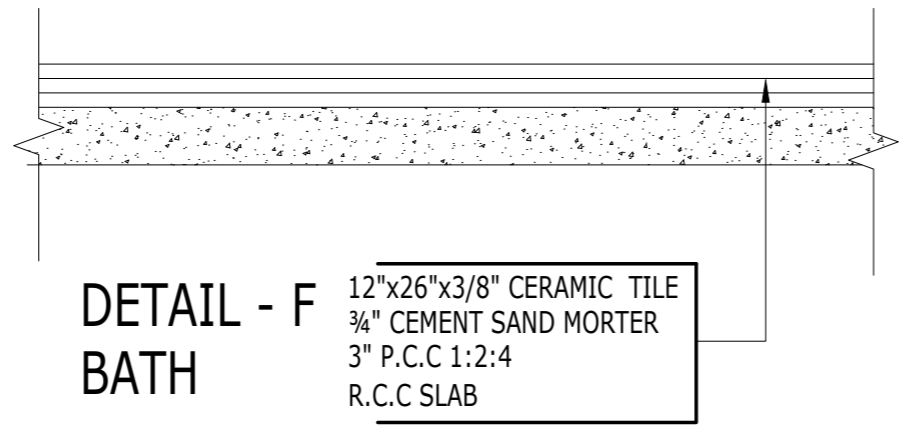
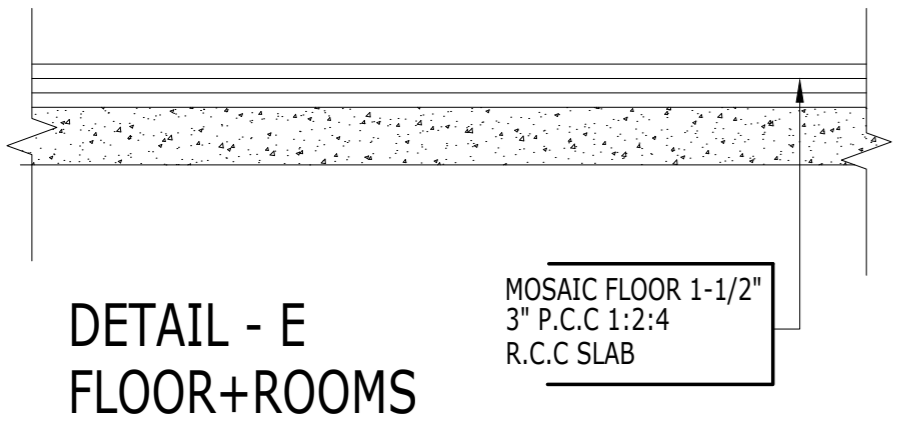
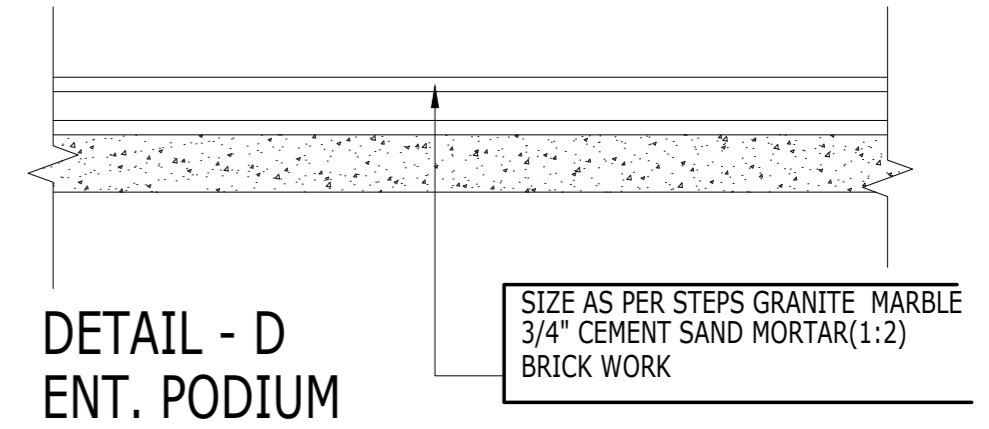
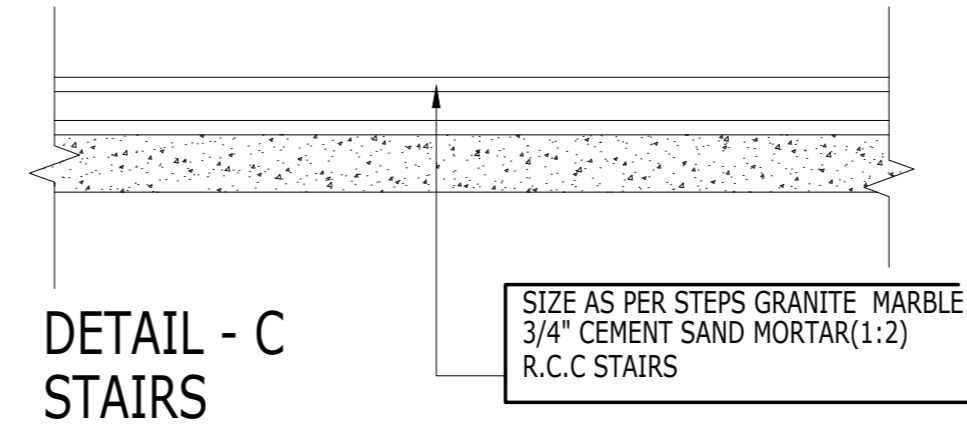
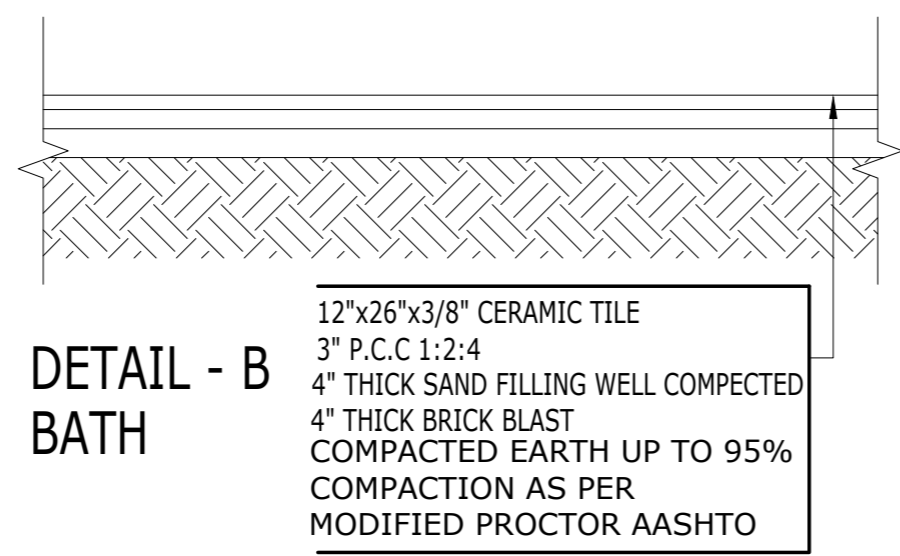
PROJECT:  
**UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE:  
**LUMHS HOSTEL BLOCK STAIRS AND PLINTH PROTECTION AND RAMP DETAILS**

CAD filename:

CLIENT:  
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE: FEB, 2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.	AR-12	



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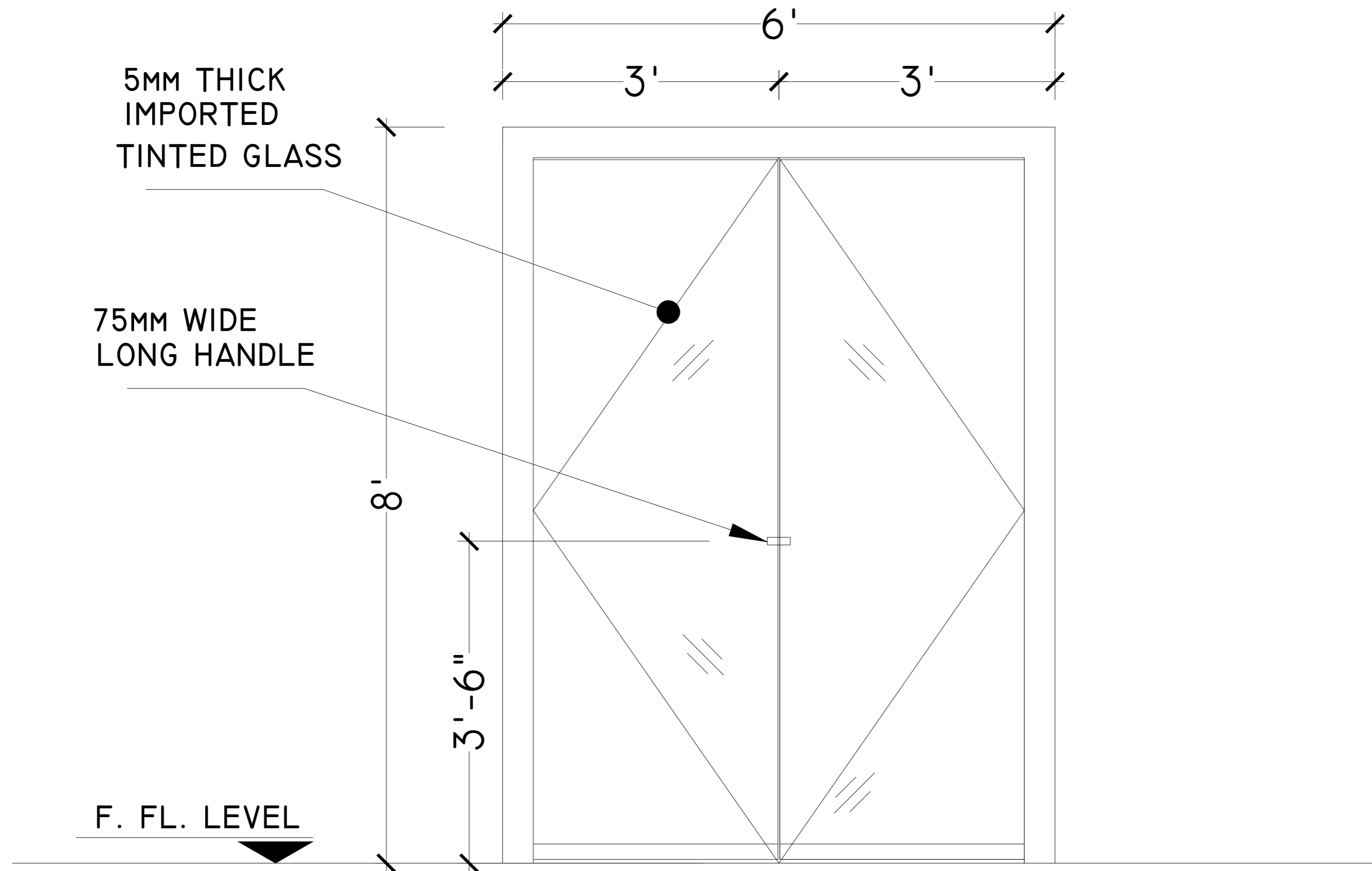
PROJECT:  
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TITLE:  
**LUMHS HOSTEL BLOCK FLOOR FINISH DETAIL**

CAD filename:

CLIENT:  
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE : FEB, 2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.	AR-13	



5MM THICK  
IMPORTED  
TINTED GLASS

75MM WIDE  
LONG HANDLE

F. FL. LEVEL

**DI-OPENABLE ALUMINUM GLASS DOOR  
FRONT ELEVATION**

ADDITION & REVISION				
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NURSING SCHOOL, LIAQUAT UNIVERSITY OF  
MEDICAL & HEALTH SCIENCE JAMSHORO**

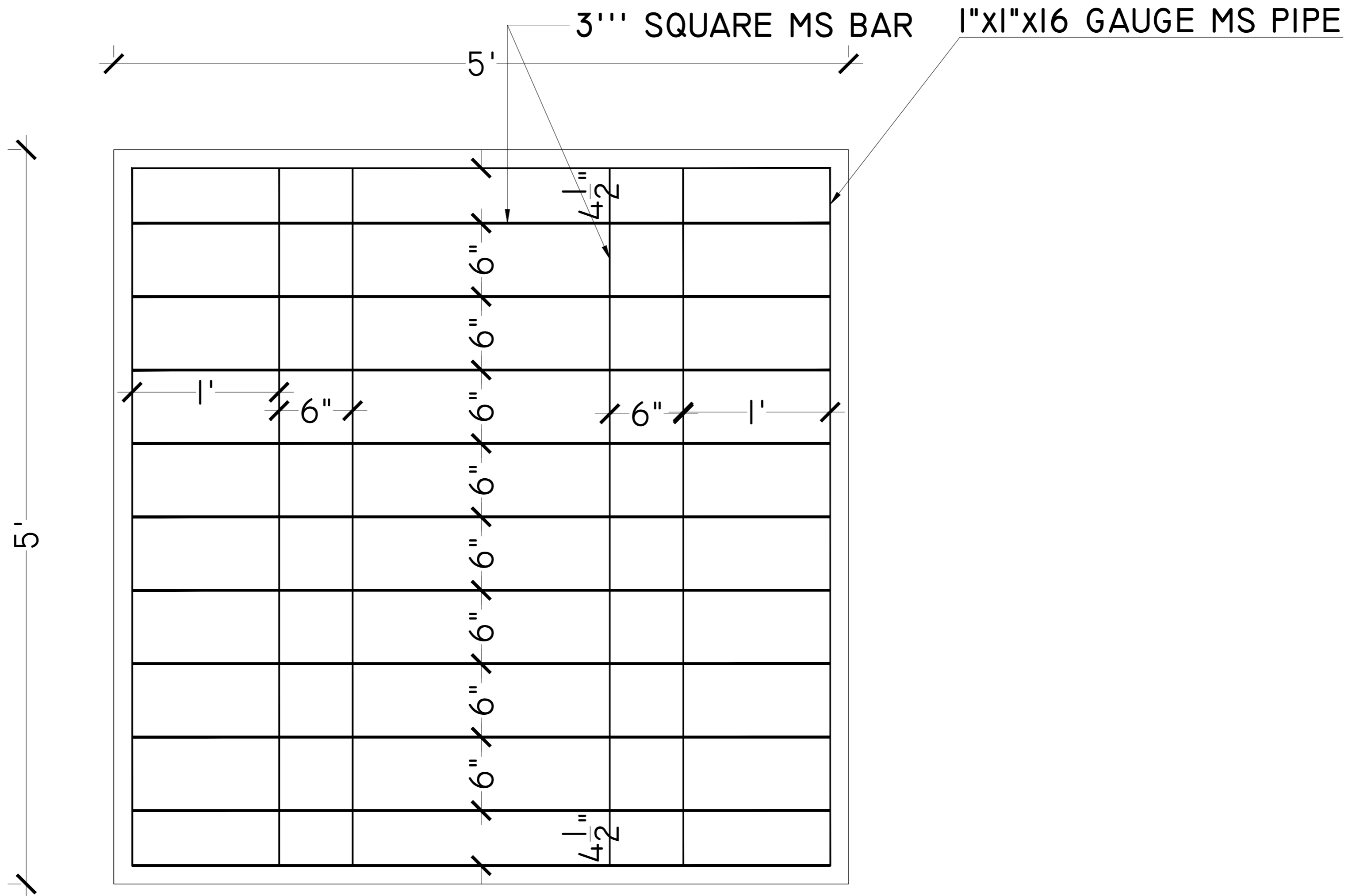
TITLE:  
**LUMHS HOSTEL BLOCK  
OPENABLE ALUMINUM GLASS DOOR**

CAD filename:

CLIENT:  
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH  
SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE: FEB, 2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.		AR-14





# TYP. SAFETY GRILL DETAIL

ADDITION & REVISION				
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY

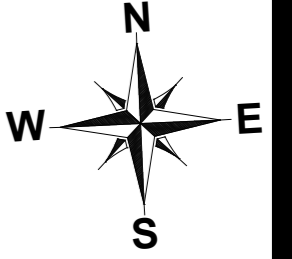


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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	LUMHS HOSTEL BLOCK TYPICAL SAFETY GRILL DETAIL	
CAD filename:		

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE : FEB, 2024
DRAWN BY: RANA ALI HAIDER	JOB NO.	SCALE: N.T.S
DRG. NO.	AR-15	

**STRUCTURE**



## LIST OF DRAWINGS

S.NO.	DRAWING TITLE	DRG. NO
<b>STRUCTURE DRAWINGS</b>		
1	LIST OF DRAWINGS	ST-01
2	GENERAL NOTES	ST-02
3	TYPICAL DETAILS	ST-03
4	TYPICAL DETAILS	ST-04
5	TYPICAL DETAILS	ST-05
6	FOUNDATION LAYOUT PLAN	ST-06
7	FOUNDATION SCHEDULE	ST-07
8	FOUNDATION SECTION DETAIL	ST-08
9	FOUNDATION SECTION DETAIL	ST-09
10	BRICK FOOTING FOUNDATION LAYOUT	ST-10
11	BRICK FOOTING SECTION	ST-11
12	GROUND FLOOR COLUMN LAYOUT PLAN	ST-12
13	FIRST FLOOR COLUMN LAYOUT PLAN	ST-12A
14	COLUMN SECTION	ST-13
15	PLINTH BEAM LAYOUT PLAN	ST-14
16	PLINTH BEAM SECTION	ST-15
17	GROUND FLOOR BEAM LAYOUT PLAN	ST-16
18	GROUND FLOOR BEAM SECTION	ST-17
19	FIRST FLOOR BEAM LAYOUT PLAN	ST-18
20	FIRST FLOOR BEAM SECTION	ST-19
21	MUMMTY FLOOR BEAM LAYOUT PLAN	ST-20
22	MUMMTY FLOOR BEAM SECTION	ST-21
23	GROUND FLOOR SLAB LAYOUT POSITIVE REINF. PLAN	ST-22
24	GROUND FLOOR SLAB LAYOUT NEGATIVE REINF. PLAN	ST-23
25	FIRST FLOOR SLAB LAYOUT POSITIVE REINF. PLAN	ST-24
26	FIRST FLOOR SLAB LAYOUT NEGATIVE REINF. PLAN	ST-25
27	MUMMTY FLOOR SLAB LAYOUT POSITIVE REINF. PLAN	ST-26
28	MUMMTY FLOOR SLAB LAYOUT NEGATIVE REINF. PLAN	ST-27
29	STAIR DETAIL	ST-28
30	O.H.W.T DETAIL	ST-29
31	SEPTIC TANK	ST-30
32	EMERGENCY STEEL STAIR PLAN & DETAIL	ST-31
33	EMERGENCY STEEL STAIR SECTION DETAIL	ST-32
34	EMERGENCY STEEL STAIR MISC DETAIL	ST-33
35	EMERGENCY STAIR RAILING DETAIL	ST-34

**NOTE:**  
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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PROJECT: <b>UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>	CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>
TITLE: <b>LIST OF DRAWING</b>	DESIGNED BY: ENG AHMAD
	APPROVED BY: _____
	DATE: FEB,2024
	DRAWN BY: MATHEW SIMON
	JOB NO. _____
	SCALE: N.T.S
	DRG. NO. <b>ST-01</b>

**GENERAL TECHNICAL NOTES**

- Figured dimensions are to be followed.
- Class "A" kiln burnt brick with minimum crushing strength of 2000 PSI should be used & joint at end should be sloppy, Vertical toothed joint at corners are prohibited.
- A steel G-60 deformed steel should be used in beams footing slabs and water retaining structures, in columns, for all diameters.
- All steel should be checked for its quality and placement DETAIL as shown in drawings.
- Extra care is required for proper placement of top reinforcement at support sections and cantilevers.
- Dotted bars designate top reinforcement.
- Provide L- shaped end hooks for all bars at discontinuous ends in footings, walls, beams and slabs as shown in drawings.
- Lap length should be followed As except specified:-
  - 1" Ø = 60"
  - 3/4" Ø = 45"
  - 5/8" Ø = 36"
  - 1/2" Ø = 30"
  - 3/8" Ø = 23"
- Provide 3/8" dia at 12" c/c as distribution steel if not shown in drawings.
- Minimum concrete cover.
  - Footing = 2" e) Water tank and retaining wall
  - Slabs = 3/4" i- Water/earth face or
  - Beams = 1 1/2" exposed to weather = 2"
  - Columns = 1 1/2" ii- Other faces = 1"
- All footing should be taken below the original Ground Level to achieve the minimum depth as shown in drawings. Footing should not be placed on uncompacted fill area.
- All drawings should be read in conjunction with Architectural Drawings.
- Contractor will co-ordinate all drawings such as architectural, structural, electrical, mechanical, water supply, drainage etc: before execution of work.
- Standard ACI 318, Astm C 33 and Astm A-615 use for structural concrete
- Fine modulus of fine aggregate varies from 2- 3.5mm  
For concrete use 2.9- 3.2mm  
For plaster use 2.2- 3.6mm

**QUALITY OF CONCRETE**

**1. FOOTINGS & RETAINING WALLS.**

Minimum concrete compressive strength for 6"x12" cylinder to be 3000 psi at 28 days age. Concrete Nominal Mix 1:2:4 or more rich to provide specified strength (Equivalent 6"x6"x6" cube strength 3750 psi)

**2. COLUMNS.**

Minimum concrete compressive strength for 6"x12" cylinder to be 4000 psi at 28 days age. Concrete Nominal Mix to be 1:1 1/2:3 or more rich to provide specified strength  
Admixture must be provided to ensure the specified structural strength as mentioned earlier.

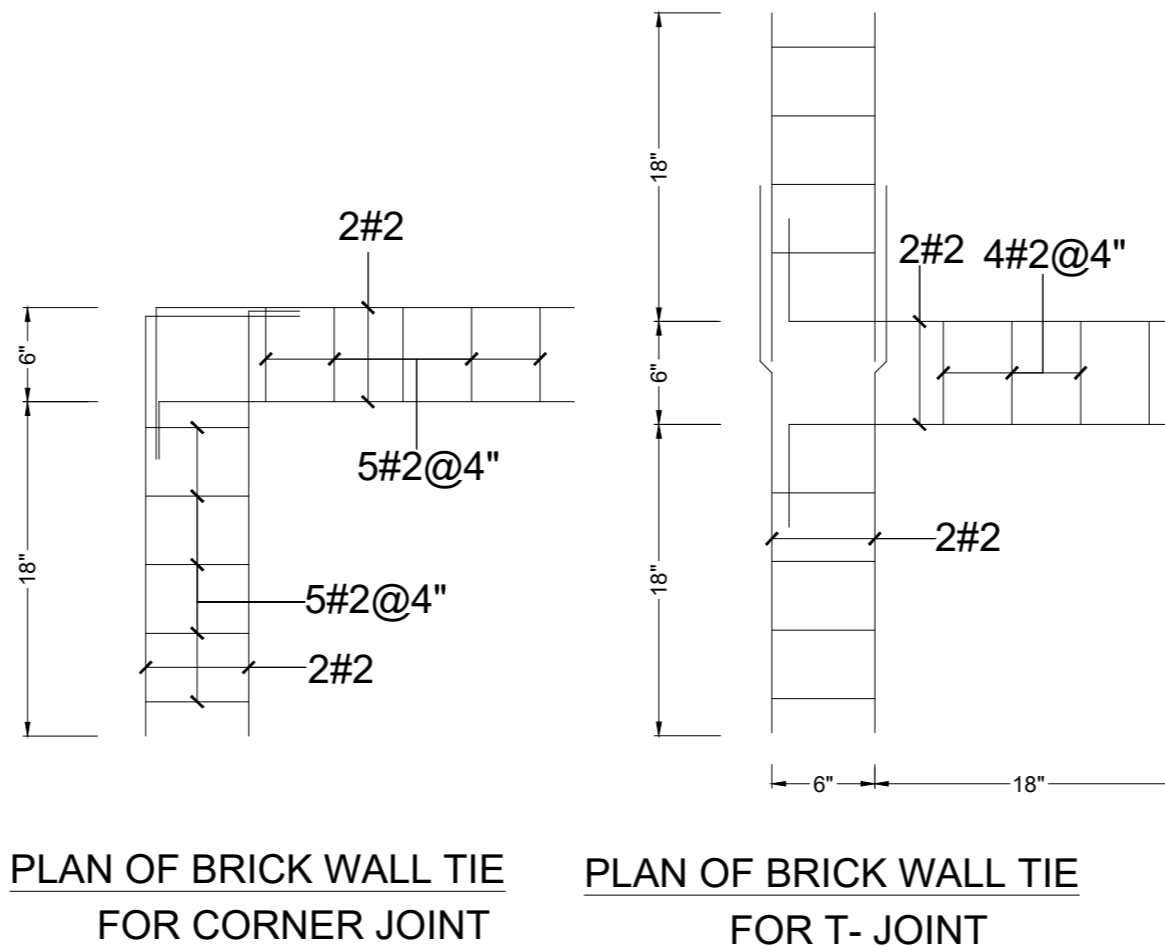
**3. BEAMS, RIBS & SLABS.**

Minimum concrete compressive strength for 6"x12" cylinder to be 3000 psi at 28 days age. Concrete Nominal Mix to be 1:2:4 or more rich to provide specified strength (Equivalent 6"x6"x6" cube strength 3750 psi)  
Admixture must be provided to ensure the specified structural strength as mentioned earlier.

- Use of plasticizers recommended to reduce the water cement ratio and increase workability of concrete.
- All concrete mixes to be used, should be got designed & approved before execution of work.
- Quality, size and gradation of aggregates (fine & coarse) as used during the mix design, should be strictly adhered with.
- The Design is in accordance with Seismic Zone 2A.

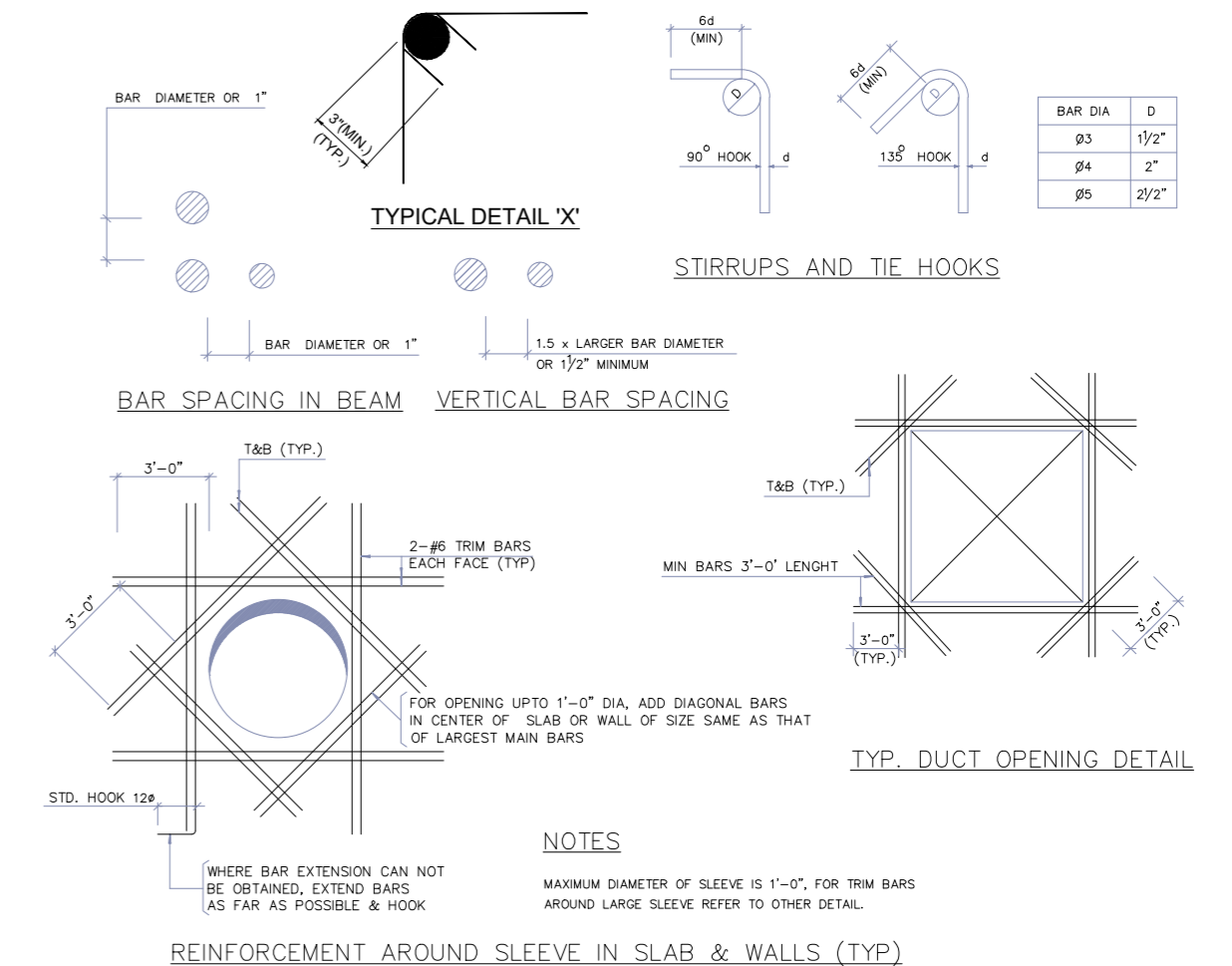
**NOTES**

- ALL LAYOUT DIMENSIONS AND F.FLOOR LEVELS TO BE AS PER ARCH DRAWING.
- PROVIDE PLINTH BEAM PB AT PLINTH LEVEL, WALL BEAMS AT SLAB LEVEL.
- PROVIDE #2 DOUBLE-LEG TIE BARS AT 12" CENTRES AT COMMON JOINT BETWEEN WALLS AND COLUMNS. THESE BARS SHOULD PASS INTO WALLS ON EACH SIDE OF COLUMNS.



**REINFORCING STEEL**

REINFORCING STEEL f = 60,000 psi			
BAR NO.	BAR DIA (IN.)	DEVELOPMENT LENGTH (INCH) IN TENSION	
		f <sub>c</sub> = 3000 psi	f <sub>c</sub> = 4000 psi
#3	0.375	17"	15"
#4	0.500	22"	19"
#5	0.625	28"	24"
#6	0.750	33"	29"
#7	0.875	48"	42"
#8	1.000	55"	48"
#3	0.375	9"	8"
#4	0.500	11"	10"
#5	0.625	14"	12"
#6	0.750	17"	15"
#7	0.875	20"	17"
#8	1.000	22"	19"
#3	0.375	22"	20"
#4	0.500	29"	25"
#5	0.625	37"	32"
#6	0.750	43"	38"
#7	0.875	63"	55"
#8	1.000	72"	63"



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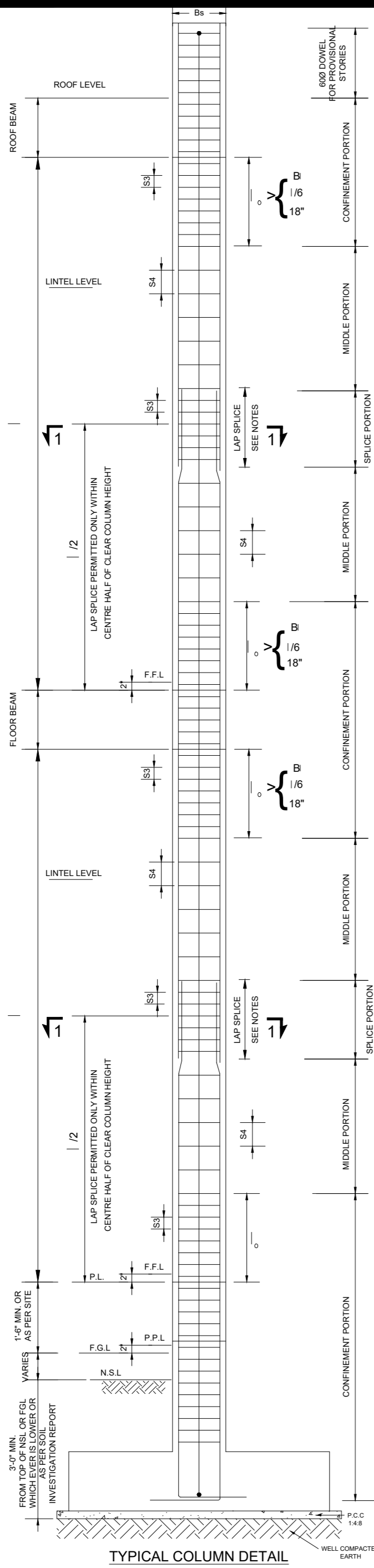
TITLE: **GENERAL NOTES**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

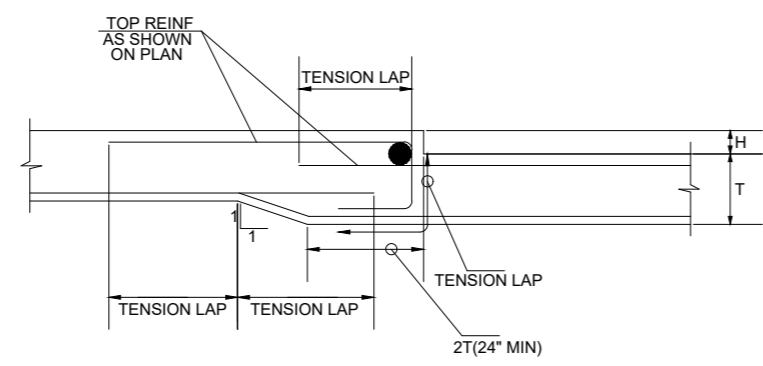
DESIGNED BY: ENGHAMAD APPROVED BY: DATE: FEB,2024

DRAWN BY: MATHEW SIMON JOB NO. SCALE: N.T.S

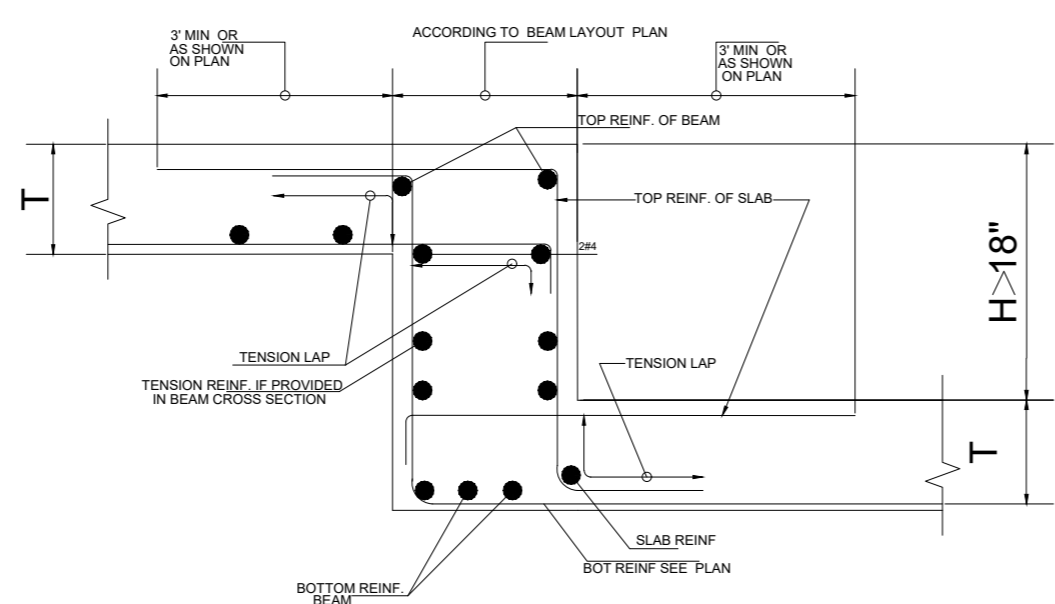
DRG. NO. ST-02



TYPICAL COLUMN DETAIL



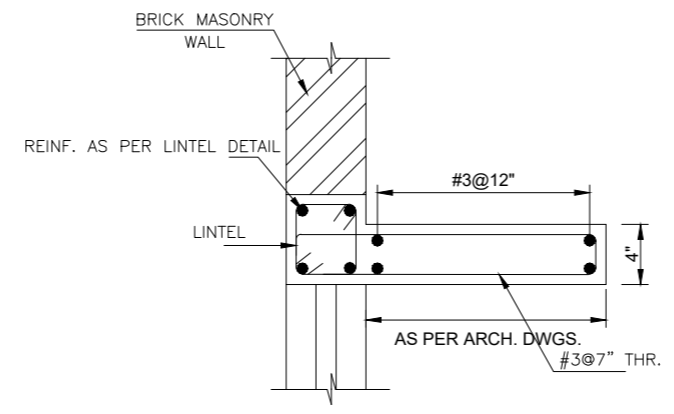
SLAB STEP  $H \leq 4''$   
REINFORCEMENT DETAIL OF BEAM CONNECTING WITH TWO SLABS AT DIFFERENT ELEVATIONS



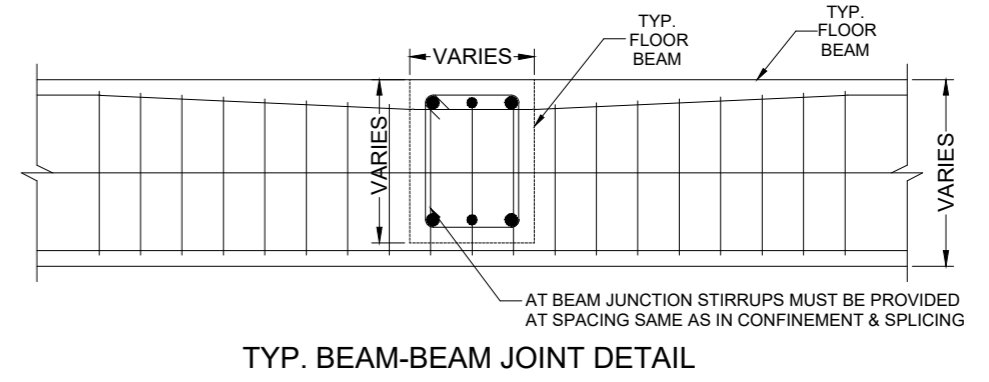
SLAB STEP  $H > 18''$   
REINFORCEMENT DETAIL OF BEAM CONNECTING WITH TWO SLABS AT DIFFERENT ELEVATIONS

LEGENDS

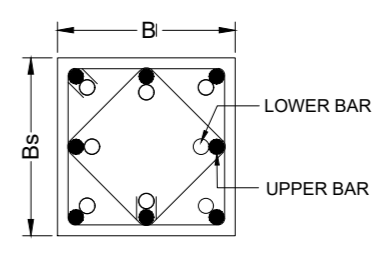
S1	STIRRUPS SPACING IN BEAM NEAR SUPPORTS & LAP SPLICES
S2	STIRRUPS SPACING IN BEAM IN MIDSPAN
S3	CROSSTIE SPACING IN COLUMNS IN CONFINEMENT & LAP SPLICE
S4	CROSSTIE SPACING IN COLUMNS IN MIDDLE PORTION.
h	DEPTH OF BEAM
db	DIAMETER OF BAR
Bs	LEAST LATERAL DIMENSION OF COLUMN
B	LARGEST LATERAL DIMENSION OF COLUMN
l	CLEAR HEIGHT OF COLUMN
l <sub>c</sub>	LENGTH OF CONFINEMENT PORTION
l <sub>d</sub>	DEVELOPMENT LENGTH FOR STEEL BAR
d	EFFECTIVE DEPTH OF BEAM



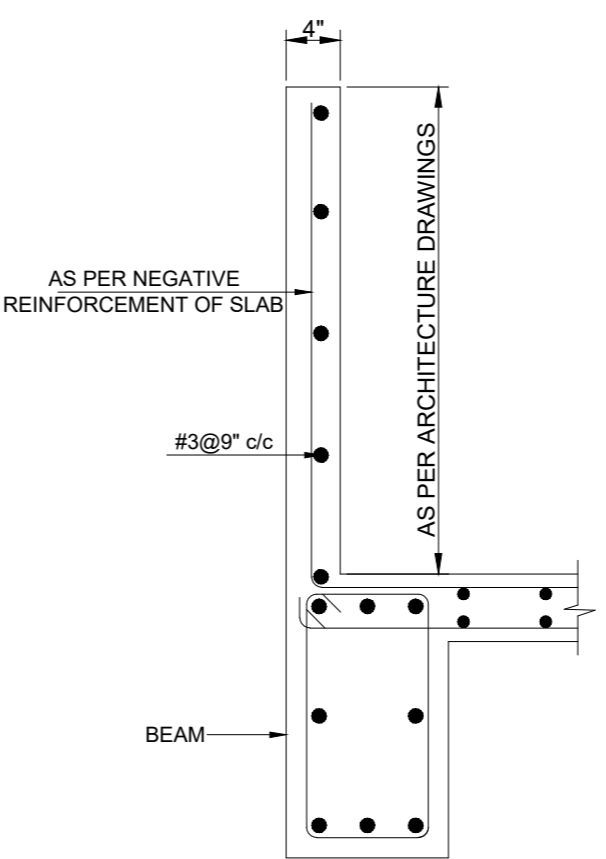
TYP. SECTION OF WINDOW SHADE  
FOR LEVEL DETAILS REFER ARCHITECTURAL DRAWINGS



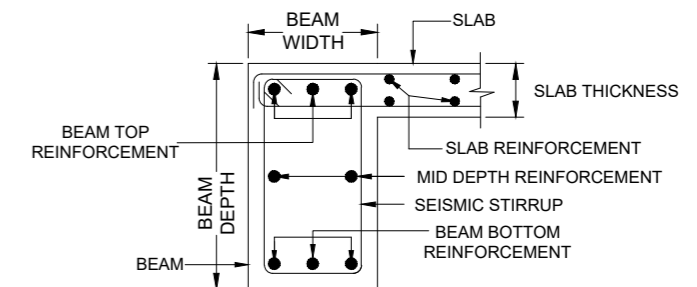
TYP. BEAM-BEAM JOINT DETAIL



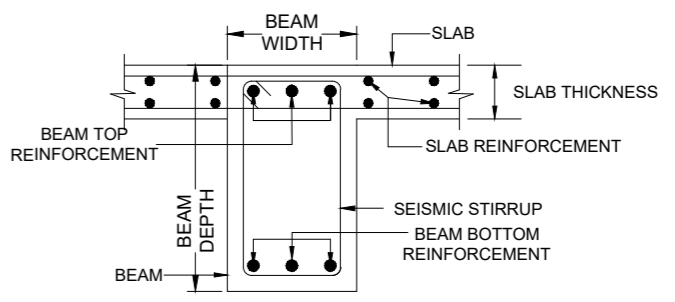
SECTION 1-1



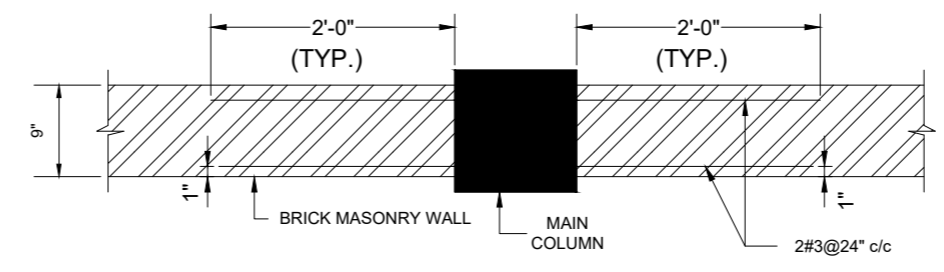
TYP. SECTION OF PARAPET WALL



TYP. SECTION OF EXTERNAL BEAM (L-SHAPED)



TYP. SECTION OF INTERNAL BEAM (T-SHAPED)



TYP. WALL & MAIN COLUMN JOINT DETAIL SECTION 2-2

ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

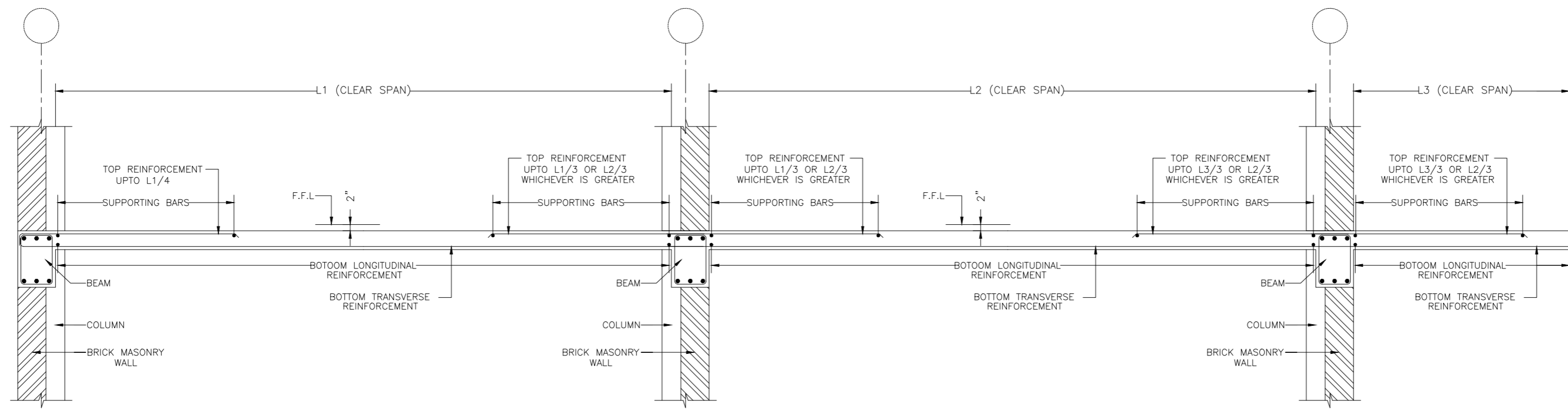


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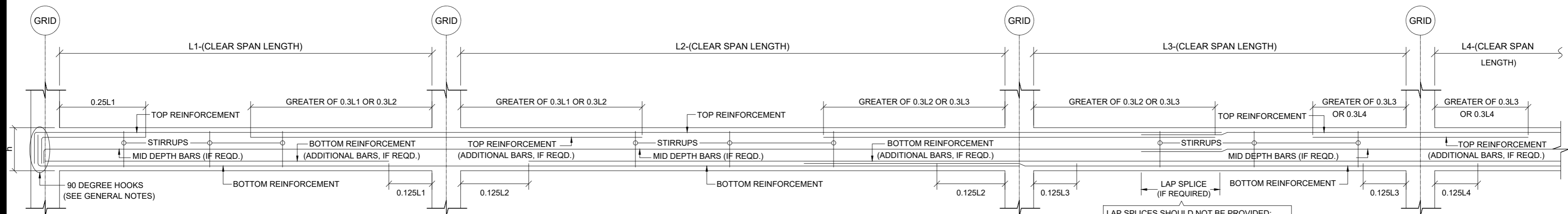
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 TITLE: **TYPICAL DETAIL**

CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>		
DESIGNED BY: ENG. AHMAD	APPROVED BY:	DATE : FEB. 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-03	



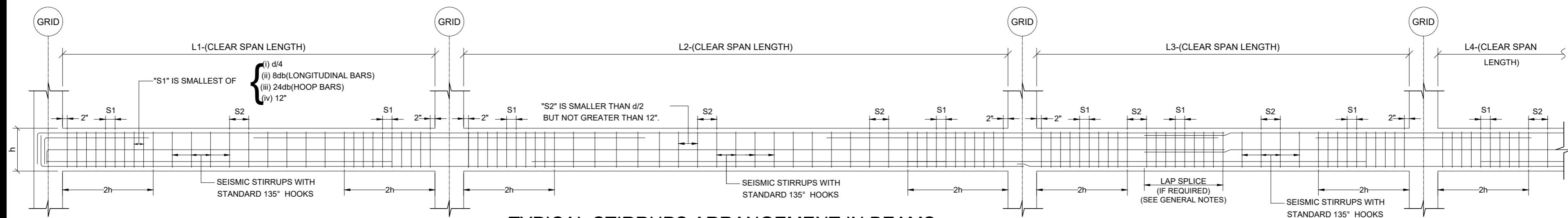


TYPICAL SECTION OF SLAB  
REINFORCEMENT CURTAILMENT DETAIL



TYPICAL MAIN BARS ARRANGEMENT IN BEAMS

LAP SPLICES SHOULD NOT BE PROVIDED:  
(1) WITHIN JOINTS.  
(2) WITHIN A DISTANCE OF TWICE THE MEMBER DEPTH.  
(3) AT CENTRE OF CLEAR SPAN OF BEAM.



TYPICAL STIRRUPS ARRANGEMENT IN BEAMS

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ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

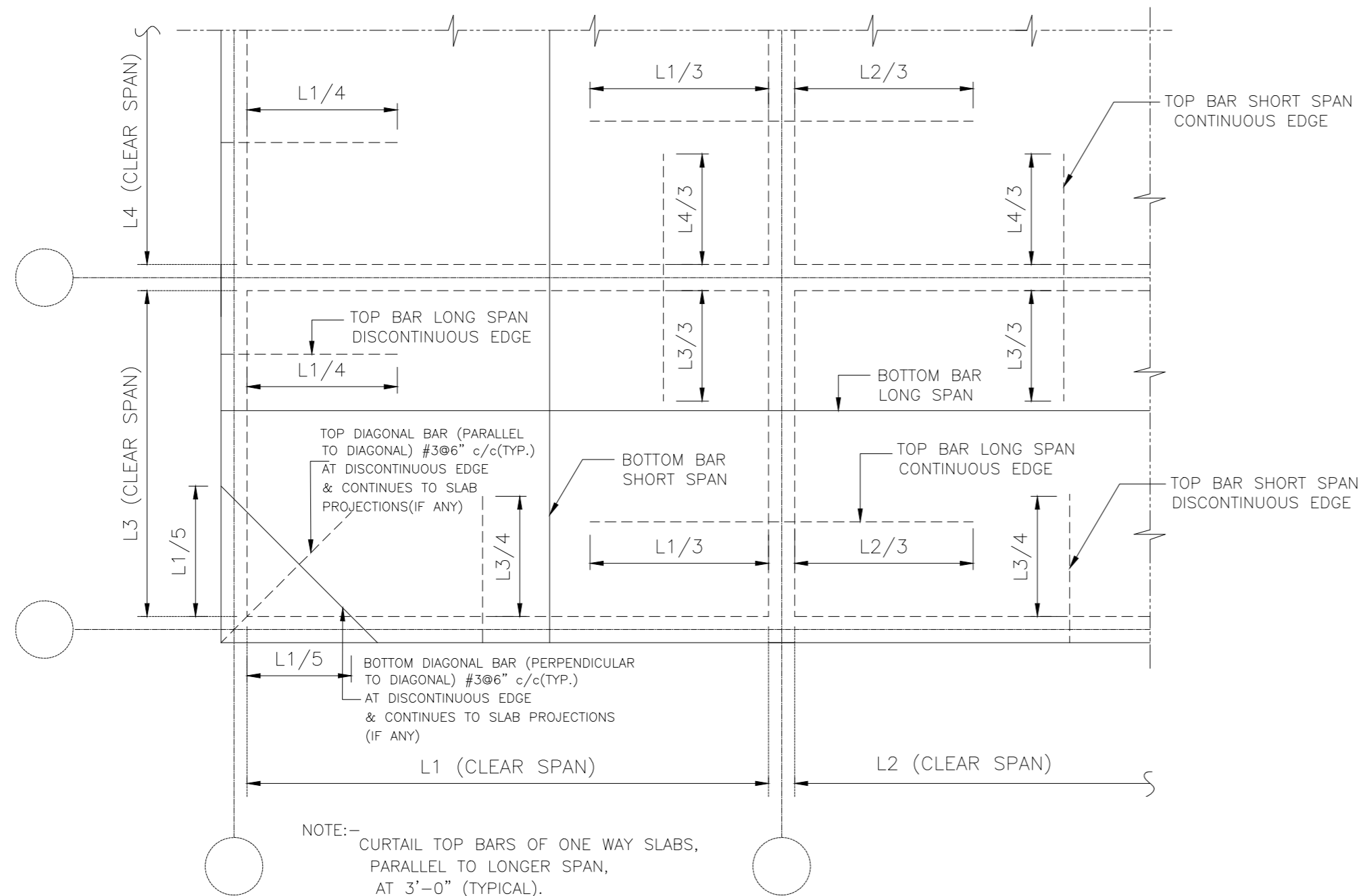


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 APPROVED BY:   
 DATE: FEB, 2024  
 DRAWN BY: MATHEW SIMON  
 JOB NO.:   
 SCALE: N.T.S  
 DRG. NO.: ST-04





NOTE:- CURTAIL TOP BARS OF ONE WAY SLABS, PARALLEL TO LONGER SPAN, AT 3'-0" (TYPICAL).

TYP. TWO WAY SLAB REINFORCEMENT CURTAILMENT DETAIL  
SCALE: NTS

SCHEDULE OF LINTELS		
S/No	CLEAR SPAN	CONFIGURATION
1	UPTO 4'-0"	
2	UPTO 6'-6"	
3	UPTO 8'-0"	
5	UPTO 12'-0"	

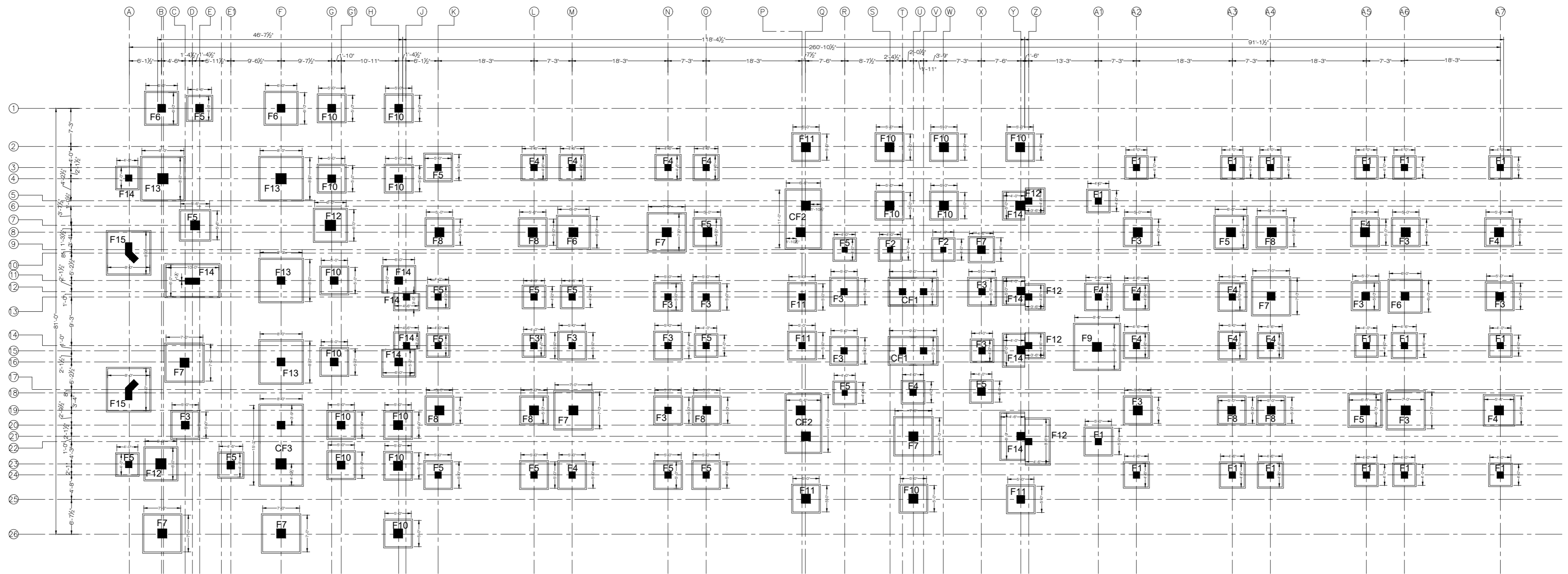
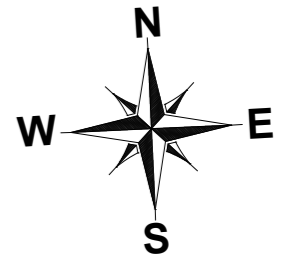
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 TITLE: **TYPICAL DETAIL**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 DESIGNED BY: ENG. AHMAD  
 APPROVED BY: [Signature]  
 DATE: FEB, 2024  
 DRAWN BY: MATHEW SIMON  
 JOB NO.: [Blank]  
 SCALE: N.T.S  
 DRG. NO.: ST-05



FOUNDATON LAYOUT PLAN  
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

NOTE:  
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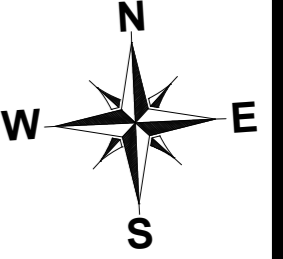
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 TITLE: **FOUNDATON LAYOUT PLAN**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 DESIGNED BY: ENG AHMAD  
 APPROVED BY: [Signature]  
 DATE: FEB,2024  
 DRAWN BY: MATHEW SIMON  
 JOB NO.: [Blank]  
 SCALE: N.T.S  
 DRG. NO.: ST-06



## SCHEDULE OF FOOTINGS

MARK	SIZE			REINFORCEMENT DETAIL				REMARKS
	L	W	H	BOTTOM BARS		TOP BARS		
				BS	BL	TS	TL	
F1	AS PER PLAN		12"	#4@6" c/c	#4@6" c/c	#3@8" c/c	#3@8" c/c	ISOLATED FOOTING
F2	AS PER PLAN		12"	#4@6" c/c	#4@6" c/c	#3@8" c/c	#3@8" c/c	ISOLATED FOOTING
F3	AS PER PLAN		15"	#5@7" c/c	#5@7" c/c	#3@8" c/c	#3@8" c/c	ISOLATED FOOTING
F4	AS PER PLAN		15"	#4@6" c/c	#4@6" c/c	#3@8" c/c	#3@8" c/c	ISOLATED FOOTING
F5	AS PER PLAN		15"	#4@6" c/c	#4@6" c/c	#3@8" c/c	#3@8" c/c	ISOLATED FOOTING
F6	AS PER PLAN		15"	#4@6" c/c	#4@6" c/c	#3@8" c/c	#3@8" c/c	ISOLATED FOOTING
F7	AS PER PLAN		18"	#5@7" c/c	#5@7" c/c	#4@7" c/c	#4@7" c/c	ISOLATED FOOTING
F8	AS PER PLAN		15"	#5@7" c/c	#5@7" c/c	#5@7" c/c	#5@7" c/c	ISOLATED FOOTING
F9	AS PER PLAN		18"	#5@6" c/c	#5@6" c/c	#4@8" c/c	#4@8" c/c	ISOLATED FOOTING
F10	AS PER PLAN		18"	#5@6" c/c	#5@6" c/c	#4@7" c/c	#4@7" c/c	ISOLATED FOOTING
F11	AS PER PLAN		18"	#5@6" c/c	#5@6" c/c	#3@7" c/c	#3@7" c/c	ISOLATED FOOTING
F12	AS PER PLAN		21"	#5@5" c/c	#5@5" c/c	#4@8" c/c	#4@8" c/c	ISOLATED FOOTING
F13	AS PER PLAN		21"	#5@5" c/c	#5@5" c/c	#4@6" c/c	#4@6" c/c	ISOLATED FOOTING
F14	AS PER PLAN		24"	#5@5" c/c	#5@5" c/c	#4@8" c/c	#4@8" c/c	ISOLATED FOOTING
F15	AS PER PLAN		27"	#6@6" c/c	#6@6" c/c	#4@8" c/c	#4@8" c/c	ISOLATED FOOTING
CF1	SIZE AS PER PLAN		18"	#5@7" c/c	#5@7" c/c	#4@8" c/c	#4@8" c/c	COMBINED FOOTING
CF2			18"	#5@6" c/c	#5@6" c/c	#4@7" c/c	#4@6" c/c	COMBINED FOOTING
CF3			21"	#5@5" c/c	#5@5" c/c	#4@6" c/c	#4@6" c/c	COMBINED FOOTING

NOTE:  
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

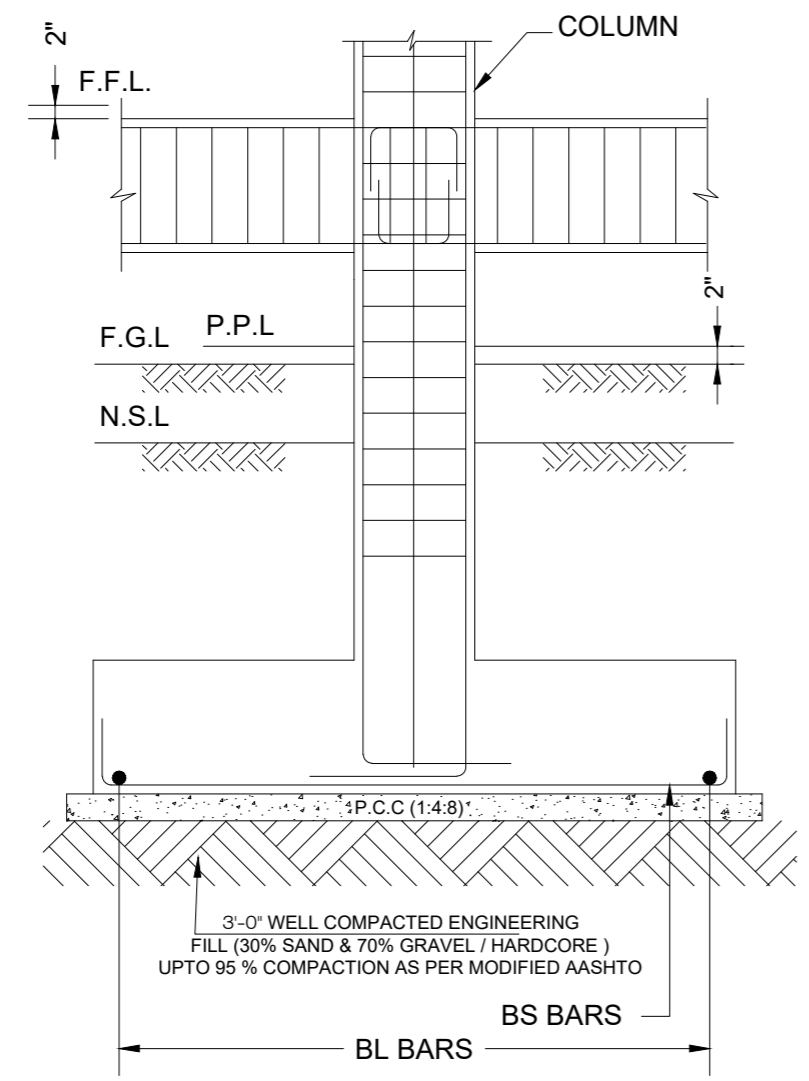
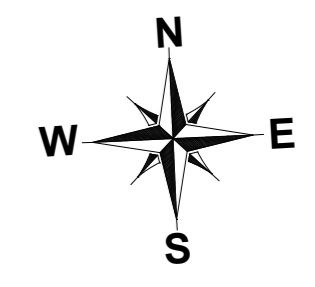


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 Email: newvisionec@yahoo.com  
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore  
 Ph: +92-42-37250130

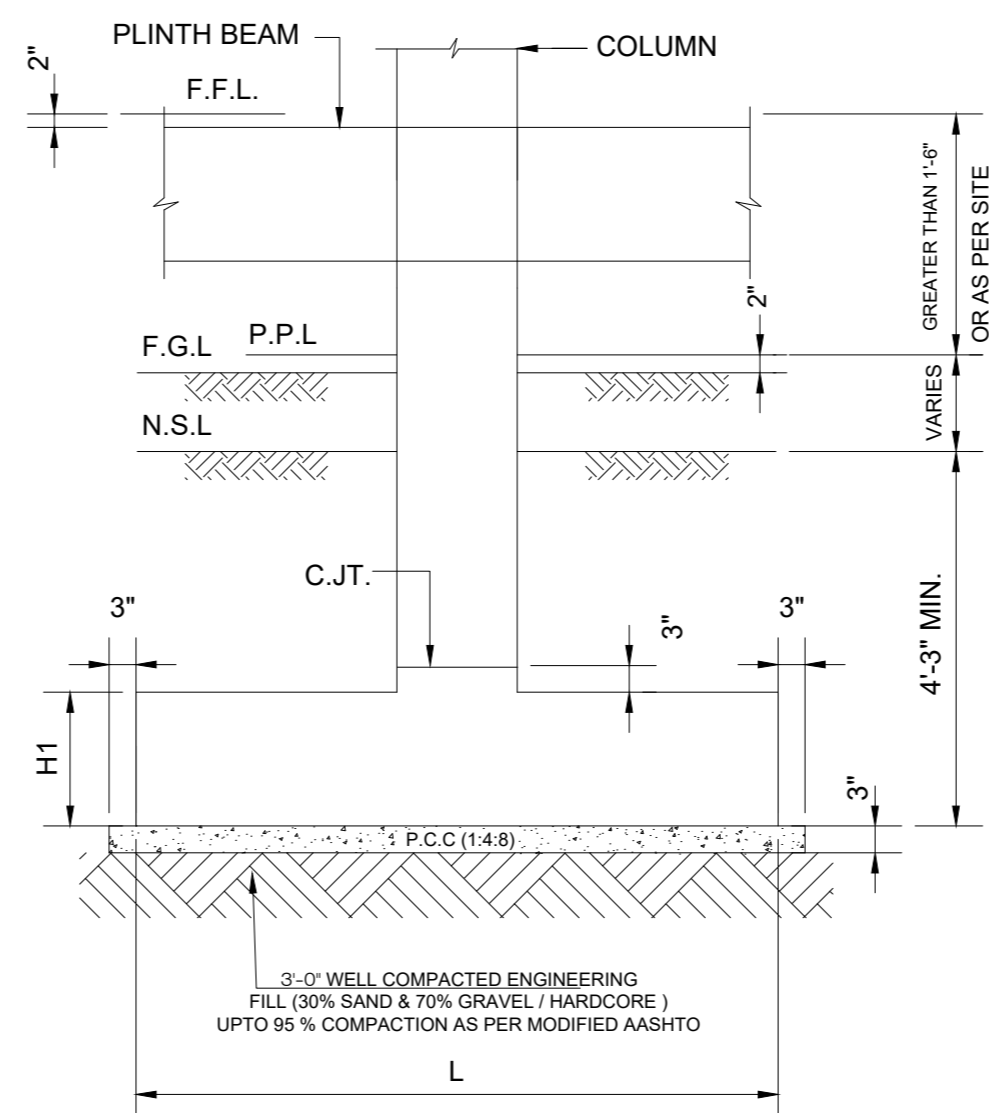
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 TITLE: **FOUNDATION SCHEDULE**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

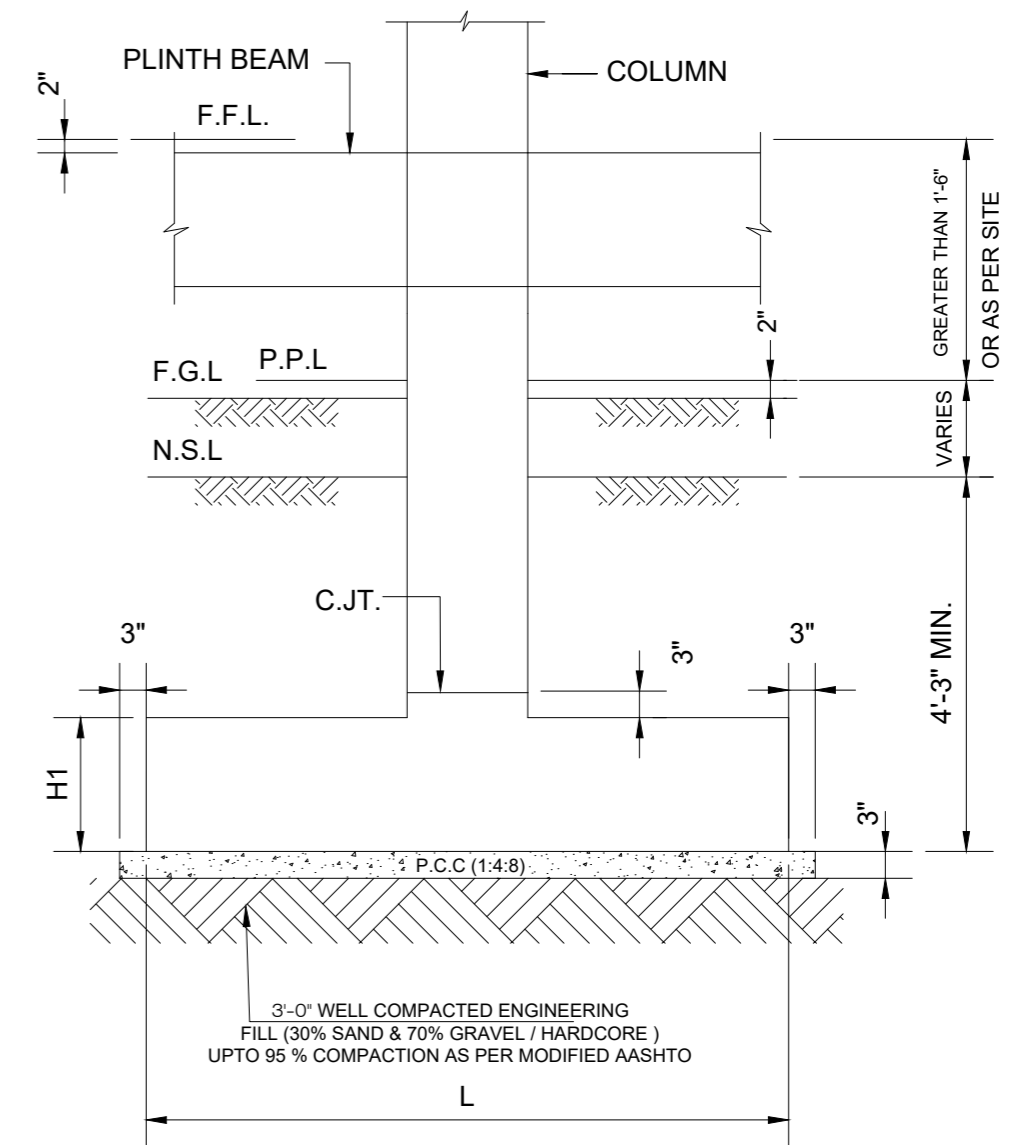
DESIGNED BY: ENG AHMAD	APPROVED BY:	DATE: FEB,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-07	



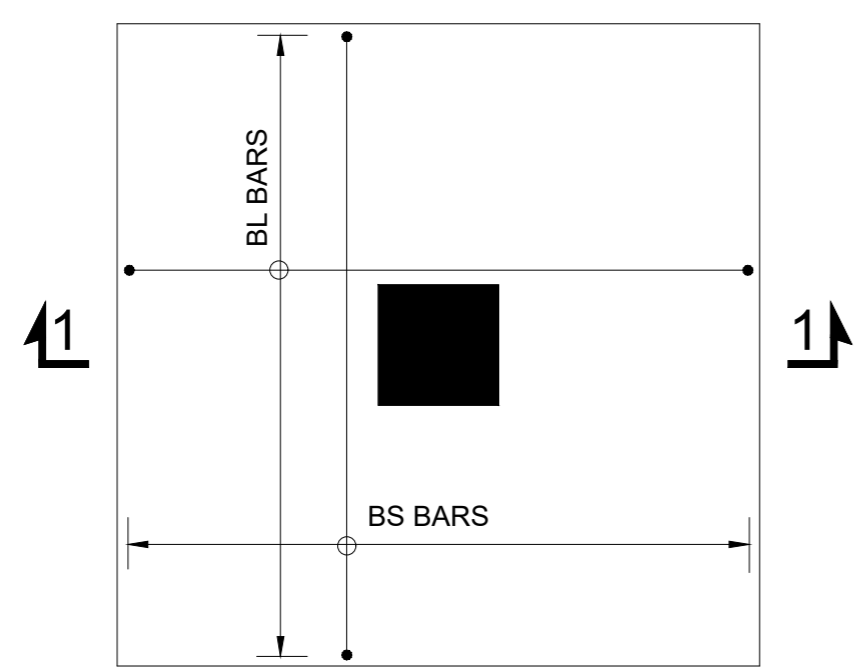
**SECTION 1-1**  
REINFORCEMENT DETAILS



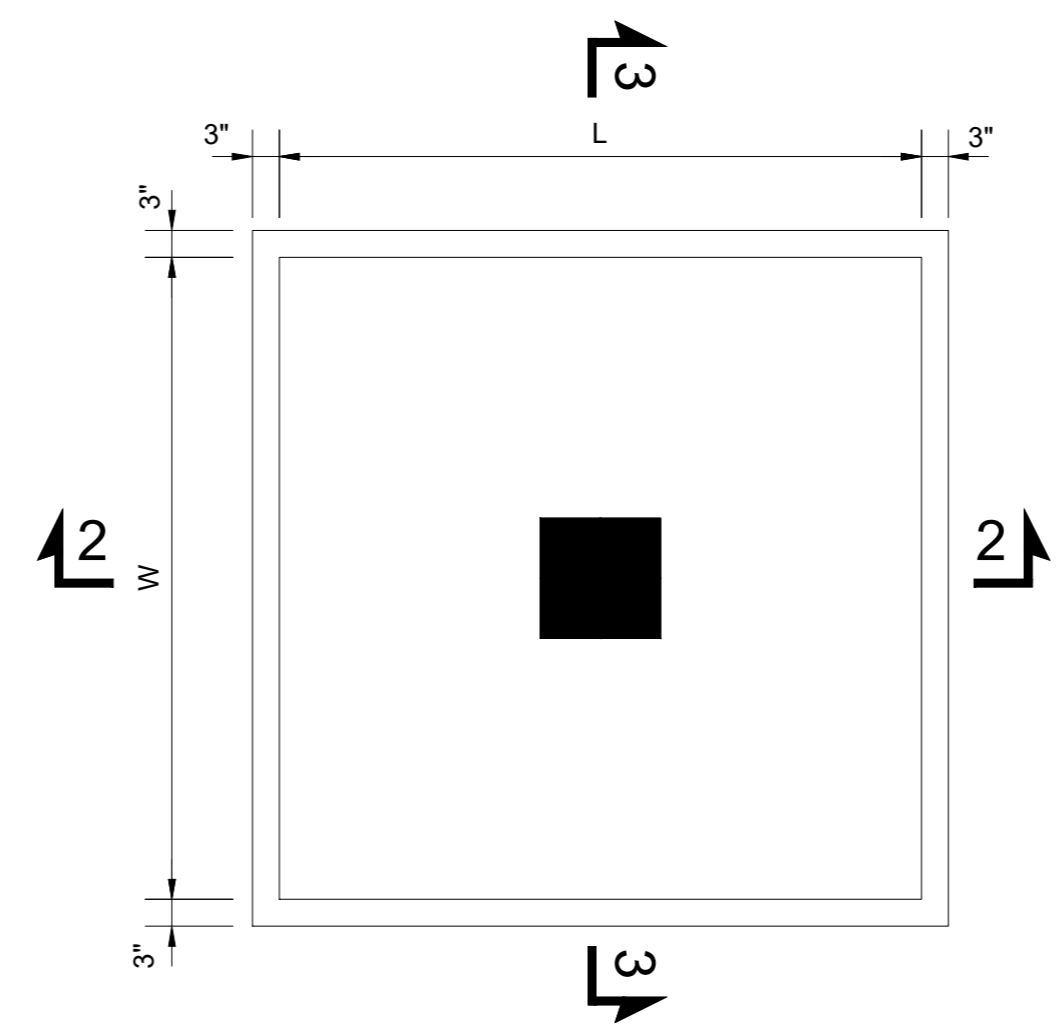
**SECTION 2-2**  
CONCRETE OUTLINE



**SECTION 3-3**  
CONCRETE OUTLINE



**ISOLATED FOOTING (TYP.)**  
REINFORCEMENT DETAILS



**ISOLATED FOOTING (TYP.)**  
CONCRETE OUTLINE

**NOTE:**  
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. . . . .  
9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

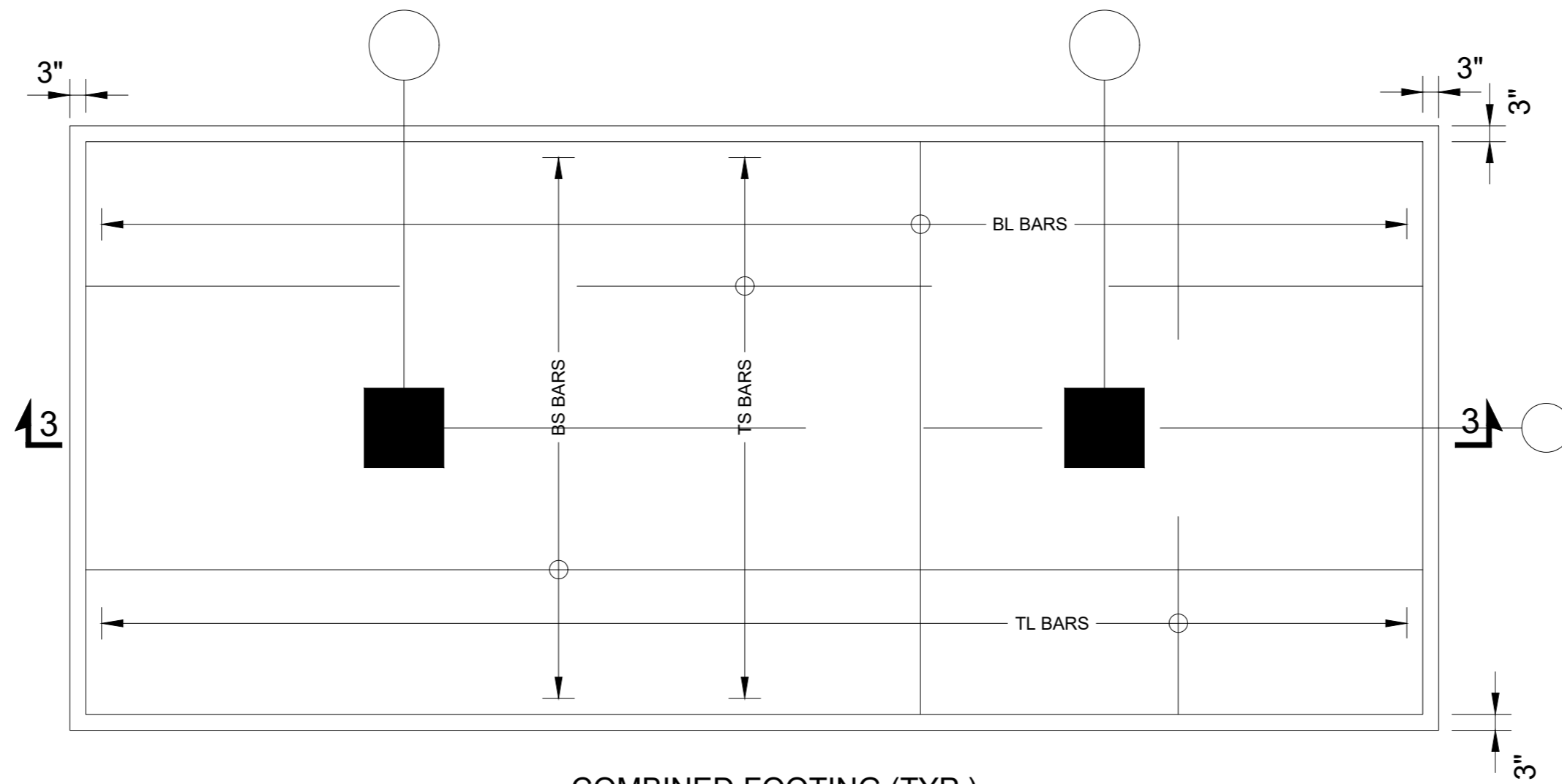
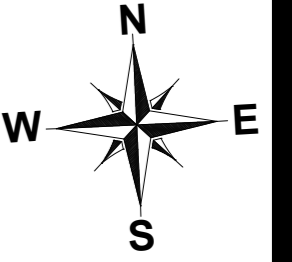
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



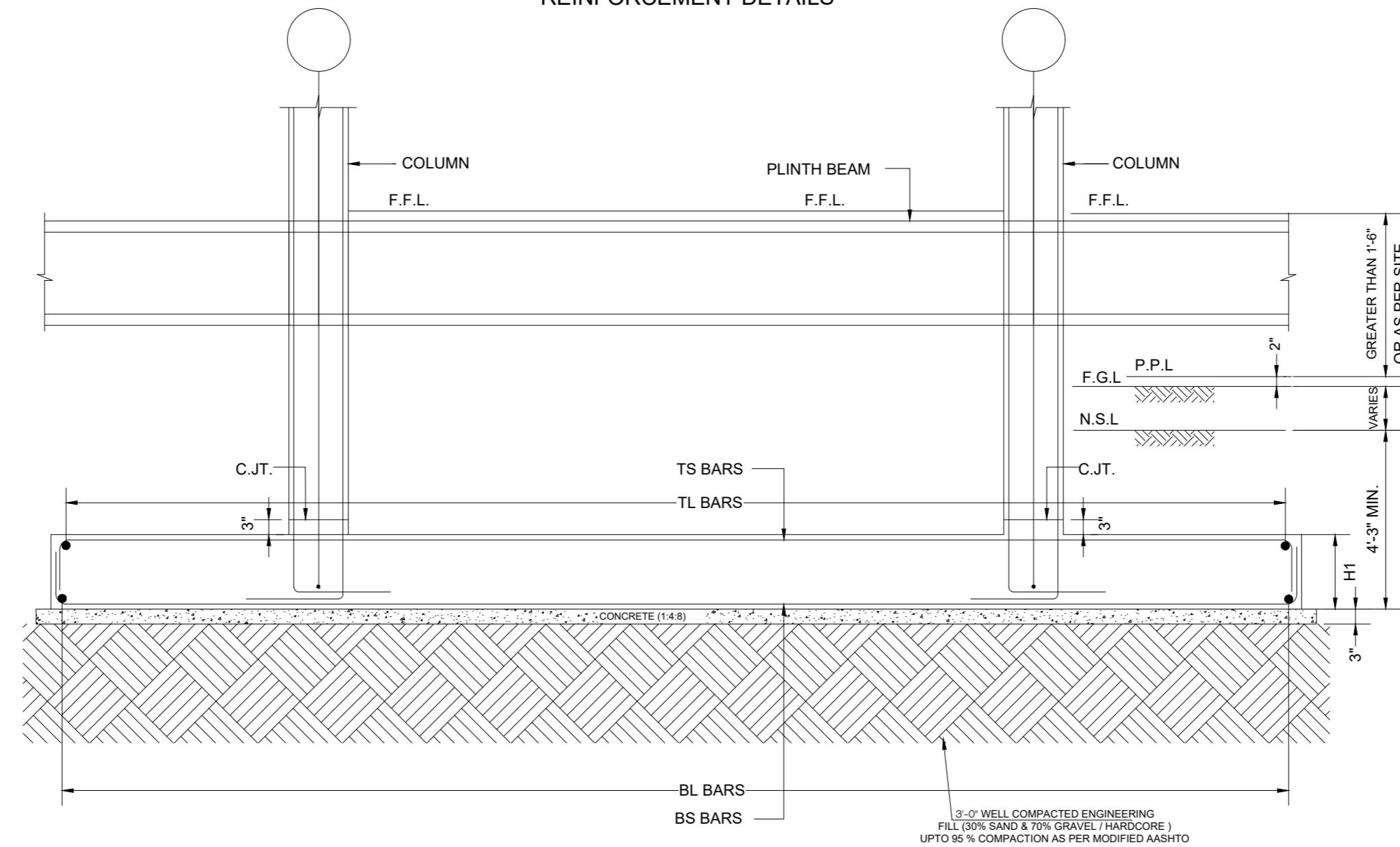
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Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore  
Ph: +92-42-37250130

PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	FOUNDATION SECTION	

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY:	ENG AHMAD	APPROVED BY:	
DRAWN BY:	MATHEW SIMON	JOB NO.:	
DRG. NO.:	ST-08	DATE:	FEB,2024
		SCALE:	N.T.S



COMBINED FOOTING (TYP.)  
REINFORCEMENT DETAILS



SECTION 3-3

NOTE:  
THE STRUCTURE IS DESIGNED AS COMPOSITE  
IN NATURE I.E. .  
9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION  
SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS  
SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



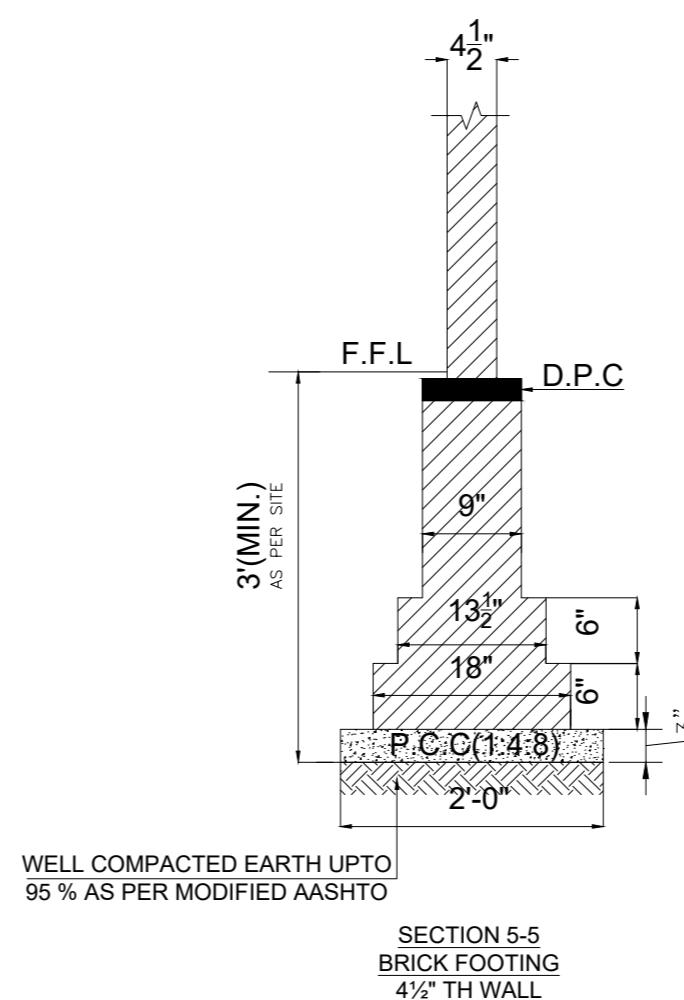
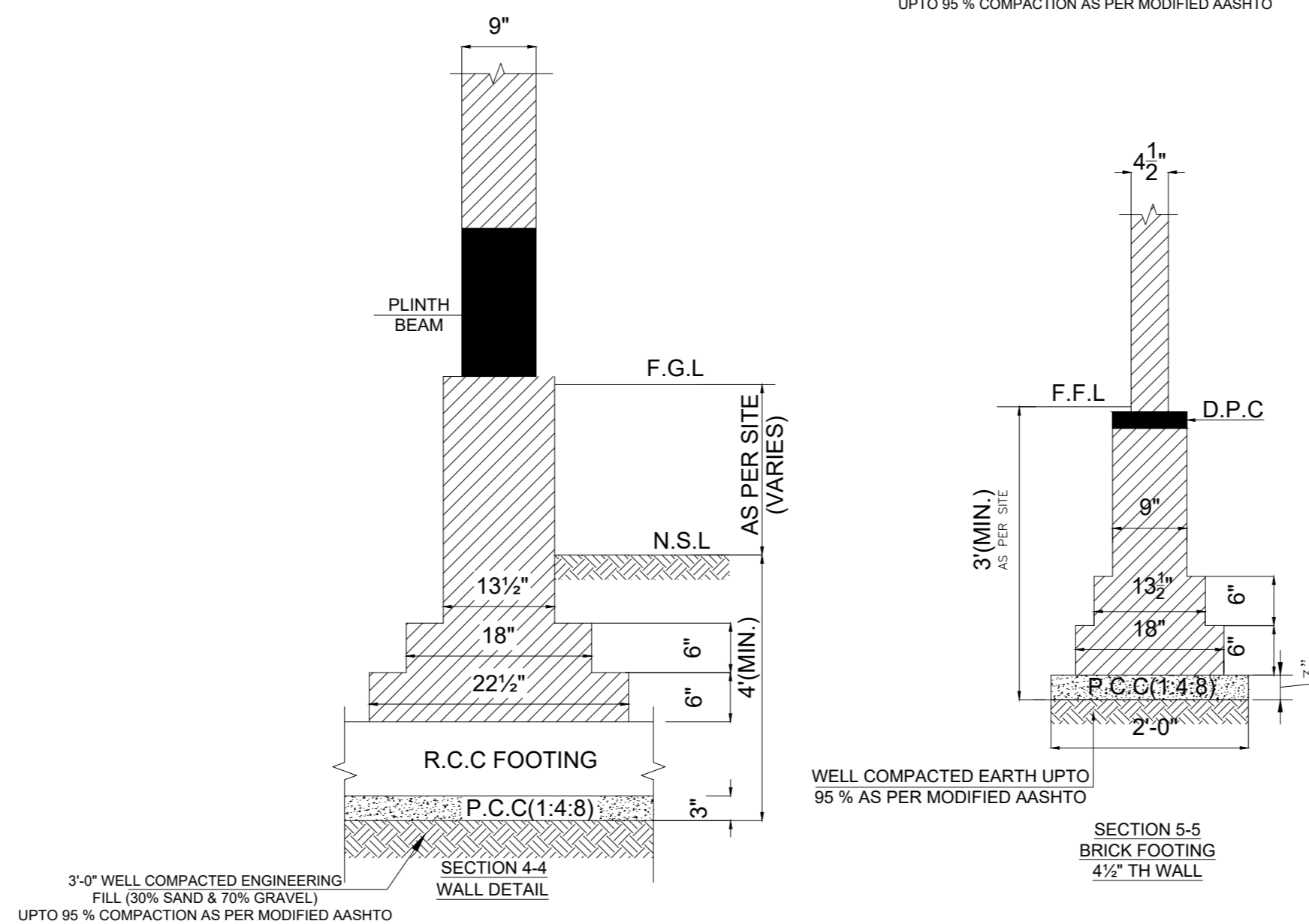
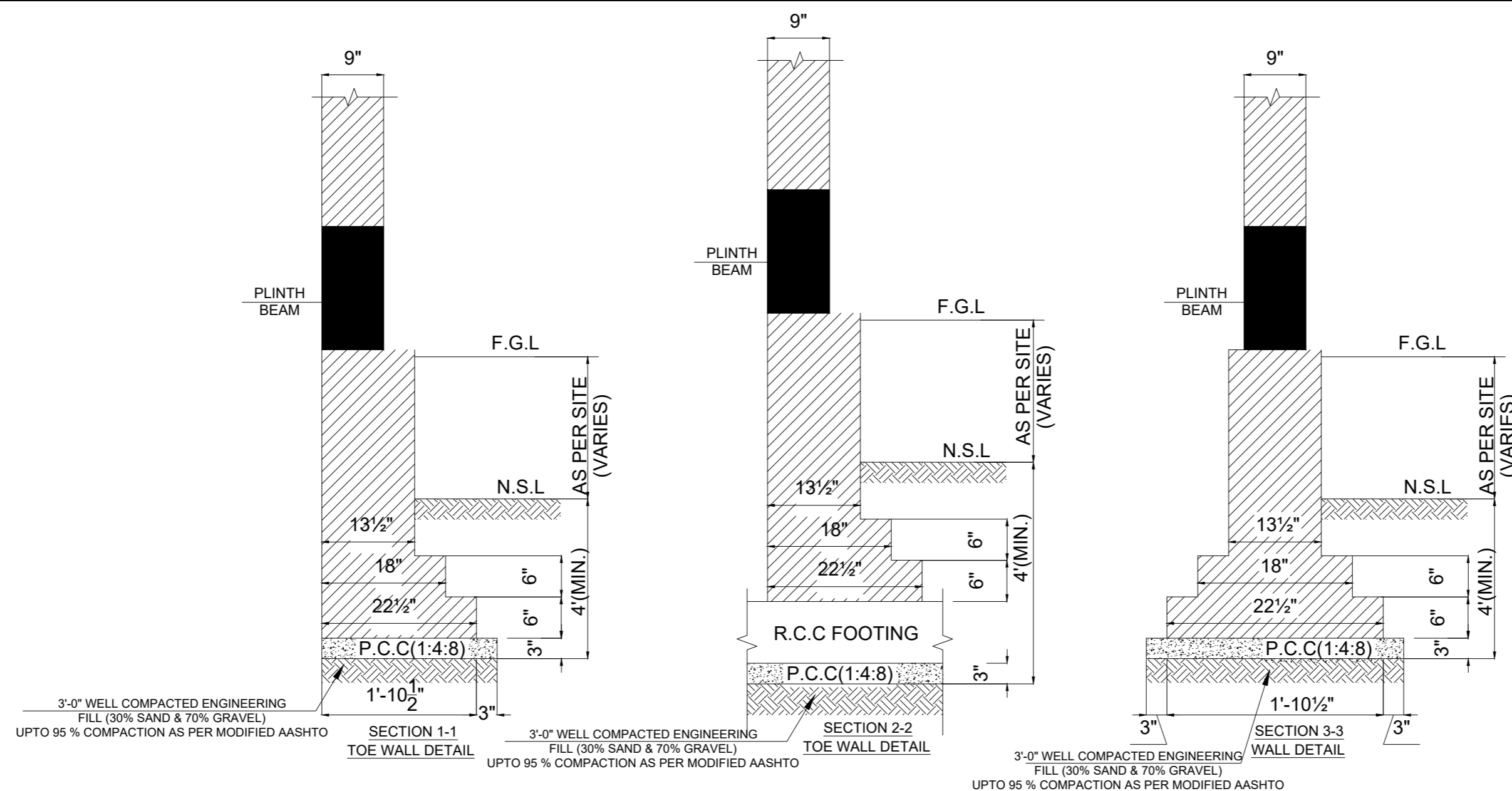
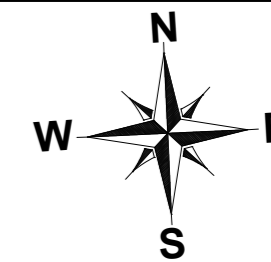
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PROJECT: **UPGRADATION AND IMPROVEMENT OF  
PEOPLE NURSING SCHOOL, LIAQUAT  
UNIVERSITY OF MEDICAL & HEALTH  
SCIENCE JAMSHORO**  
TITLE: **FOUNDATION SECTION**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL &  
HEALTH SCIENCE JAMSHORO**  
DESIGNED BY: ENG AHMAD  
APPROVED BY: \_\_\_\_\_  
DATE: FEB,2024  
DRAWN BY: MATHEW SIMON  
JOB NO.: \_\_\_\_\_  
SCALE: N.T.S  
DRG. NO.: \_\_\_\_\_  
ST-09







NOTE:  
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. .  
9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

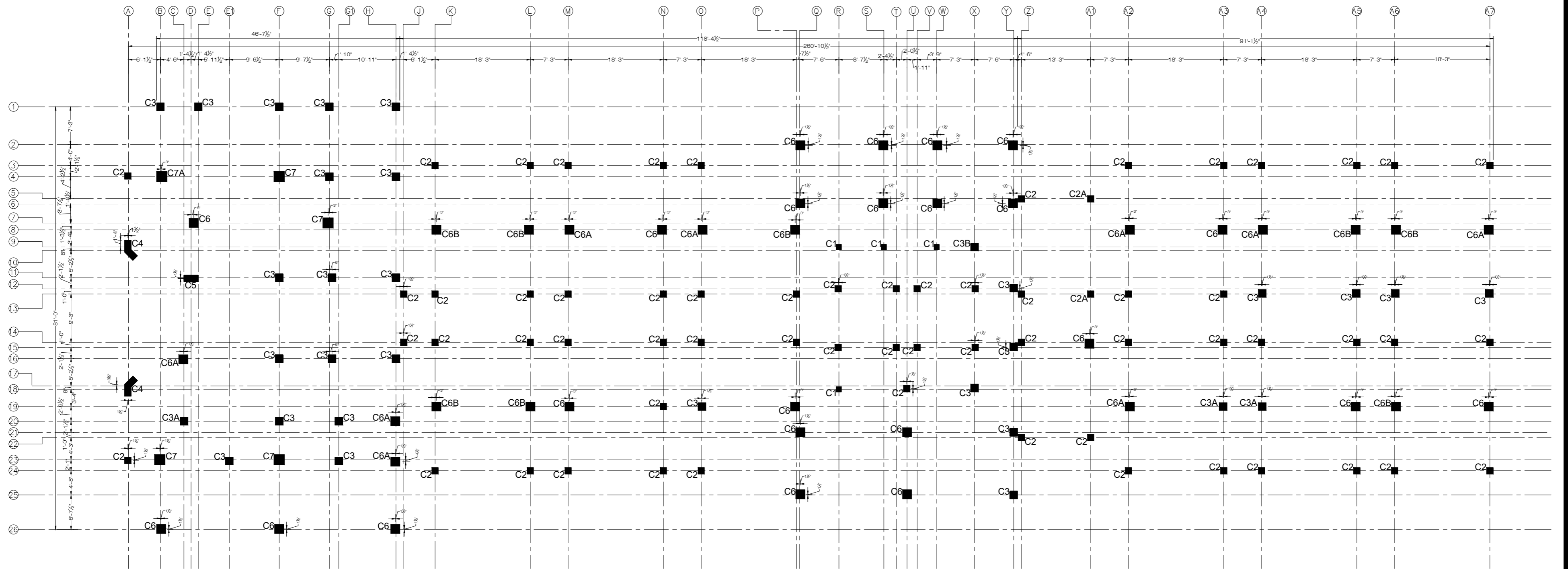
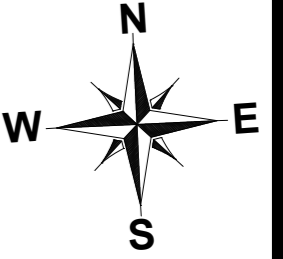
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
TITLE: **BRICK MASONRY FOOTING SECTION**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
DESIGNED BY: ENG AHMAD  
APPROVED BY: [Signature]  
DATE: FEB,2024  
DRAWN BY: MATHEW SIMON  
JOB NO.: [Blank]  
SCALE: N.T.S  
DRG. NO.: ST-11



**COLUMN LAYOUT GROUND FLOOR PLAN**  
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

**NOTE:**  
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. .  
9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

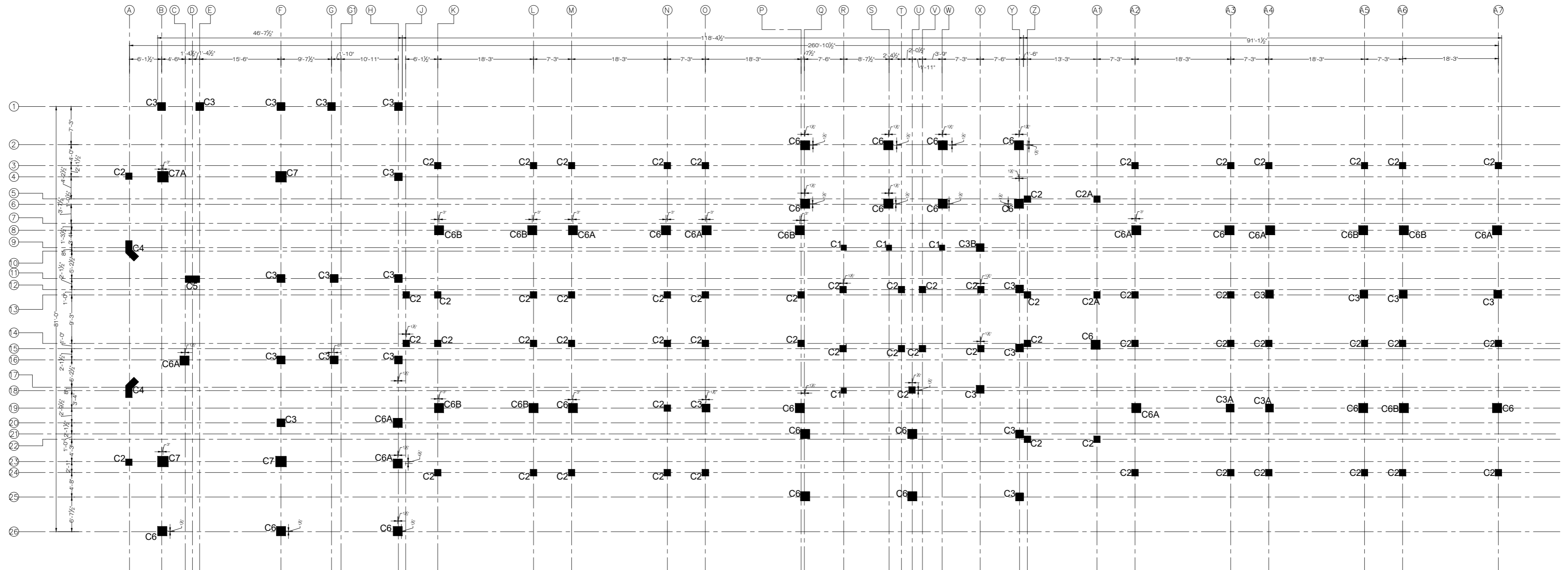
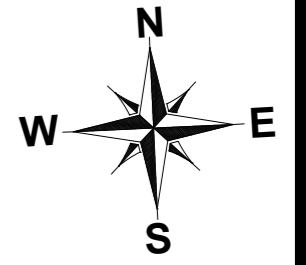
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
TITLE: **GROUND FLOOR COLUMN LAYOUT PLAN**

CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>		
DESIGNED BY: <b>ENG AHMAD</b>	APPROVED BY:	DATE: <b>FEB,2024</b>
DRAWN BY: <b>MATHEW SIMON</b>	JOB NO.:	SCALE: <b>N.T.S</b>
DRG. NO.:	ST-12	



**COLUMN LAYOUT FIRST FLOOR PLAN**  
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

**NOTE:**  
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. .  
9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

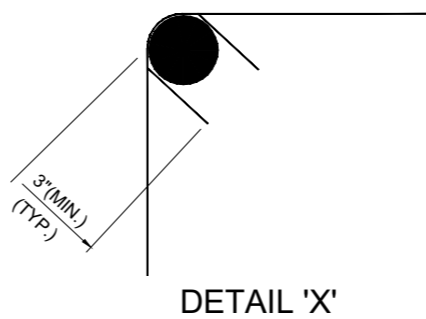
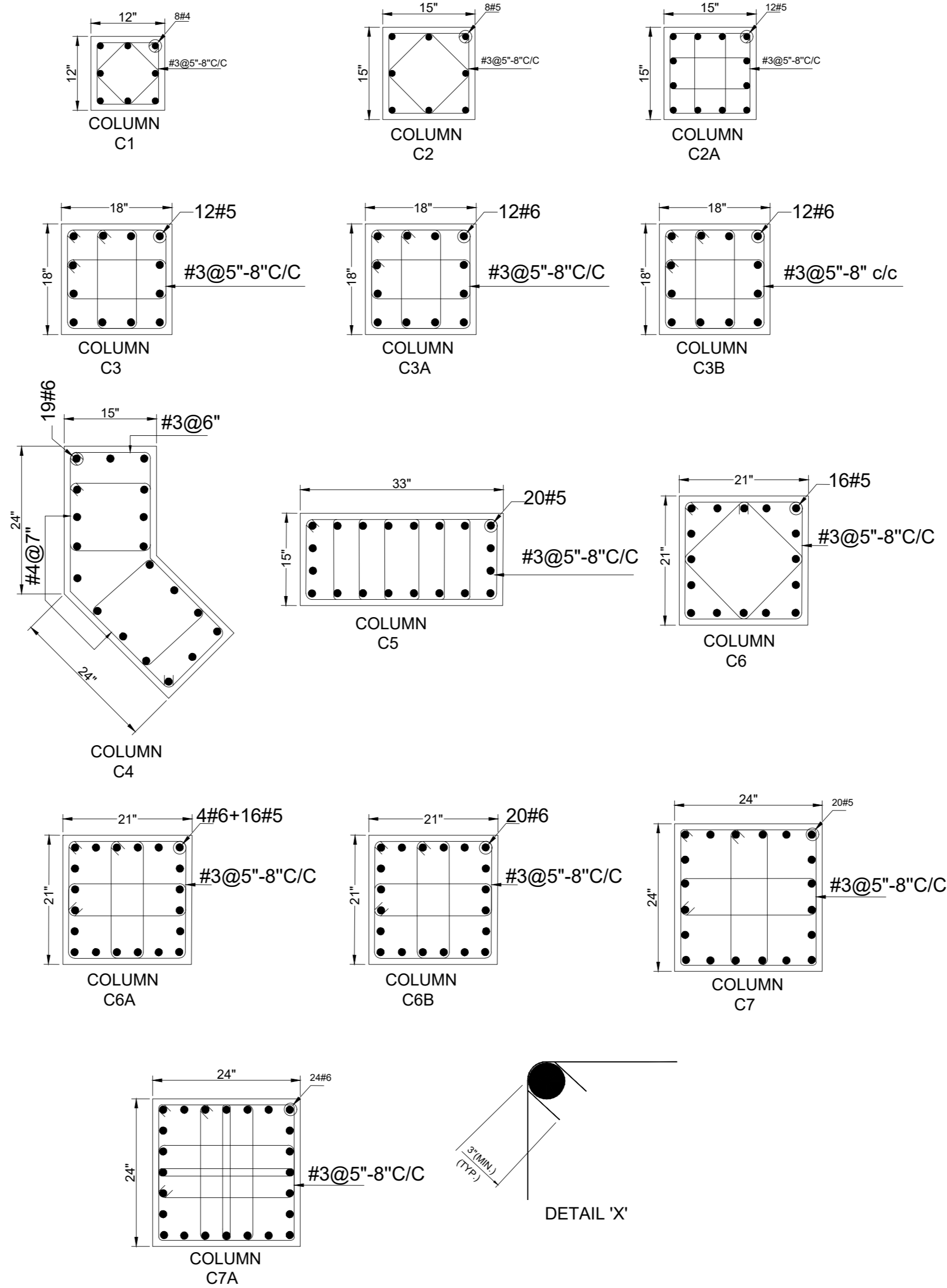
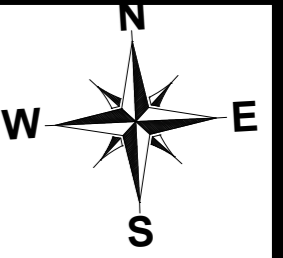


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Email: newvisionec@yahoo.com  
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Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
TITLE: **FIRST FLOOR COLUMN LAYOUT PLAN**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
DESIGNED BY: ENG AHMAD  
APPROVED BY: [Signature]  
DATE: FEB,2024  
DRAWN BY: MATHEW SIMON  
JOB NO.: [Blank]  
SCALE: N.T.S  
DRG. NO.: ST-12A





NOTE:  
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. .  
 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



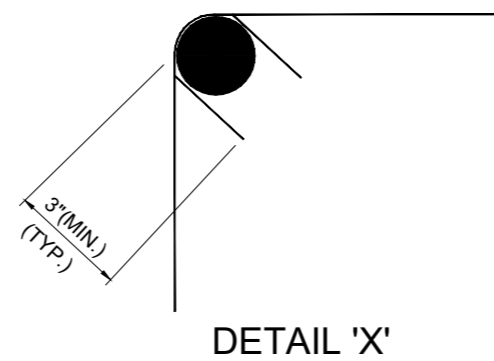
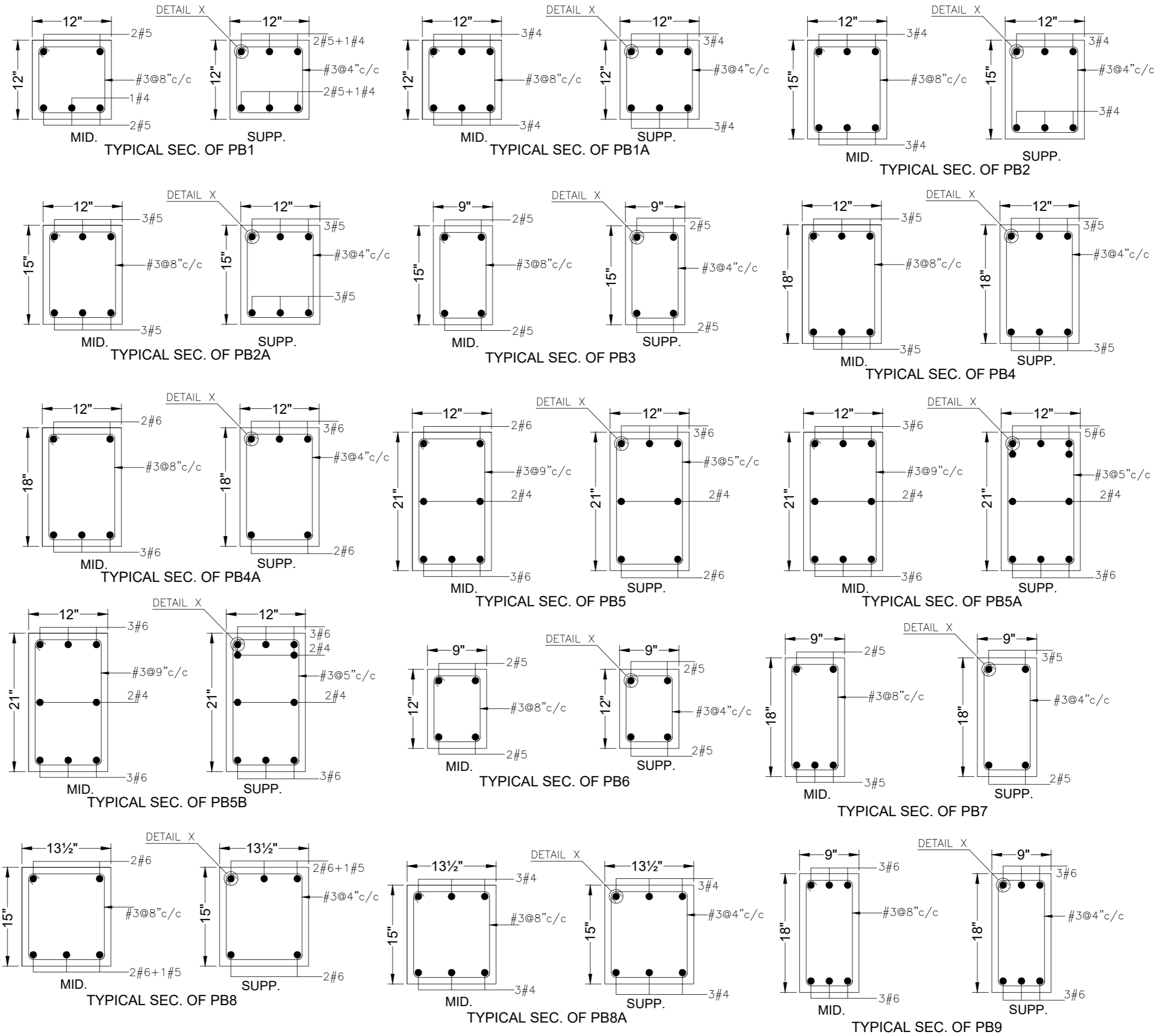
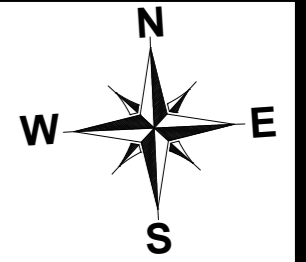
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 TITLE: **COLUMN SECTION**

CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>		
DESIGNED BY: <b>ENG AHMAD</b>	APPROVED BY:	DATE: <b>FEB,2024</b>
DRAWN BY: <b>MATHEW SIMON</b>	JOB NO.:	SCALE: <b>N.T.S</b>
DRG. NO.:	ST-13	







NOTE:  
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. ,  
 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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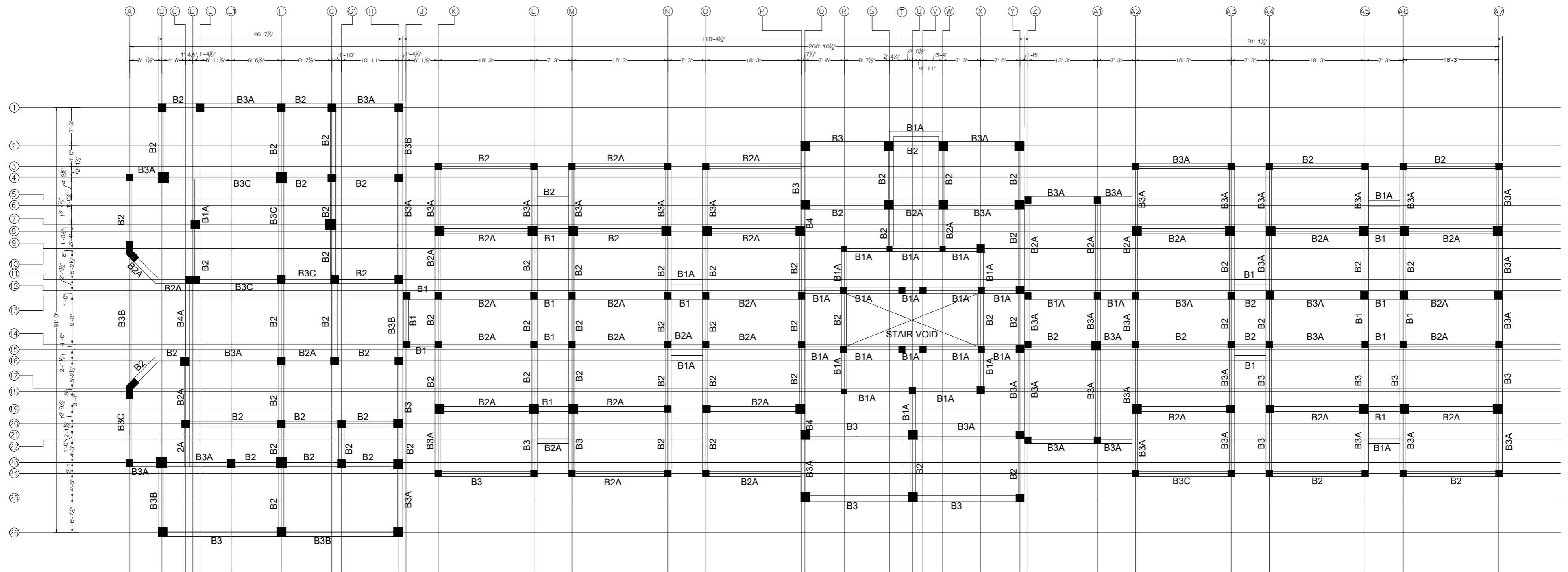
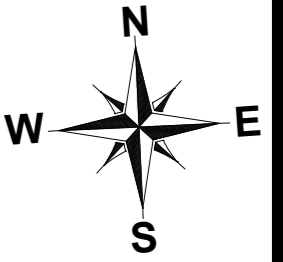
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **PLINTH BEAM SECTION**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENG AHMAD	APPROVED BY:	DATE: FEB,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-15	



GROUND FLOOR BEAM LAYOUT PLAN  
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

**NOTE:**  
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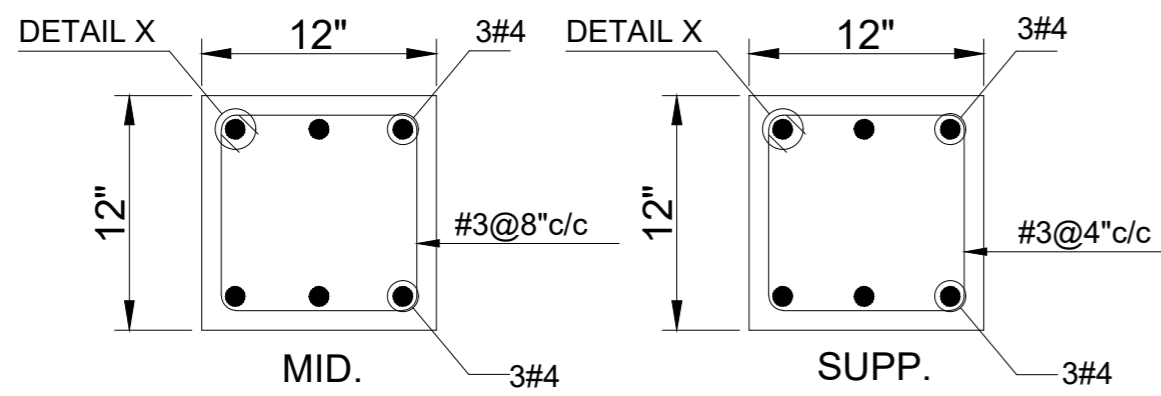
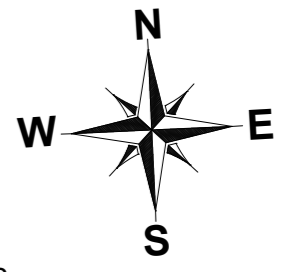
ADDITION & REVISION					
ADD.REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



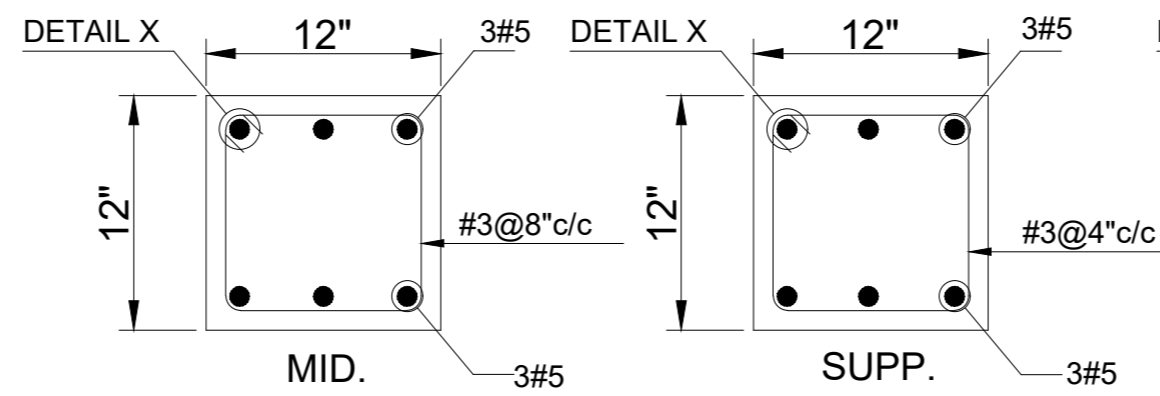
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
TITLE: **GROUND FLOOR BEAM LAYOUT PLAN**

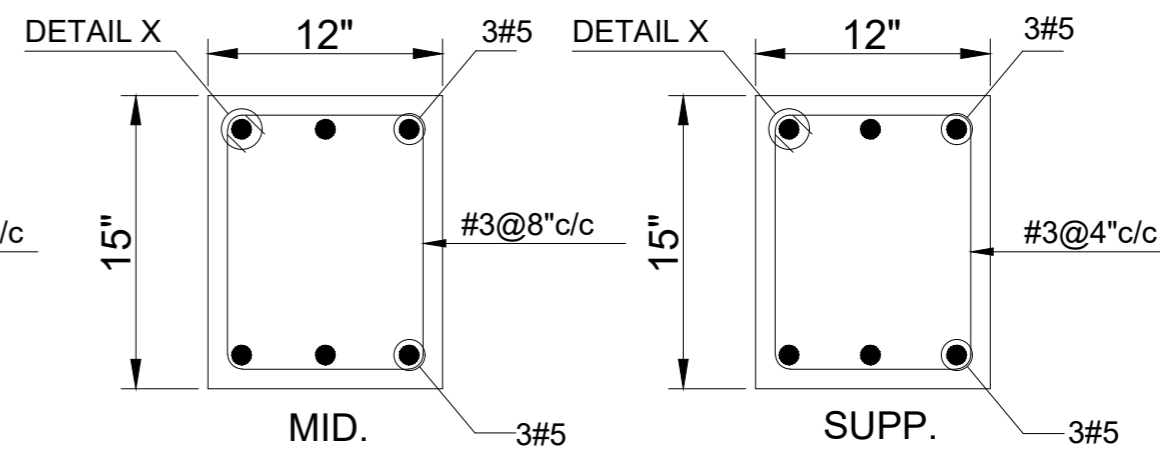
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DESIGNED BY: ENG AHMAD	APPROVED BY:	DATE: FEB,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-16	



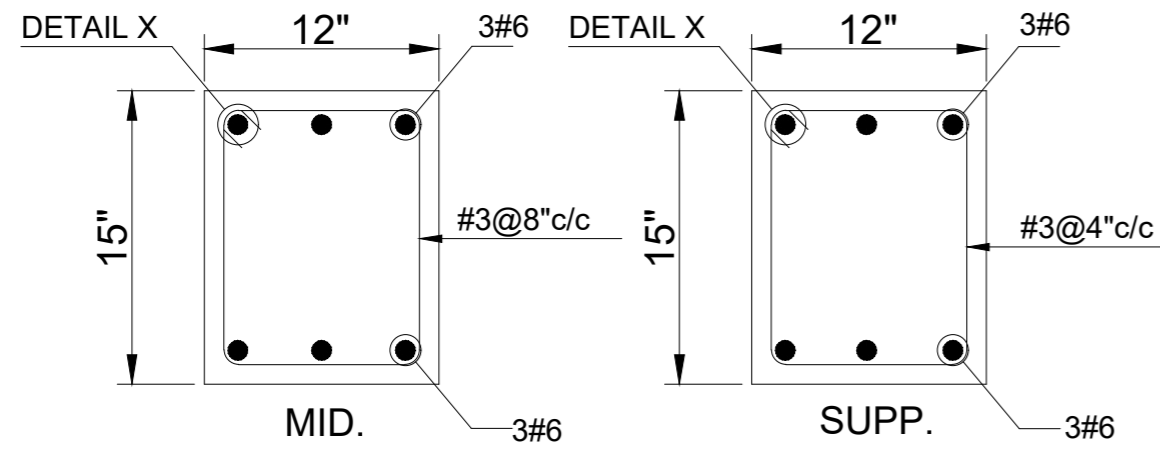
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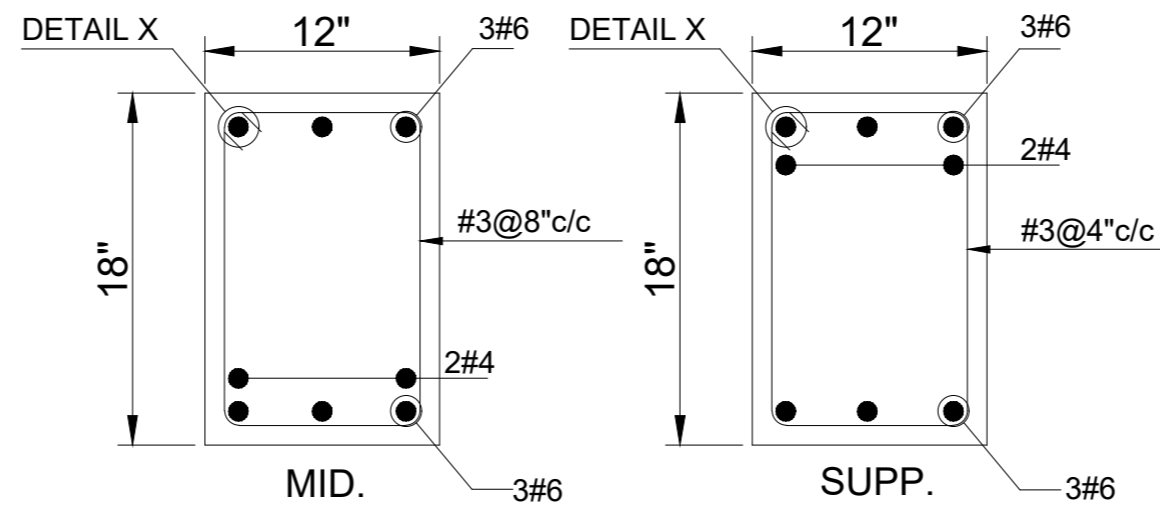
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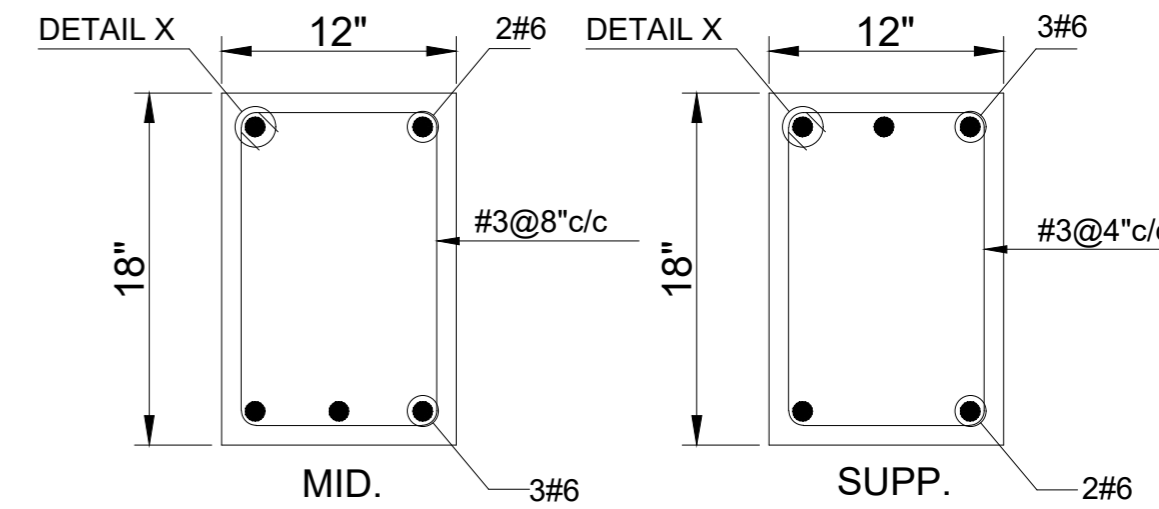
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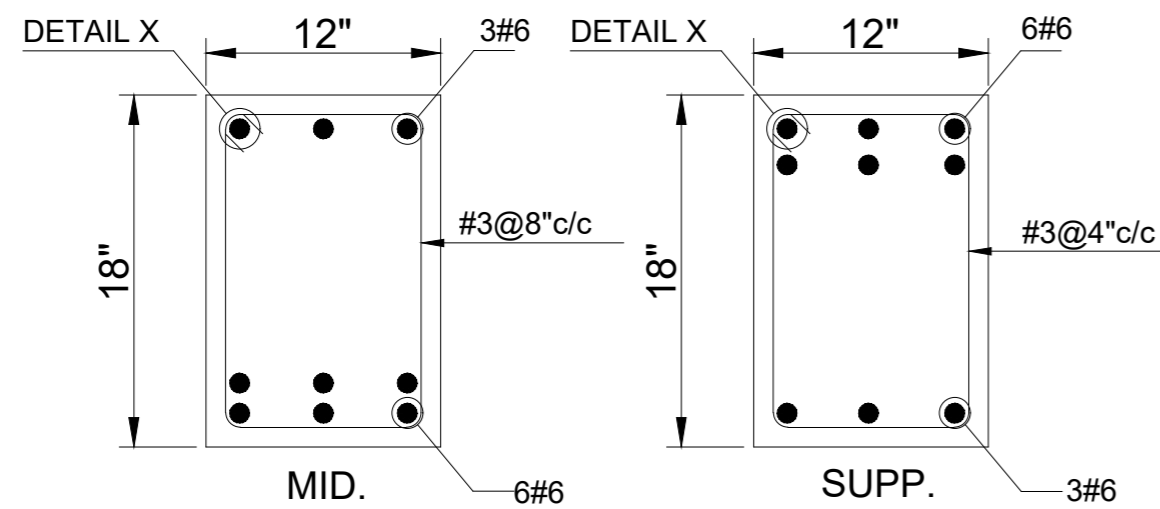
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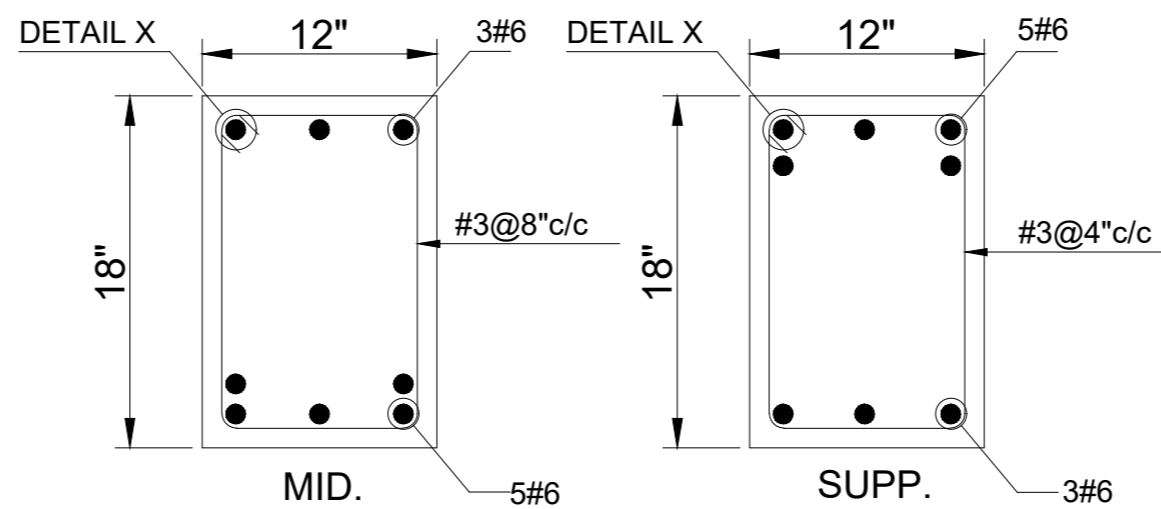
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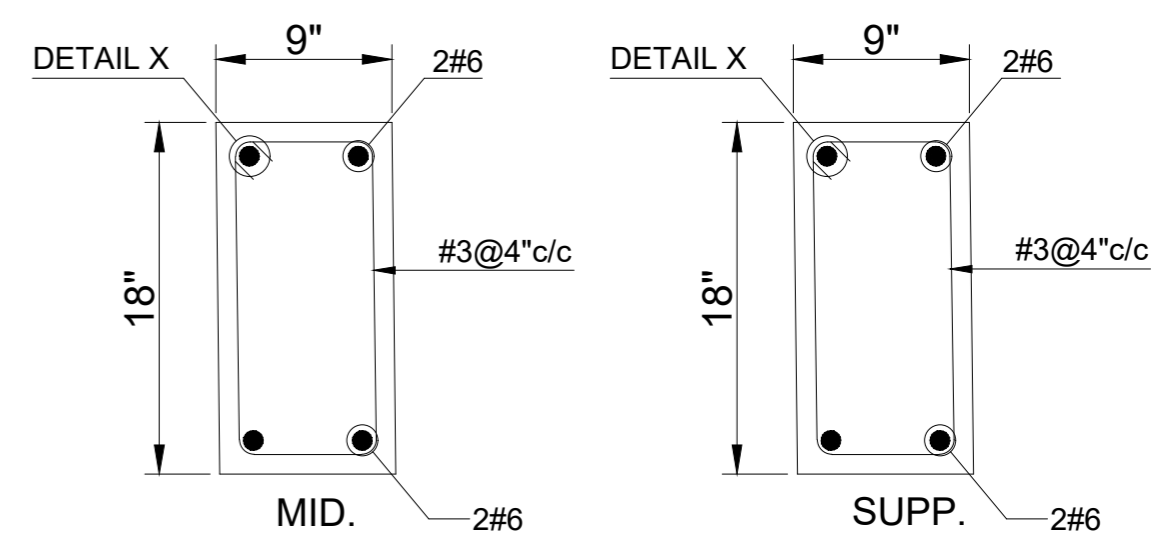
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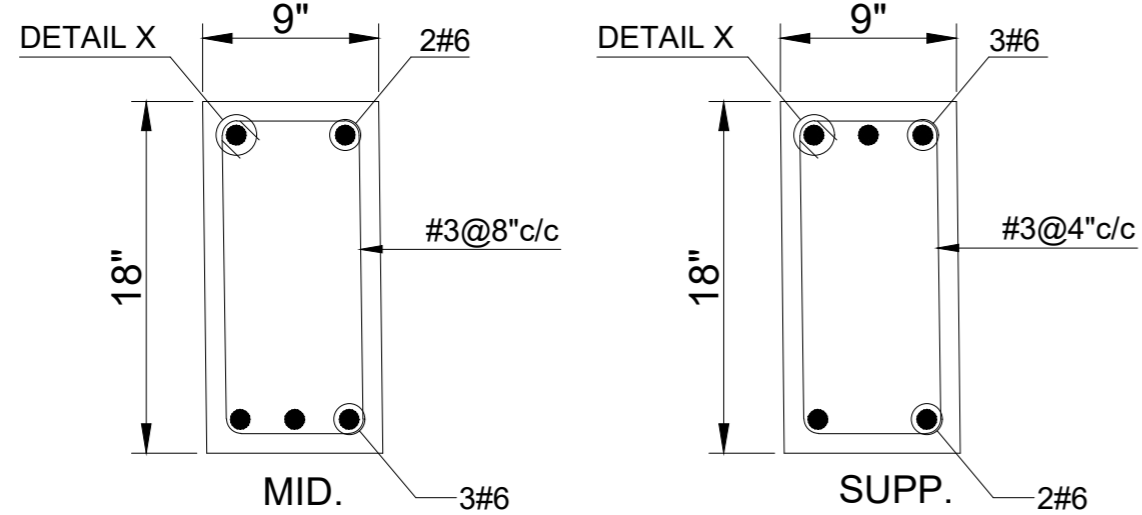
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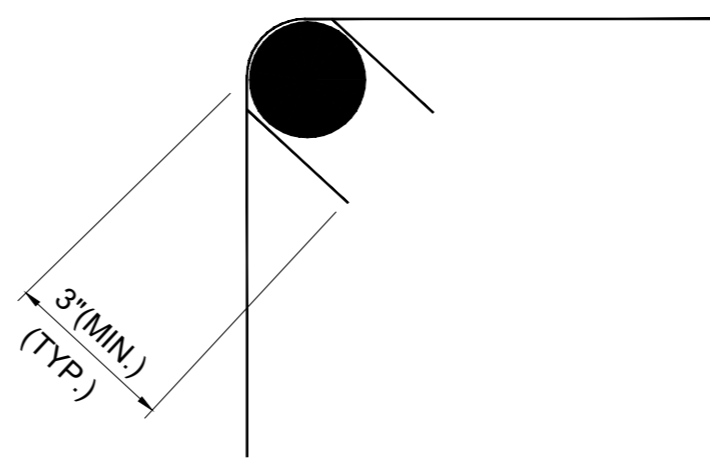
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TYPICAL SEC. OF B4



TYPICAL SEC. OF B4A



DETAIL 'X'

NOTE:  
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. 9" AND 13.5" WALLS ARE LOAD BEARING. THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

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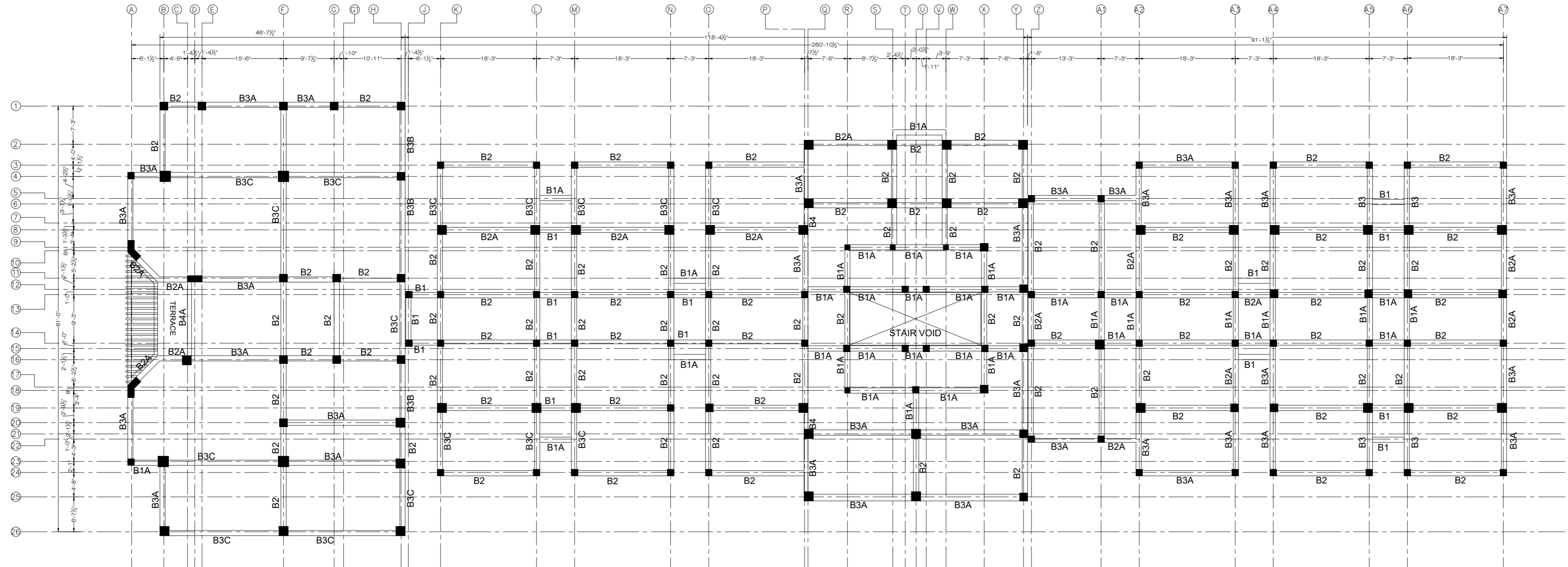
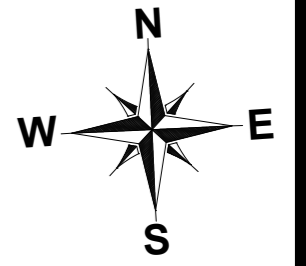


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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
TITLE: **GROUND FLOOR BEAM SECTION**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
DESIGNED BY: ENG AHMAD  
APPROVED BY: [Signature]  
DATE: FEB, 2024  
DRAWN BY: MATHEW SIMON  
JOB NO.: [Blank]  
SCALE: N.T.S  
DRG. NO.: ST-17





FIRST FLOOR BEAM LAYOUT PLAN  
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

NOTE:  
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. .  
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ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

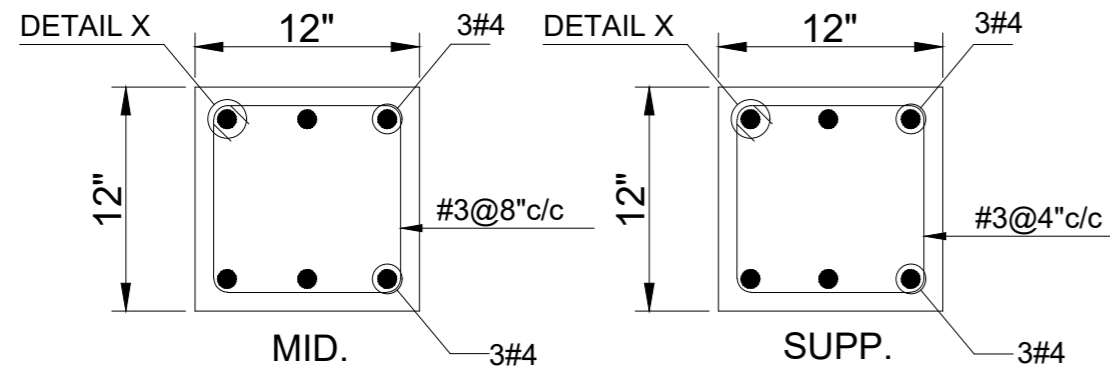
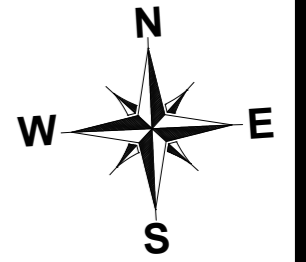


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 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade  
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 Ph: +92-51-4848375, Fax: +92-51-4848375  
 Email: newvisionec@yahoo.com  
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore  
 Ph: +92-42-37250130

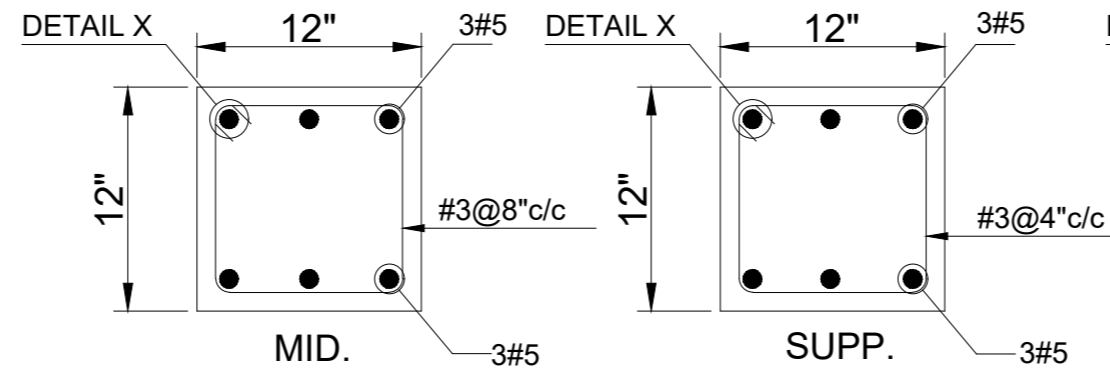
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 TITLE: **FIRST FLOOR BEAM LAYOUT PLAN**

CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>		
DESIGNED BY: <b>ENG AHMAD</b>	APPROVED BY:	DATE: <b>FEB,2024</b>
DRAWN BY: <b>MATHEW SIMON</b>	JOB NO.:	SCALE: <b>N.T.S</b>
DRG. NO.:	ST-18	

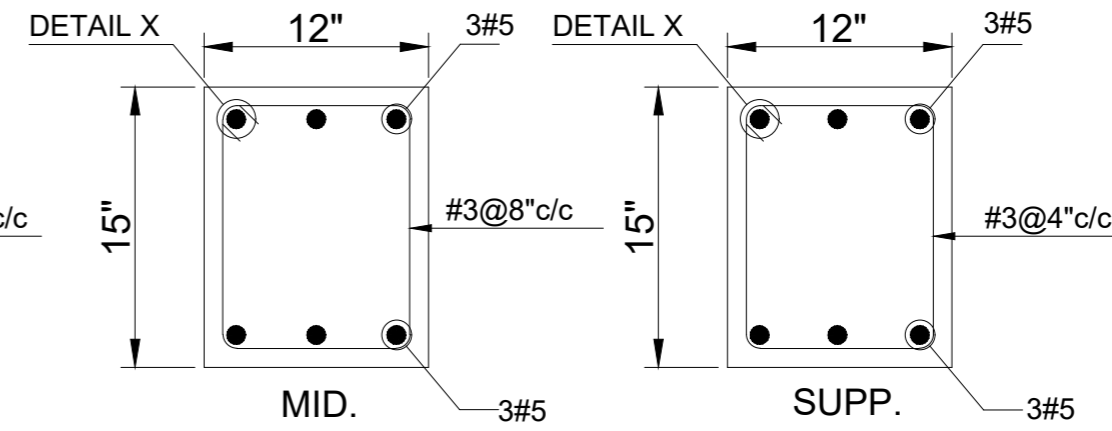




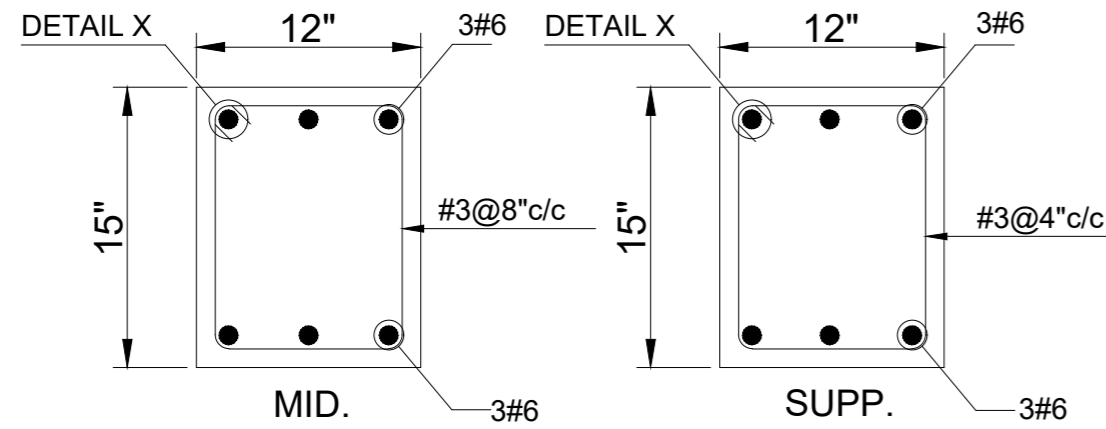
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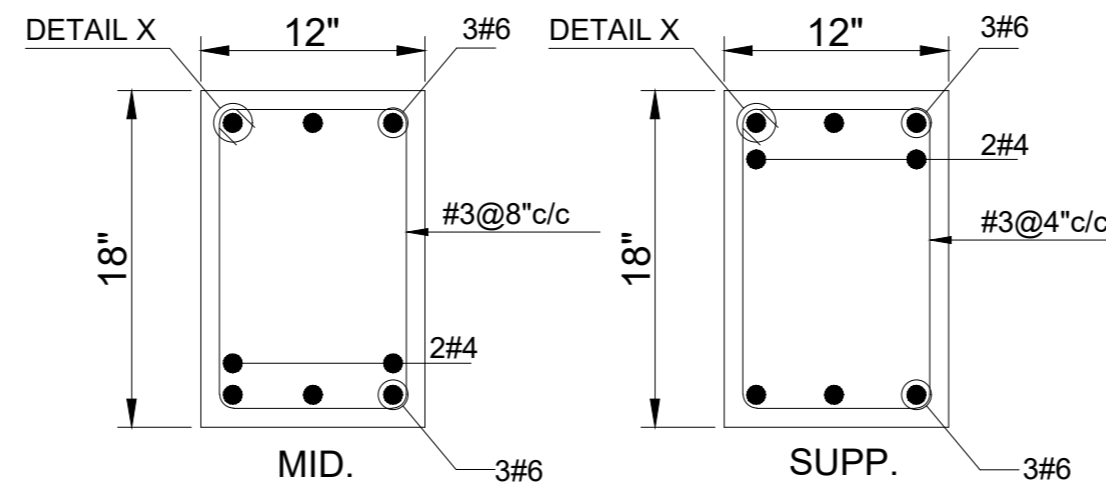
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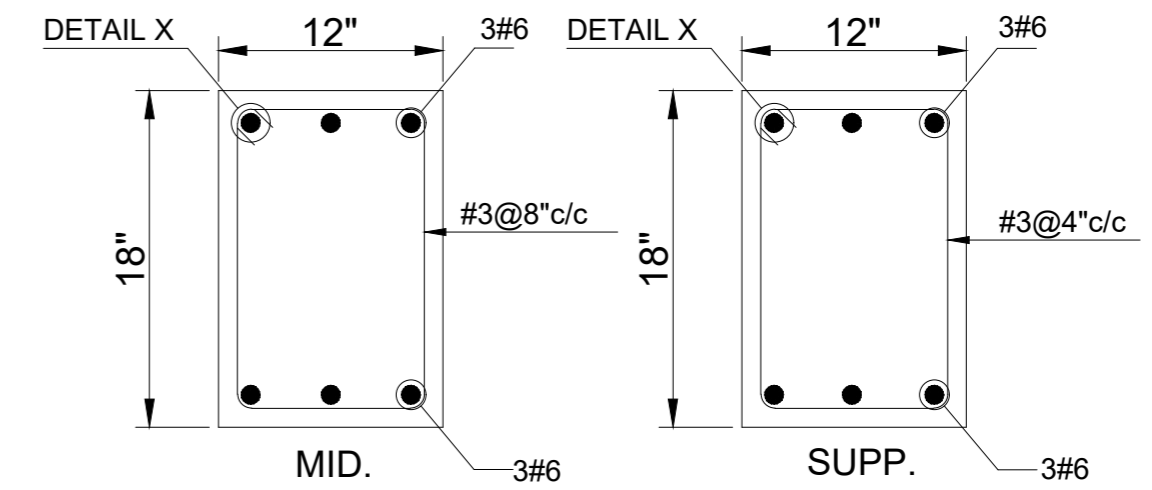
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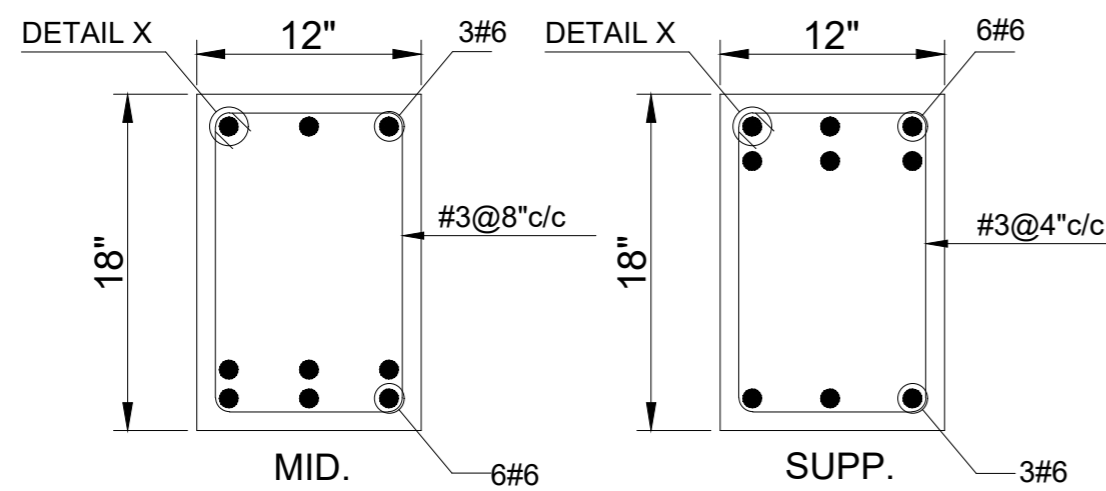
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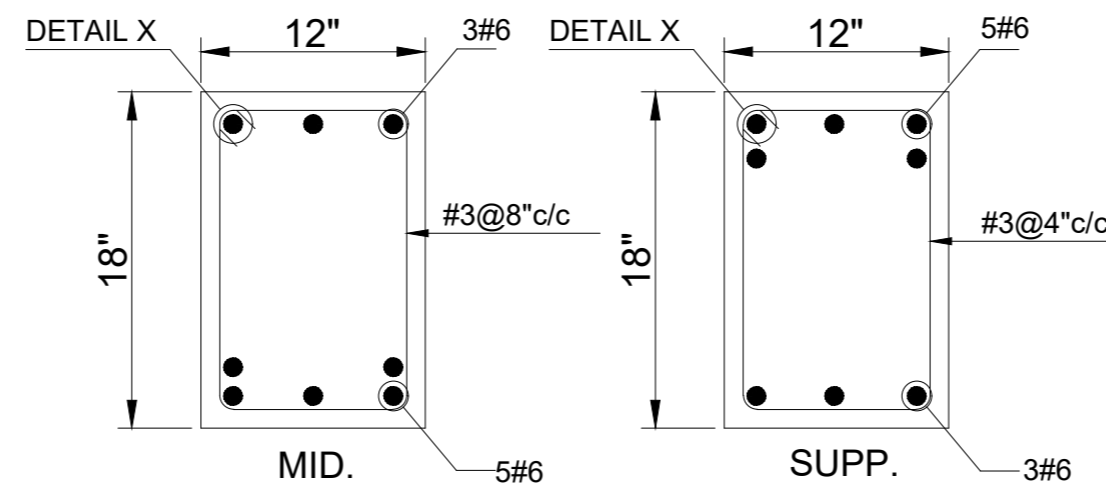
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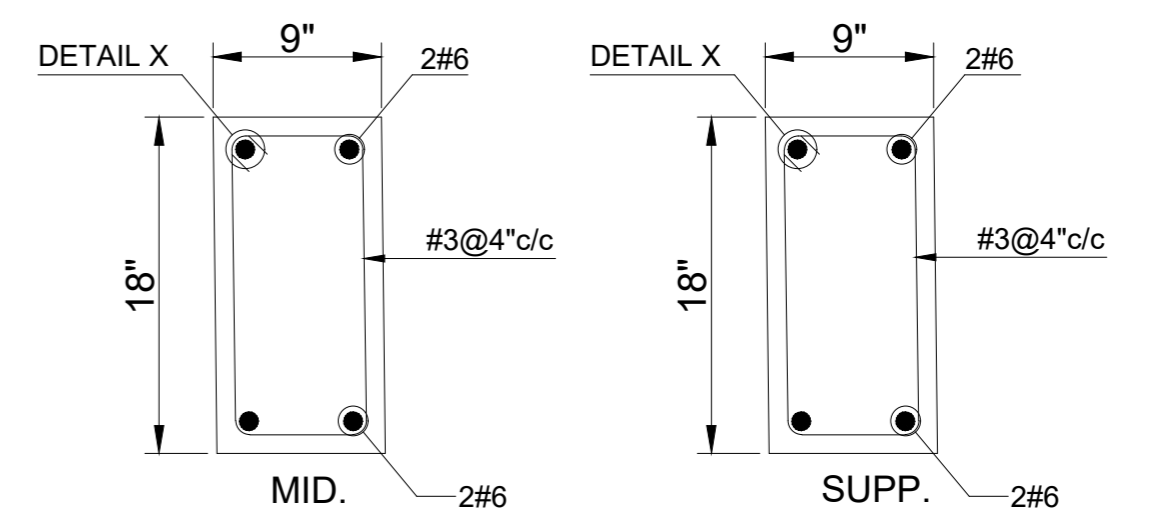
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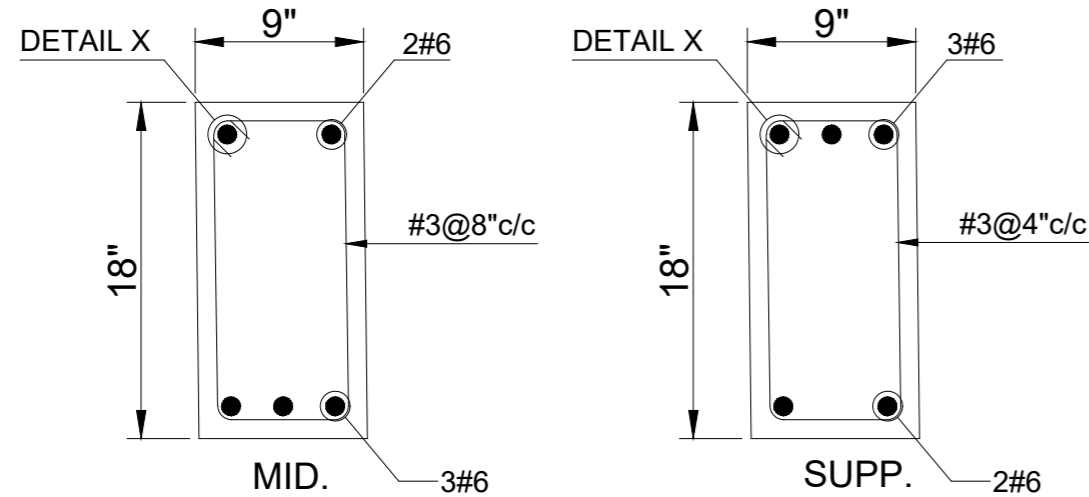
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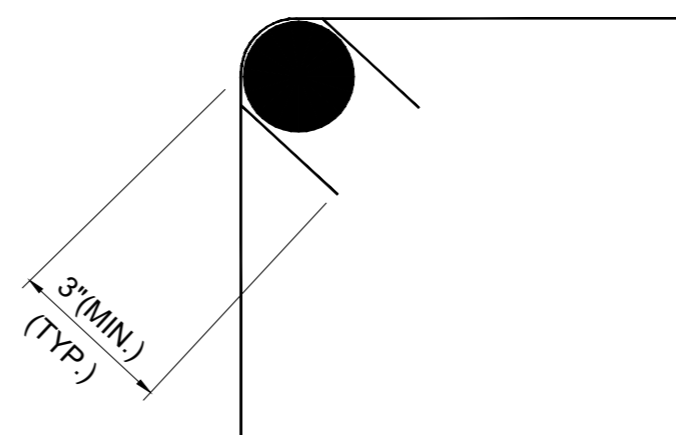
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TYPICAL SEC. OF B4



TYPICAL SEC. OF B4A



DETAIL 'X'

NOTE:  
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. , 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

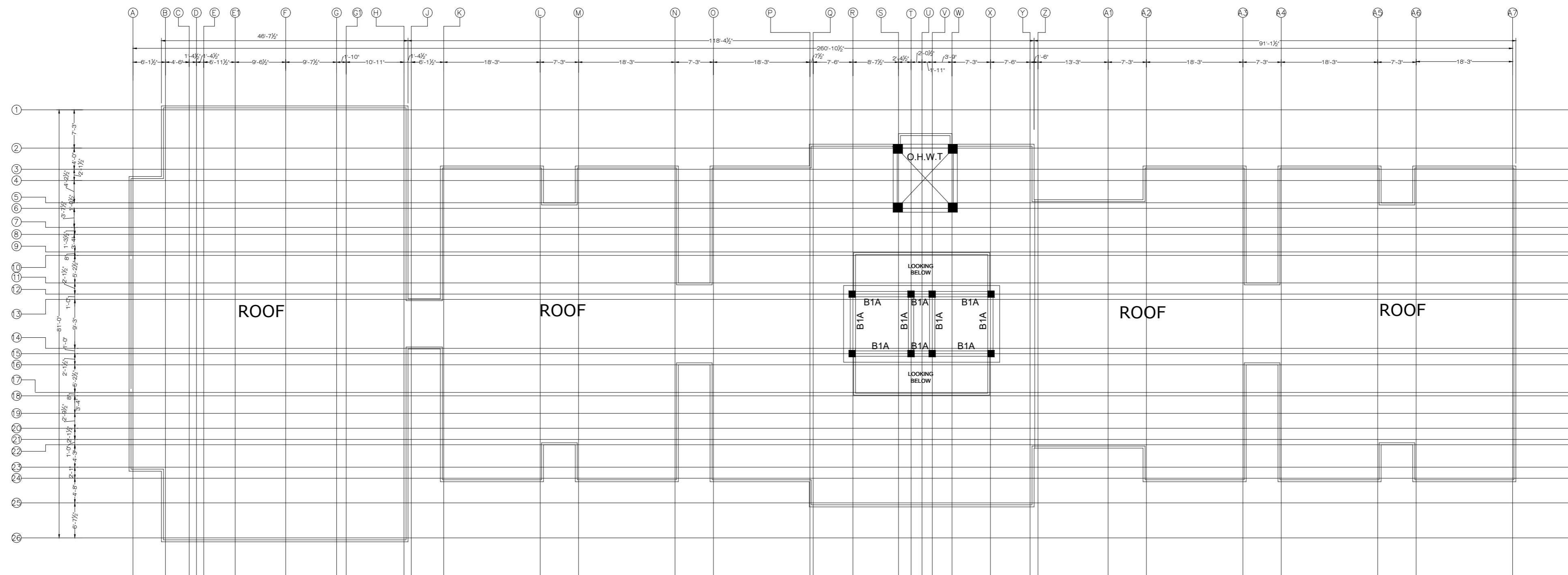
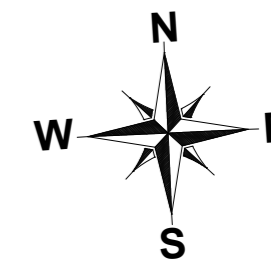
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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Email: newvisionec@yahoo.com  
Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore  
Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
TITLE: **FIRST FLOOR BEAM SECTION**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
DESIGNED BY: ENG AHMAD  
APPROVED BY:   
DATE: FEB,2024  
DRAWN BY: MATHEW SIMON  
JOB NO.   
SCALE: N.T.S  
DRG. NO.   
ST-19



MUMMTY FLOOR BEAM LAYOUT PLAN  
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

NOTE:  
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. .  
9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

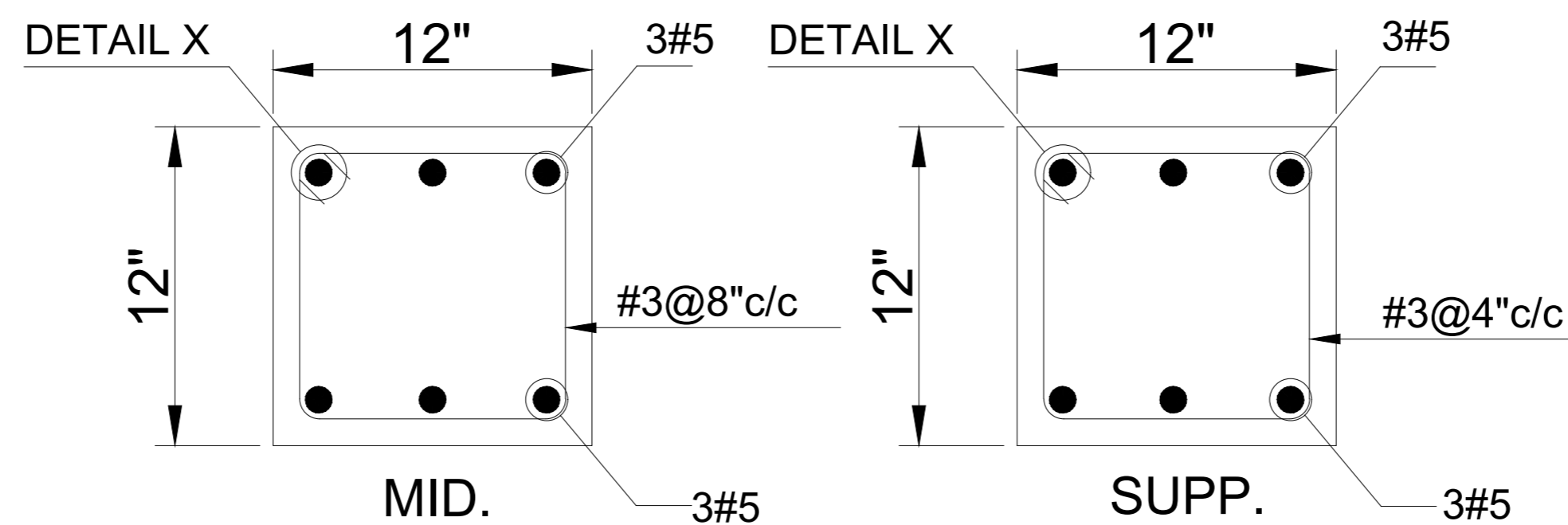
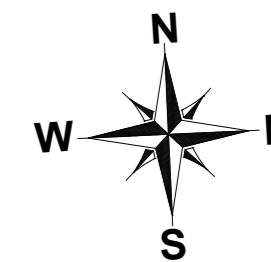
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



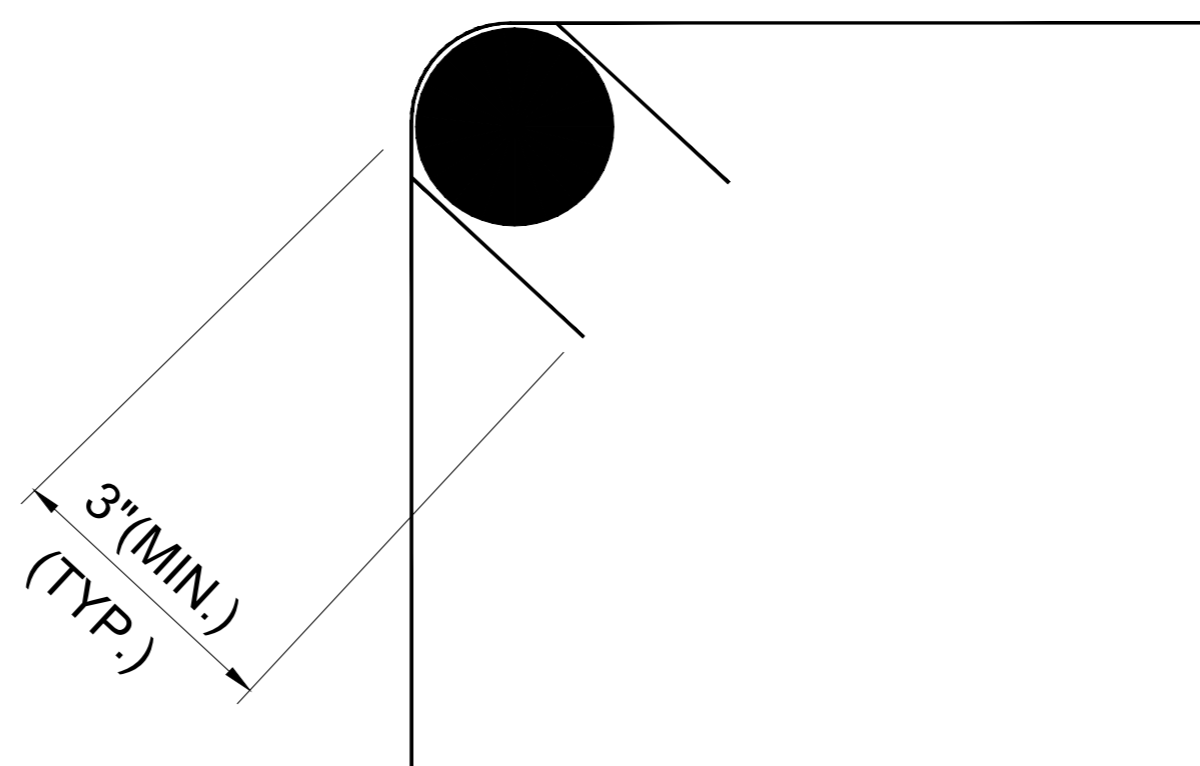
**NEW VISION ENGINEERING CONSULTANT**  
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PROJECT:	<b>UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>	
TITLE:	<b>MUMMTY FLOOR BEAM LAYOUT PLAN</b>	

CLIENT:	<b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>	
DESIGNED BY:	APPROVED BY:	DATE:
ENG AHMAD		FEB,2024
DRAWN BY:	JOB NO.:	SCALE:
MATHEW SIMON		N.T.S
DRG. NO.	ST-20	



TYPICAL SEC. OF B1A



DETAIL 'X'

NOTE:  
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. .  
 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

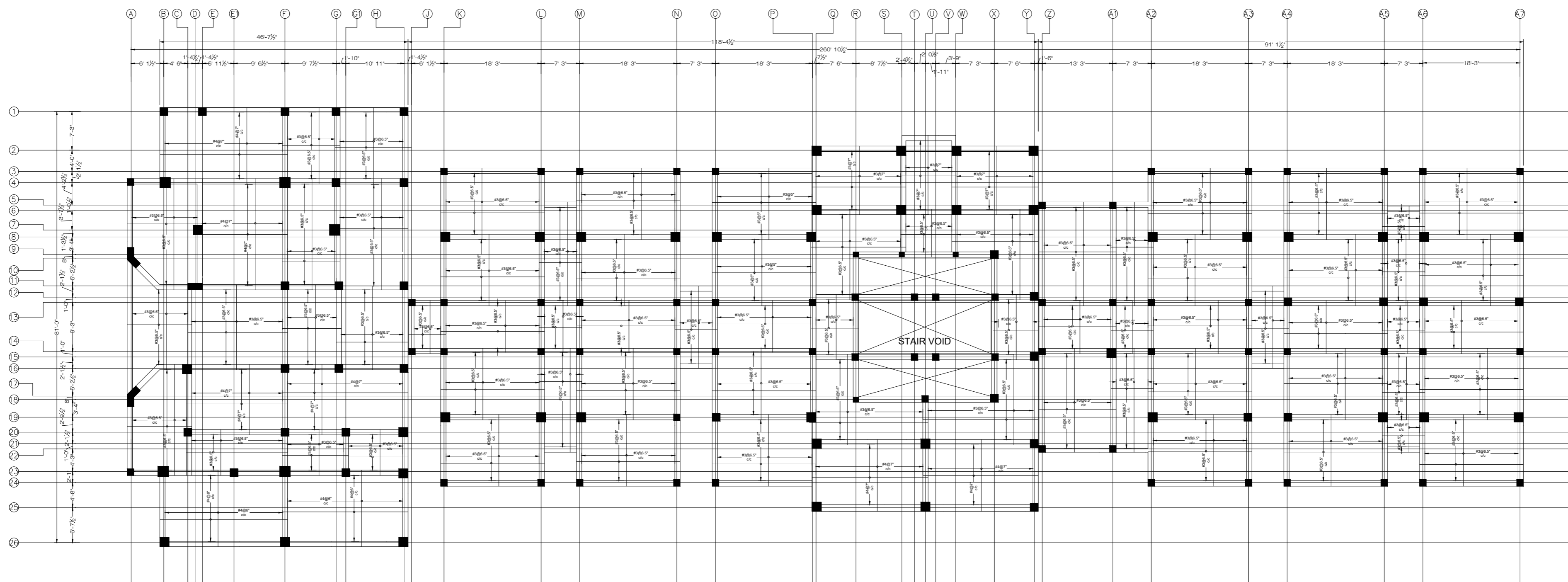
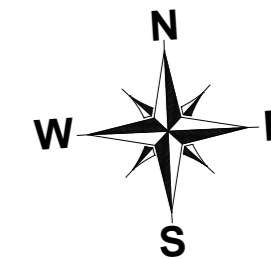
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	MUMMITY FLOOR BEAM SECTION	

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE:
ENG AHMAD		FEB,2024
DRAWN BY:	JOB NO.:	SCALE:
MATHEW SIMON		N.T.S
DRG. NO.:	ST-21	



GROUND FLOOR SLAB LAYOUT  
 POSITIVE REINFORCEMENT DETAIL.  
 SLAB THICKNESS = 4.5" (EXCEPT WHERE AS NOTED)  
 COVERED AREA=15506 SFT

NOTE:  
 THE STRUCTURE IS DESIGNED AS COMPOSITE  
 IN NATURE I.E. .  
 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION  
 SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS  
 SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

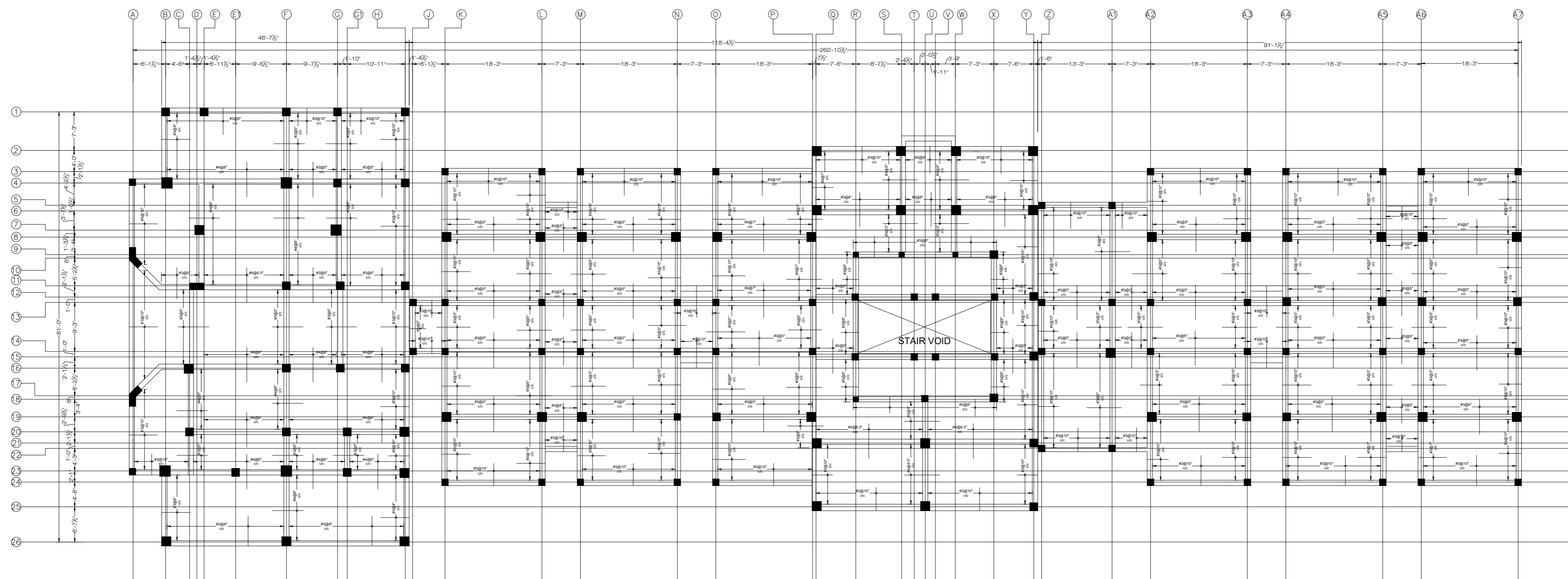
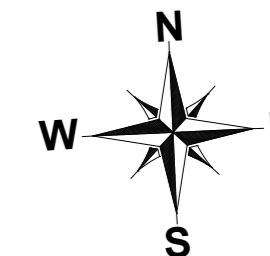
ADDITION & REVISION					
ADD.REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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PROJECT: **UPGRADATION AND IMPROVEMENT OF  
 PEOPLE NURSING SCHOOL, LIAQUAT  
 UNIVERSITY OF MEDICAL & HEALTH  
 SCIENCE JAMSHORO**  
 TITLE: **GROUND FLOOR POSITIVE  
 REINFORCEMENT PLAN**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL &  
 HEALTH SCIENCE JAMSHORO**  
 DESIGNED BY: ENG AHMAD APPROVED BY: DATE: FEB,2024  
 DRAWN BY: MATHEW SIMON JOB NO. SCALE: N.T.S  
 DRG. NO. ST-22



GROUND FLOOR SLAB LAYOUT  
NEGATIVE REINFORCEMENT DETAIL  
SLAB THICKNESS = 6.5" (EXCEPT WHERE AS NOTED)  
COVERED AREA=15506 SFT

NOTE:  
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. .  
9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

ADDITION & REVISION					
ADD.REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



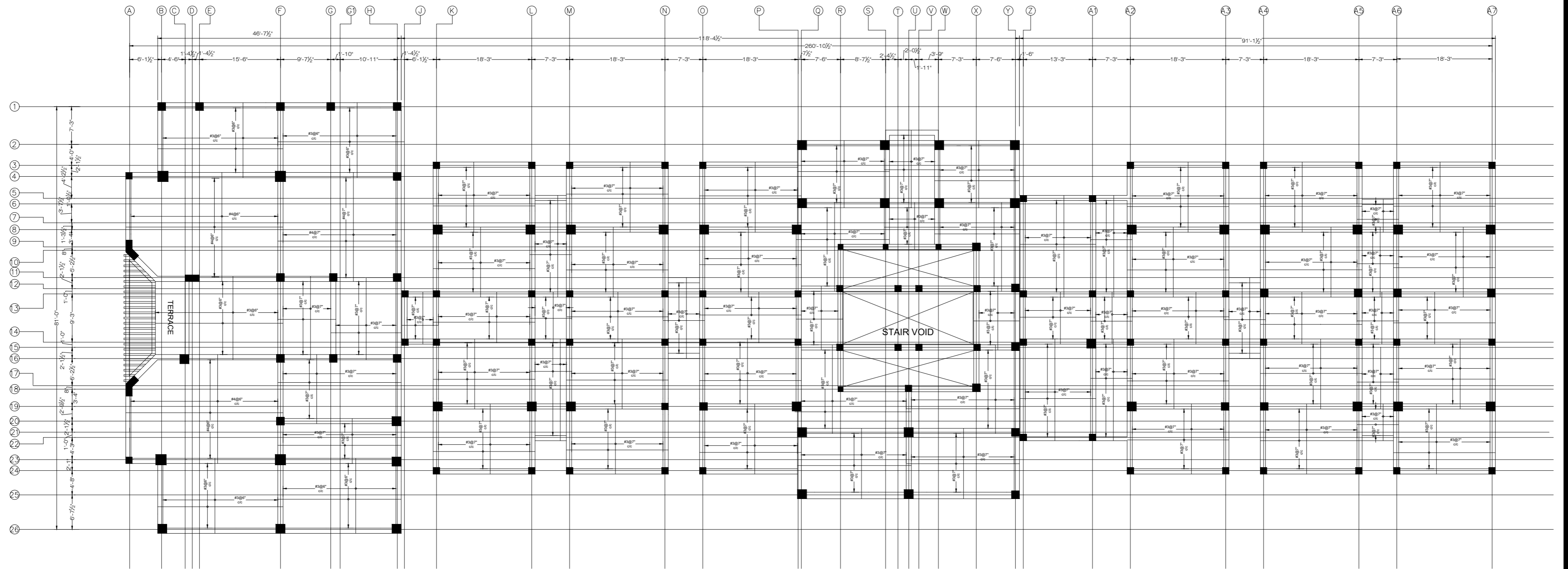
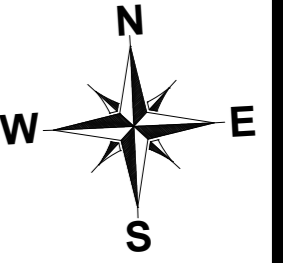
**NEW VISION ENGINEERING CONSULTANT**  
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Email: newvisionec@yahoo.com  
Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore  
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **GROUND FLOOR NEGATIVE REINFORCEMENT PLAN**

CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>		
DESIGNED BY: ENG AHMAD	APPROVED BY:	DATE: FEB,2024
DRAWN BY: MATHW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-23	





FIRST FLOOR SLAB LAYOUT  
 POSITIVE REINFORCEMENT DETAIL  
 SLAB THICKNESS = 8.5" (EXCEPT WHERE AS NOTED)  
 COVERED AREA=15439 SFT

NOTE:  
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. .  
 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



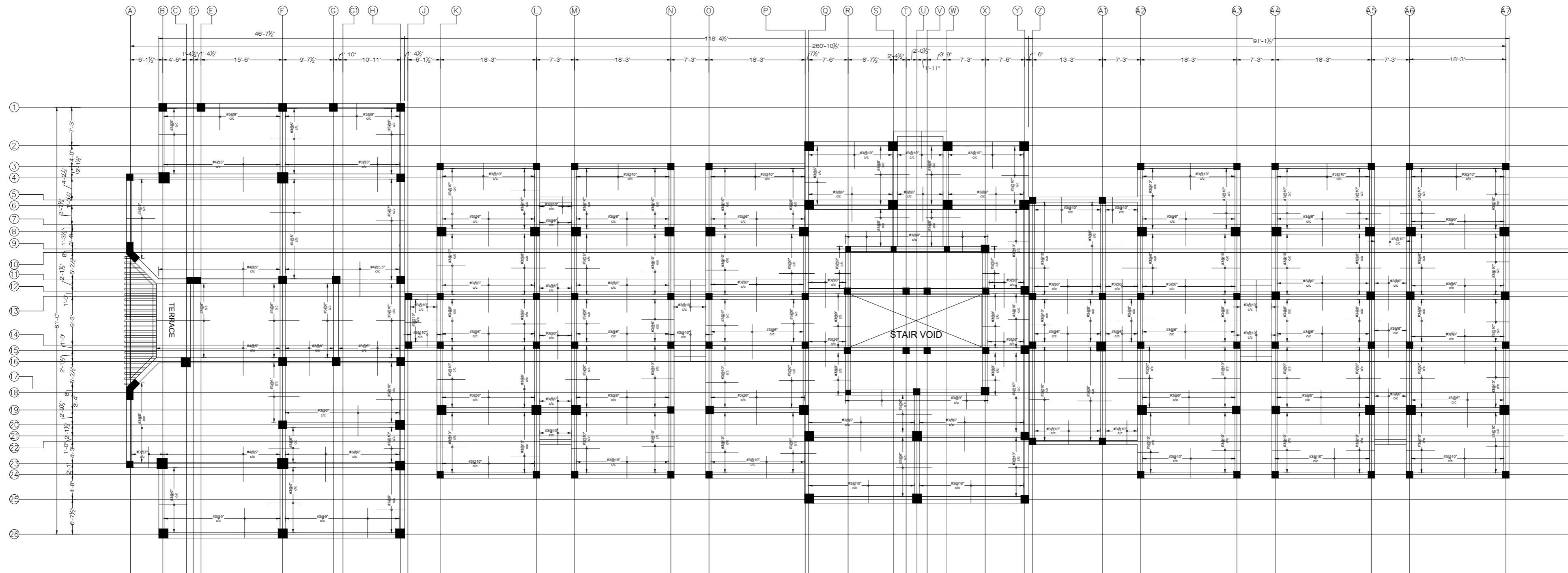
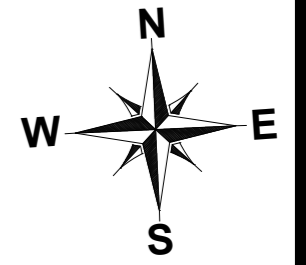
**NEW VISION ENGINEERING CONSULTANT**  
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 Email: newvisionec@yahoo.com  
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 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **FIRST FLOOR POSITIVE REINFORCEMENT PLAN**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENG AHMAD	APPROVED BY:	DATE: FEB,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-24	



FIRST FLOOR SLAB LAYOUT  
 NEGATIVE REINFORCEMENT DETAIL  
 SLAB THICKNESS = 8.0" (EXCEPT WHERE AS NOTED)  
 COVERED AREA=15439 SFT

NOTE:  
 THE STRUCTURE IS DESIGNED AS COMPOSITE  
 IN NATURE I.E. .  
 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION  
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 SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

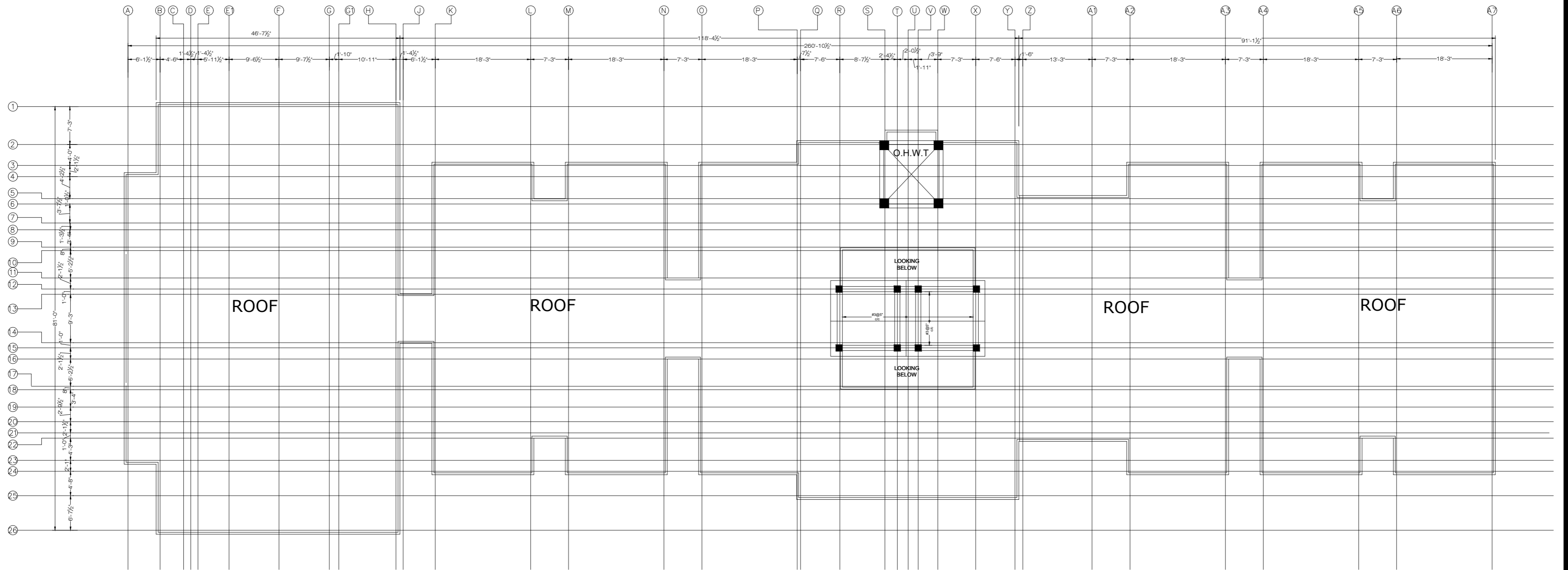
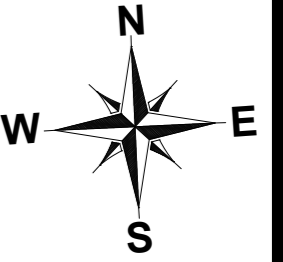
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore  
 Ph: +92-42-37250130

PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
TITLE:	FIRST FLOOR NEGATIVE REINFORCEMENT PLAN		

CLIENT:			LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
DESIGNED BY:	APPROVED BY:	DATE:	FEB,2024
DRAWN BY:	JOB NO.:	SCALE:	N.T.S
DRG. NO.:	ST-25		



MUMTY FLOOR SLAB LAYOUT  
 POSITIVE REINFORCEMENT DETAIL  
 SLAB THICKNESS = 8.5" (EXCEPT WHERE AS NOTED)  
 COVERED AREA=428 SFT

NOTE:  
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. .  
 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

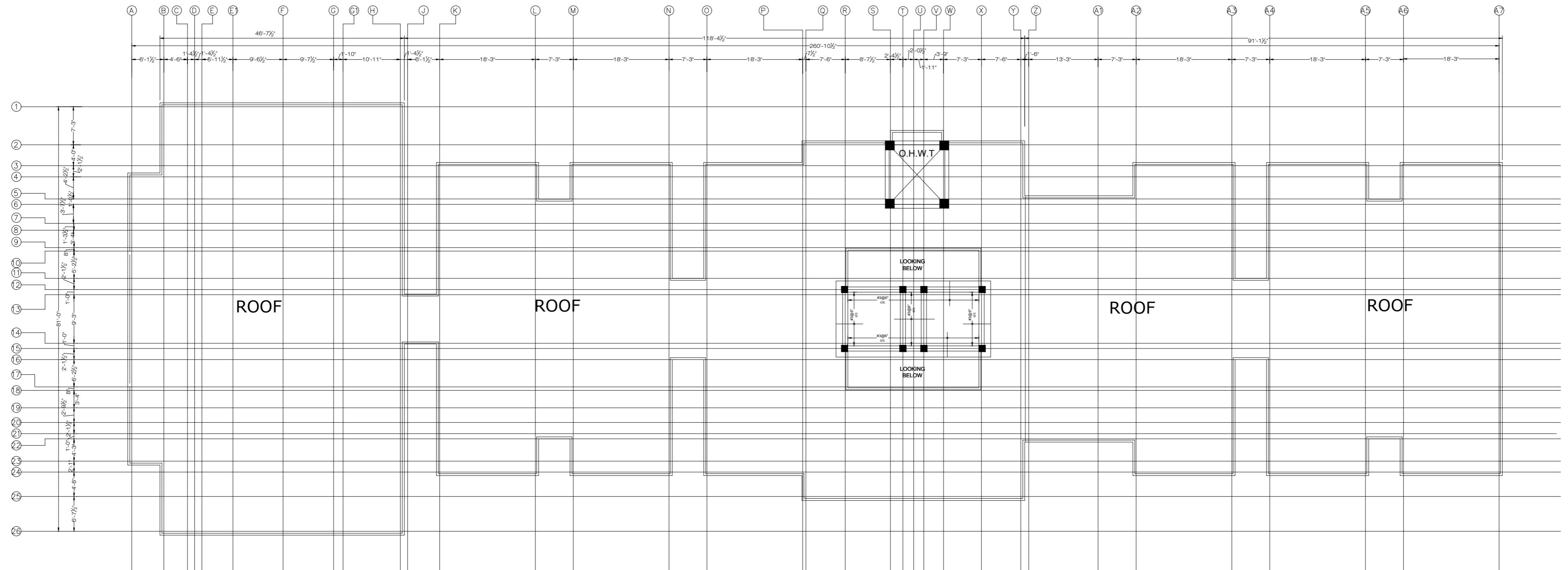
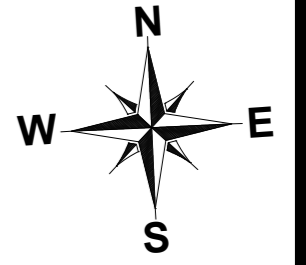
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore  
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 TITLE: **MUMTY FLOOR POSITIVE REINFORCEMENT PLAN**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 DESIGNED BY: ENG AHMAD  
 APPROVED BY: [Signature]  
 DATE: FEB,2024  
 DRAWN BY: MATHEW SIMON  
 JOB NO.: [Blank]  
 SCALE: N.T.S  
 DRG. NO.: ST-26



MUMTY FLOOR SLAB LAYOUT  
 NEGATIVE REINFORCEMENT DETAIL  
 SLAB THICKNESS = 6.5" (EXCEPT WHERE AS NOTED)  
 COVERED AREA=428 SFT

NOTE:  
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. .  
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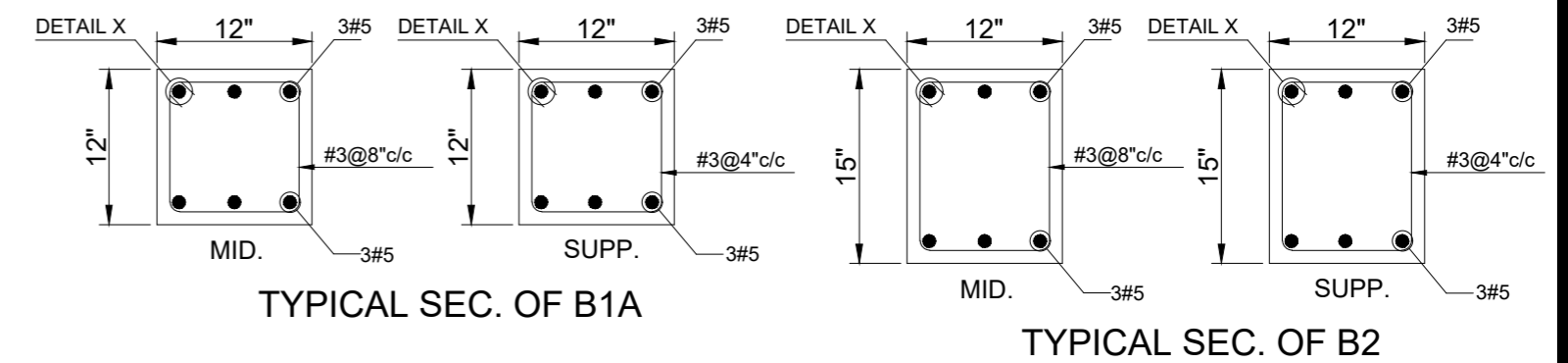
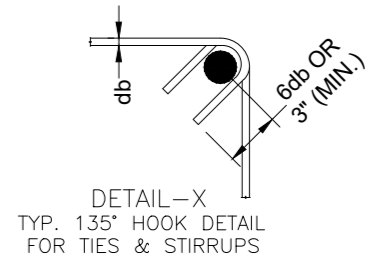
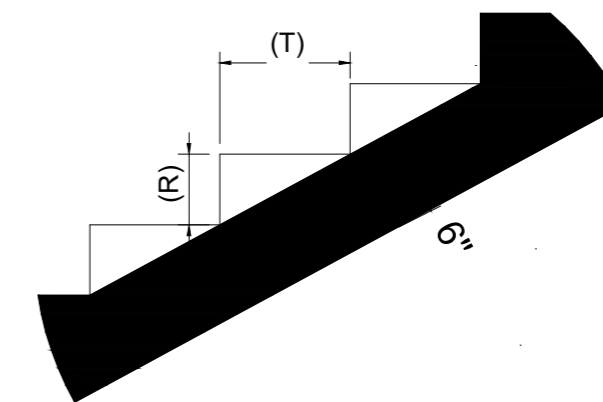
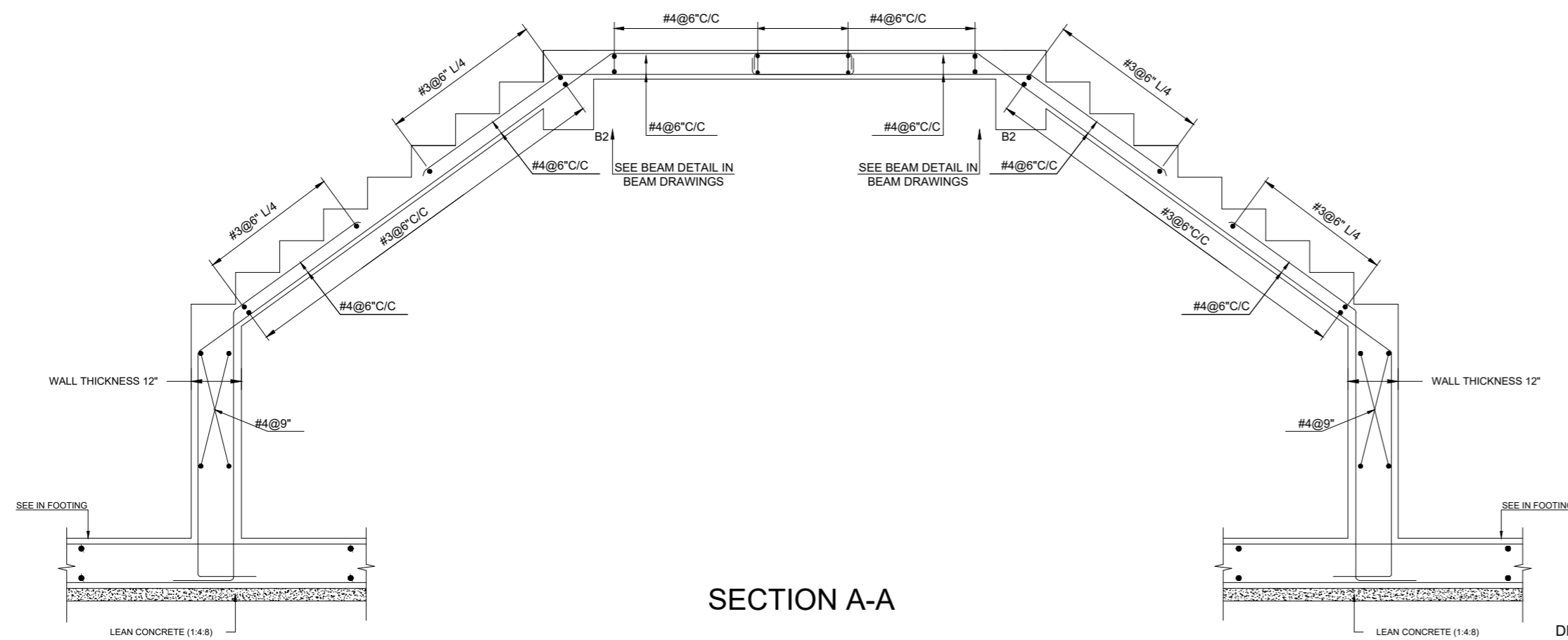
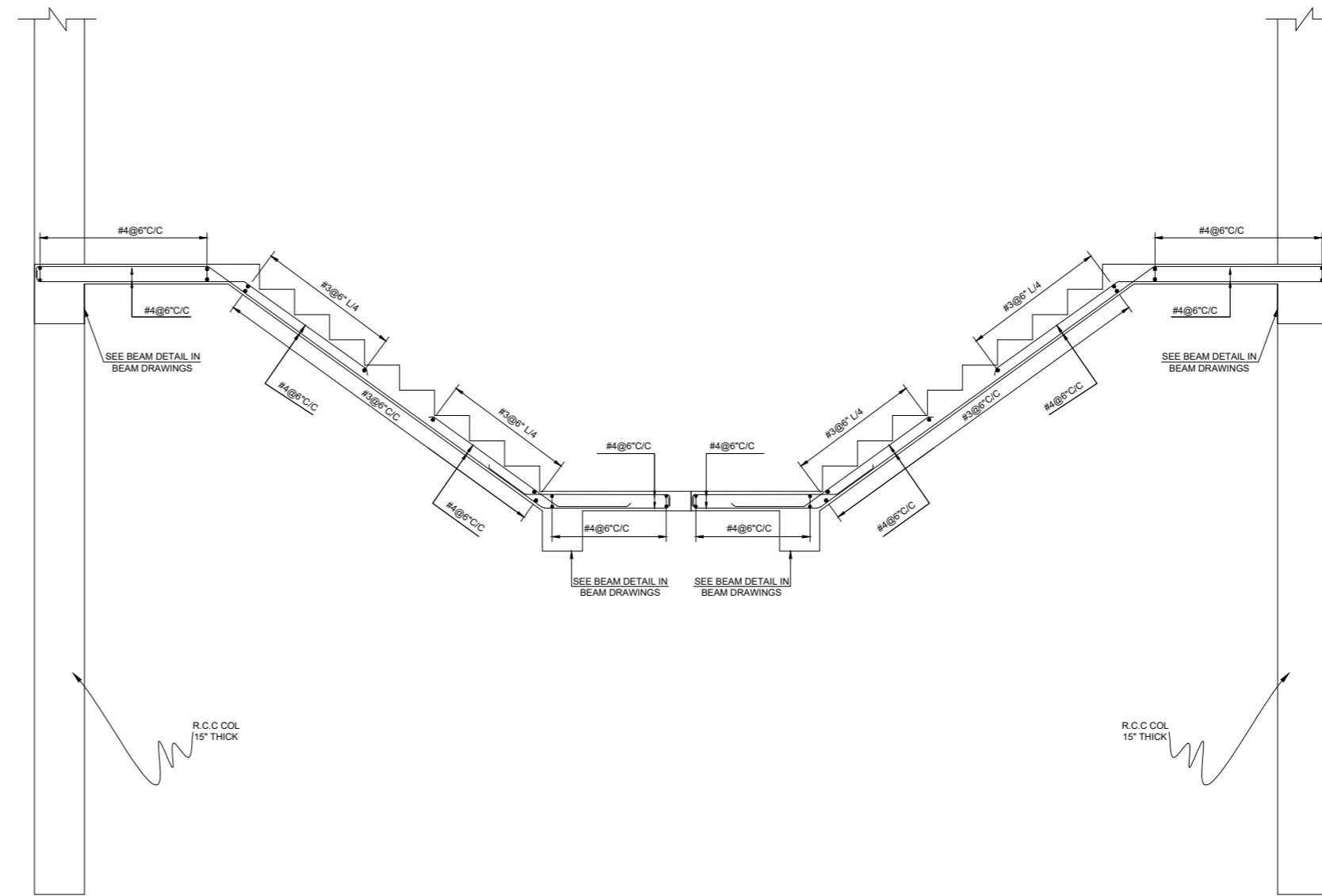
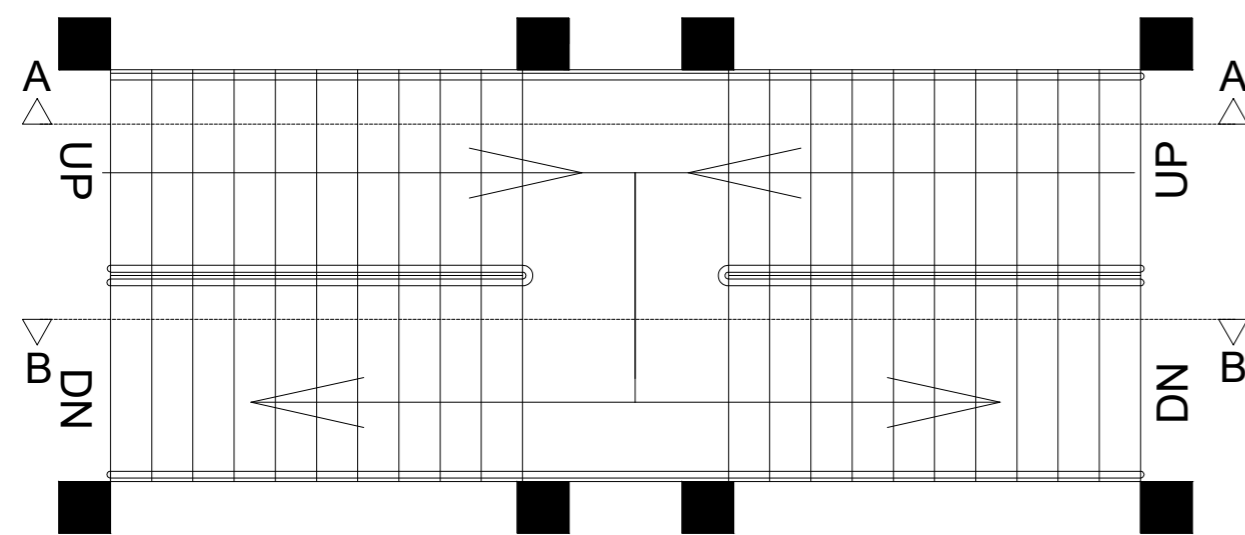
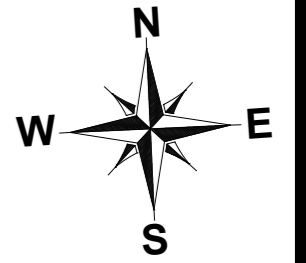
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 TITLE: **MUMTY FLOOR POSITIVE REINFORCEMENT PLAN**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 DESIGNED BY: ENG AHMAD  
 APPROVED BY: [Signature]  
 DATE: FEB,2024  
 DRAWN BY: MATHEW SIMON  
 JOB NO.: [Blank]  
 SCALE: N.T.S  
 DRG. NO.: ST-27



NOTE:  
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. 9" AND 13.5" WALLS ARE LOAD BEARING. THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

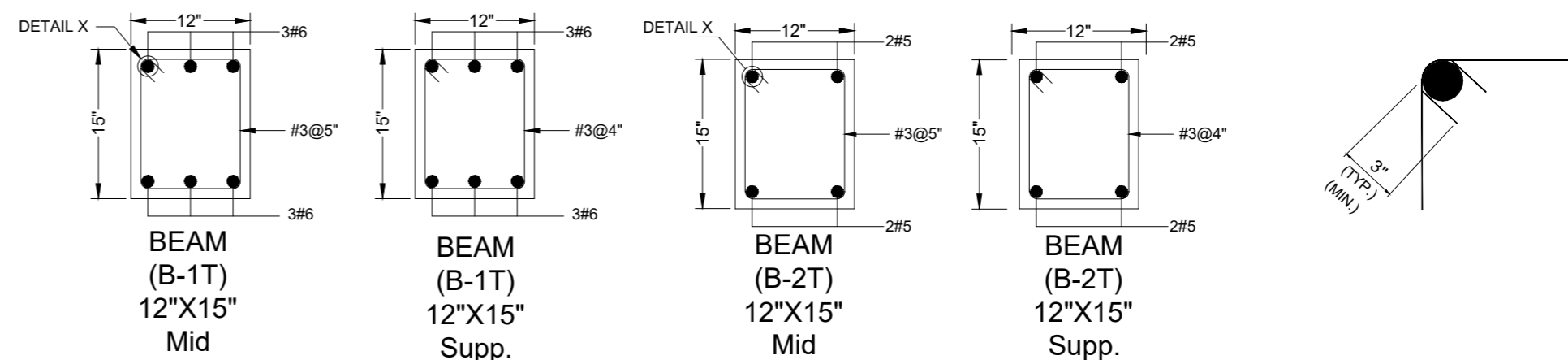
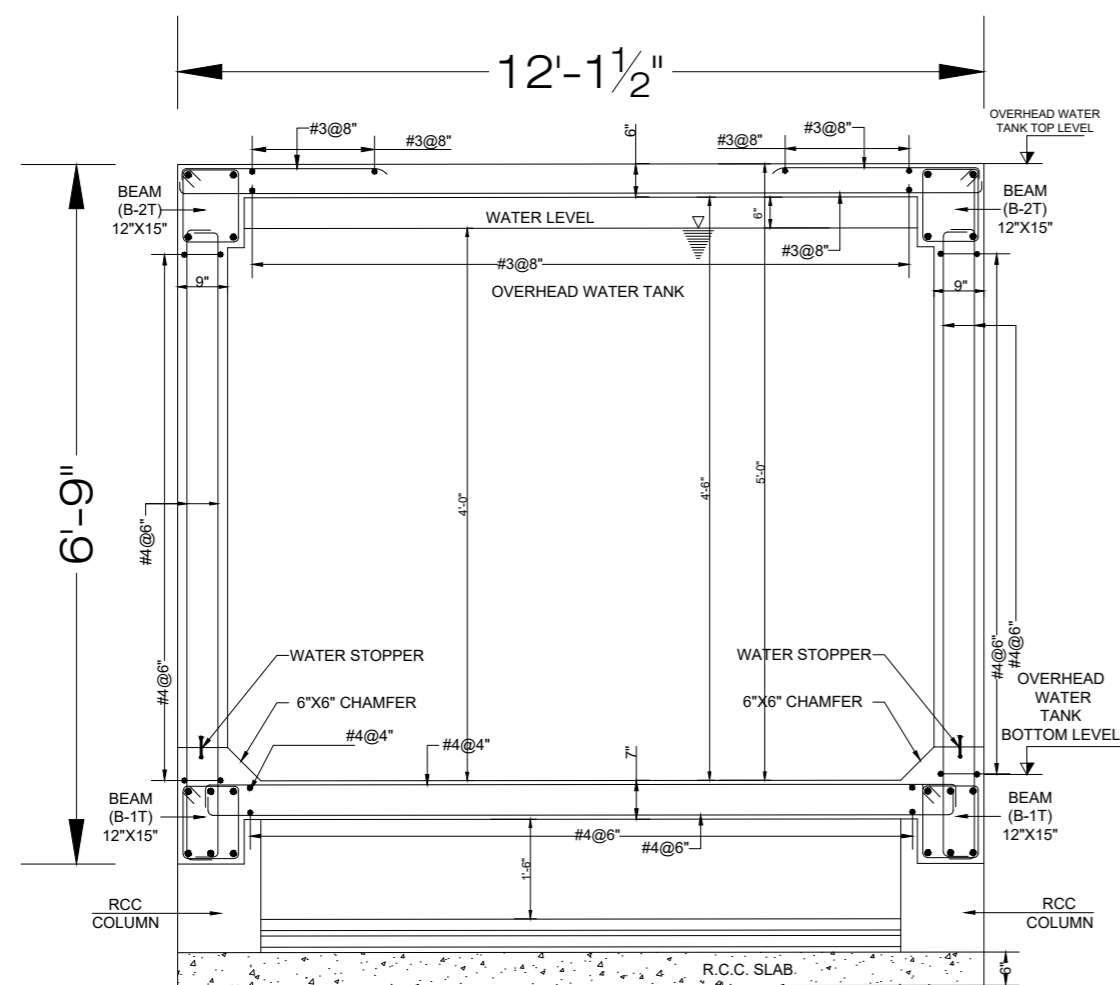
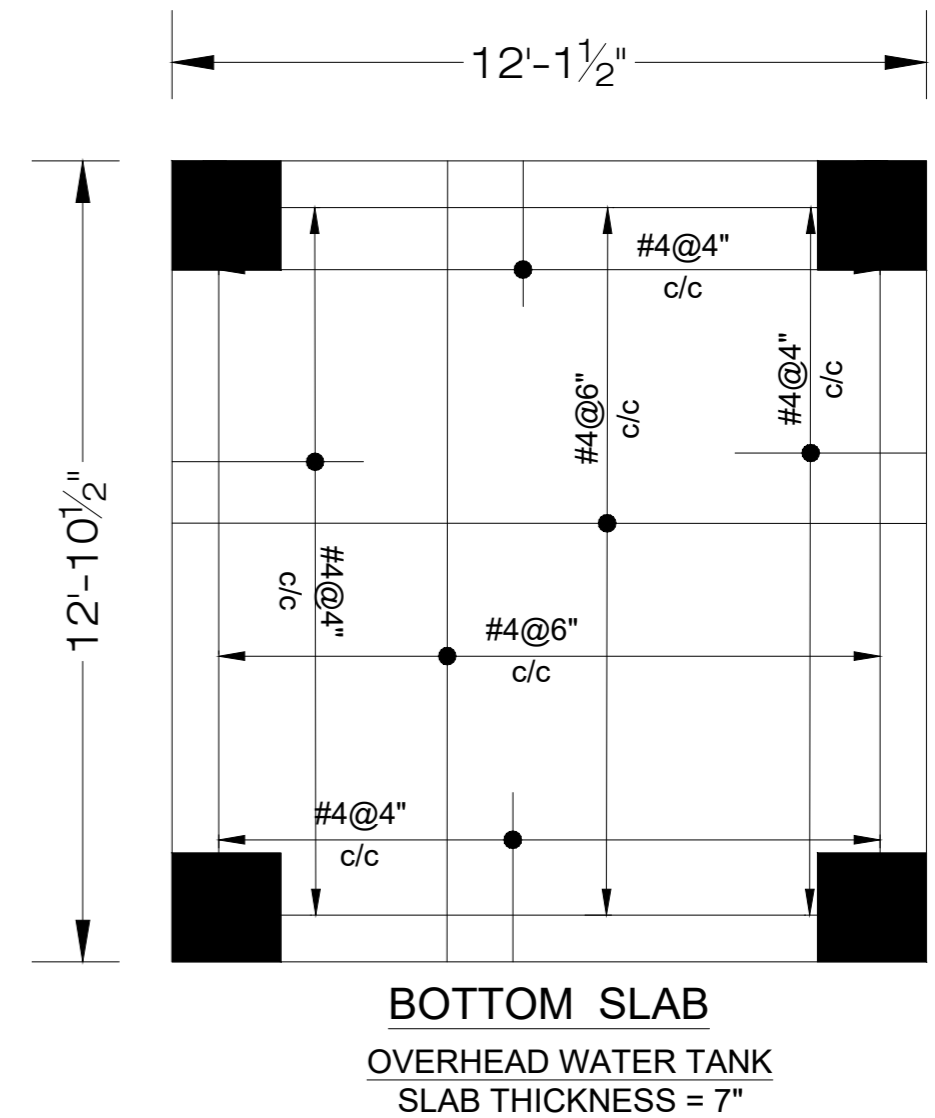
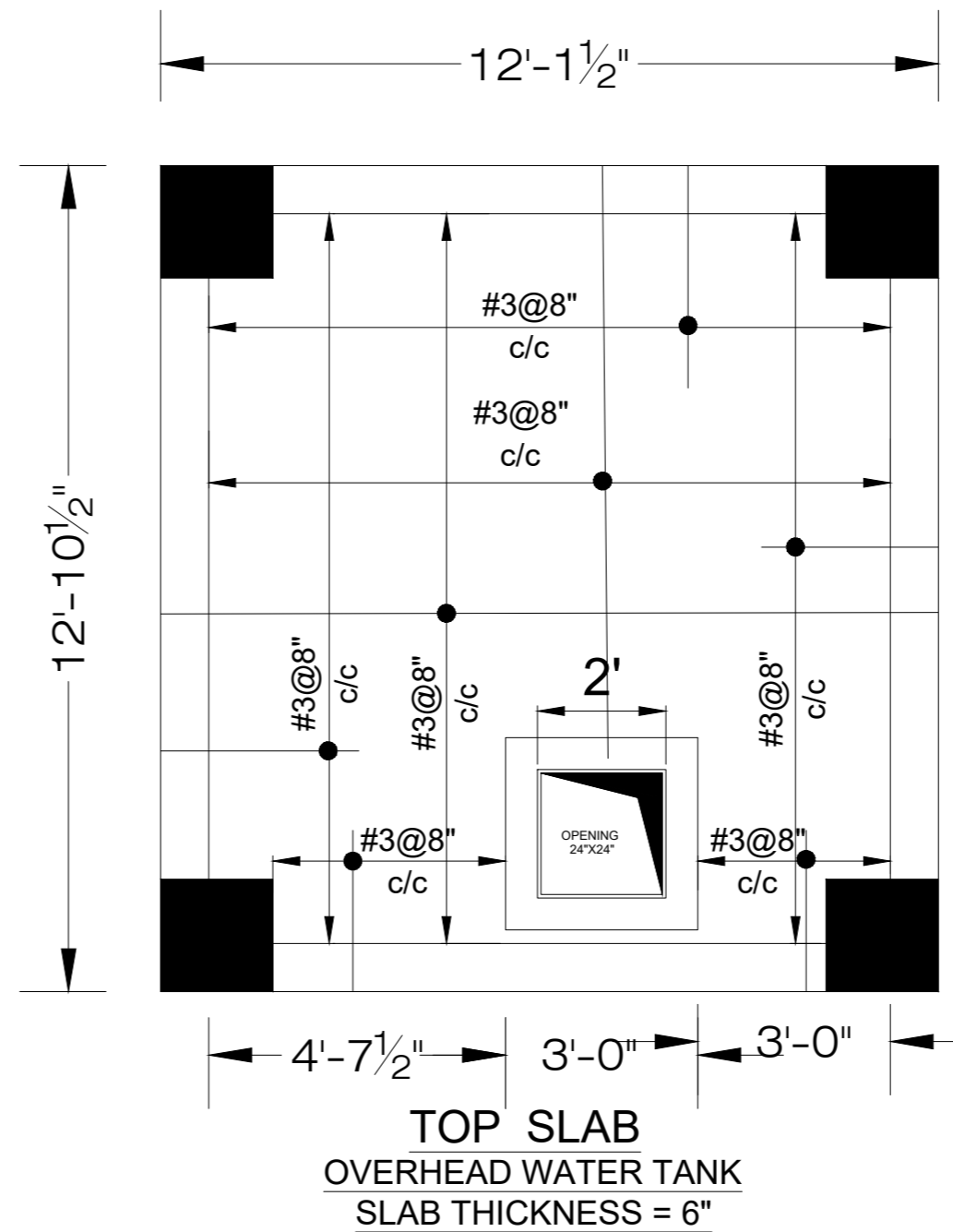
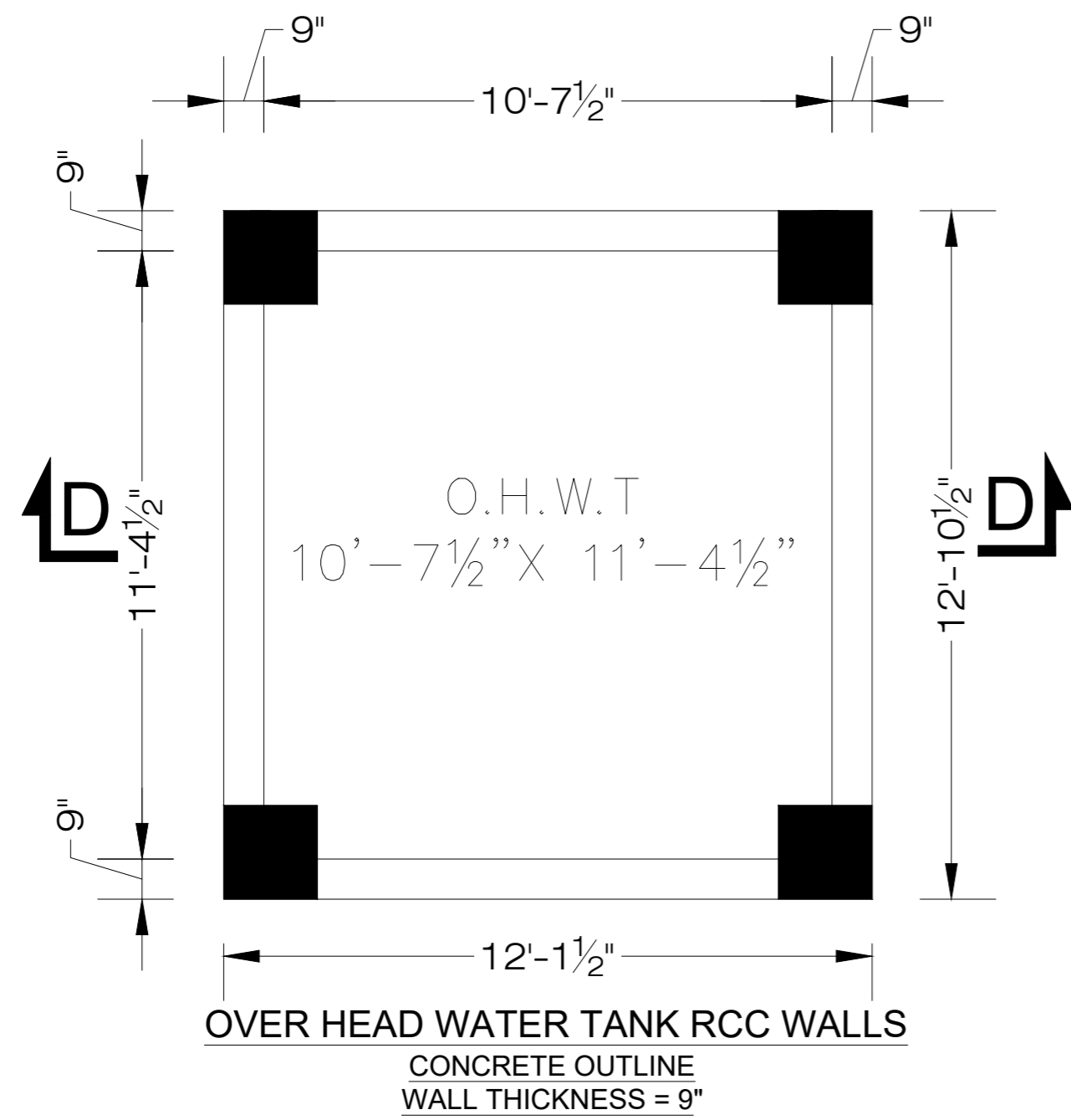


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 Ph: +92-51-4848375, Fax: +92-51-4848375  
 Email: newvisionec@yahoo.com  
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore  
 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 TITLE: **STAIR PLANS & SECTION**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 DESIGNED BY: ENG AHMAD  
 APPROVED BY: [Signature]  
 DATE: FEB, 2024  
 DRAWN BY: MATHEW SIMON  
 JOB NO.: [Blank]  
 SCALE: N.T.S.  
 DRG. NO.: ST-28





NOTE:  
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. .  
9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



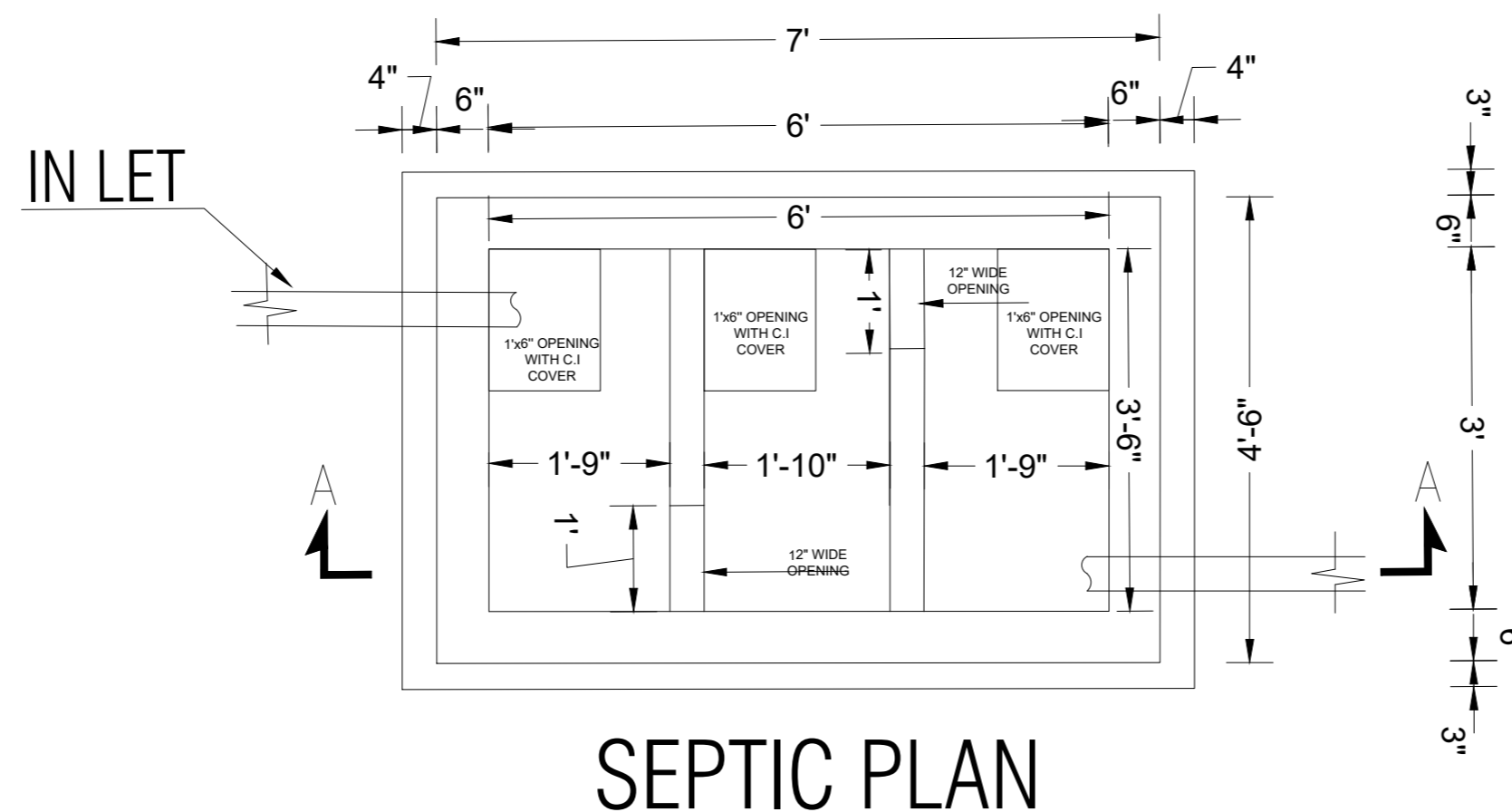
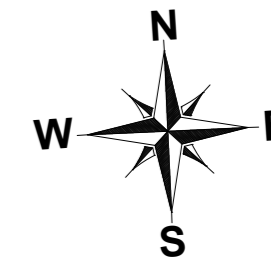
**NEW VISION ENGINEERING CONSULTANT**  
Head Office: Office No.B-6 SECOND FLOOR Masood Arcade  
IJP Road Islamabad.  
Ph: +92-51-4848375, Fax: +92-51-4848375  
Email: newvisionec@yahoo.com  
Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore  
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

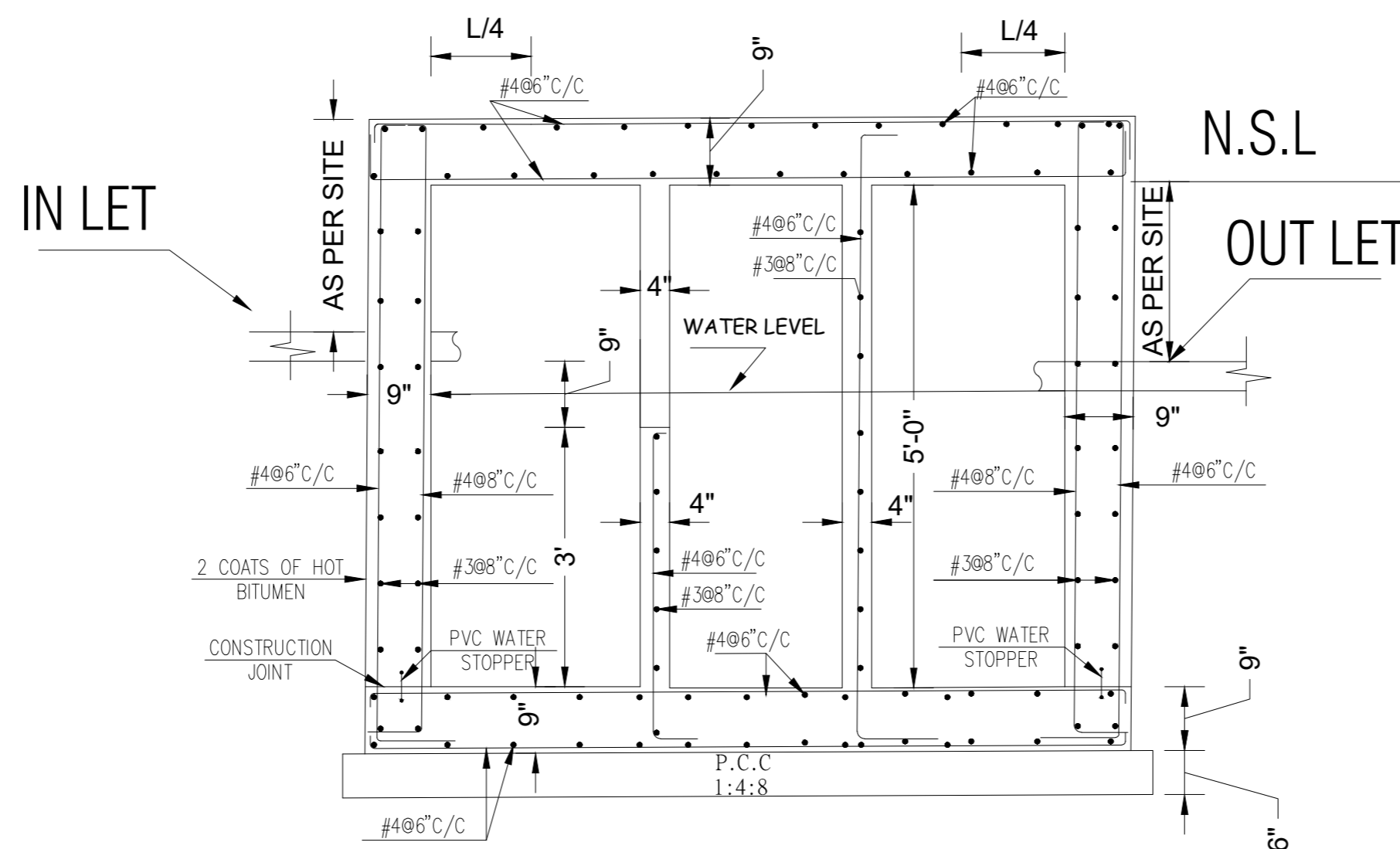
TITLE: **O.H.W.T**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENG AHMAD	APPROVED BY:	DATE: FEB,2024
DRAWN BY: MATHW SIMON	JOB NO.:	SCALE: N.T.S
DRG. NO.:	ST-29	



SEPTIC PLAN



SECTION A-A  
SEPTIC TANK

NOTE:  
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. .  
9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

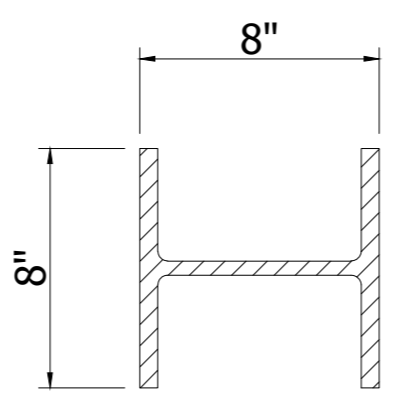
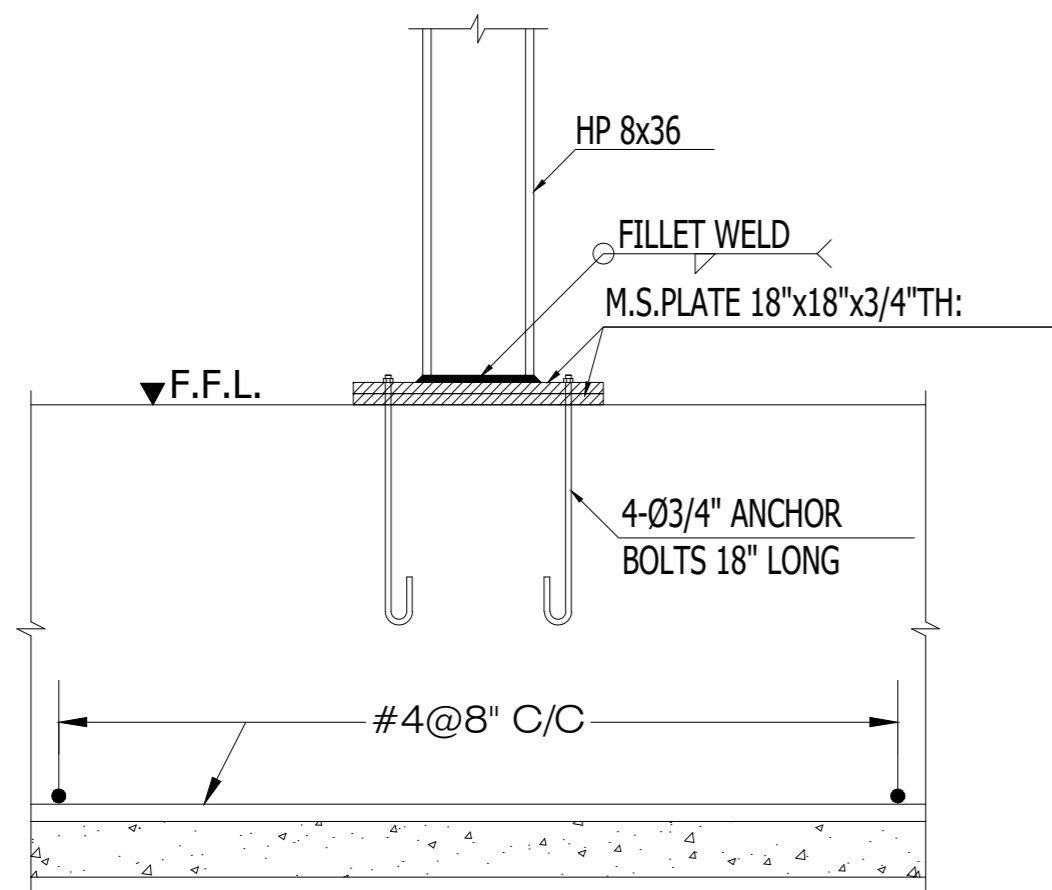
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



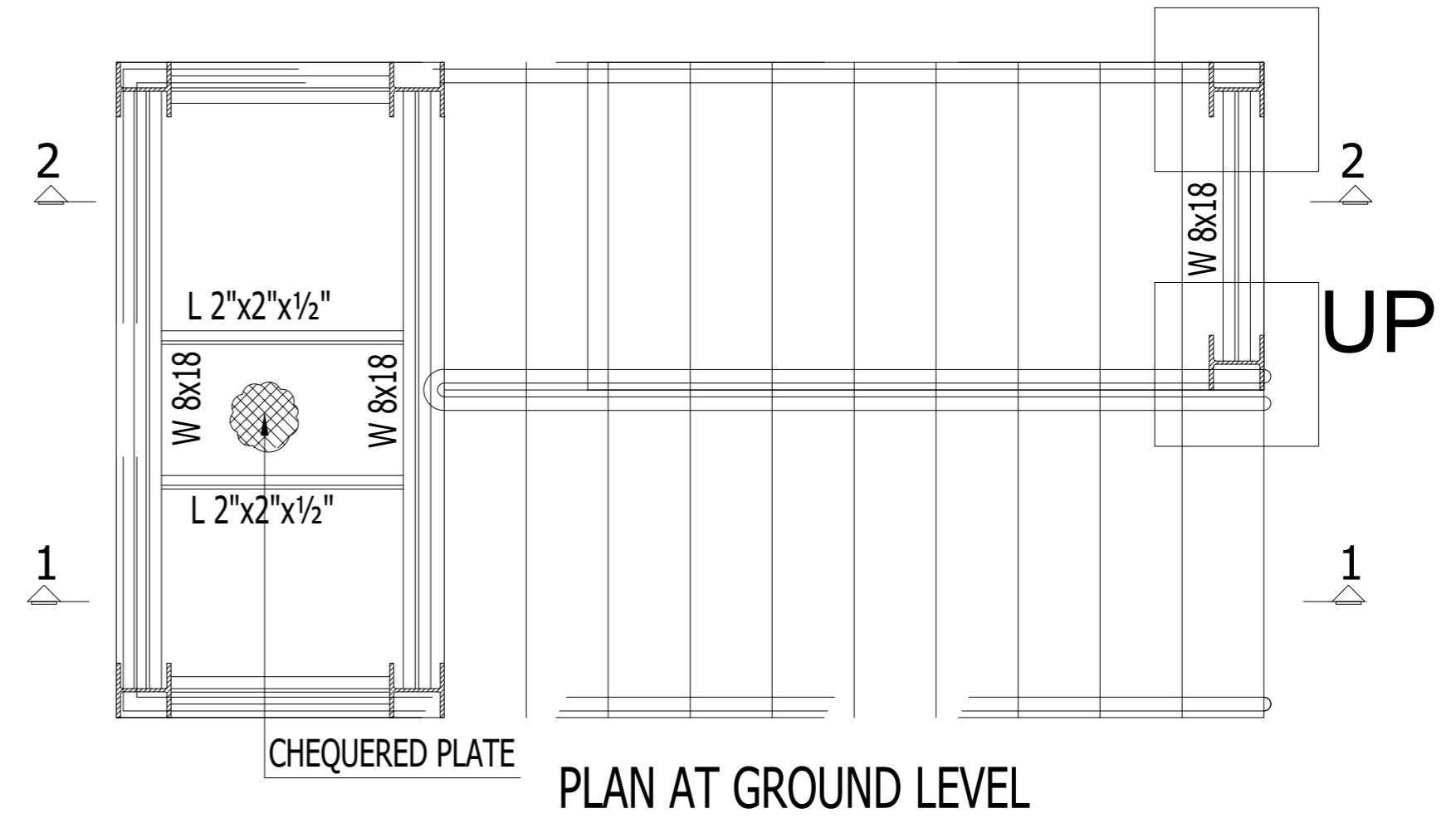
**NEW VISION ENGINEERING CONSULTANT**  
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 IJP Road Islamabad.  
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 Email: newvisionec@yahoo.com  
 Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore  
 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 TITLE: **SEPTIC TANK DETAIL**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 DESIGNED BY: ENG AHMAD  
 APPROVED BY: [Signature]  
 DATE: FEB,2024  
 DRAWN BY: MATHEW SIMON  
 JOB NO.: [Blank]  
 SCALE: N.T.S  
 DRG. NO. ST-30

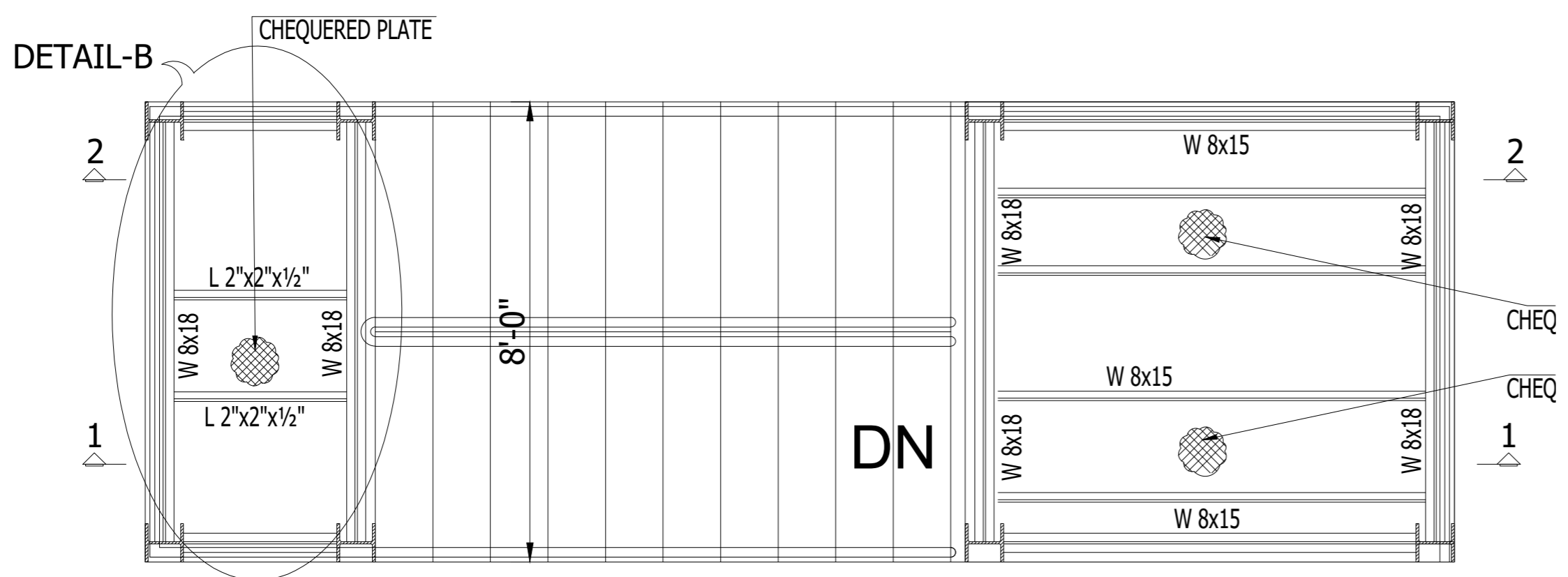


**HP 8x36**  
36Lbs/FT

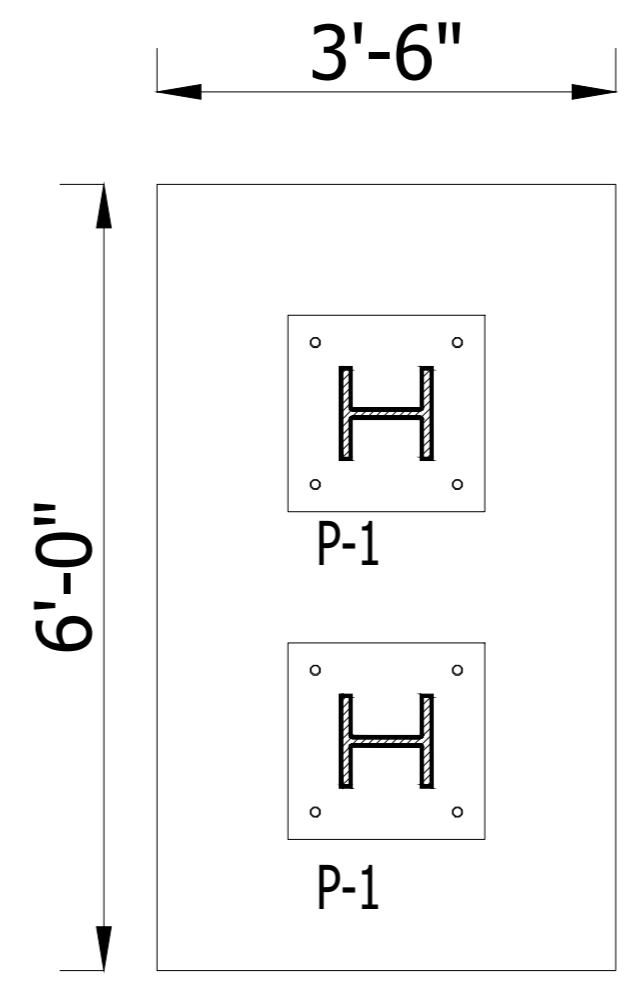


**PLAN AT GROUND LEVEL**

**P-1**



**PLAN AT 1ST FLOOR LEVEL**



**STAIR FOOTING PLAN**

**NOTE:**  
THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. . . . .  
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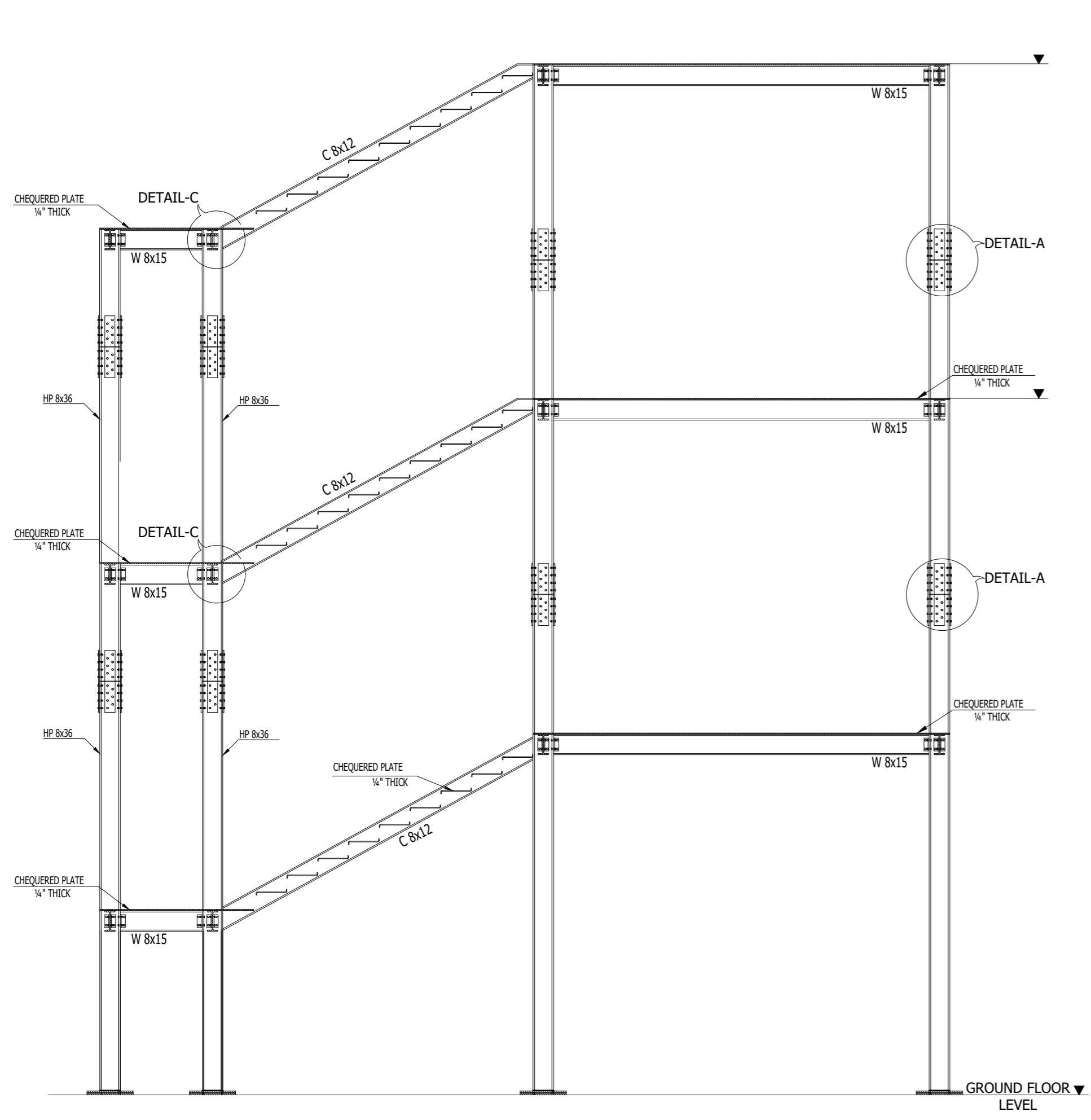
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



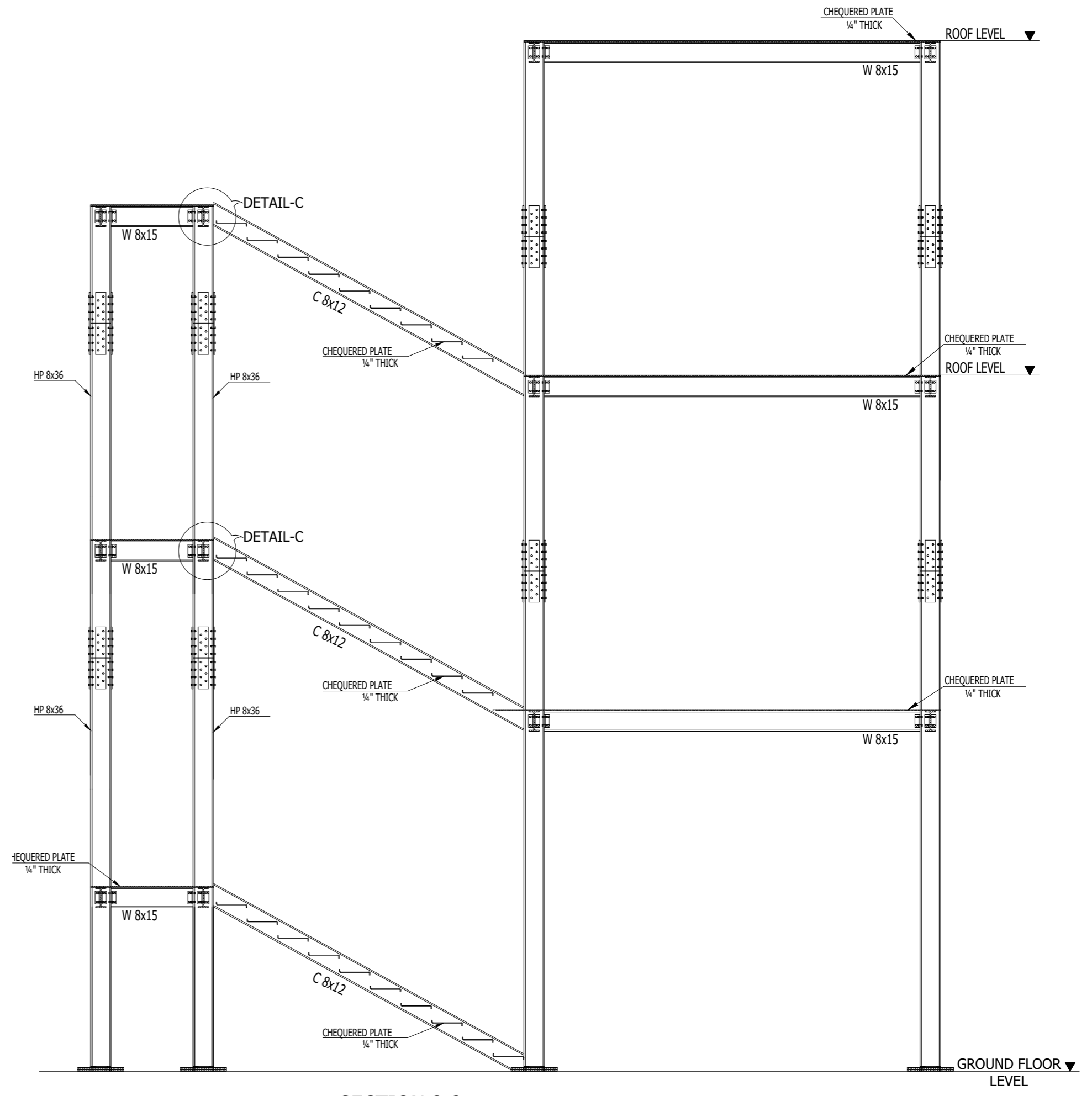
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
TITLE: **EMERGENCY STEEL STAIR PLAN & DETAIL**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
DESIGNED BY: ENG AHMAD  
APPROVED BY: \_\_\_\_\_  
DATE: FEB,2024  
DRAWN BY: MATHEW SIMON  
JOB NO.: \_\_\_\_\_  
SCALE: N.T.S  
DRG. NO.: \_\_\_\_\_  
ST-31



SECTION 1-1



SECTION 2-2

NOTE:  
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. . . . .  
 9" AND 13.5" WALLS ARE LOAD BEARING.THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

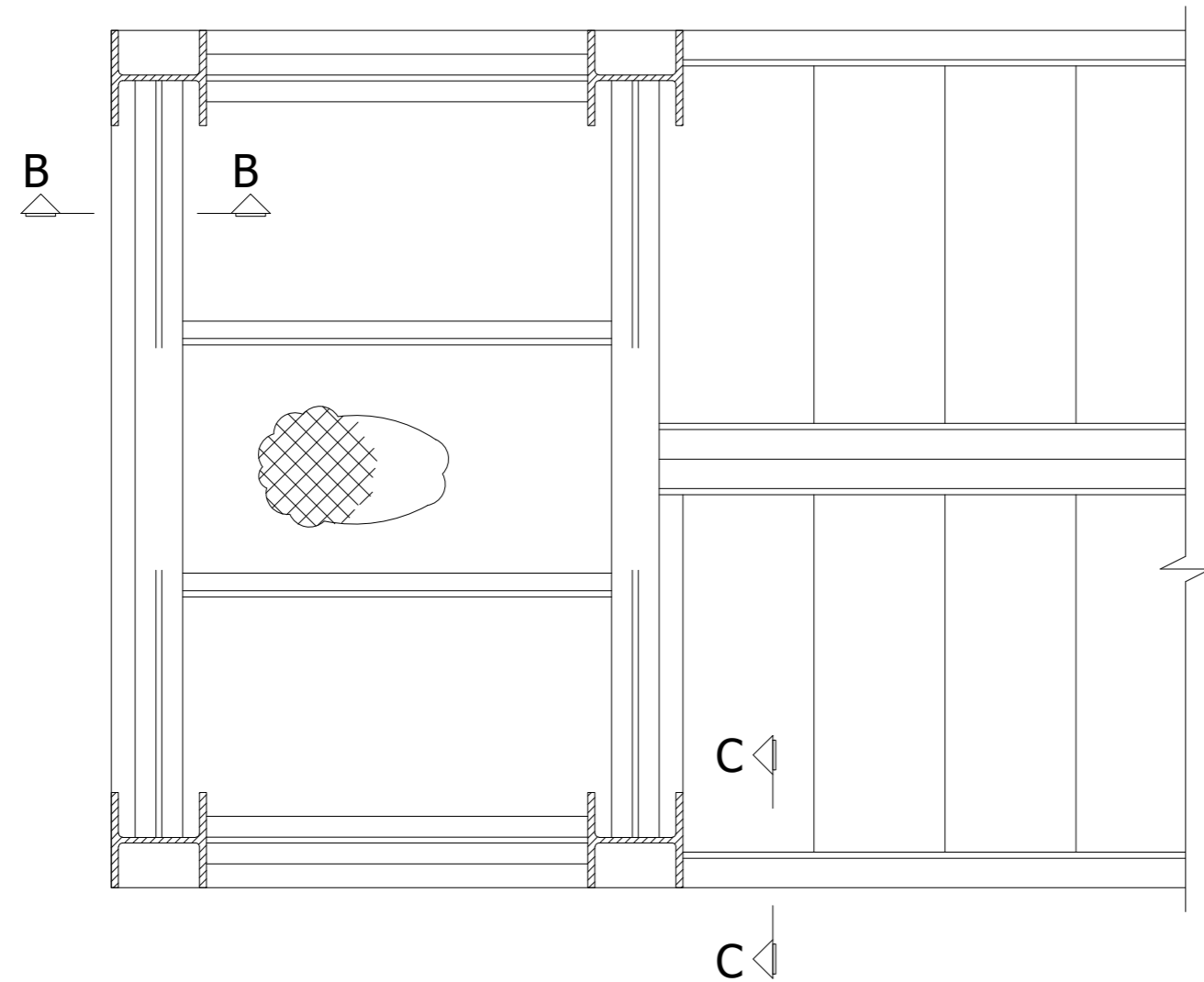
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



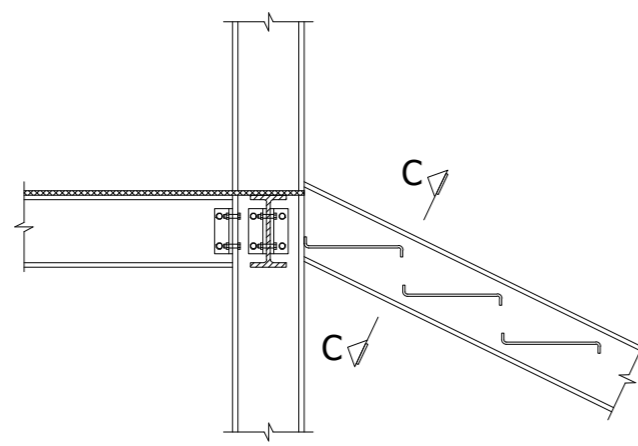
**NEW VISION ENGINEERING CONSULTANT**  
 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade  
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 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 TITLE: **EMERGENCY STEEL STAIR SECTION DETAIL**

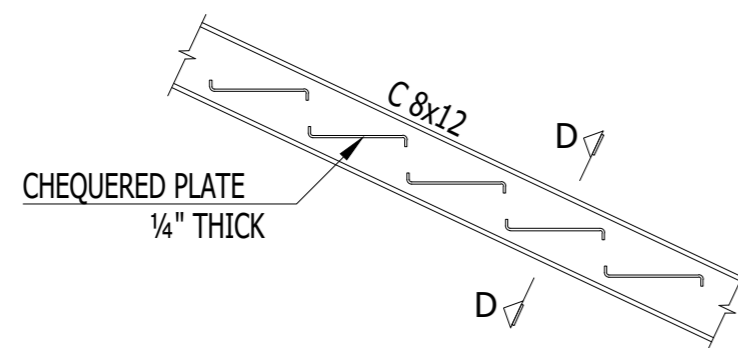
CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**  
 DESIGNED BY: ENG AHMAD      APPROVED BY:      DATE: FEB,2024  
 DRAWN BY: MATHEW SIMON      JOB NO.      SCALE: N.T.S  
 DRG. NO.      ST-32



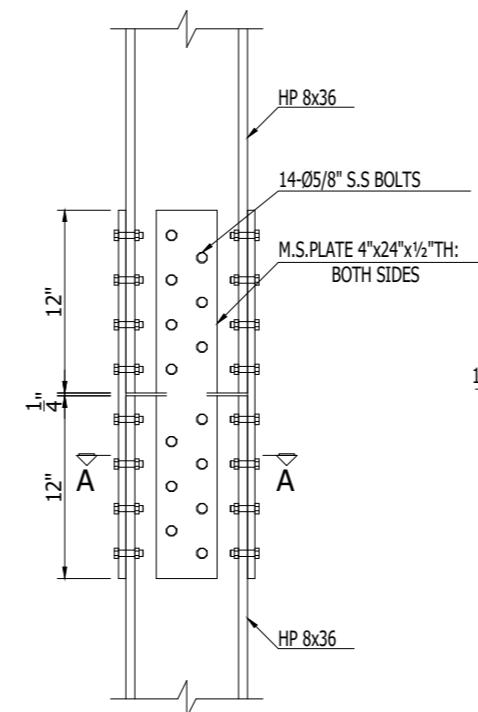
**DETAIL-B**



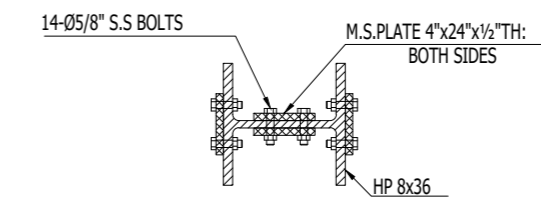
**DETAIL-C**



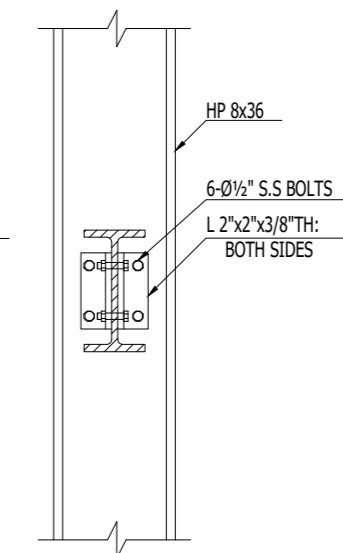
**DETAIL-D**



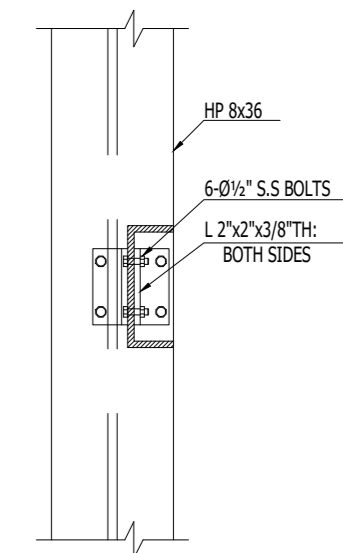
**STEEL COLUMN JOINT DETAIL-A TYP.**



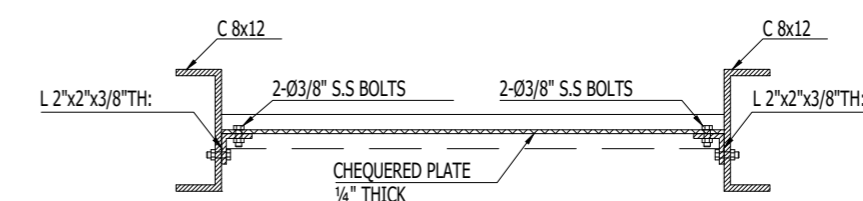
**SECTION A-A**



**SECTION B-B**



**SECTION C-C**



**SECTION D-D**

**NOTE:**  
 THE STRUCTURE IS DESIGNED AS COMPOSITE IN NATURE I.E. 9" AND 13.5" WALLS ARE LOAD BEARING. THE CONSTRUCTION SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS SO LOAD SHOULD BE DISTRIBUTED ON WALLS.

ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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 Head Office: Office No.B-6 SECOND FLOOR Masood Arcade  
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 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

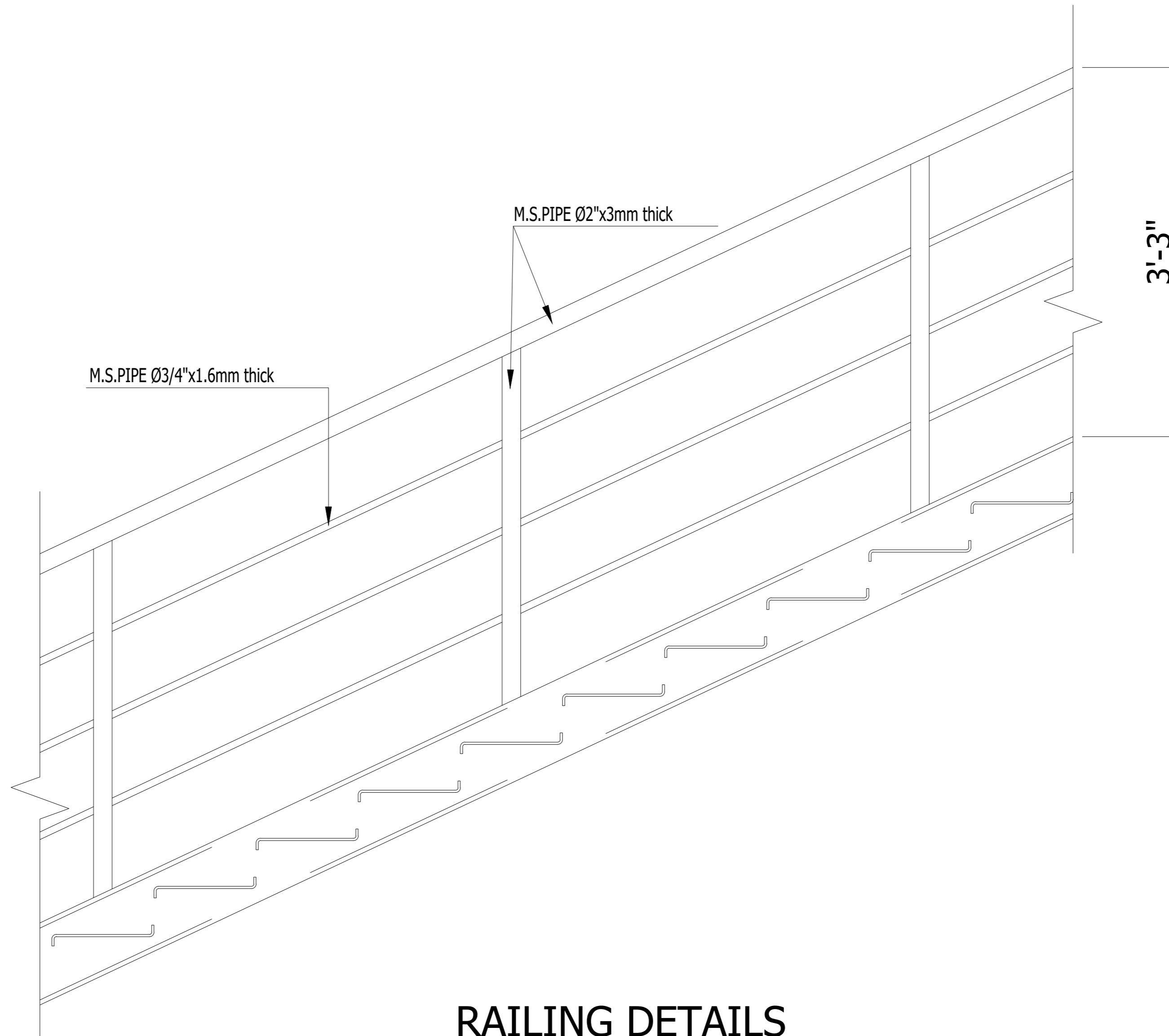
TITLE: **EMERGENCY STEEL STAIR MISC.DETAIL**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENG AHMAD	APPROVED BY:	DATE: FEB,2024
DRAWN BY: MATHEW SIMON	JOB NO.:	SCALE: N.T.S

DRG. NO. ST-33





## RAILING DETAILS

NOTE:  
 THE STRUCTURE IS DESIGNED AS COMPOSITE  
 IN NATURE I.E. ,  
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 SHOULD BE CARRIED OUT PARALLEL FOR FRAME AND WALLS  
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ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF  
 PEOPLE NURSING SCHOOL, LIAQUAT  
 UNIVERSITY OF MEDICAL & HEALTH  
 SCIENCE JAMSHORO**

TITLE: **EMERGENCY STAIR RAILING DETAIL**

CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>		
DESIGNED BY: ENG AHMAD	APPROVED BY:	DATE: FEB,2024
DRAWN BY: MATHEW SIMON	JOB NO.:	SCALE: N.T.S
DRG. NO.:	ST-34	

**ELECTRICAL**



# GENERAL NOTES

## ELECTRICAL SYSTEMS

1. FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL ELECTRICAL DRAWINGS. THE INSTRUCTIONS IN THESE NOTES SHALL BE FOLLOWED UNLESS STATED OTHERWISE.
2. THESE NOTES SHALL BE APPLICABLE TO THE ENTIRE ELECTRICAL WORKS. IF THE SITE CONDITIONS NECESSITATE ANY ALTERATIONS OR DEVIATIONS THE DIRECTIONS OF THE ENGINEER SHALL BE OBSERVED AS FINAL INSTRUCTIONS.
3. ALL ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH BOQ, TECHNICAL SPECIFICATIONS, ARCHITECTURAL, STRUCTURAL, PLUMBING AND HVAC DRAWINGS & ALL OTHER RELEVANT DETAILS.
4. DIMENSIONS/MEASUREMENTS GIVEN IN LAYOUT AND DETAILED DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE ACTUAL DIMENSIONS/ MEASUREMENTS ACCORDING TO STRUCTURAL AND ARCHITECTURAL DRAWINGS.
5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH ALL RELEVANT DETAILS TO THE ENGINEER FOR APPROVAL ACCORDING TO THE GENERAL CONDITIONS OF CONTRACT WELL IN TIME BEFORE COMMENCEMENT OF THAT WORK.
6. PROPER CO-ORDINATION OF ELECTRICAL WORKS WITH OTHER SERVICES SHALL BE CARRIED OUT AT SITE.
7. ALL NON-CURRENT CARRYING PARTS I.e. OUTER CASINGS OF EQUIPMENT SUCH AS HT & LT PANELS, DISTRIBUTIONS BOARDS, CABLE TRAYS, AUXILIARY CONSTRUCTIONS FOR EQUIPMENT ETC. SHALL BE CONNECTED TO THE GROUNDING/ EARTHING SYSTEM AT REQUIRED NUMBER OF POINTS WITH SPECIFIED SIZES OF CONDUCTORS. WATER PIPES ALONG ELECTRICAL LINE SHALL BE BONDED TO THE EARTHING SYSTEM WITH 10 sq.mm. SINGLE CORE, COPPER CONDUCTOR-PVC CABLE.
8. ELECTRICAL POINTS FOR EQUIPMENT SHALL BE INSTALLED IN CO-ORDINATION WITH THE RELEVANT DRAWINGS OF OTHER SERVICES, SUCH AS COMMUNICATION SYSTEMS, HVAC, PLUMBING ETC. THE LOCATION ON ELECTRICAL DRAWINGS IS ONLY INDICATIVE.
9. ARRANGEMENT OF ELECTRICAL EQUIPMENTS ON ELECTRICAL DRAWINGS ARE TENTATIVE. EXACT ARRANGEMENT OF EQUIPMENTS SHALL BE MADE IN VIEW OF ITS PHYSICAL DIMENSIONS AND EASE OF MAINTENANCE. AND AS PER SITE REQUIREMENTS.
10. LOADS ON ALL PHASES SHALL BE BALANCED AT THE TESTING/ COMMISSIONING STAGE.
11. CONDUIT/DUCT RUN UNDER FLOOR SHALL HAVE A MINIMUM COVER OF TWO INCHES FROM TOP OF CONDUIT/DUCT TO FINISH FLOOR LEVEL.
12. RUN GREEN-YELLOW OR GREEN SINGLE CORE PVC INSULATED COPPER CONDUCTOR CABLE OF SPECIFIED SIZES AS PROTECTIVE EARTH CONDUCTOR (ECC) ALL ALONG LIGHT AND POWER WIRING. WHEREVER THE SIZE IS NOT SPECIFIED THE FOLLOWING CRITERIA SHALL BE OBSERVED TO DETERMINE MINIMUM CROSS SECTIONAL AREA OF EARTH CONTINUITY CONDUCTOR (ECC) IN RELATION TO THE AREA OF ITS PHASE CONDUCTORS. RUN SEPARATE ECC FOR EACH CIRCUIT.
  - ECC & PHASE CONDUCTOR OF SAME SIZE FOR UP TO AND INCLUDING 16 SQMM CABLES
  - 16 SQMM ECC FOR PHASE CONDUCTOR OF 16 SQMM, 25SQMM & 35 SQMM CABLES
  - FOR CABLES OF 50 SQMM AND ABOVE SIZES, ECC IS HALF SIZE OF PHASE CONDUCTOR.
  - MAXIMUM SIZE OF ECC IS 70 SQMM.

## ELECTRICAL SYSTEMS

13. THE MAXIMUM CAPACITY OF PVC CONDUITS FOR SIMULTANEOUS DRAWING OF PVC INSULATED CABLES SHALL BE DETERMINED AS PER BS 4607. THE FOLLOWING TABLE SHALL BE USED TO DETERMINE THE MAXIMUM NUMBER OF CABLES.

S. #	NOMINAL CONDUCTOR SIZE (SQMM)	NO. & DIA OF WIRES	NOMINAL OVERALL DIA	20 MM DIA (3/4" DIA)	25 MM DIA (1" DIA)	32 MM DIA (1 1/4" DIA)
1	1.5	1/1.38	3.1	10	18	30
2	2.5	1/1.78	3.5	8	14	23
3	2.5	7/0.67	3.8	7	12	20
4	4	7/0.85	4.3	5	9	15
5	6	7/1.04	4.9	4	7	12
6	10	7/1.35	6.2	2	4	7
7	16	7/1.70	7.3	-	3	5
8	25	7/2.14	9.0	-	2	3
9	35	19/1.53	10.3	-	-	2

14. NORMAL & EMERGENCY CIRCUITS SHALL RUN IN SEPARATE CONDUITS.
  15. ALL WIRING FOR CONTROLS SHALL BE CARRIED OUT WITH 1 CORE PVC CABLES OF SPECIFIED VOLTAGE GRADE AND SIZES.
  16. THE WIRING SHALL BE CONTINUOUS LOOPING-IN TYPE AND NO JOINT IN WIRES SHALL BE ALLOWED.
  17. THE WIRING SYSTEM SHALL BE CARRIED OUT ONLY AFTER THE CONDUIT SYSTEM IS COMPLETELY INSTALLED AND ALL OUTLET BOXES, ETC. ARE FIXED IN POSITION.
  18. MOUNTING HEIGHTS OF ELECTRICAL FITTINGS WHEN MEASURED FROM FINISHED FLOOR LEVEL (F.F.L.) TO THE BOTTOM OF FITTINGS SHALL BE AS UNDER, UNLESS OTHERWISE SHOWN OR INSTRUCTED.
- |  |                   |
|--|-------------------|
| MAIN SWITCH BOARD                              | 48 INCHES         |
| DISTRIBUTION BOARD                             | 48 INCHES         |
| CONTROL PANEL                                  | 48 INCHES         |
| ON/OFF PUSH BUTTON STATION                     | 48 INCHES         |
| DIMMER CONTROL UNIT                            | 48 INCHES         |
| LIGHT CONTROL SWITCH (ONE WAY/TWO WAY)         | 48 INCHES         |
| 5A SOCKET OUTLETS IN GENERAL AREAS             | 10 INCHES         |
| 15A SOCKET OUTLETS IN GENERAL AREAS            | 10 INCHES         |
| 20A SOCKET OUTLETS IN GENERAL AREAS            | 10 INCHES         |
| 15A SOCKET OUTLETS IN KITCHEN (ABOVE COUNTER)  | 10 INCHES         |
| 15A SOCKET OUTLETS IN TOILETS                  | 66 INCHES         |
| 16A TP 5PIN INDUSTRIAL SOCKET OUTLETS IN LABS. | 48 INCHES         |
| 32A TP 5PIN INDUSTRIAL SOCKET OUTLETS IN LABS  | 48 INCHES         |
| 63A TP 5PIN INDUSTRIAL SOCKET OUTLETS IN LABS. | 48 INCHES         |
| CEILING FAN                                    | 96 INCHES         |
| WALL FAN                                       | 84 INCHES         |
| EXHAUST FAN                                    | REFER ARCH. DRGS. |

## COMMUNICATION SYSTEMS

1. FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL COMMUNICATION SYSTEMS DRAWINGS. THE INSTRUCTIONS IN THESE NOTES SHALL BE FOLLOWED UNLESS STATED OTHERWISE.
  2. THESE NOTES SHALL BE APPLICABLE TO THE ENTIRE COMMUNICATION SYSTEMS WORKS. IF THE SITE CONDITIONS NECESSITATE ANY ALTERATIONS OR DEVIATIONS THE DIRECTIONS OF THE ENGINEER SHALL BE OBSERVED AS FINAL INSTRUCTIONS.
  3. ALL COMMUNICATION SYSTEMS DRAWINGS SHALL BE READ IN CONJUNCTION WITH TECHNICAL SPECIFICATIONS, ITEMS OF B.O.Q., ARCHITECTURAL STRUCTURAL, HVAC, PLUMBING DRAWINGS AND ALL OTHER RELEVANT DETAILS.
  4. DIMENSIONS/MEASUREMENTS GIVEN IN LAYOUT AND DETAILED DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALCULATE THE ACTUAL DIMENSIONS/MEASUREMENTS ACCORDING TO STRUCTURAL AND ARCHITECTURAL DRAWINGS.
  5. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH ALL RELEVANT DETAILS TO THE ENGINEER FOR APPROVAL ACCORDING TO THE GENERAL CONDITIONS OF CONTRACT WELL IN TIME BEFORE COMMENCEMENT OF THAT WORK.
  6. PROPER CO-ORDINATION OF COMMUNICATION SYSTEMS WORKS WITH OTHER SERVICES SHALL BE CARRIED OUT AT SITE.
  7. TELEPHONE SYSTEM SHALL BE COMPLETE WITH INSTRUMENTS, EQUIPMENT AND INTERCONNECTING WIRING, TELEPHONE EXCHANGE, TELEPHONE OUTLETS, JUNCTION BOXES, CONDUITS OF SPECIFIED SIZES IN THE BUILDING, AND UNDERGROUND PIPES OF SPECIFIED SIZES SHOWN ON DRAWINGS SHALL BE PROVIDED. WHERE SIZE OF CONDUIT/PIPE IS NOT SPECIFIED SUITABLE SIZE SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.
  8. POINTS FOR COMMUNICATION SYSTEMS EQUIPMENT SHALL BE INSTALLED IN CO-ORDINATION WITH THE RELEVANT DRAWINGS OF OTHER SERVICES, SUCH AS ELECTRICAL, HVAC, PLUMBING ETC. THE LOCATION ON COMMUNICATION SYSTEMS DRAWINGS IS ONLY INDICATIVE.
  9. ARRANGEMENT OF COMMUNICATION SYSTEMS EQUIPMENTS ON DRAWINGS ARE TENTATIVE EXACT ARRANGEMENT OF EQUIPMENTS SHALL BE MADE IN VIEW OF ITS PHYSICAL DIMENSIONS AND EASE OF MAINTENANCE.
  10. CONDUIT/DUCT RUN UNDER FLOOR SHALL HAVE A MINIMUM COVER 2 INCHES FROM TOP OF CONDUIT/DUCT TO FINISH FLOOR LEVEL.
  11. RUN GREEN-YELLOW OR GREEN SINGLE CORE PVC INSULATED COPPER CONDUCTOR CABLE OF SPECIFIED SIZES AS PROTECTIVE EARTH CONDUCTOR (ECC) ALL ALONG COMMUNICATION SYSTEMS WIRING.
  12. ALL WIRING FOR CONTROLS SHALL BE CARRIED OUT WITH 1 CORE PVC CABLES OF SPECIFIED VOLTAGE GRADE AND SIZES.
  13. THE WIRING SHALL BE CONTINUOUS LOOPING-IN TYPE AND NO JOINT IN WIRES SHALL BE ALLOWED.
  14. THE WIRING SYSTEM SHALL BE CARRIED OUT ONLY AFTER THE CONDUIT SYSTEM IS COMPLETELY INSTALLED AND ALL OUTLET BOXES, ETC. ARE FIXED IN POSITION.
  15. MOUNTING HEIGHTS OF ELECTRICAL FITTINGS WHEN MEASURED FROM FINISHED FLOOR LEVEL (F.F.L.) TO THE BOTTOM OF FITTINGS SHALL BE AS UNDER, UNLESS OTHERWISE SHOWN OR INSTRUCTED.
- |                                 |            |
|---------------------------------|------------|
| TELEPHONE JUNCTION BOX          | 10 INCHES  |
| TELEPHONE OUTLET                | 10 INCHES  |
| INTERCOM CONTROL PACK           | 10 INCHES  |
| INTERCOM STATION (WALL MOUNTED) | 36 INCHES  |
| FA SYSTEM CONTROL PANEL         | 36 INCHES  |
| FA SYSTEM JUNCTION BOX          | 10 INCHES  |
| MANUAL CALL STATION             | 42 INCHES  |
| AUDIO ALARM                     | 100 INCHES |

ADDITION & REVISION				
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY



### NEW VISION ENGINEERING CONSULTANT

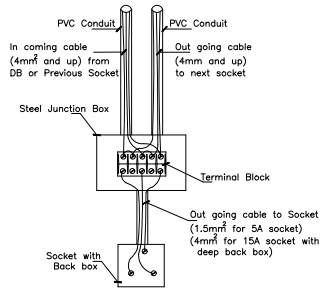
Head Office: Office No.B-6 Second Floor Masood Arcade  
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 Ph: +92-51-4848375, Fax: +92-51-4848375  
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 Ph: +92-42-37250130

PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	LUMHS GIRLS HOSTEL <b>GENERAL NOTES</b>	
CAD filename:		

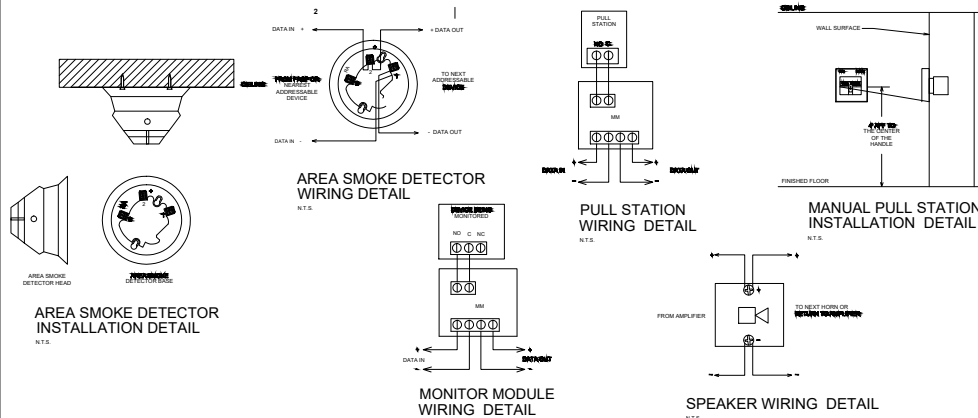
CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENGR. SHADAB	APPROVED BY: A.S	DATE: JAN. 2024
DRAWN BY: ENGR. AHMAD	JOB NO.	SCALE: N.T.S
DRG. NO.	EL-01	

## DETAIL : A-2(a)

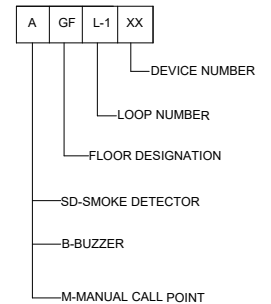
# FIRE ALARM AND PUBLIC ADDRESS SYSTEM COMPONENT CONNECTION DETAIL.



**DETAIL : G**  
(INSTALL SOCKET WITH JUNCTION BOX)  
N.T.S



## DETAIL : H



**NOTES:**  
Location of FACP & Integration with existing Fire Alarm System if existed to be decided as per site requirements & as per approval of the Client's Representative.

ADDITION & REVISION				
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY



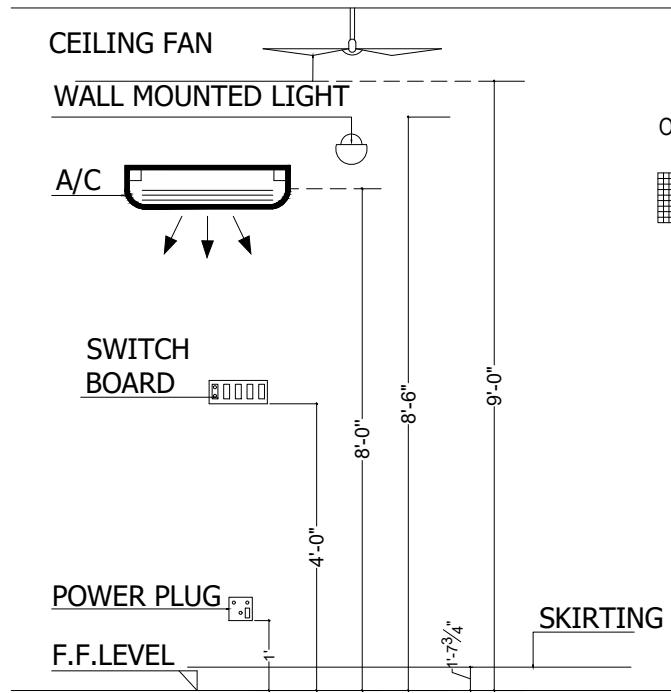
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Ph: +92-42-37250130

PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
TITLE:	LUMHS GIRLS HOSTEL FIRE ALAM TYPICAL DETAIL		
CAD filename:			

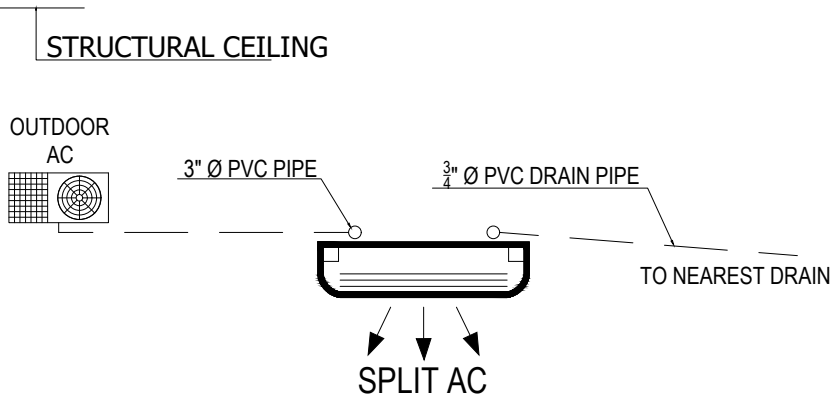
CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY:	ENGR. SHADAB	APPROVED BY:	A.S
DATE:	JAN. 2024		
DRAWN BY:	ENGR. AHMAD	JOB NO.	
SCALE:	N.T.S		
DRG. NO.	EL-02		





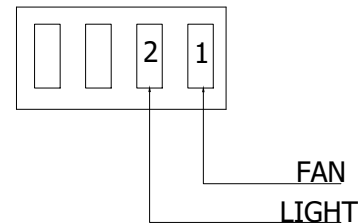
### DETAIL-S1

MOUNTING HEIGHT OF FIXTURE DETAIL



### DETAIL-Z1

TYPICAL AC INDOOR AND OUTDOOR UNIT DETAILS



## NOTE:

LOCATION OF ACs INDOOR, OUTDOOR UNIT AND ACs POWER SOCKETS IN APARTMENTS AREA ARE TENTATIVE SUBJECT TO FINAL FINISHING DETAIL DECIDED BY CLIENT, ARCHITECT IN CHARGE AND CONCERNED SITE ENGINEER

ADDITION & REVISION				
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY

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
Regional Office: 287-A Street# 6, Cavalry Ground ,Lahore  
 Ph: +92-42-37250130






PROJECT: <b>UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>
TITLE: <b>LUMHS GIRLS HOSTEL MOUNTING HEIGHT OF FIXTURE DETAIL</b>
CAD filename:

CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>		
DESIGNED BY: ENGR. SHADAB	APPROVED BY: A.S	DATE: JAN. 2024
DRAWN BY: ENGR. AHMAD	JOB NO.	SCALE: N.T.S
DRG. NO.	EL-03	

**LIGHTING AND POWER**

S.NO	SYMBOLS	DESCRIPTION
1		09 WATT LED/SMD LIGHT FIXTURE OR EQUIVALENT
2		24 WATT LED/SMD LIGHT FIXTURE OR EQUIVALENT
3		18 WATT LED LIGHT FIXTURE SURFACE/RECESSED MOUNTED OR EQUIVALENT.
4		12 WATT LED LIGHT FIXTURE SURFACE/RECESSED MOUNTED, IP-44 RATED OR EQUIVALENT.
5		10 " DIA EXHAUST FAN WITH PLASTIC BODY,FAN BLADES AND LOUVERS
6		48" OR 56" DIA CEILING FAN
7		INDICATES GANG TYPE SWITCH 10 AMPS, INDICATES NUMBER OF SWITCHES ON SWITCH PLATE
8		INDICATES 3 PIN COMBINED SWITCH SOCKET 10-13 AMPS, ON PLASTIC BACK BOX
9		COMPUTER SOCKET OUTLET RJ45
10		INDICATES ROUND PIN 15 AMPS SOCKET, ON PLASTIC BACK BOX
11		20 Watt Flood Light
12		DISTRIBUTION BOARD( DB-XXX) XXX-DENOTES NAME
13		A.C 40 TP AMPS SWITCH & Unit (4 Ton)
14		A.C 20 SP AMPS SWITCH & unit(2 Ton)
15		Data cabinet

**FIRE ALARM SYSTEM**

S.NO	SYMBOLS	DESCRIPTION
1		FIRE ALARM CONTROL PANEL
2		SMOKE DETECTOR NON IONISATION TYPE.
3		MANUAL STATION & ALARM SOUNDER

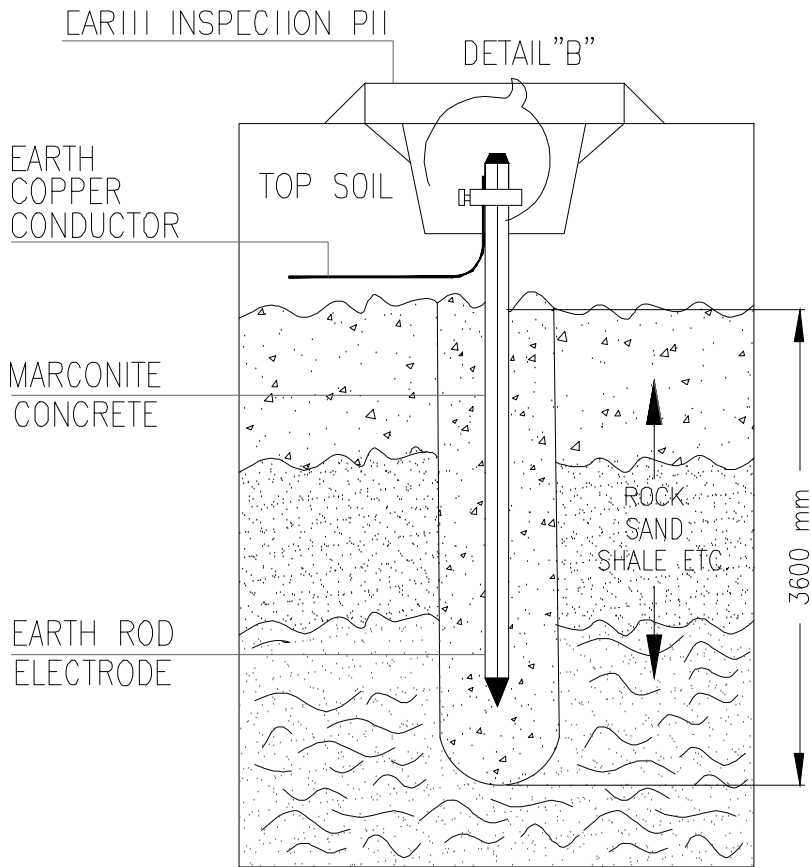
ADDITION & REVISION				
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY



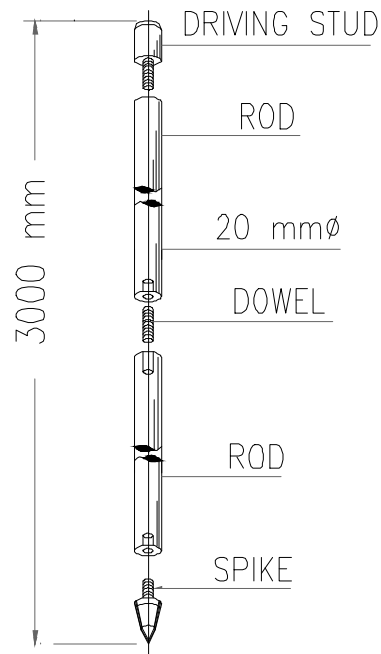
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 Ph: +92-42-37250130

PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	LUMHS GIRLS HOSTEL LEGENDS & SYMBOLS	
CAD filename:		

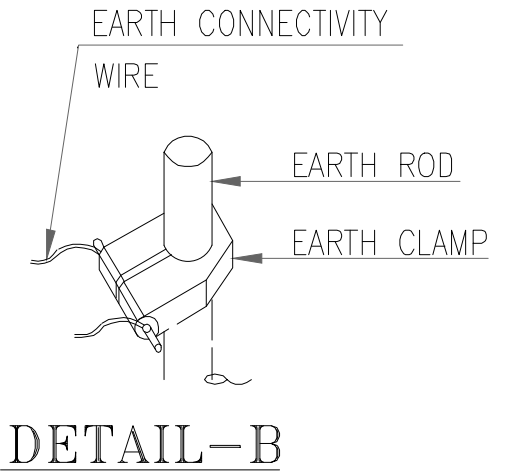
CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE:
ENGR. SHADAB	A.S	JAN, 2024
DRAWN BY:	JOB NO.	SCALE:
ENGR. AHMAD		N.T.S
DRG. NO.	EL-04	



EARTH ROD  
INSTALLATION  
DETAIL



EARTH  
ELECTRODE  
COPPER  
ROD



DETAIL-B

ADDITION & REVISION				
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY



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Ph: +92-42-37250130

PROJECT:  
**UPGRADATION AND IMPROVEMENT OF PEOPLE  
NURSING SCHOOL, LIAQUAT UNIVERSITY OF  
MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS GIRLS HOSTEL**

**EARTHING DETAIL**

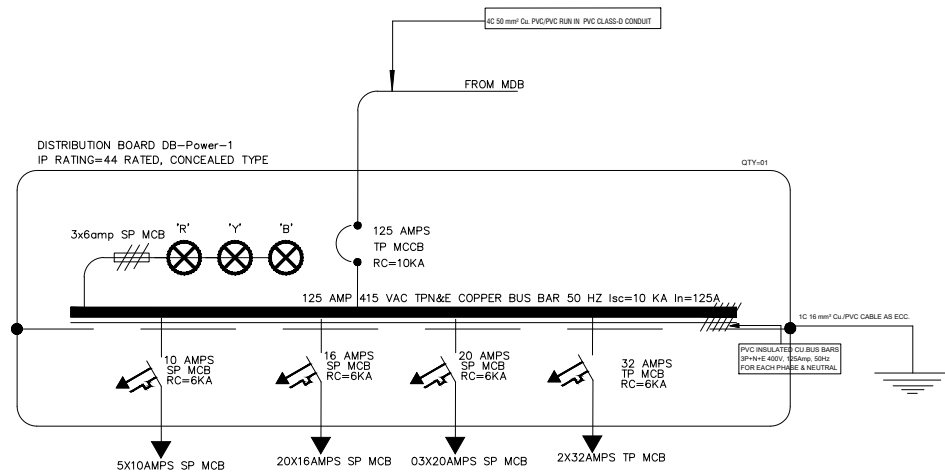
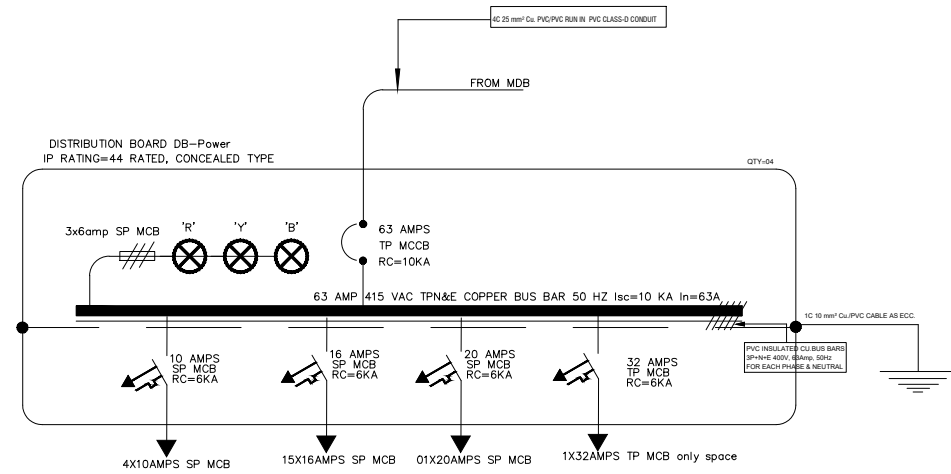
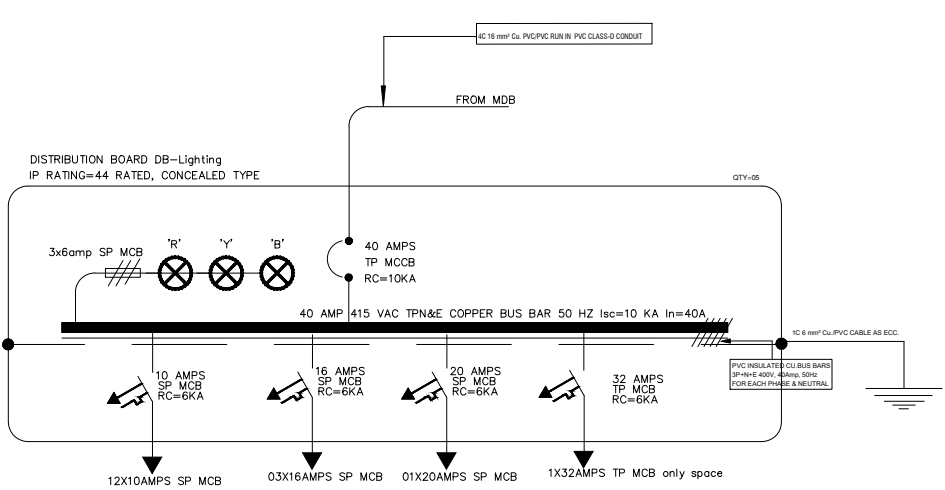
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CLIENT:  
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH  
SCIENCE JAMSHORO**

DESIGNED BY: ENGR. SHADAB APPROVED BY: A.S DATE: JAN. 2024

DRAWN BY: ENGR. AHMAD JOB NO. SCALE: N.T.S

DRG. NO. EL-05



ADDITION & REVISION				
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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	LUMHS GIRLS HOSTEL SLD OF DISTRIBUTION BOARDS	
CAD filename:		

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE:
ENGR. SHADAB	A.S	JAN, 2024
DRAWN BY:	JOB NO.	SCALE:
ENGR. AHMAD		N.T.S
DRG. NO.	EL-06	

1 x 120 sqmm 4 Core Cu/PVC./PVC STRANDED CABLE

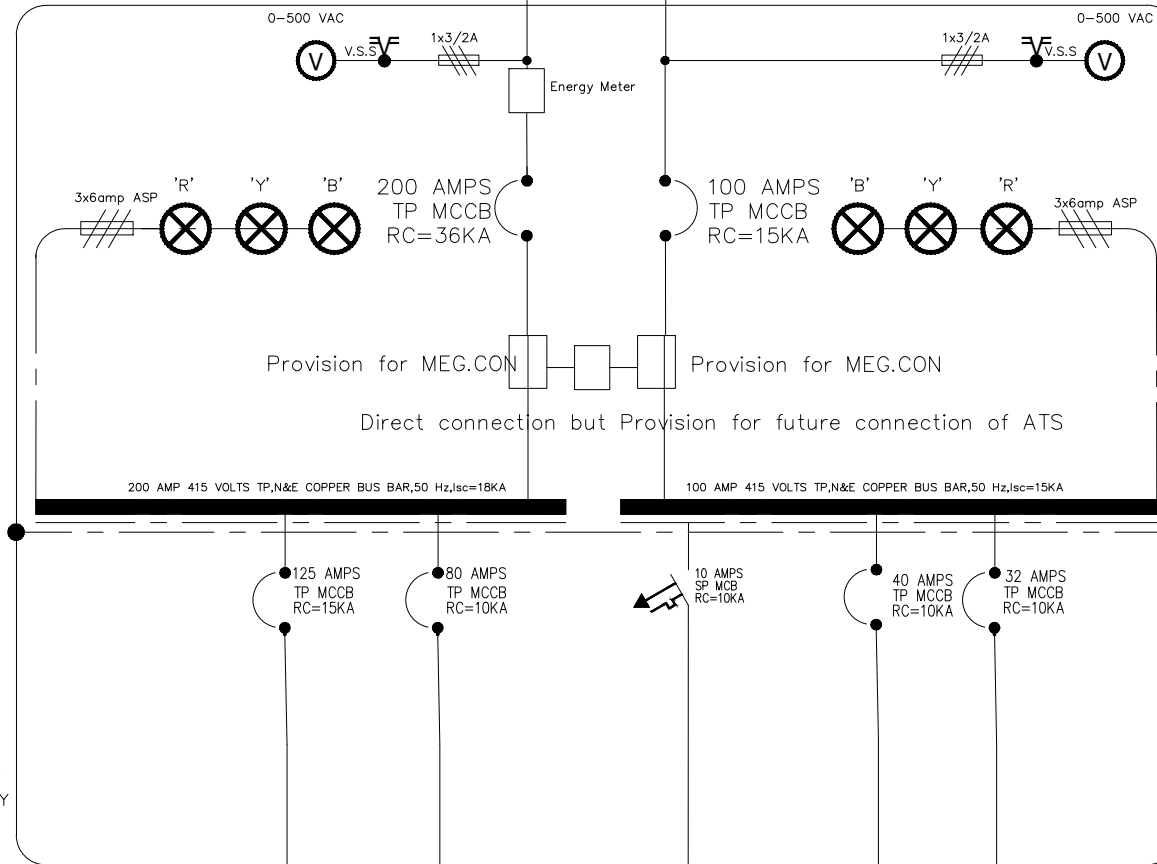
1x 35 sqmm 4 Core Cu/PVC./PVC STRANDED CABLE

FROM ALREADY INSTALLED TRANSFORMER

FROM Generator

MDB  
MAIN DISTRIBUTION BOARD

16 SWG SHEET STEEL POWDER  
FLOOR STANDING TYPE QTY=01



PHASE FAILURE RELAY  
PHASE REVERSAL RELAY  
SPD-40KA CLASS-A

ADDITION & REVISION				
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY



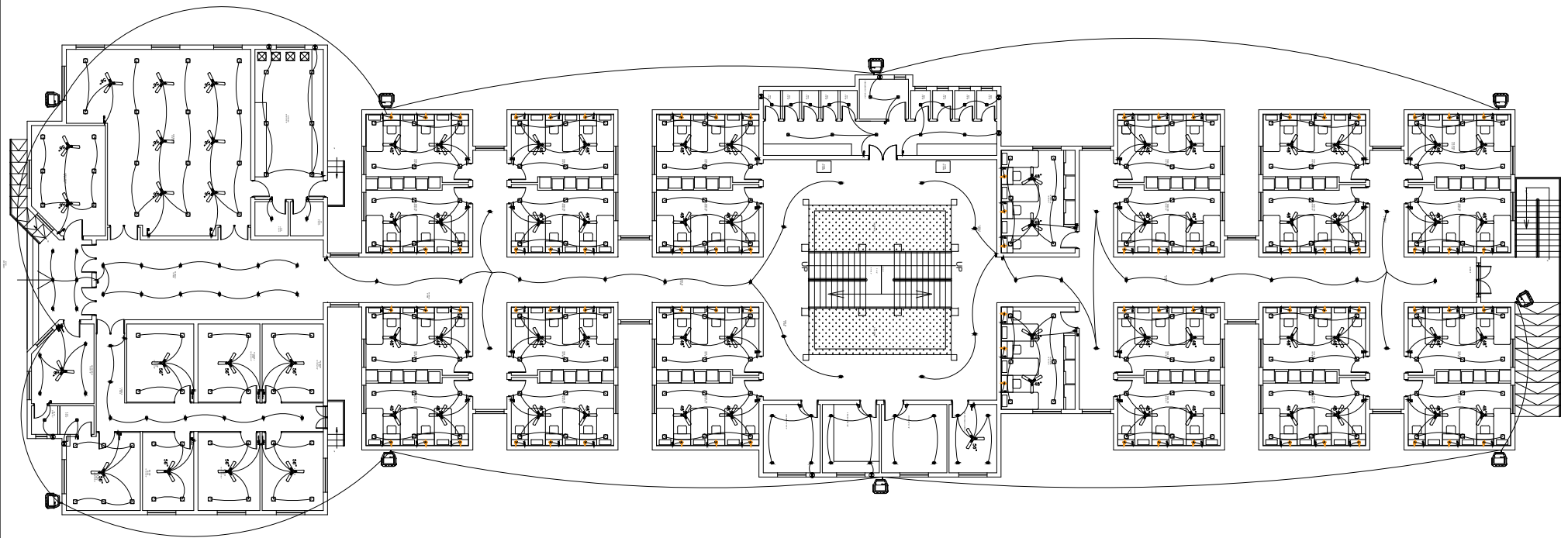
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Ph: +92-42-37250130

PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	LUMHS GIRLS HOSTEL MAIN DISTRIBUTION BOARD	
CAD filename:		

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE:
ENGR. SHADAB	A.S	JAN. 2024
DRAWN BY:	JOB NO.	SCALE:
ENGR. AHMAD		N.T.S
DRG. NO.	EL-07	





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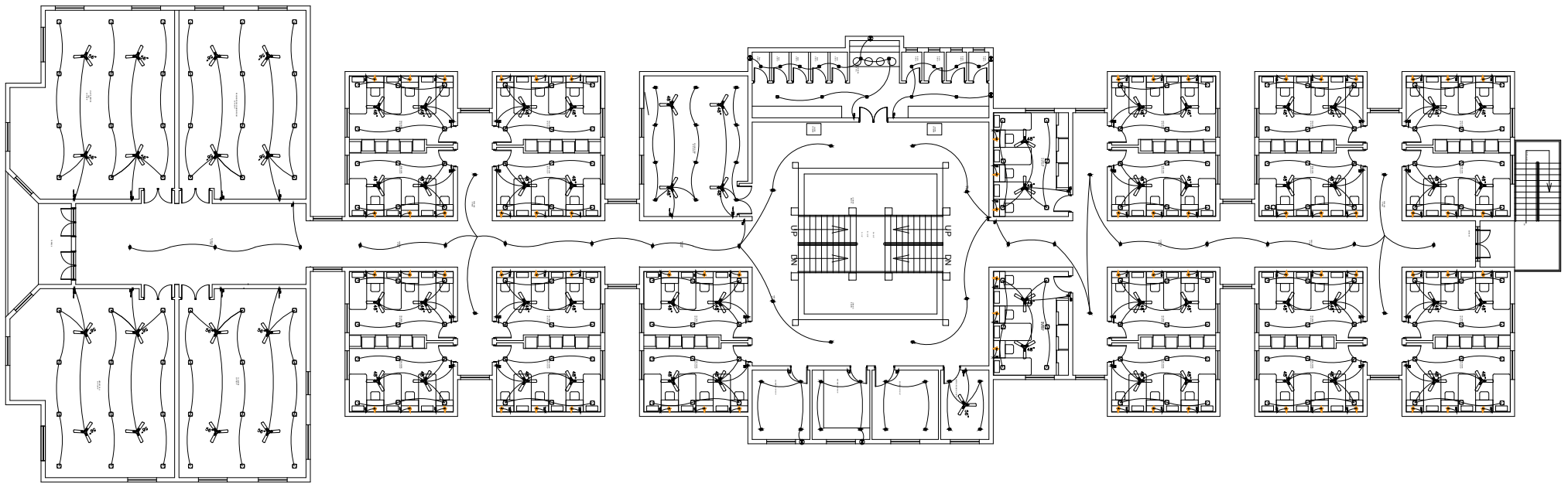
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS GIRLS HOSTEL  
 GROUND FLOOR PLAN  
 LIGHTING LAYOUT**

CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENGR. SHADAB	APPROVED BY: A.S	DATE: JAN. 2024
DRAWN BY: ENGR. AHMAD	JOB NO.	SCALE: N.T.S
DRG. NO.	EL-08	



ADDITION & REVISION				
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PROJECT:  
**UPGRADATION AND IMPROVEMENT OF PEOPLE  
 NURSING SCHOOL, LIAQUAT UNIVERSITY OF  
 MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE:  
**LUMHS GIRLS HOSTEL  
 FIRST FLOOR PLAN  
 LIGHTING LAYOUT**

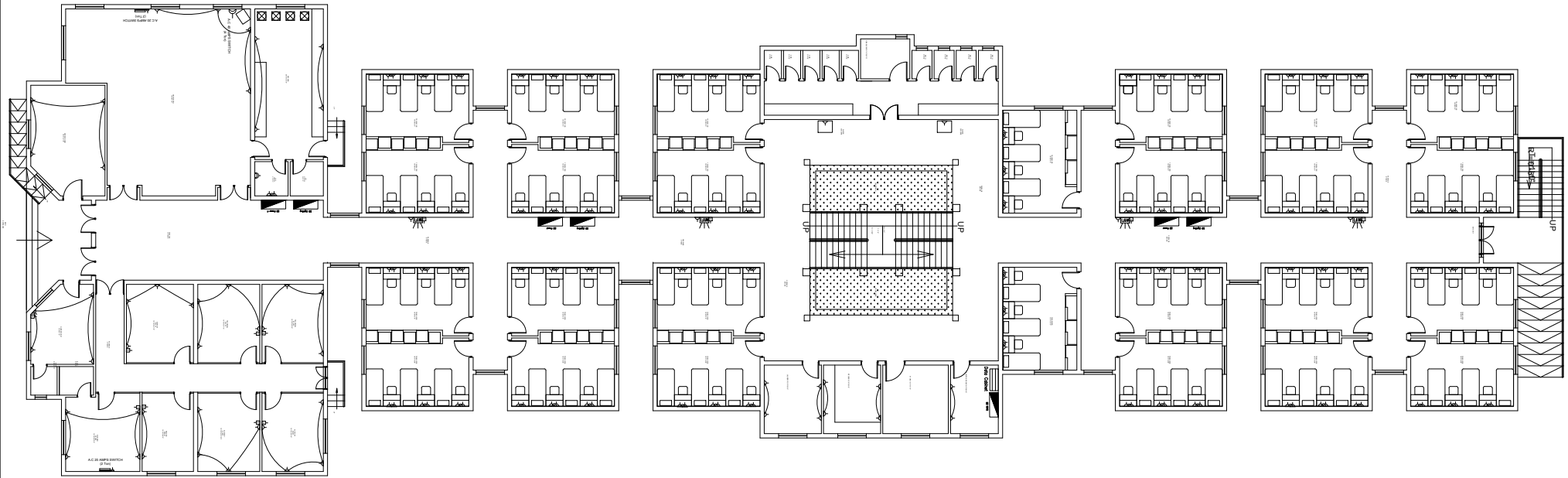
CAD filename:

CLIENT:  
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DESIGNED BY: ENGR. SHADAB	APPROVED BY: A.S	DATE: JAN, 2024
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DRAWN BY: ENGR. AHMAD	JOB NO.	SCALE: N.T.S
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DRG. NO.	EL-09
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PROJECT:  
**UPGRADATION AND IMPROVEMENT OF PEOPLE  
NURSING SCHOOL, LIAQUAT UNIVERSITY OF  
MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE:  
**LUMHS GIRLS HOSTEL  
GROUND FLOOR PLAN  
POWER LAYOUT**

CAD filename:

CLIENT:  
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH  
SCIENCE JAMSHORO**

DESIGNED BY:  
ENGR. SHADAB

APPROVED BY:  
A.S

DATE:  
JAN, 2024

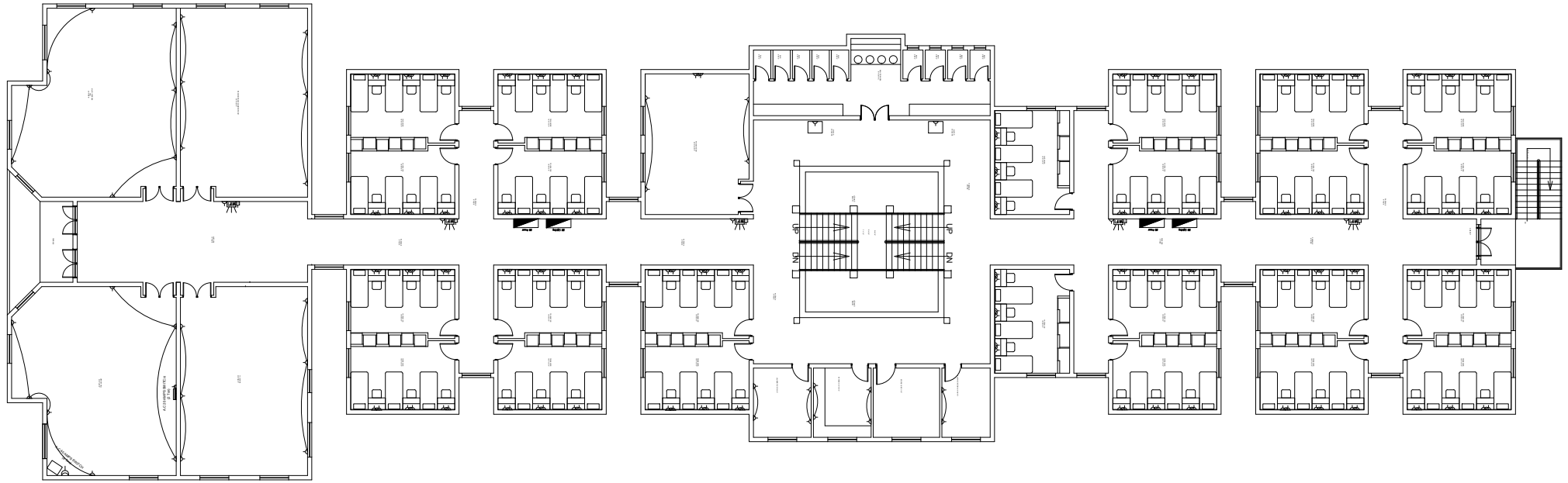
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EL-10



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PROJECT:  
**UPGRADATION AND IMPROVEMENT OF PEOPLE  
 NURSING SCHOOL, LIAQUAT UNIVERSITY OF  
 MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE:  
**LUMHS GIRLS HOSTEL  
 FIRST FLOOR PLAN  
 POWER LAYOUT**

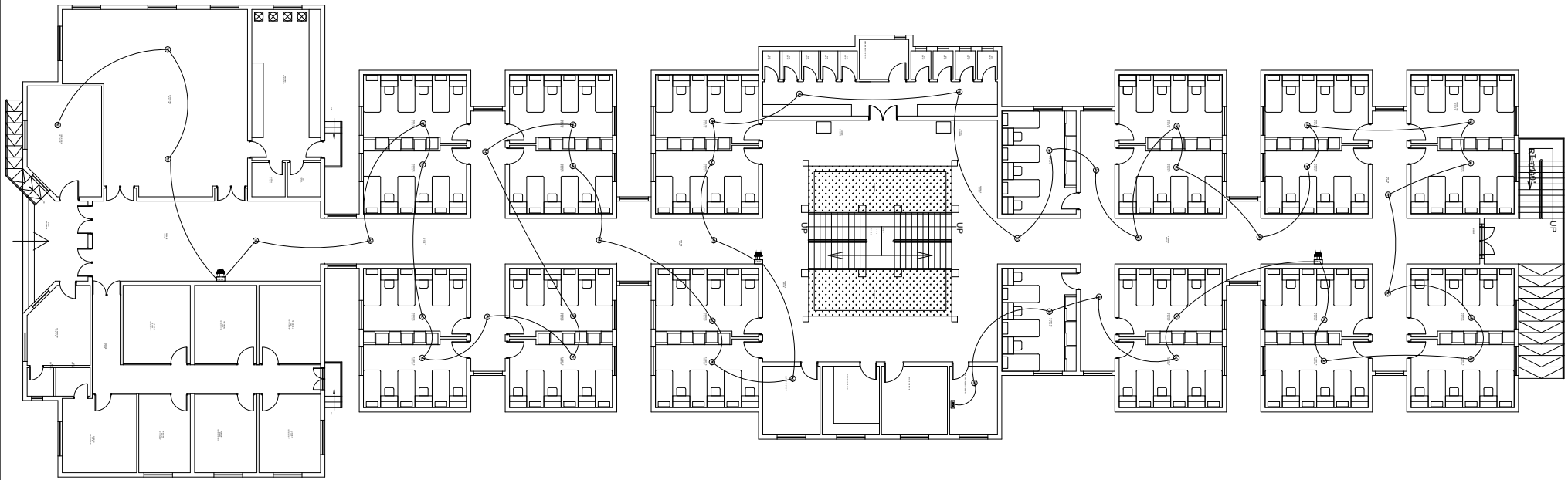
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CLIENT:  
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 SCIENCE JAMSHORO**

DESIGNED BY: ENGR. SHADAB	APPROVED BY: A.S	DATE: JAN. 2024
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DRAWN BY: ENGR. AHMAD	JOB NO.	SCALE: N.T.S
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DRG. NO.	EL-11
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Regional Office: 287-A Street # 6, Cavalry Ground, Lahore  
Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS GIRLS HOSTEL  
GROUND FLOOR FIRE  
ALARM SYSTEM LAYOUT**

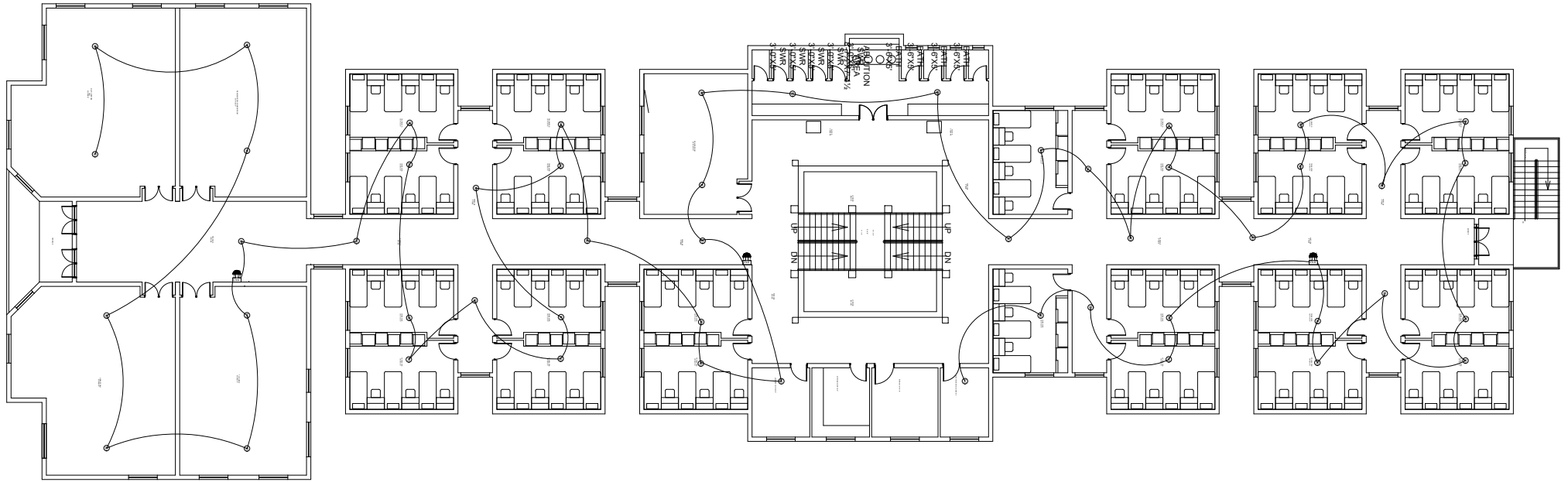
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CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENGR. SHADAB APPROVED BY: A.S DATE: JAN. 2024

DRAWN BY: ENGR. AHMAD JOB NO. SCALE: N.T.S

DRG. NO. EL-12



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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS GIRLS HOSTEL FIRST FLOOR FIRE ALARM SYSTEM LAYOUT**

CAD filename:

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: ENGR. SHADAB	APPROVED BY: A.S	DATE: JAN. 2024
DRAWN BY: ENGR. AHMAD	JOB NO.	SCALE: N.T.S
DRG. NO.	EL-13	



**PLUMBING  
LUMHS HOSTEL**

## LIST OF DRAWINGS

S.NO.	DRAWING TITLE	DRG. NO
<b>PLUMBING DRAWINGS</b>		
1	LIST OF DRAWING	PL-00
2	GENERAL NOTES	PL-01
3	GROUND FLOOR PLAN (SANITARY DRAINAGE LAYOUT)	PL-02
4	FIRST FLOOR PLAN (SANITARY DRAINAGE LAYOUT)	PL-03
5	ROOF PLAN (SANITARY DRAINAGE LAYOUT)	PL-04
6	GROUND FLOOR PLAN (WATER SUPPLY LAYOUT)	PL-05
7	FIRST FLOOR PLAN (WATER SUPPLY LAYOUT)	PL-06
8	ROOF PLAN (WATER SUPPLY LAYOUT)	PL-07
9	GROUND FLOOR PLAN (GAS SUPPLY LAYOUT)	PL-08
10	FIRST FLOOR PLAN (GAS SUPPLY LAYOUT)	PL-09
11	TYPICAL DETAILS	PL-10
12	TYPICAL DETAILS	PL-11

ADDITION & REVISION					
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK BY	APP. BY



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PROJECT: <b>UPGRADATION AND IMPROVEMENT OF PEOPLE                  NURSING SCHOOL, LIAQUAT UNIVERSITY OF                  MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>	CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH                  SCIENCE JAMSHORO</b>									
TITLE: <p style="text-align: center;"><b>LIST OF DRAWINGS</b></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">DESIGNED BY: AHMED JANGANHEER</td> <td style="width: 33%;">APPROVED BY:</td> <td style="width: 33%;">DATE : JAN,2024</td> </tr> <tr> <td>DRAWN BY: MATHEW SIMON</td> <td>JOB NO.</td> <td>SCALE: N.T.S</td> </tr> <tr> <td colspan="2">DRG. NO.</td> <td style="text-align: right;">PL-00</td> </tr> </table>	DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE : JAN,2024	DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S	DRG. NO.		PL-00
DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE : JAN,2024								
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S								
DRG. NO.		PL-00								

GENERAL NOTES.

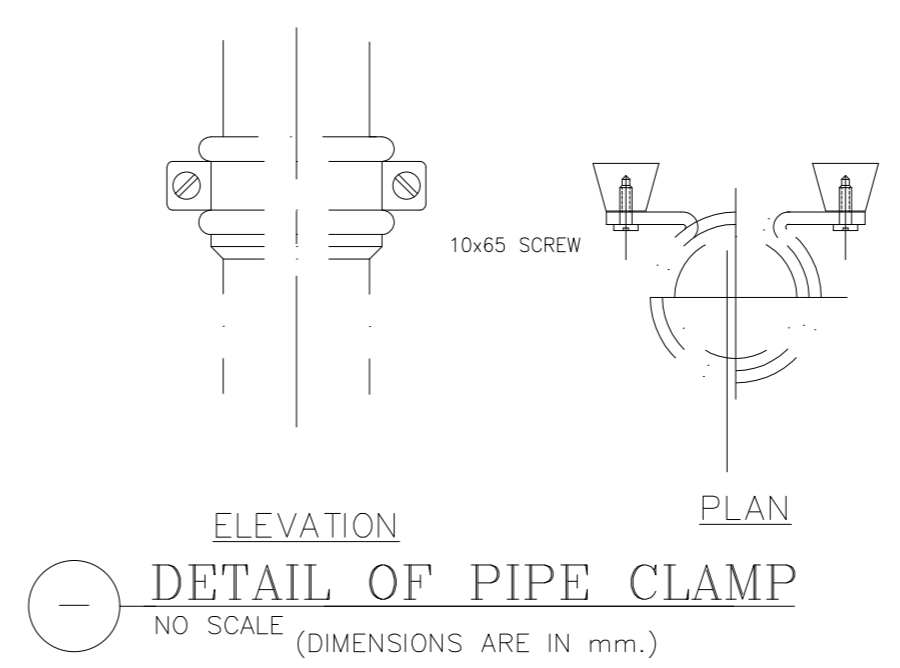
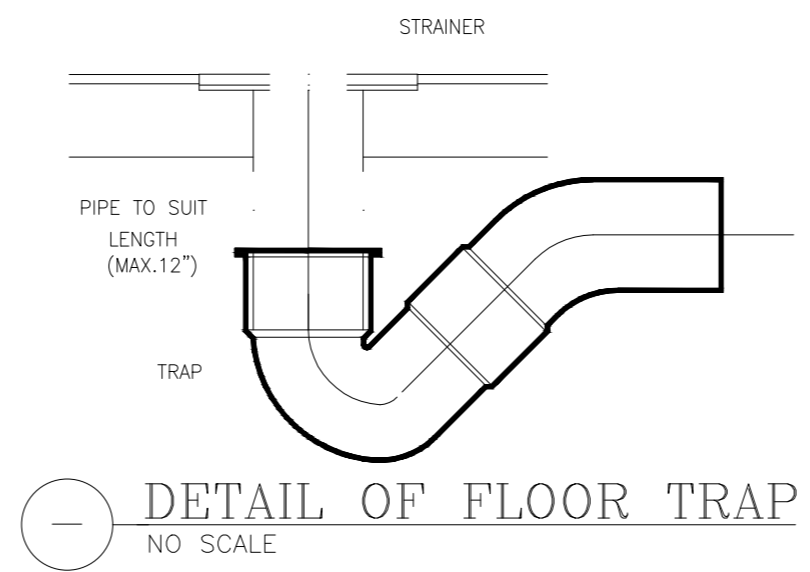
- 1 - PIPE PASSING THROUGH WALL, FLOOR OR ROOF SHALL BE PROTECTED WITH SLEEVES
- 2 - PIPE SIZES & DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE MENTIONED
- 3 - PLUMBING SERVICES, SHALL BE CO-ORDINATED WITH OTHER SERVICES SUCH AS ELECTRICAL, ETC. TO AVOID CONFLIT OR INTERFERENCE WITH THEM.
- 4 - SIZE OF FLOOR DRAIN UNLESS OTHERWISE STATED SHALL BE SAME AS THE SIZE OF OUTLET DRAIN PIPE.
- 5 - WHEREVER FLOOR DRAIN/TRAP IS SHOWN, SLOPE FLOOR TOWARDS DRAIN/TRAP.
- 6 - HORIZONTAL DRAINAGE PIPING OF 3 INCH DIAMETER & LESS SHALL BE INSTALLED WITH A SLOPE OF NOT LESS THEN 1/4 INCH PER FOOT, LARGER ONES WITH A SLOPE OF NOT LESS THAN 1/8 INCH PER FOOT.
- 7 - EXTENSION OF VENT PIPES THROUGH A ROOF SHALL BE TERMINATED AT LEAST 6 INCHES ABOVE FINISHED ROOF LEVEL. EACH VENT TERMINAL SHALL BE MADE WATER TIGHT WITH THE ROOF BY PROPER FLASHING
- 8 - SIZE OF ANYTHING GIVEN ON PLUMBING DRAWING MEANS ITS CLEAR DIMENSIONS (CAPACITY), UNLESS OTHERWISE MENTIONED.
- 9 - THE "VERTICAL DISTANCE" FROM FIXTURE OUTLET TO THE TRAP WEIR SHALL PREFERABLY BE NOT MORE THAN 12 INCHES. HOWEVER, THIS "VERTICAL DISTANCE" FROM THE FIXTURE OUTLET TO THE TRAP WEIR SHALL NOT EXCEED 24 INCHES.
- 10 - WHERE THE CHANGE OF DIRECTION IS 45° OR LESS, IT IS NOT NECESSARY TO PROVIDE A CLEAN OUT. BUT WHEN THE CHANGE IN DIRECTION IS MORE THAN 45°, A CLEAN OUT SHOULD BE REQUIRED.
- 11 - ALL TRAPS AND FLOOR DRAINS SHALL HAVE A WATER SEAL NOT LESS THAN 2 INCHES.
- 12 - (EXTERNAL SERVICES) THE BOTTOM OF WATER-SERVICES PIPE , AT ALL POINTS,SHALL BE AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER LINE AT ITS HIGHEST POINT.
- 13 - NO "T" FITTING IS ALLOWED IN SANITARY DRAINAGE LAYOUT. USE ONLY "Y" FITTINGS.

**TABLE-1**

ABBREV.	DESCRIPTION
SP	SOIL PIPE
WP	WASTE PIPE
SS	SOIL STACK
WS	WASTE STACK
VP	VENT PIPE
VS	VENT STACK
T/A	TO ABOVE
F/A	FROM ABOVE
T/B	TO BELOW
F/B	FROM BELOW

**TABLE-2**

ABBREV.	DESCRIPTION
GV	GATE VALVE
WP	WASTE PIPE
SP	SOIL PIPE
HS	HAND SHOWER
G.T	GULLY TRAP
Gr.T	GREASE INTERCEPTOR
MFT	MULTI FLOOR TRAP
FT	FLOOR TRAP
O.H.W.T	OVERHEAD WATER TANK
U.G.W.T	UNDERGROUND WATER TANK
WC	WATER CLOSD
SH	SHOWER
T/A	TO ABOVE
F/A	FROM ABOVE
T/B	TO BELOW
F/B	FROM BELOW



ADDITION & REVISION					
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK BY	APP. BY

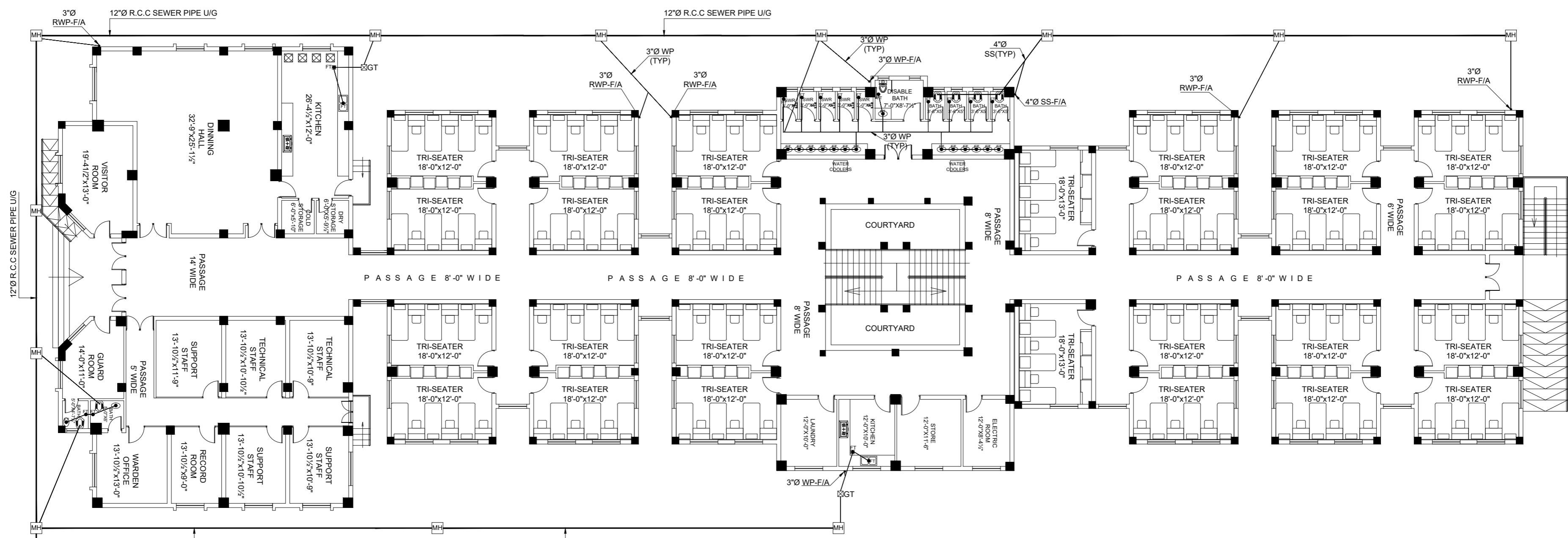
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 Ph: +92-42-37250130

PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **GENERAL NOTES**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE : JAN,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	PL-01	



**GROUND FLOOR PLAN  
SANITARY  
DRAINAGE LAYOUT**

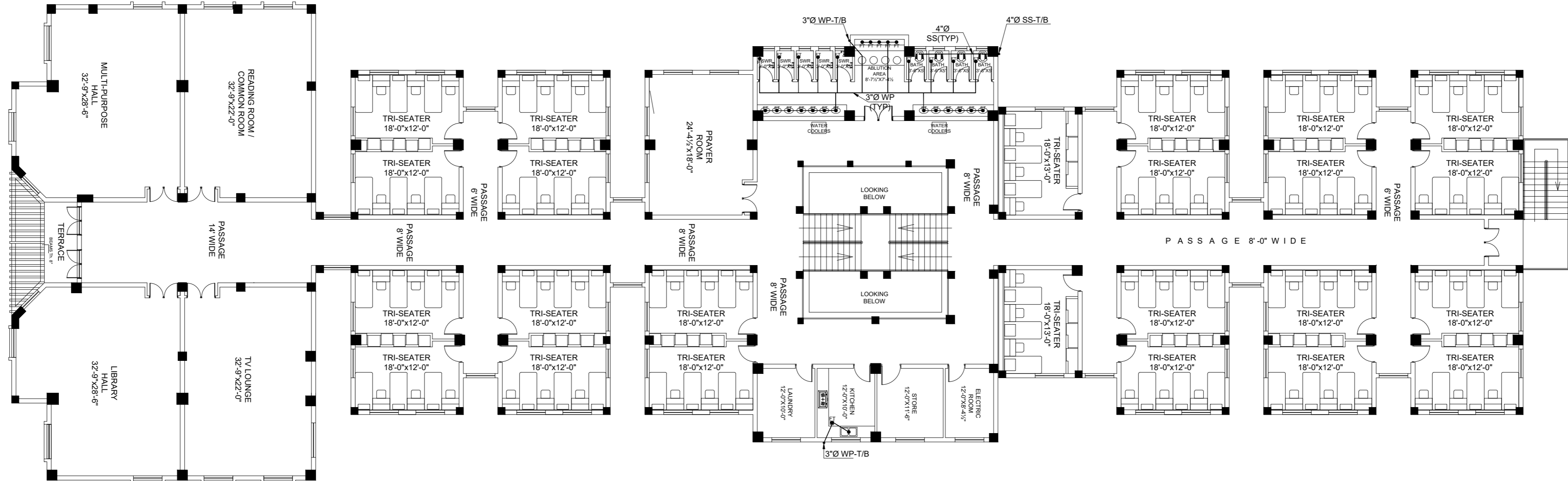
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ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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PROJECT: <b>UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>	CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>
TITLE: <b>GROUND FLOOR PLAN SANITARY DRAINAGE LAYOUT</b>	DESIGNED BY: AHMED JANGANHEER
	APPROVED BY:
	DRAWN BY: MATHEW SIMON
	DRG. NO.

DATE : JAN,2024
SCALE: N.T.S
PL-02



**FIRST FLOOR PLAN  
SANITARY  
DRAINAGE LAYOUT**

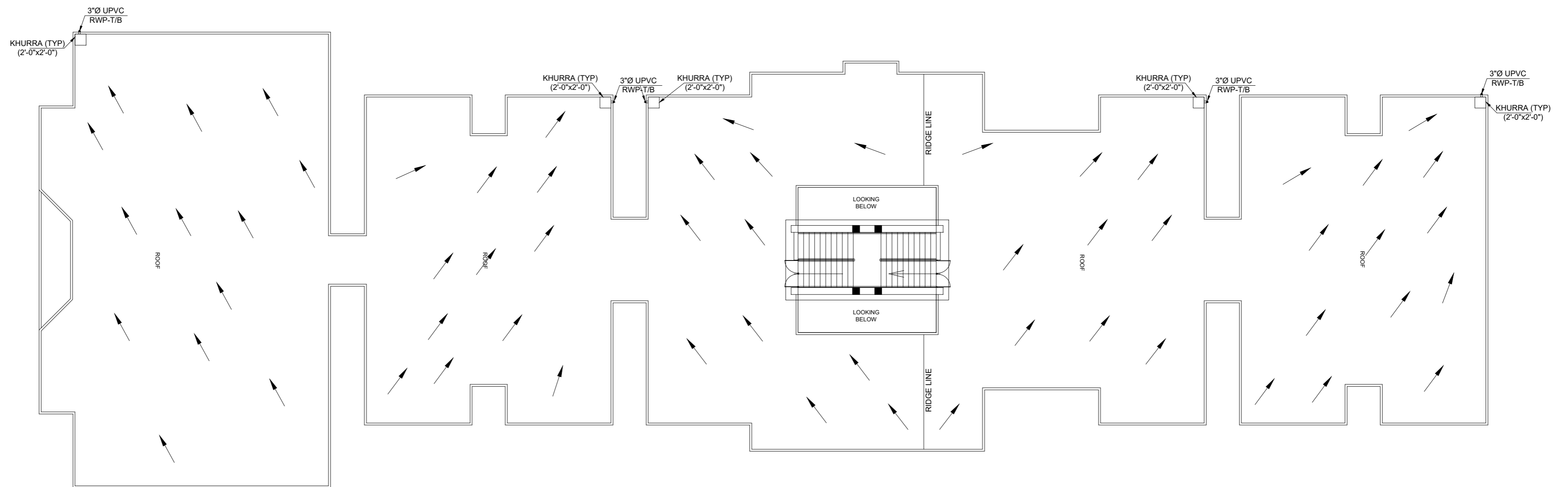
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ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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PROJECT: <b>UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>	CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>
TITLE: <b>FIRST FLOOR PLAN SANITARY DRAINAGE LAYOUT</b>	DESIGNED BY: AHMED JANGANHEER
	APPROVED BY:
	DATE : JAN,2024
	DRAWN BY: MATHEW SIMON
	JOB NO.
	SCALE: N.T.S
	DRG. NO. PL-03





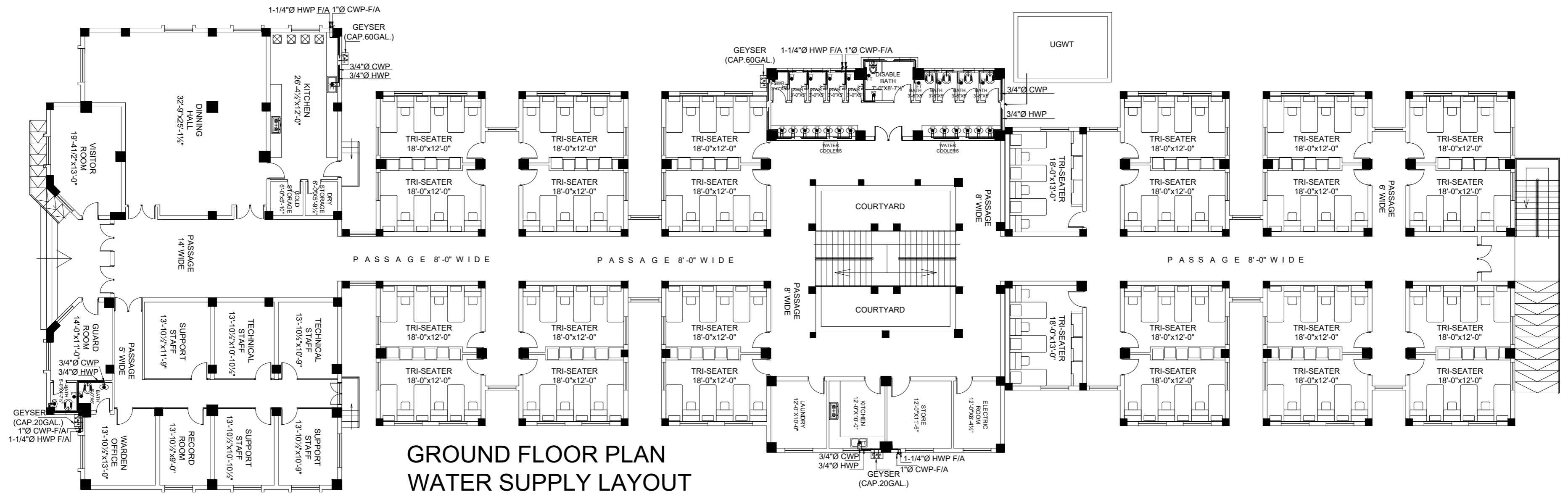
**ROOF PLAN  
STORM WATER  
DRAINAGE LAYOUT**

ADDITION & REVISION					
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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PROJECT: <b>UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>	CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>
TITLE: <b>ROOF FLOOR PLAN SANITARY DRAINAGE LAYOUT</b>	DESIGNED BY: AHMED JANGANHEER
	APPROVED BY:
	DATE : JAN,2024
	DRAWN BY: MATHEW SIMON
	JOB NO.
	SCALE: N.T.S
	DRG. NO. PL-04



**GROUND FLOOR PLAN  
WATER SUPPLY LAYOUT**

ADDITION & REVISION					
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



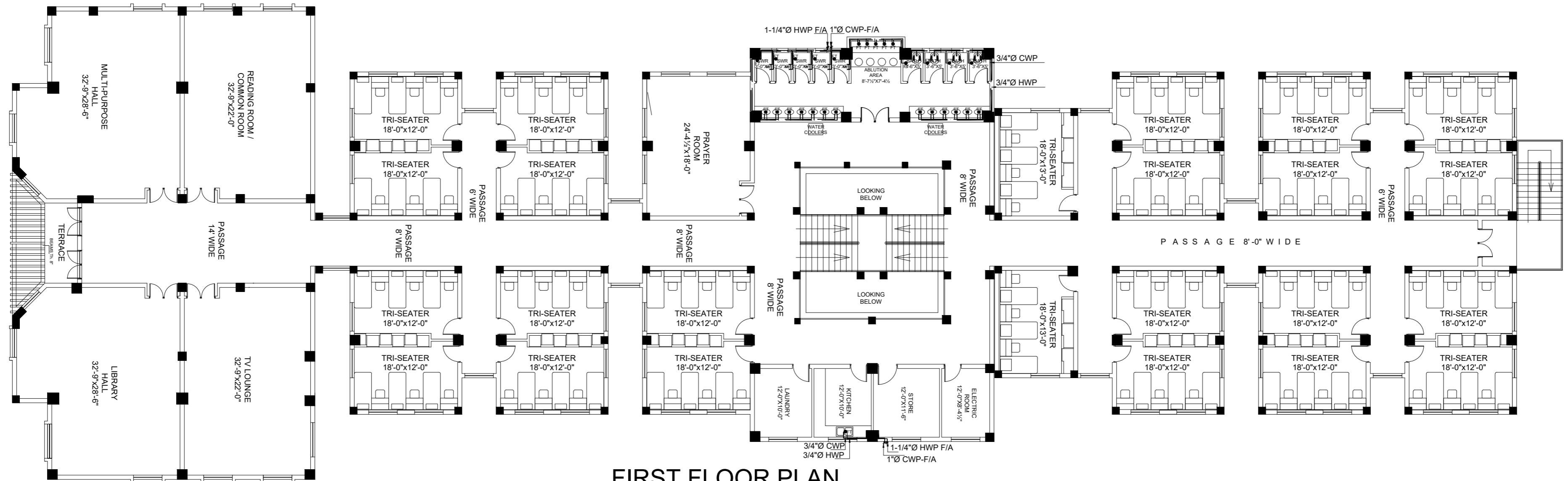
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PROJECT:  
**UPGRADATION AND IMPROVEMENT OF PEOPLE  
 NURSING SCHOOL, LIAQUAT UNIVERSITY OF  
 MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE:  
**GROUND FLOOR PLAN  
 WATER SUPPLY LAYOUT**

CLIENT:  
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH  
 SCIENCE JAMSHORO**

DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE: JAN,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	PL-05	



**FIRST FLOOR PLAN  
WATER SUPPLY LAYOUT**

ADDITION & REVISION					
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



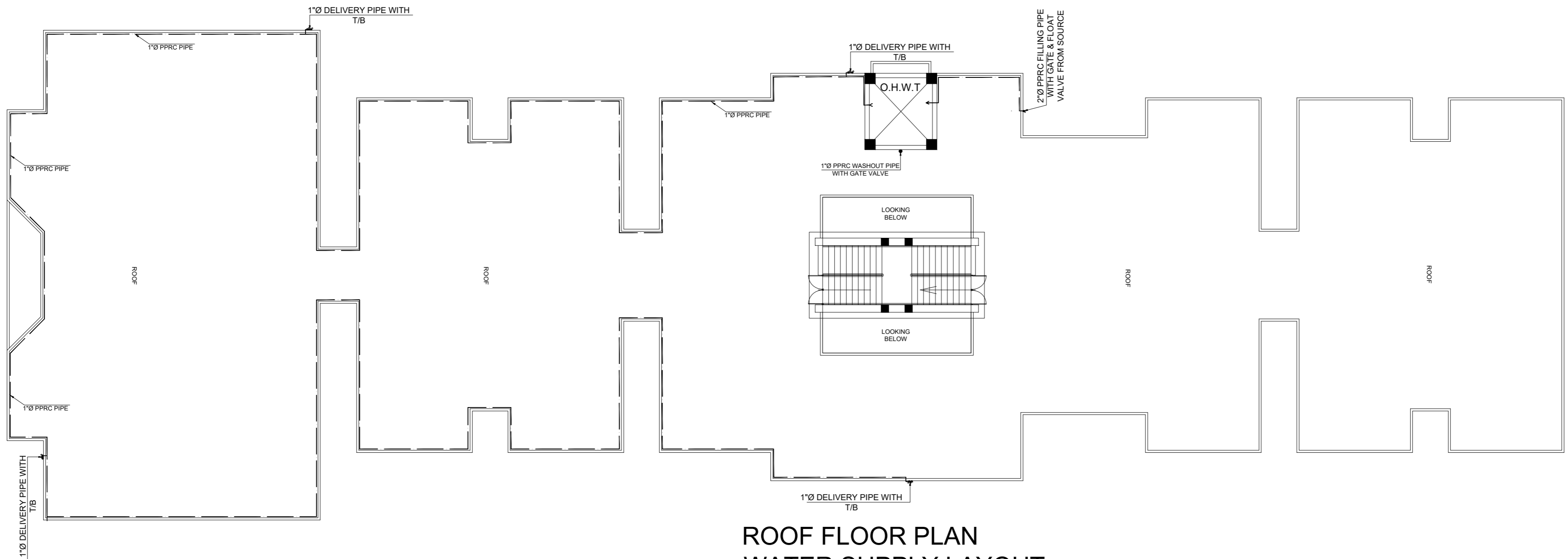
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PROJECT:  
**UPGRADATION AND IMPROVEMENT OF PEOPLE  
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TITLE:  
**FIRST FLOOR PLAN  
 WATER SUPPLY LAYOUT**

CLIENT:  
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH  
 SCIENCE JAMSHORO**

DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE : JAN,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	PL-06	



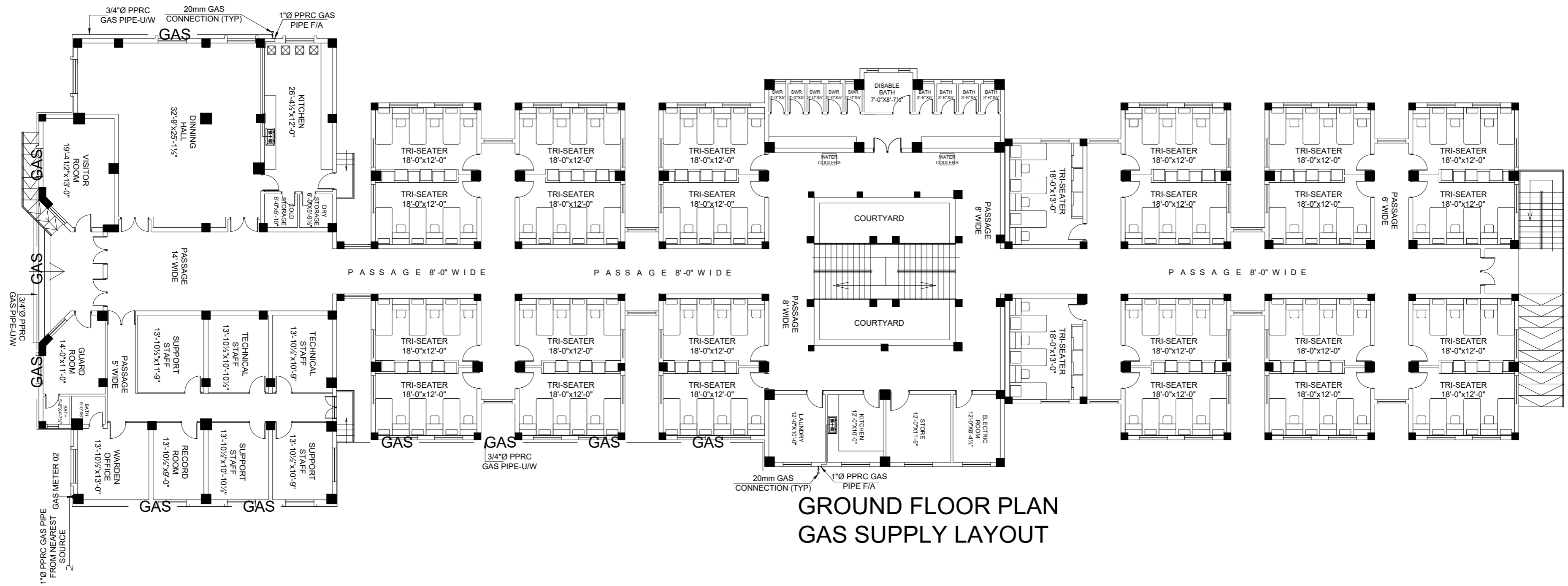
## ROOF FLOOR PLAN WATER SUPPLY LAYOUT

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PROJECT: <b>UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>	CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>
TITLE: <b>ROOF PLAN WATER SUPPLY LAYOUT</b>	DESIGNED BY: AHMED JANGANHEER
	APPROVED BY:
	DATE : JAN,2024
	DRAWN BY: MATHEW SIMON
	JOB NO.
	SCALE: N.T.S
DRG. NO.	PL-07



**GROUND FLOOR PLAN  
GAS SUPPLY LAYOUT**

ADDITION & REVISION					
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY

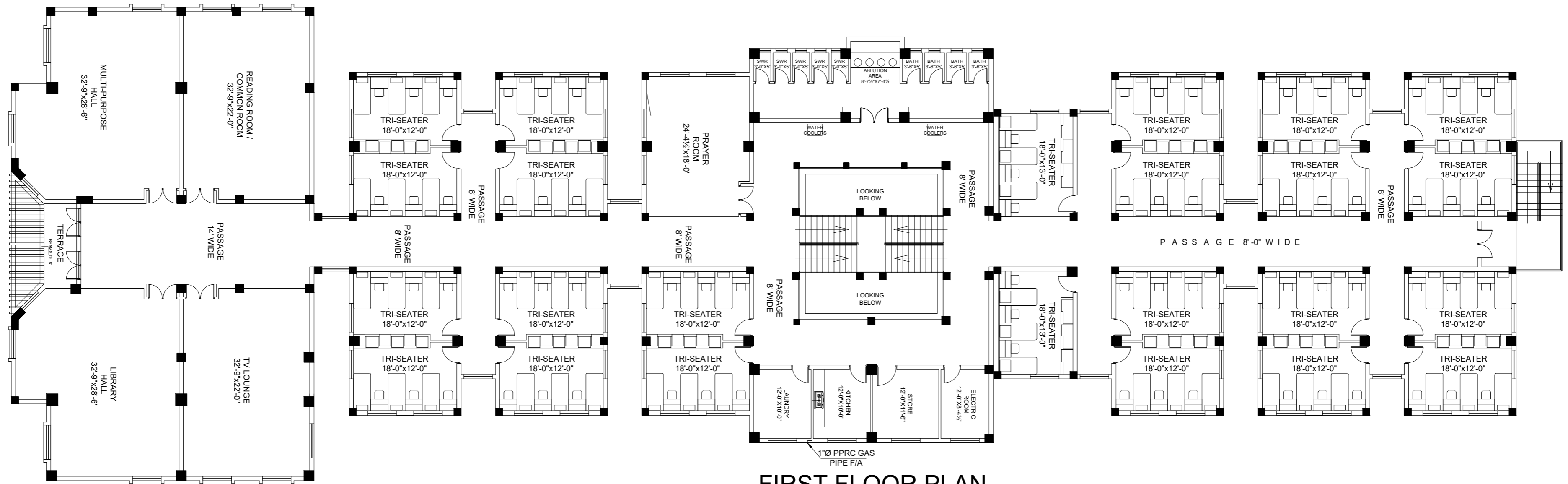


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PROJECT: <b>UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>	CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>
TITLE: <b>GROUND FLOOR PLAN GAS SUPPLY LAYOUT</b>	DESIGNED BY: AHMED JANGANHEER
	APPROVED BY:
	DRAWN BY: MATHEW SIMON
	DRG. NO.

DATE : JAN,2024
SCALE: N.T.S
PL-08





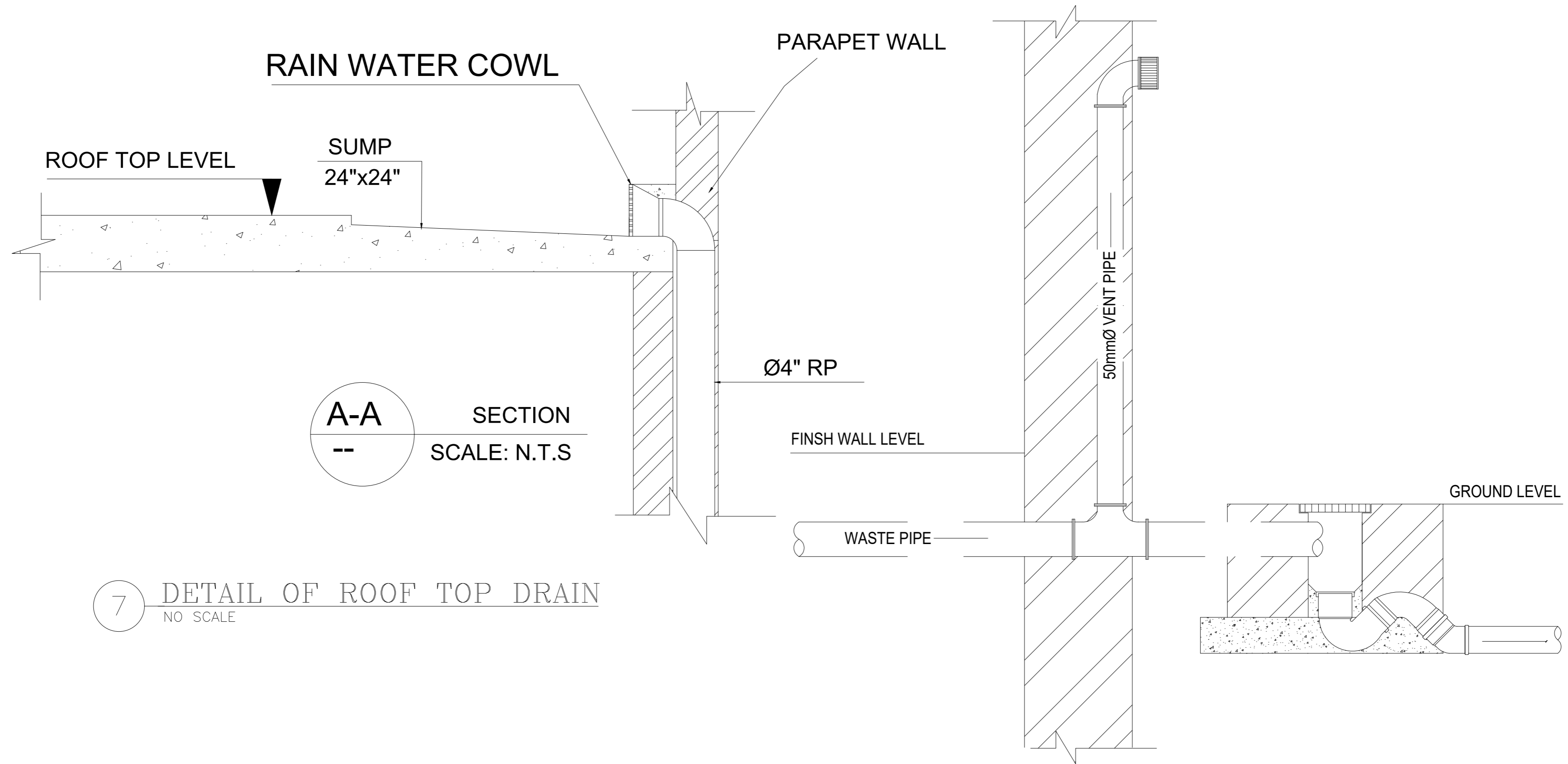
**FIRST FLOOR PLAN  
GAS SUPPLY LAYOUT**

ADDITION & REVISION					
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PROJECT: <b>UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>	CLIENT: <b>LIAQUAT UNIVERSITY OF MEDICAL &amp; HEALTH SCIENCE JAMSHORO</b>
TITLE: <b>FIRST FLOOR PLAN GAS SUPPLY LAYOUT</b>	DESIGNED BY: AHMED JANGANHEER
	APPROVED BY:
	DRAWN BY: MATHEW SIMON
	DATE : JAN, 2024
	SCALE: N.T.S
	DRG. NO. PL-09



7 DETAIL OF ROOF TOP DRAIN  
NO SCALE

DETAIL OF WASTE VENT PIPE  
NO SCALE

ADDITION & REVISION					
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PROJECT:  
**UPGRADATION AND IMPROVEMENT OF PEOPLE  
 NURSING SCHOOL, LIAQUAT UNIVERSITY OF  
 MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE:  
**TYPICAL DETAILS**

CLIENT:  
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH  
 SCIENCE JAMSHORO**

DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE : JAN,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	PL-10	

3" THICK R.C.C COVER  
22" DIA WITH C.I FRAME OF  
20" CLEAR DIA

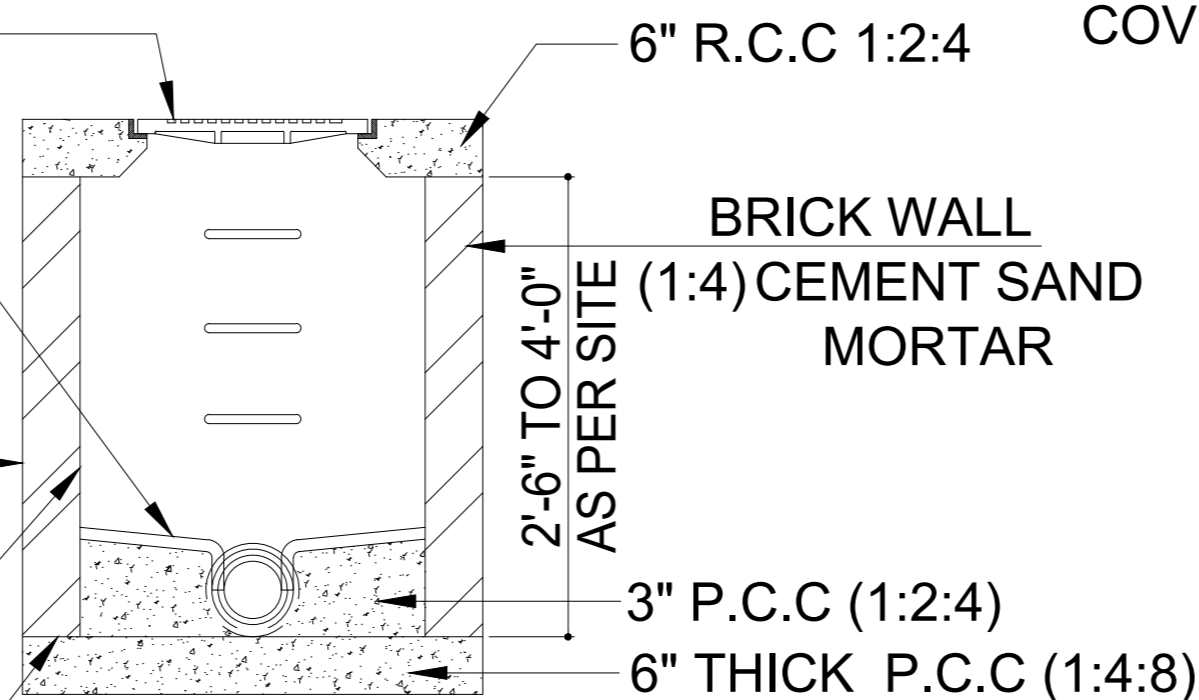
BENCHING FLOATED SMOOTH  
WITH STEEL TROWEL.  
SLOPE ABOUT 1 IN 6 CEMENT  
MORTAR 1:1

CEMENT PLASTER 1:3 +  
BITUMEN COAT 20lb/100 sft

CEMENT PLASTER 1:3

ROUGHENED CLEANED  
AND WETTED BEFORE  
PLACING CONCRETE FOR  
THE WALLS

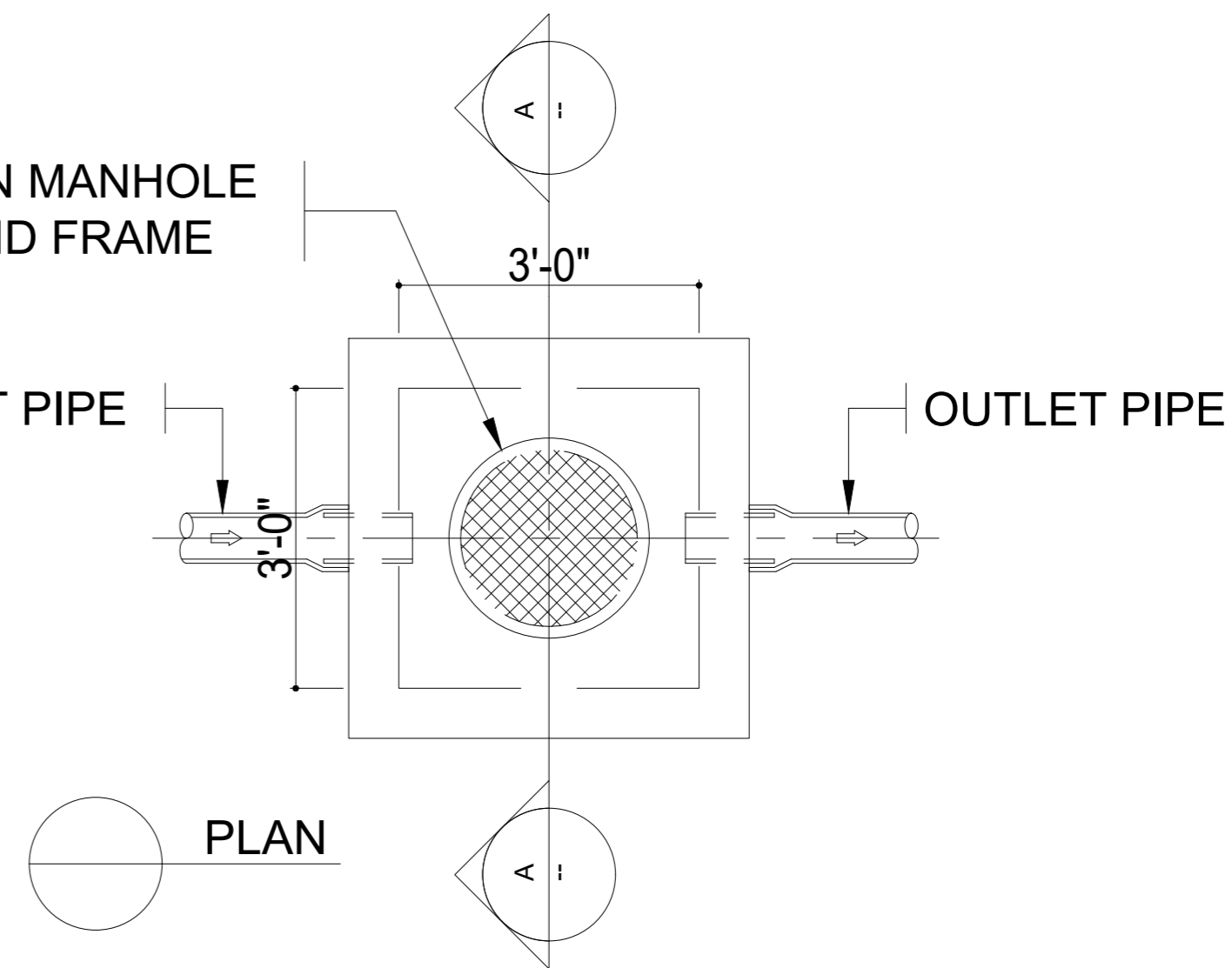
A-A SECTION  
--



CAST IRON MANHOLE  
COVER AND FRAME

INLET PIPE

OUTLET PIPE



PLAN

# MANHOLE DETAIL

ADDITION & REVISION				
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PROJECT:  
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MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE:  
**TYPICAL DETAILS**

CLIENT:  
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH  
SCIENCE JAMSHORO**

DESIGNED BY: AHMED JANGANHEER	APPROVED BY:	DATE : JAN,2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	PL-11	