



LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

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

LUMHS CAFETERIA
TENDER DRAWINGS
MARCH, 2024

DESIGN BY



NEW VISION ENGINEERING CONSULTANT

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ARCHITECTURE DRAWINGS

S.NO.	LIST OF DRAWINGS	LS-00
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2	3D VIEW 01	3D-01
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ADDITION & REVISION				
NO.	DATE	DESCRIPTION	DES. BY	CHK. BY



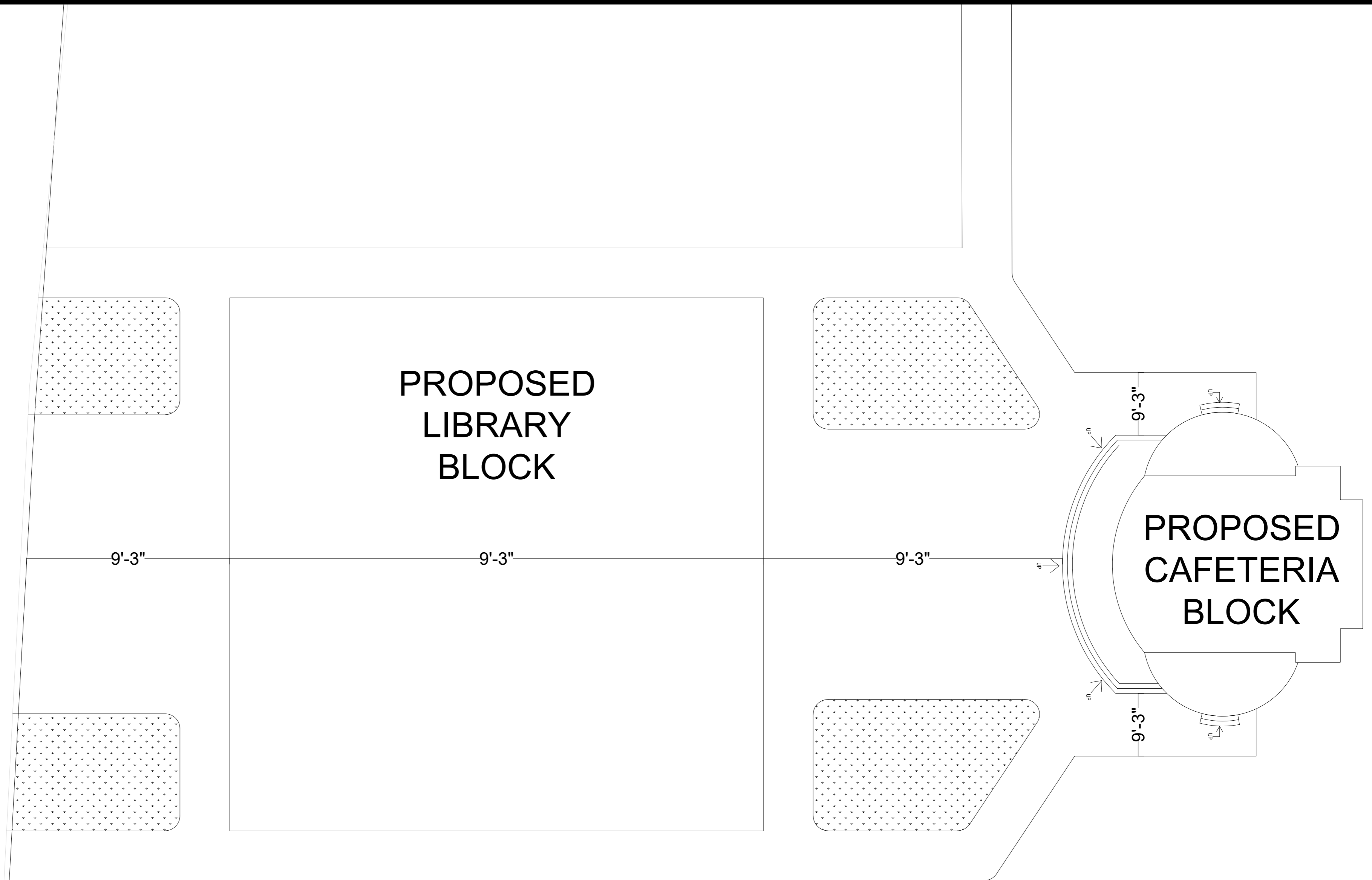
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PROJECT: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE: LUMHS CAFETERIA 3D VIEW	DESIGNED BY: AR.SALMAN APPROVED BY: A.S DATE : MARCH-2024
CAD filename:	DRAWN BY: SAIF JOB NO. SCALE: N.T.S
	DRG. NO. LS-00

MASTER PLAN

EXISTING ROAD



PROPOSED
LIBRARY
BLOCK

PROPOSED
CAFETERIA
BLOCK

9'-3"

9'-3"

9'-3"

9'-3"

9'-3"

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

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: AR.SALMAN
 APPROVED BY: A.S
 DATE : MARCH-2024
 DRAWN BY: SAIF
 JOB NO.
 SCALE: N.T.S
 DRG. NO. MP-01

3D VIEW



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TITLE: LUMHS CAFETERIA 3D VIEW		DESIGNED BY: AR.SALMAN	APPROVED BY: A.S
CAD filename:		DRAWN BY: SAIF	DATE : MARCH-2024
		JOB NO.	SCALE: N.T.S
		DRG. NO.	3D-01



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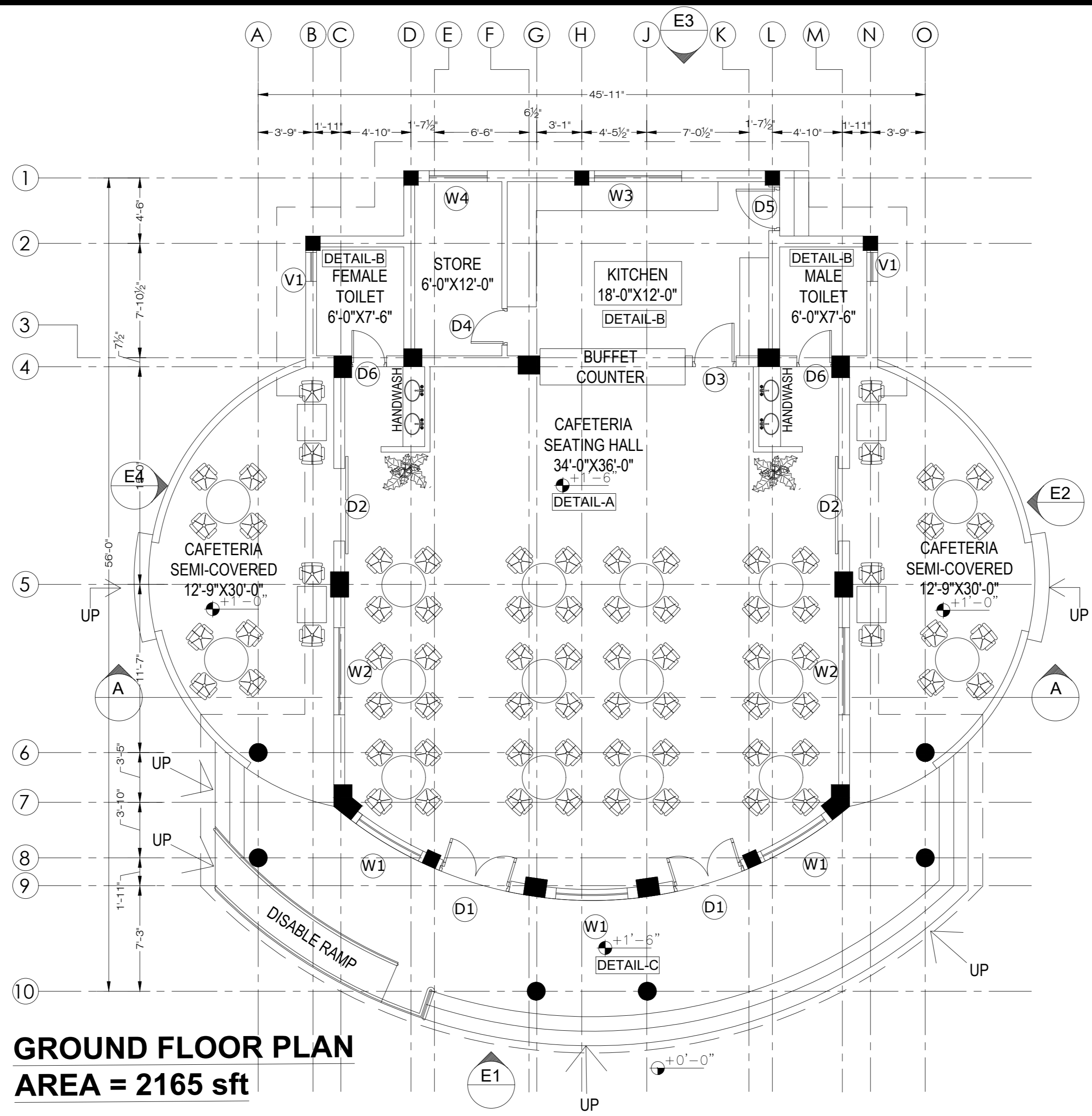
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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE:	LUMHS CAFETERIA 3D VIEW
CAD filename:	

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

ARCHITECTURE DRAWINGS



GROUND FLOOR PLAN
AREA = 2165 sft

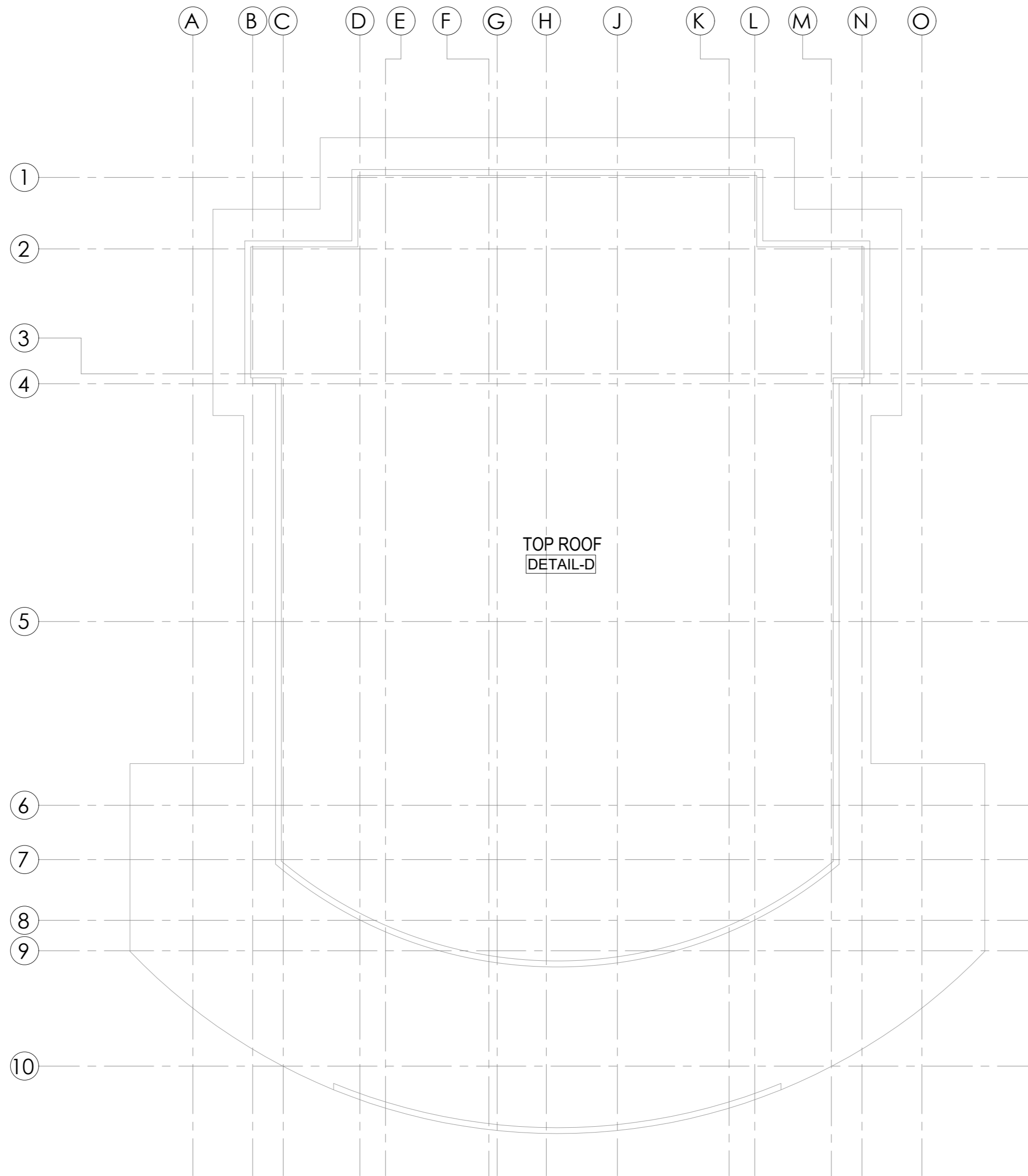
ADDITION & REVISION			
NO.	DATE	DESCRIPTION	BY



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

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: AR.SALMAN
 APPROVED BY: A.S
 DATE: MARCH-2024
 DRAWN BY: SAIF
 JOB NO.:
 SCALE: N.T.S
 DRG. NO.:
 AR-01



TOP ROOF PLAN

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

TITLE: LUMHS CAFETERIA
TOP ROOF PLAN

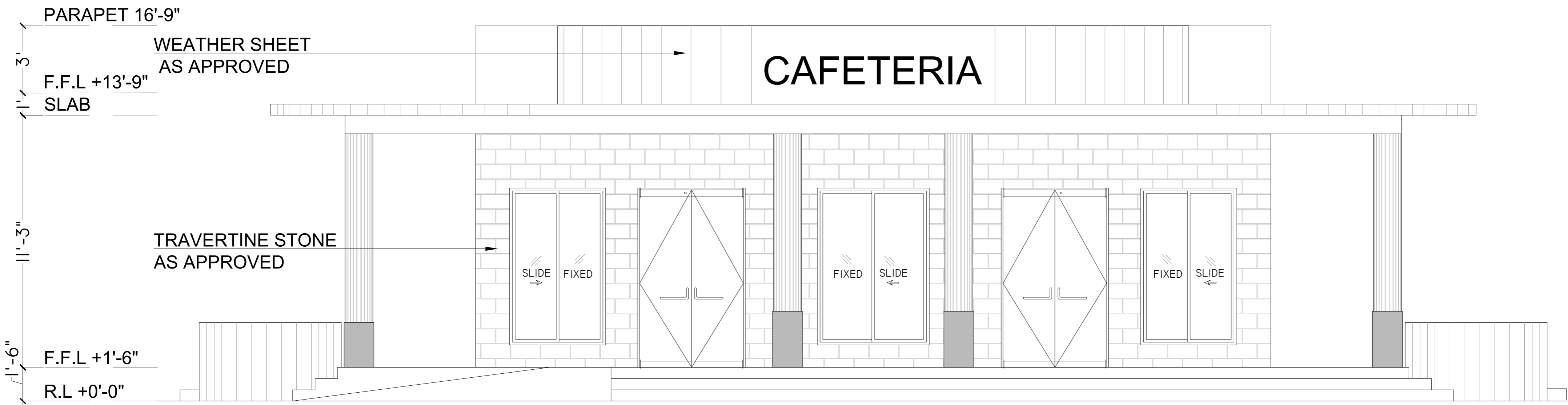
CAD filename:

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE
JAMSHORO

DESIGNED BY: AR.SALMAN APPROVED BY: A.S DATE : MARCH-2024

DRAWN BY: SAIF JOB NO. SCALE: N.T.S

DRG. NO. AR-02



E1 ELEVATION E1

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

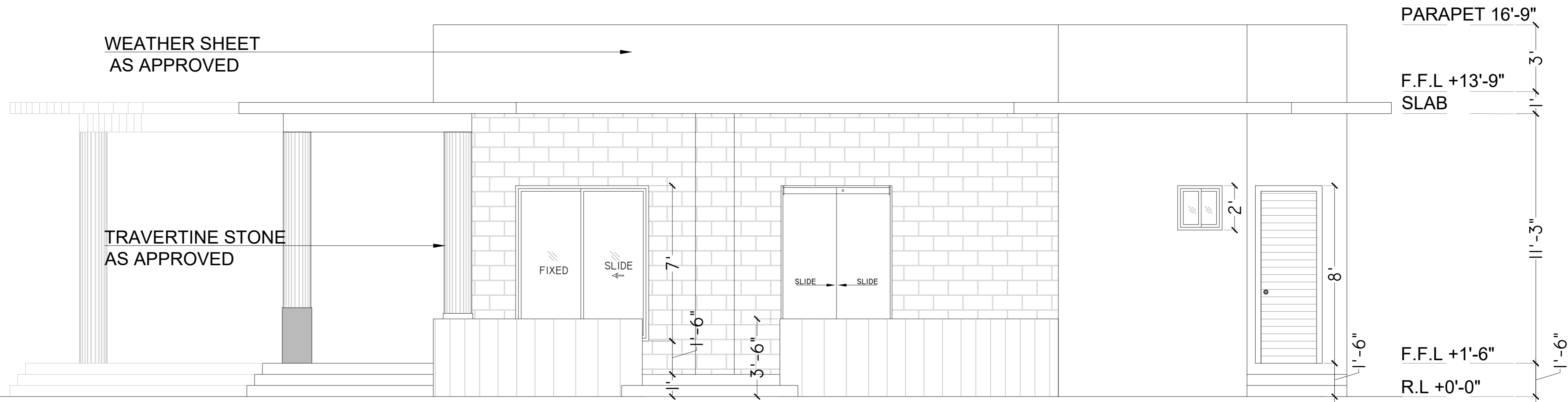


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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE:	LUMHS CAFETERIA ELEVATION E1
CAD filename:	

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE :
AR.SALMAN	A.S	MARCH-2024
DRAWN BY:	JOB NO.	SCALE:
SAIF		N.T.S
DRG. NO.	AR-03	




E2 ELEVATION E2

ADDITION & REVISION				
NO.	REV.	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:	LUMHS CAFETERIA ELEVATION E2
CAD filename:	

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE : MARCH-2024
DRAWN BY: SAIF	JOB NO.	SCALE: N.T.S
DRG. NO.	AR-04	



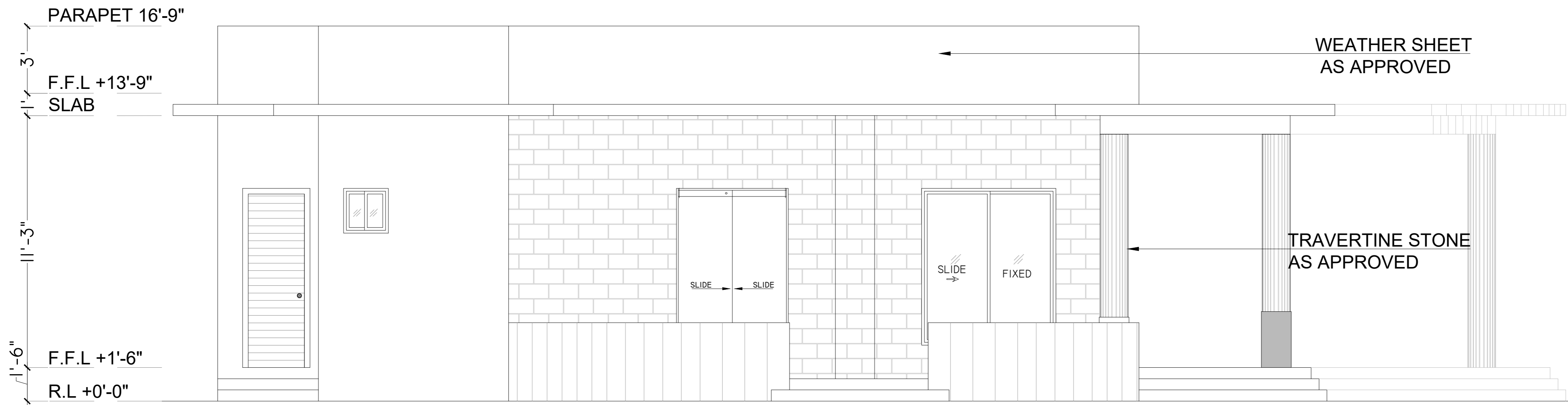
E3 ELEVATION E3

ADDITION & REVISION				
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	CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE: LUMHS CAFETERIA ELEVATION E3	DESIGNED BY: AR.SALMAN	APPROVED BY: A.S
CAD filename:	DRAWN BY: SAIF	DATE : MARCH-2024
	JOB NO.	SCALE: N.T.S
	DRG. NO.	AR-05




E4 ELEVATION E4

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

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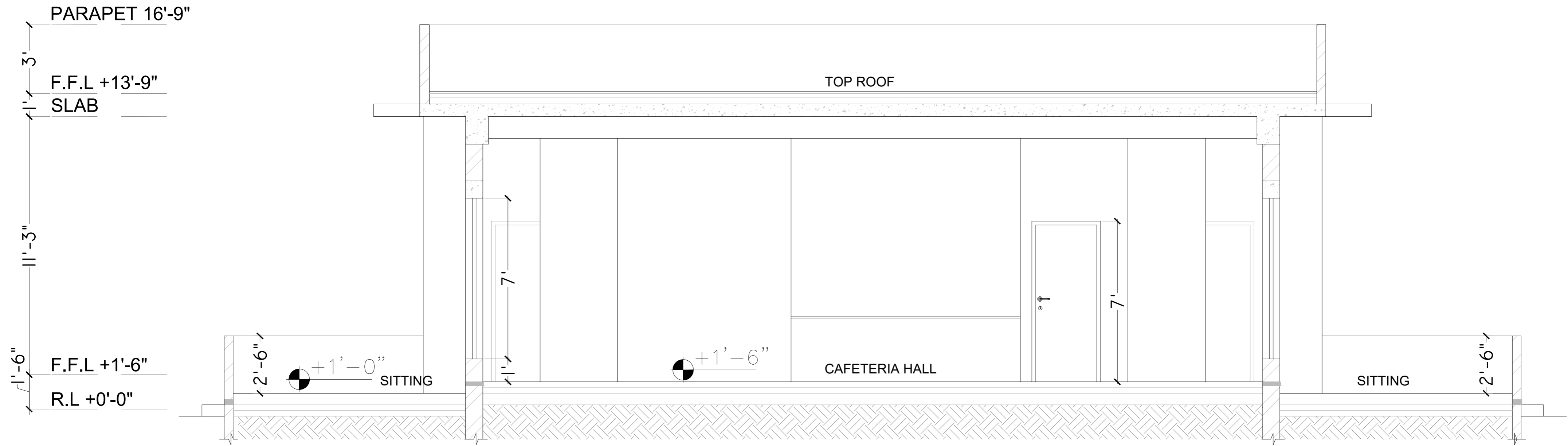
Head Office: Office No B-6 Second Floor Masood Arcade
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Regional Office: 287-A Street # 6, Cavalry Ground ,Lahore
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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE:	LUMHS CAFETERIA ELEVATION E4
CAD filename:	

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY:	APPROVED BY:	DATE :	MARCH-2024
AR.SALMAN	A.S		
DRAWN BY:	JOB NO.	SCALE:	N.T.S
SAIF			
DRG. NO.	AR-06		




A SECTION AT A-A

ADDITION & REVISION				
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 CAFETERIA SECTION AT A-A
CAD filename:	

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE :
AR.SALMAN	A.S	MARCH-2024
DRAWN BY:	JOB NO.	SCALE:
SAIF		N.T.S
DRG. NO.	AR-07	

SCHEDULE OF OPENINGS

DOOR SCHEDULE

S.NO.	OPENINGS	DIMENSIONS	SILL LEVEL	DESCRIPTION
1	D1	5'-0"x8'-0"	0'-0"	SOLID FLUSH DOOR
2	D2	5'-0"X8'-0"	0'-0"	SOLID FLUSH DOOR
3	D3	3'-0"X7'-0"	0'-0"	SOLID FLUSH DOOR
4	D4	2'-6"X7'-0"	0'-0"	SOLID FLUSH DOOR
5	D5	3'-0"X8'-0"	0'-0"	STEEL DOOR
6	D6	2'-5"X7'-0"	0'-0"	UPVC DOOR

WINDOW SCHEDULE

5	W1	5'-0"X7'-0"	+1'-0"	ALUMINUM WINDOW
6	W2	6'-0"X7'-0"	+1'-0"	ALUMINUM WINDOW
7	W3	6'-0"X4'-6"	+3'-6"	ALUMINUM WINDOW
8	W4	4'-0"X4'-6"	+3'-6"	ALUMINUM WINDOW
9	V1	2'-0"X2'-0"	+6'-0"	ALUMINUM WINDOW

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

TITLE: LUMHS CAFETERIA
SCHEDULE OF OPENINGS

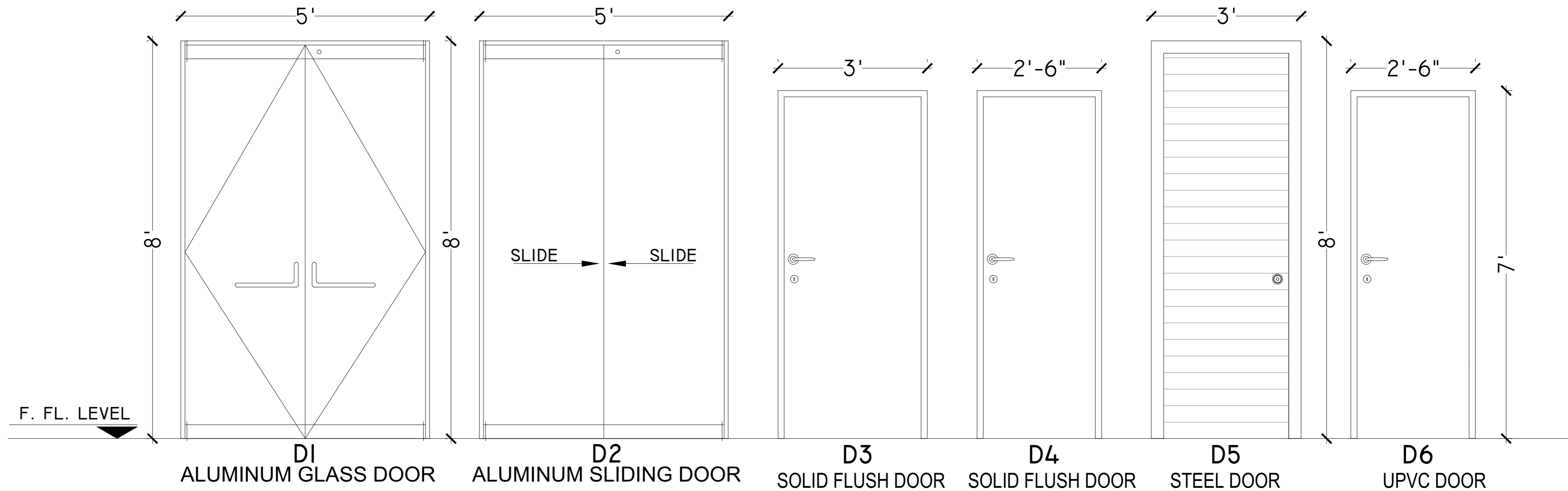
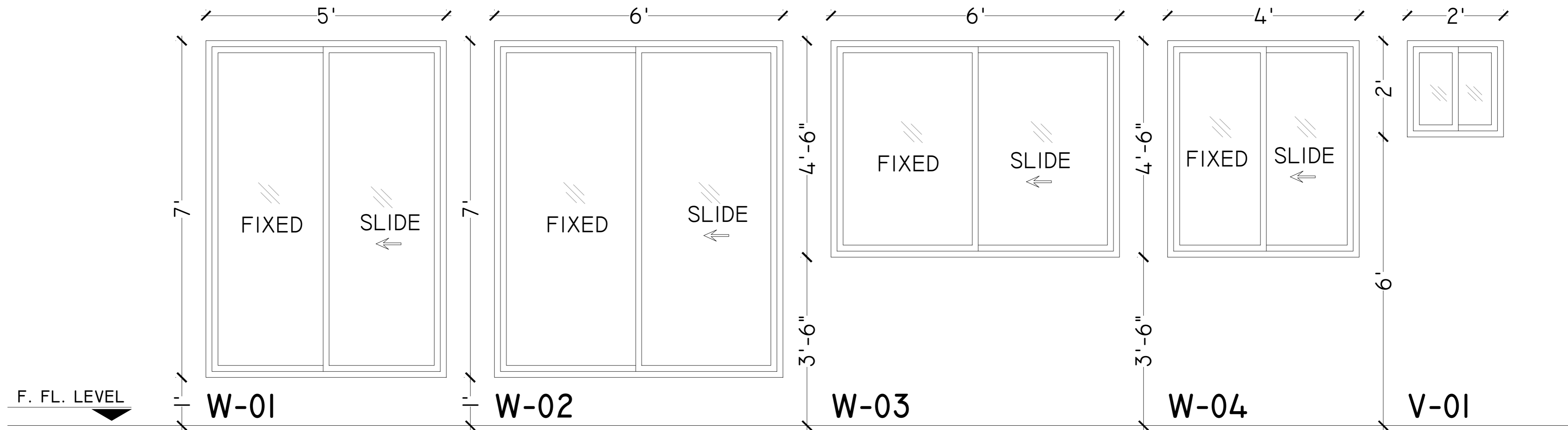
CAD filename:

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE
JAMSHORO

DESIGNED BY: AR.SALMAN APPROVED BY: A.S DATE : MARCH-2024

DRAWN BY: SAIF JOB NO. SCALE: N.T.S

DRG. NO. AR-08




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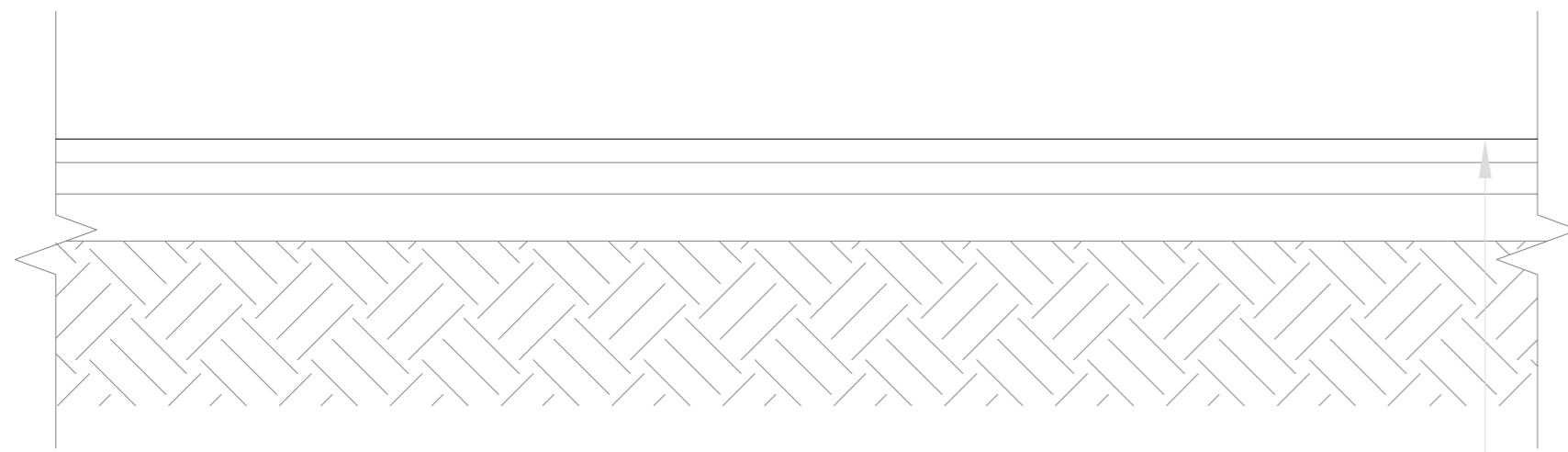
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **LUMHS CAFETERIA DOOR & WINDOWS ELEVATION**

CAD filename:

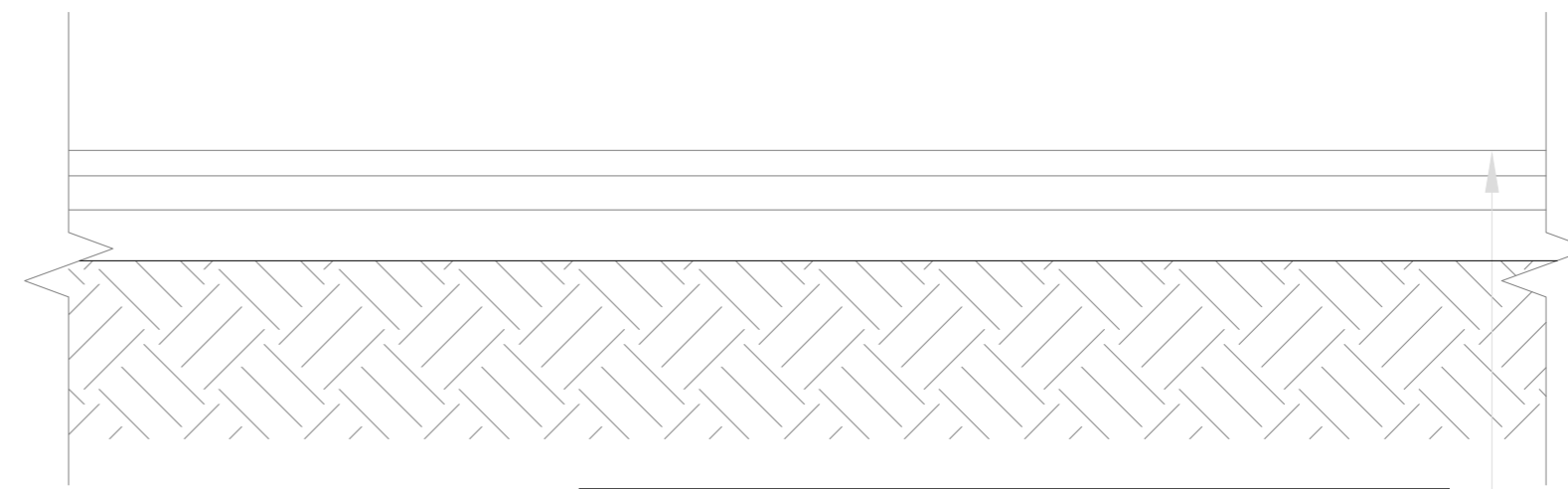
CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

DESIGNED BY: AR.SALMAN	APPROVED BY: A.S	DATE : MARCH-2024
DRAWN BY: SAIF	JOB NO.	SCALE: N.T.S
DRG. NO.	AR-09	



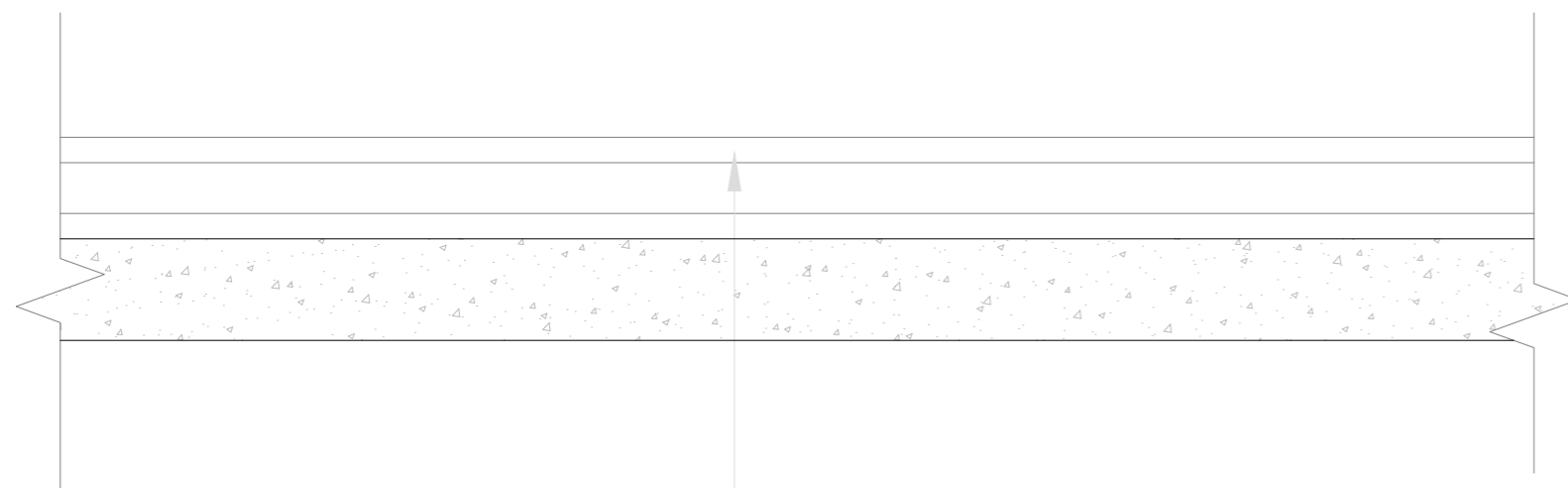
**DETAIL - A
FLOOR+ROOMS**

LAYING MOSAIC TOPING .5" THICK
 1" THICK TOPING CEMENT CONCRETE -
 - (1:2:4) INCLUDING SURFACE FINISHING
 DIVIDING INTO PANEL
 2" P.C.C 1:2:4
 4" THICK SAND FILLING WELL COMPECTED
 4" THICK BRICK BLAST
 COMPACTED EARTH UP TO 95%
 COMPACTION AS PER
 MODIFIED PROCTOR AASHTO



**DETAIL - B
BATH & KIT.**

12"x26"x3/8" CERAMIC TILE
 3" P.C.C 1:2:4
 4" THICK SAND FILLING WELL COMPECTED
 4" THICK BRICK BLAST
 COMPACTED EARTH UP TO 95%
 COMPACTION AS PER
 MODIFIED PROCTOR AASHTO



**DETAIL - C
ENT. PODIUM**

SIZE AS PER STEPS GRANITE MARBLE
 3/4" CEMENT SAND MORTAR(1:2)
 BRICK WORK



**DETAIL - D
ROOF**

9"x4 1/2"x1.5" THICK TILE FLOORING GROUTED
 WITH CEMENT SAND MORTAR (1:3)
 1" MUD PLASTER WITHOUT BHOSA
 ONE LAYER OF POLYTHENE SHEET .13mm SWG
 4" EARTH FILLING PUDLED
 TOW LAYER OF POLYTHENE SHEET 300 SWG
 2 COAT OF BITUMEN 34 lbs. per 100 Sq.ft.(1.65 Kg/Sq.m) sand blended
 6" R.C.C SLAB

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 TITLE: LUMHS CAFETERIA
 FINISH FLOOR DETAIL
 CAD filename:

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE
 JAMSHORO
 DESIGNED BY: AR.SALMAN
 APPROVED BY: A.S
 DATE : MARCH-2024
 DRAWN BY: SAIF
 JOB NO.
 SCALE: N.T.S
 DRG. NO.
 AR-10

**STRUCTURE
CAFETERIA**

LIST OF DRAWINGS

S.NO.	DRAWING TITLE	DRG. NO
STRUCTURE DRAWINGS		
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 MASONRY FOUNDATION LAYOUT	ST-10
11	BRICK MASONRY SECTION	ST-11
12	COLUMN LAYOUT PLAN	ST-12
13	COLUMN SECTION	ST-13
14	PLINTH BEAM LAYOUT PLAN	ST-14
15	PLINTH BEAM SECTION	ST-15
16	GROUND FLOOR BEAM LAYOUT PLAN	ST-16
17	GROUND FLOOR BEAM SECTION	ST-17
18	GROUND FLOOR SLAB LAYOUT POSITIVE REINF. PLAN	ST-18
19	GROUND FLOOR SLAB LAYOUT NEGATIVE REINF. PLAN	ST-19
20	ROOF PLAN	ST-20
21	OHWT DETAIL	ST-21

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



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TITLE: LIST OF DRAWING	DESIGNED BY: ENG.ZAIN ARSHAD
	APPROVED BY: DATE: MARCH, 2024
	DRAWN BY: MATHEW SIMON
	JOB NO. SCALE: N.T.S
	DRG. NO. ST-01

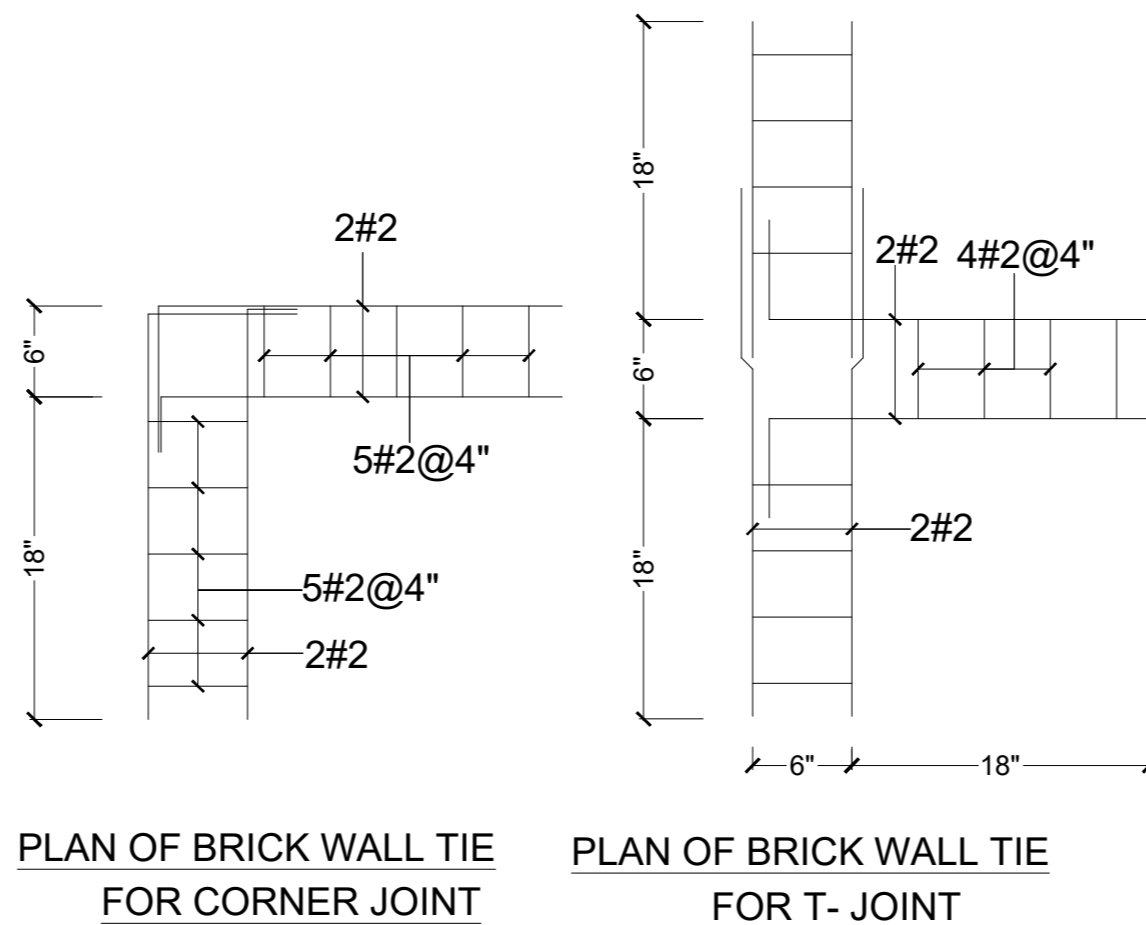
GENERAL TECHNICAL NOTES

- 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

- 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)

- 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
 - 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)
 - 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 & course) 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.

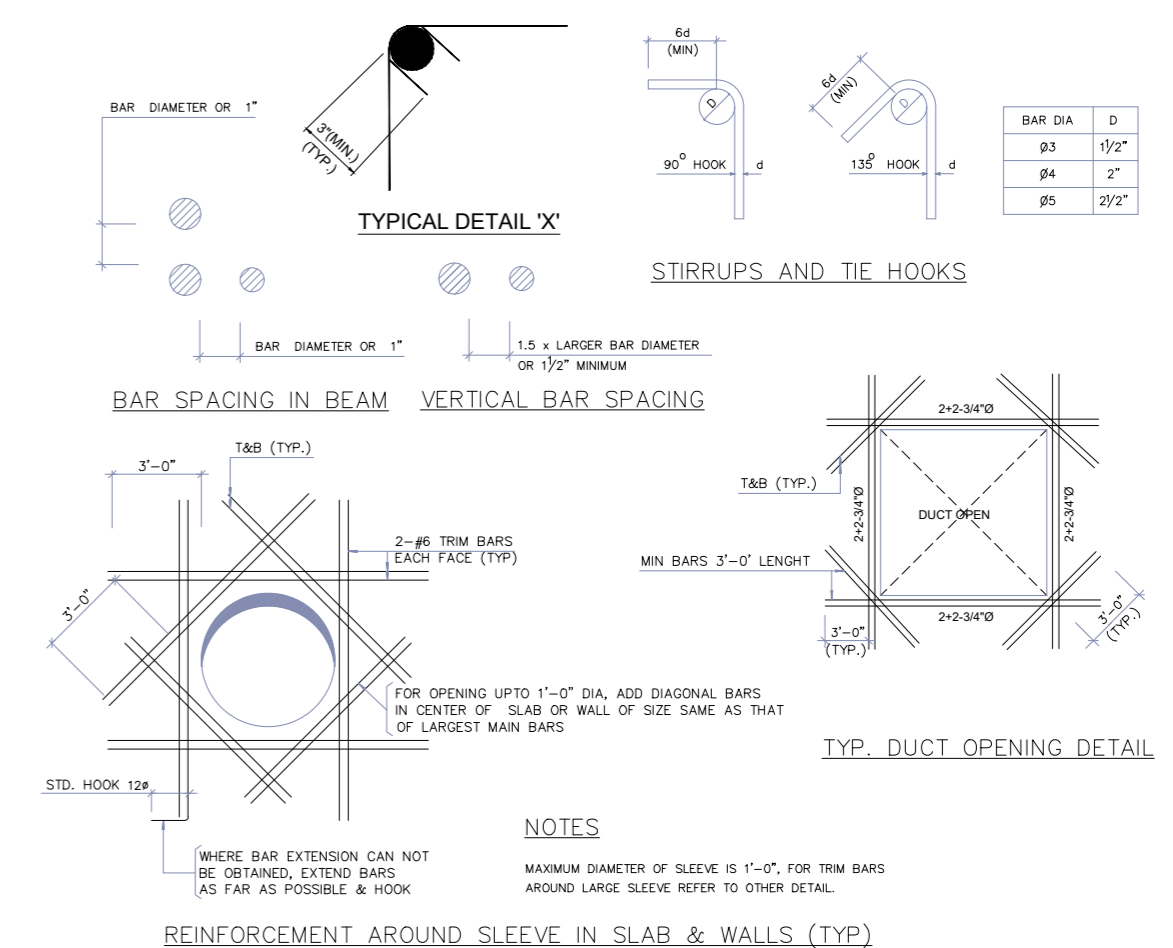


REINFORCING STEEL

REINFORCING STEEL $f_y = 60,000$ psi			
BAR NO.	BAR DIA (IN.)	DEVELOPMENT LENGTH (INCH) IN TENSION	
		$f_c = 3000$ psi	$f_c = 4000$ psi
#3	0.375	17"	15"
#4	0.500	22"	19"
#5	0.625	29"	24"
#6	0.750	33"	29"
#7	0.875	48"	42"
#8	1.000	55"	48"

REINFORCING STEEL $f_y = 40,000$ psi			
BAR NO.	BAR DIA (IN.)	DEVELOPMENT LENGTH (INCH) IN TENSION	
		$f_c = 3000$ psi	$f_c = 4000$ psi
#3	0.375	9"	8"
#4	0.500	11"	10"
#5	0.625	14"	12"
#6	0.750	17"	15"
#7	0.875	29"	17"
#8	1.000	22"	19"

REINFORCING STEEL $f_y = 60,000$ psi			
BAR NO.	BAR DIA (IN.)	DEVELOPMENT LENGTH (INCH) IN TENSION	
		$f_c = 3000$ psi	$f_c = 4000$ psi
#3	0.375	12"	12"
#4	0.500	15"	13"
#5	0.625	19"	15"
#6	0.750	23"	20"
#7	0.875	33"	28"
#8	1.000	37"	32"

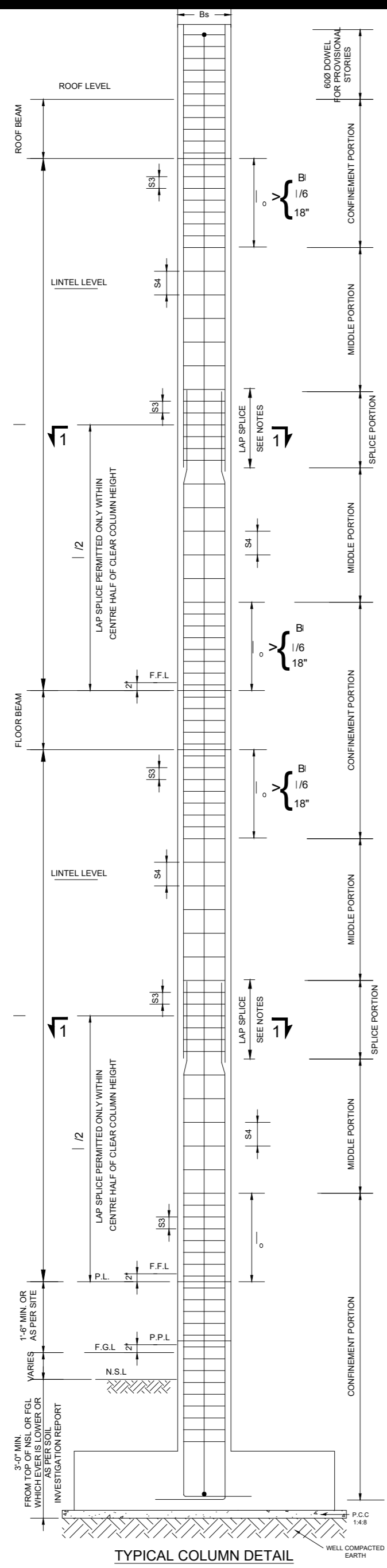


ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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PROJECT: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE: GENERAL NOTES	DESIGNED BY: ENG.ZAIN ARSHAD
	APPROVED BY:
	DATE: MARCH, 2024
	DRAWN BY: MATHEW SIMON
	JOB NO.
	SCALE: N.T.S
	DRG. NO. ST-02

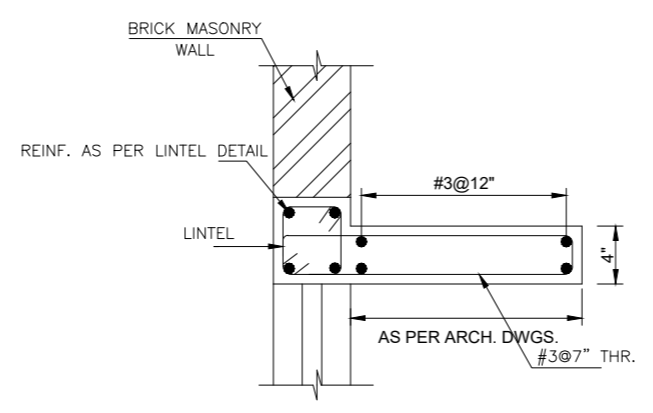


TYPICAL COLUMN DETAIL

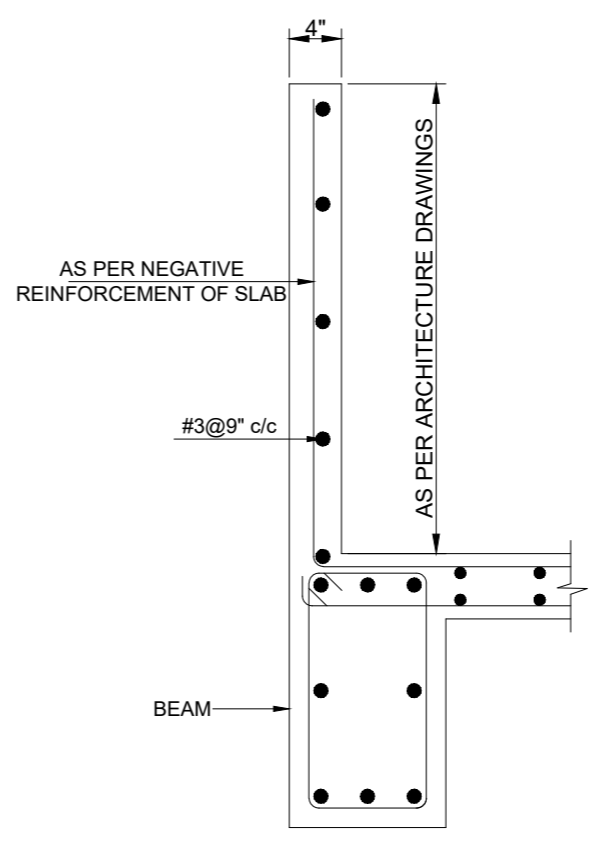
LEGENDS

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 _o	LENGTH OF CONFINEMENT PORTION
l _d	DEVELOPMENT LENGTH FOR STEEL BAR
d	EFFECTIVE DEPTH OF BEAM

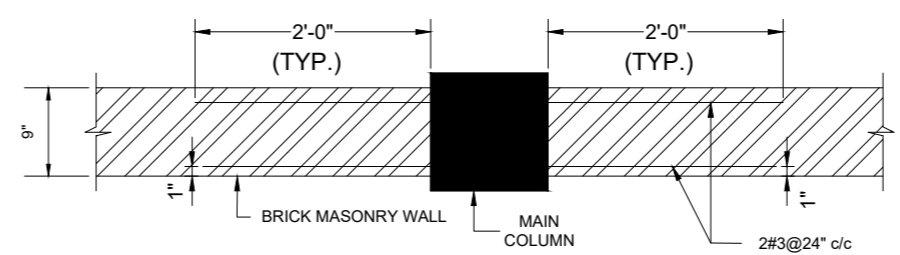
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



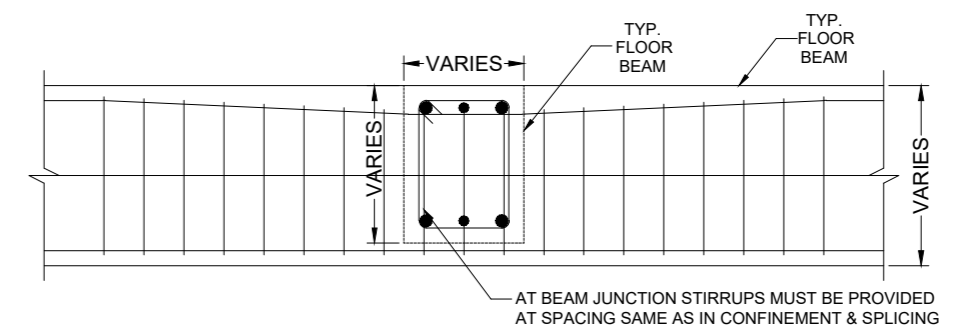
TYP. SECTION OF WINDOW SHADE
FOR LEVEL DETAILS REFER ARCHITECTURAL DRAWINGS



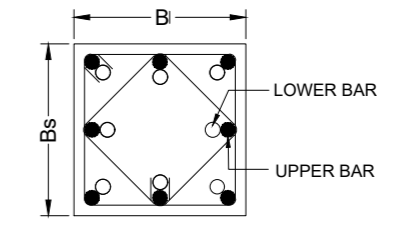
TYP. SECTION OF PARAPET WALL



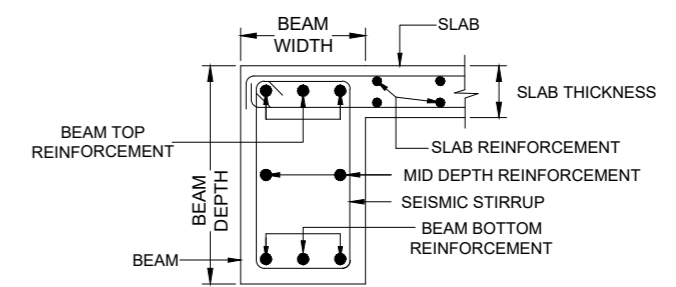
TYP. WALL & MAIN COLUMN JOINT DETAIL
SECTION 2-2



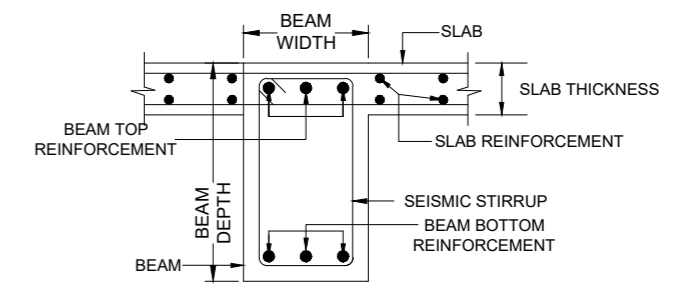
TYP. BEAM-BEAM JOINT DETAIL



SECTION 1-1



TYP. SECTION OF EXTERNAL BEAM (L-SHAPED)



TYP. SECTION OF INTERNAL BEAM (T-SHAPED)

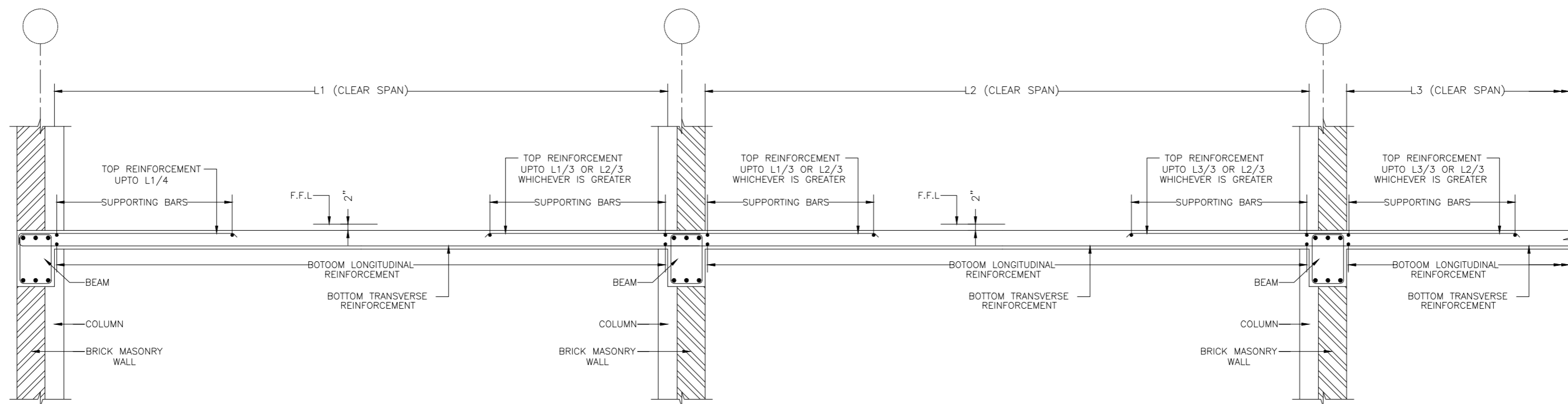


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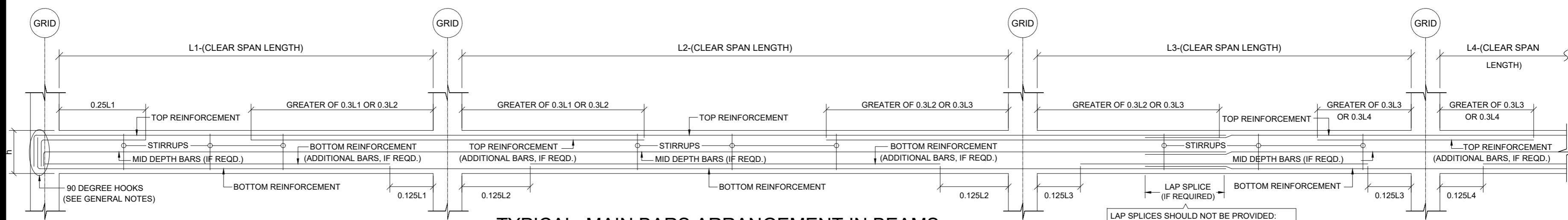
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **TYPICAL DETAIL**

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

DESIGNED BY: ENG.ZAIN ARSHAD	APPROVED BY:	DATE: MARCH,2024
DRAWN BY: MATHEW	JOB NO.:	SCALE: N.T.S
DRG. NO.:	ST-03	

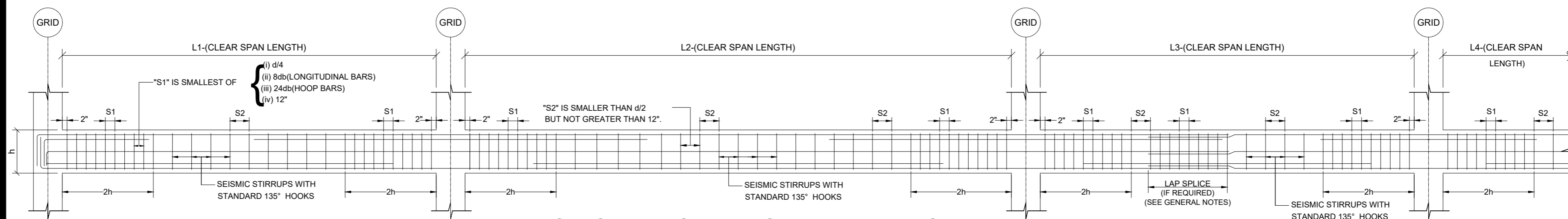


TYPICAL SECTION OF SLAB
REINFORCEMENT CURTAILMENT DETAIL



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

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



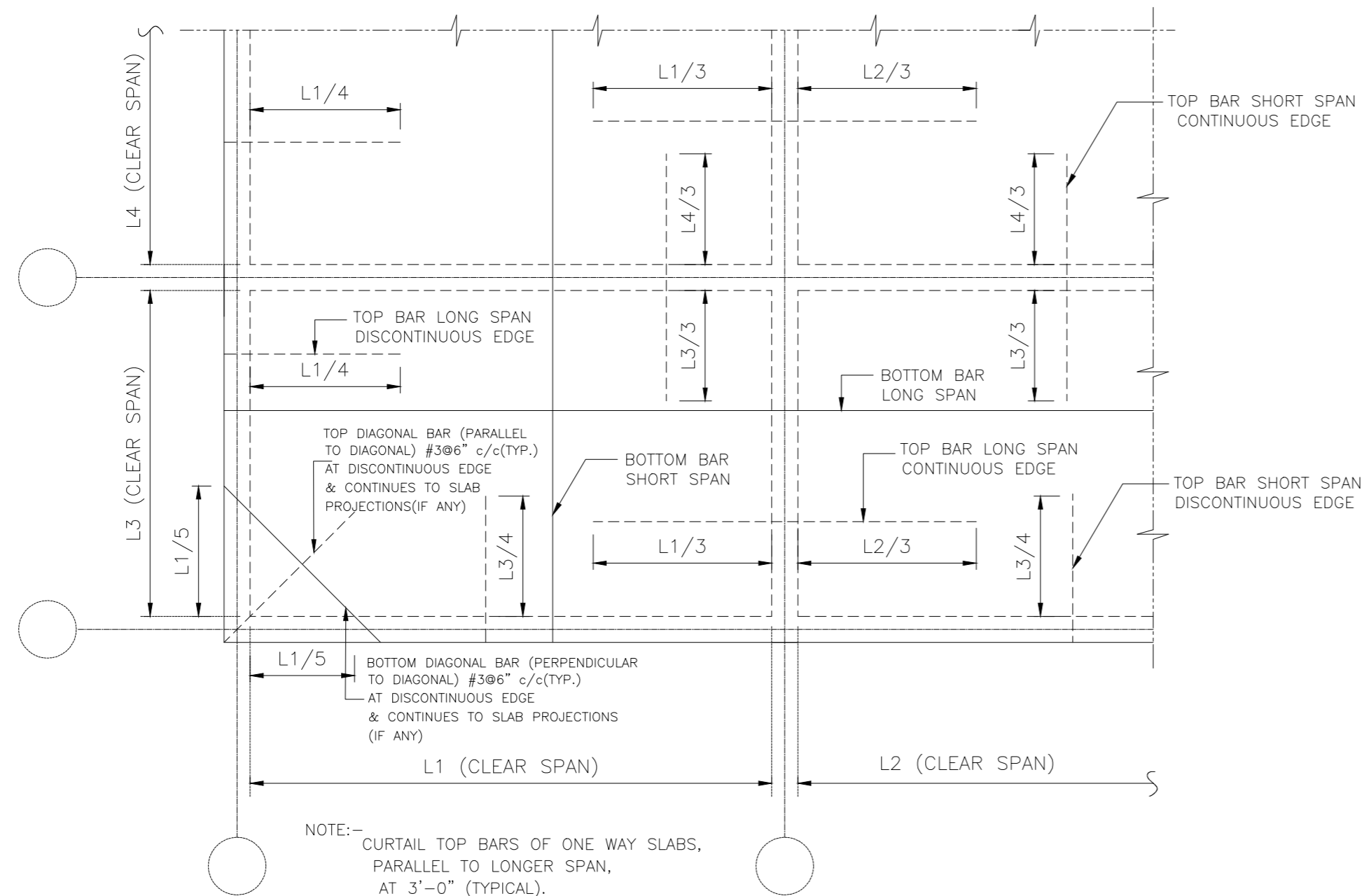
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PROJECT: **UPGRADATION AND IMPROVEMENT OF
PEOPLE NURSING SCHOOL, LIAQUAT
UNIVERSITY OF MEDICAL & HEALTH SCIENCE
JAMSHORO**

TITLE: **TYPICAL DETAIL**

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

DESIGNED BY: ENG.ZAIN ARSHAD	APPROVED BY:	DATE: MARCH, 2024
DRAWN BY: MATHEW	JOB NO.:	SCALE: N.T.S
DRG. NO.:	ST-04	



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"	

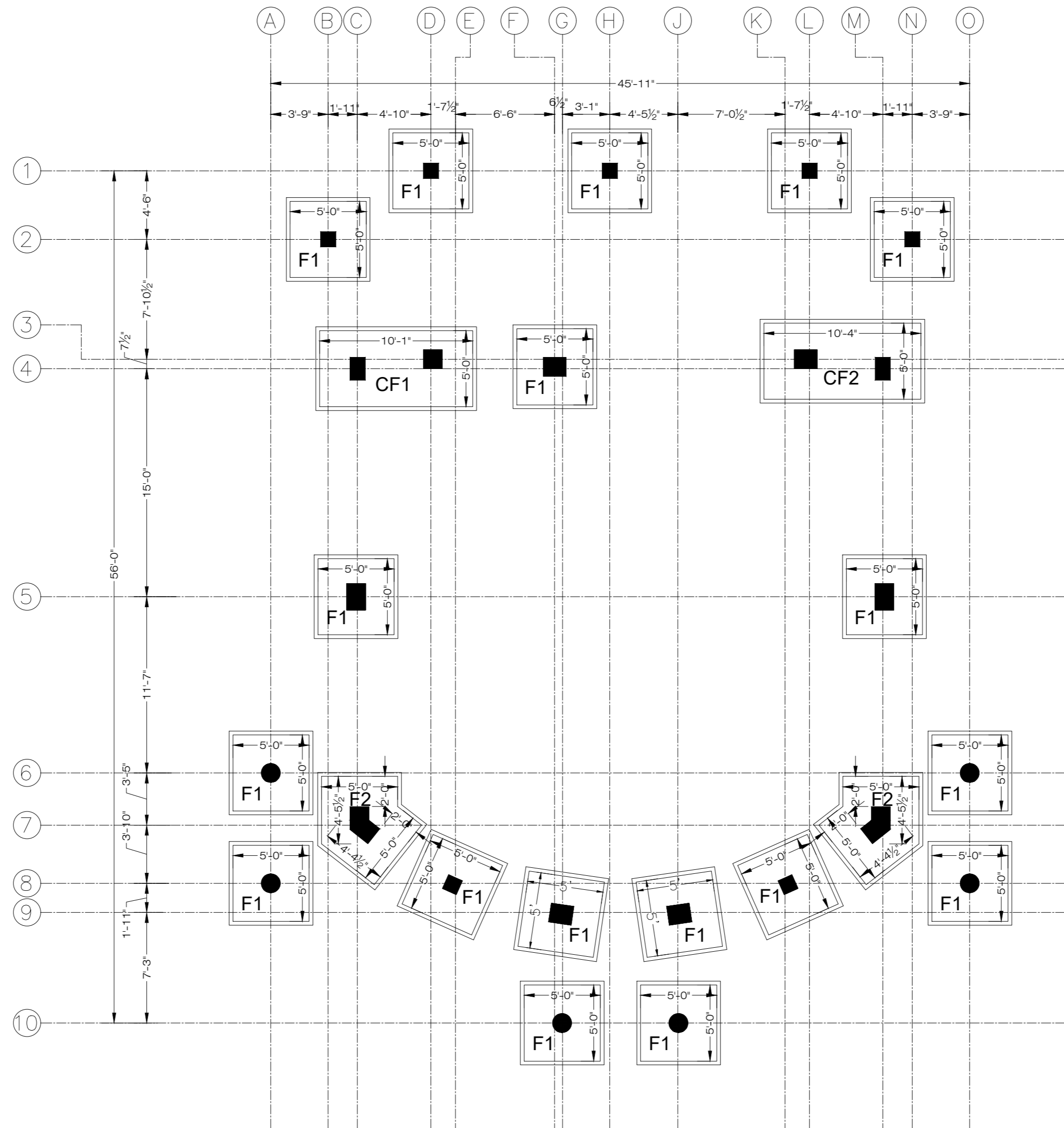
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **TYPICAL DETAIL**

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



FOUNDATION LAYOUT PLAN
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

ADDITION & REVISION					
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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	FOUNDATION LAYOUT PLAN	

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE:
ENG ZAIN ARSHAD		MARCH, 2024
DRAWN BY:	JOB NO.	SCALE:
MATHEW SIMON		N.T.S
DRG. NO.	ST-06	

SCHEDULE OF FOOTINGS

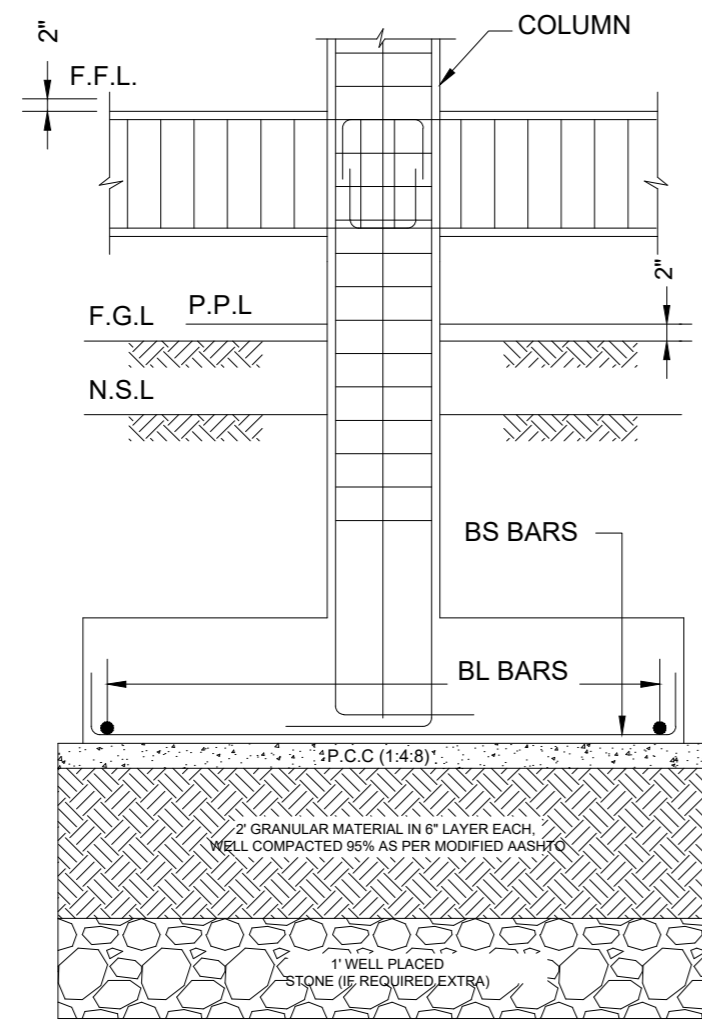
MARK	SIZE			REINFORCEMENT DETAIL				REMARKS
	L	W	H1	BOTTOM BARS		TOP BARS		
				BS	BL	TS	TL	
F1	5'-0"	5'-0"	9"	#4@8" c/c	#4@8" c/c			ISOLATED FOOTING
F2	AS PER PLAN		12"	#4@7" c/c	#4@7" c/c			ISOLATED FOOTING
CF1	10'-1"	5'-0"	15"	#4@6" c/c	#4@6" c/c	#3@8" c/c	#3@8" c/c	COMBINED FOOTING
CF2	10'-4"	5'-0"	15"	#4@6" c/c	#4@6" c/c	#3@8" c/c	#3@8" c/c	COMBINED FOOTING

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

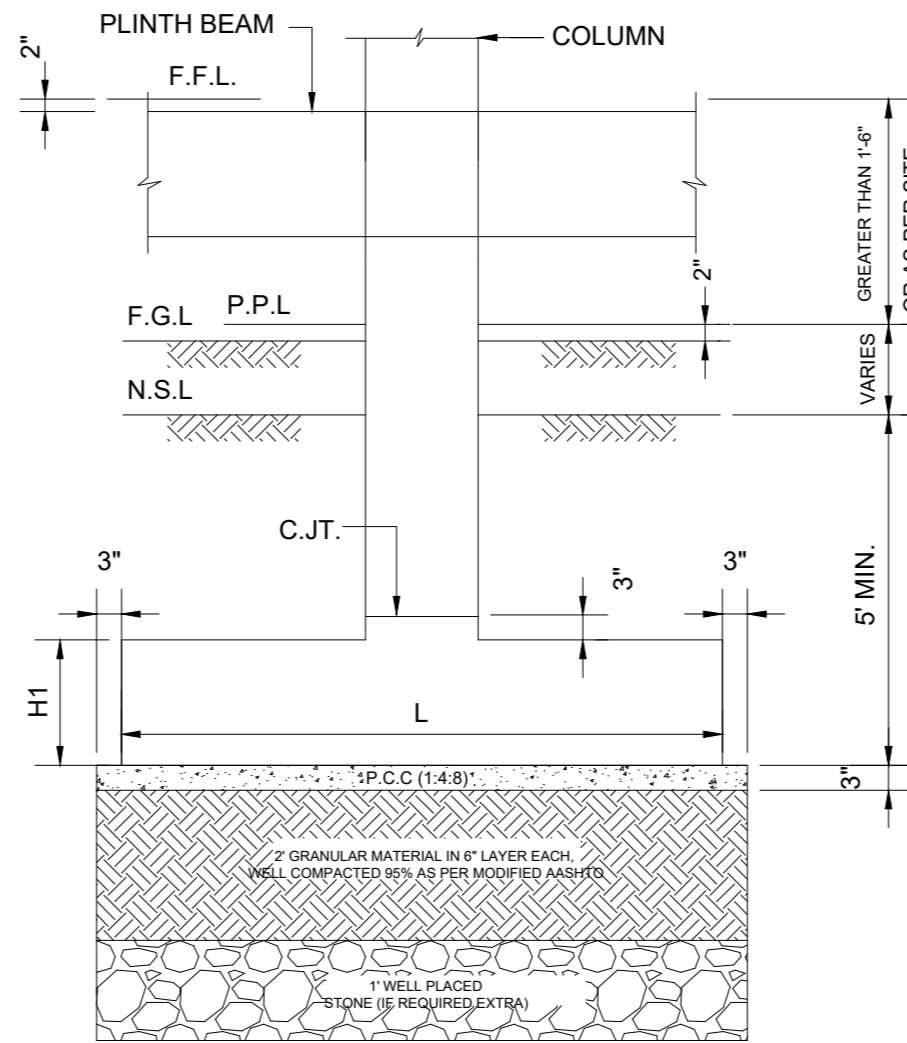


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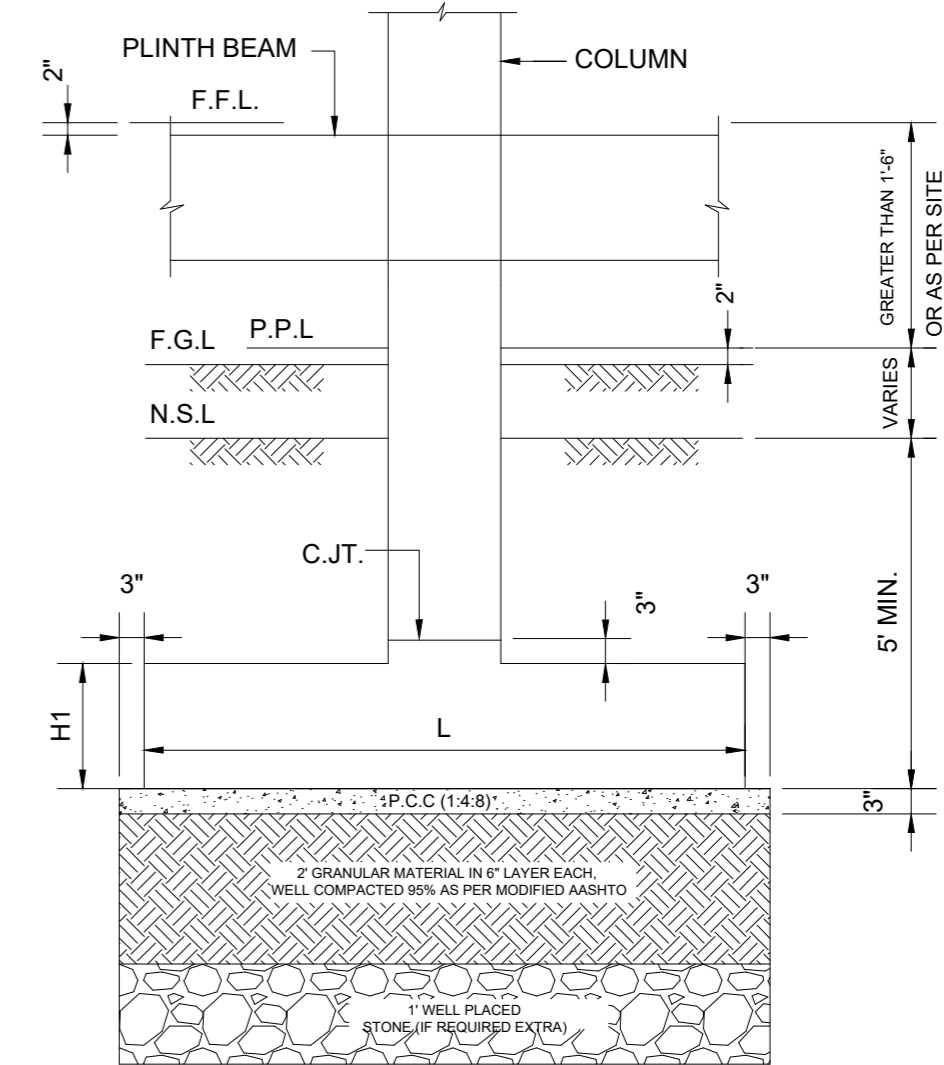
PROJECT: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO TITLE: FOUNDATION SCHEDULE	CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO DESIGNED BY: ENG ZAIN ARSHAD APPROVED BY: _____ DATE: MARCH, 2024 DRAWN BY: MATHEW SIMON JOB NO. _____ SCALE: N.T.S DRG. NO. ST-07
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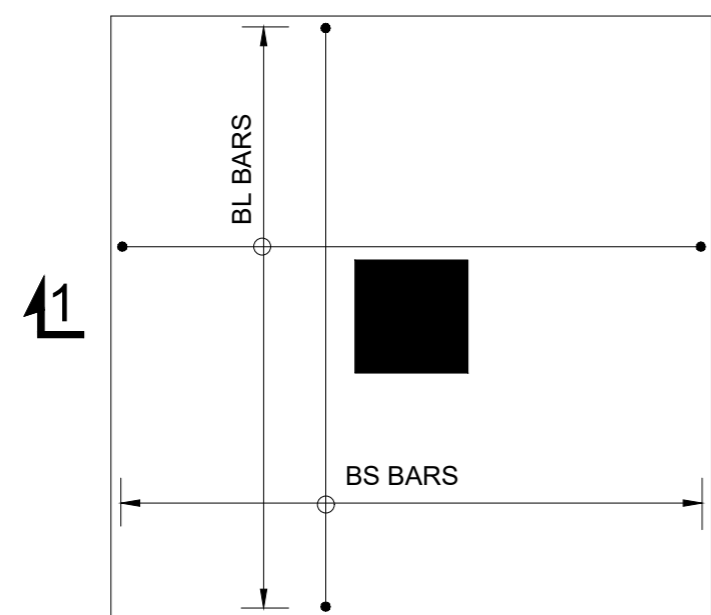
SECTION 1-1
REINFORCEMENT DETAILS



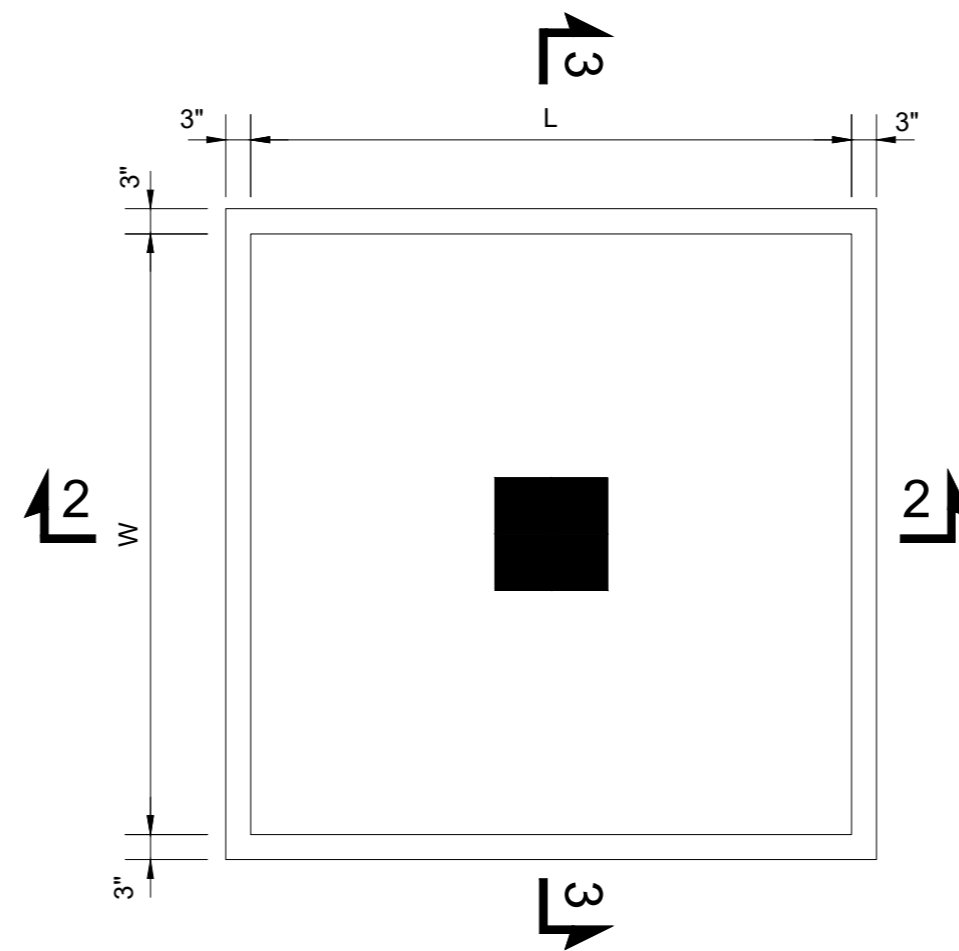
SECTION 2-2
CONCRETE OUTLINE



SECTION 3-3
CONCRETE OUTLINE



ISOLATED FOOTING (TYP.)
REINFORCEMENT DETAILS



ISOLATED FOOTING (TYP.)
CONCRETE OUTLINE

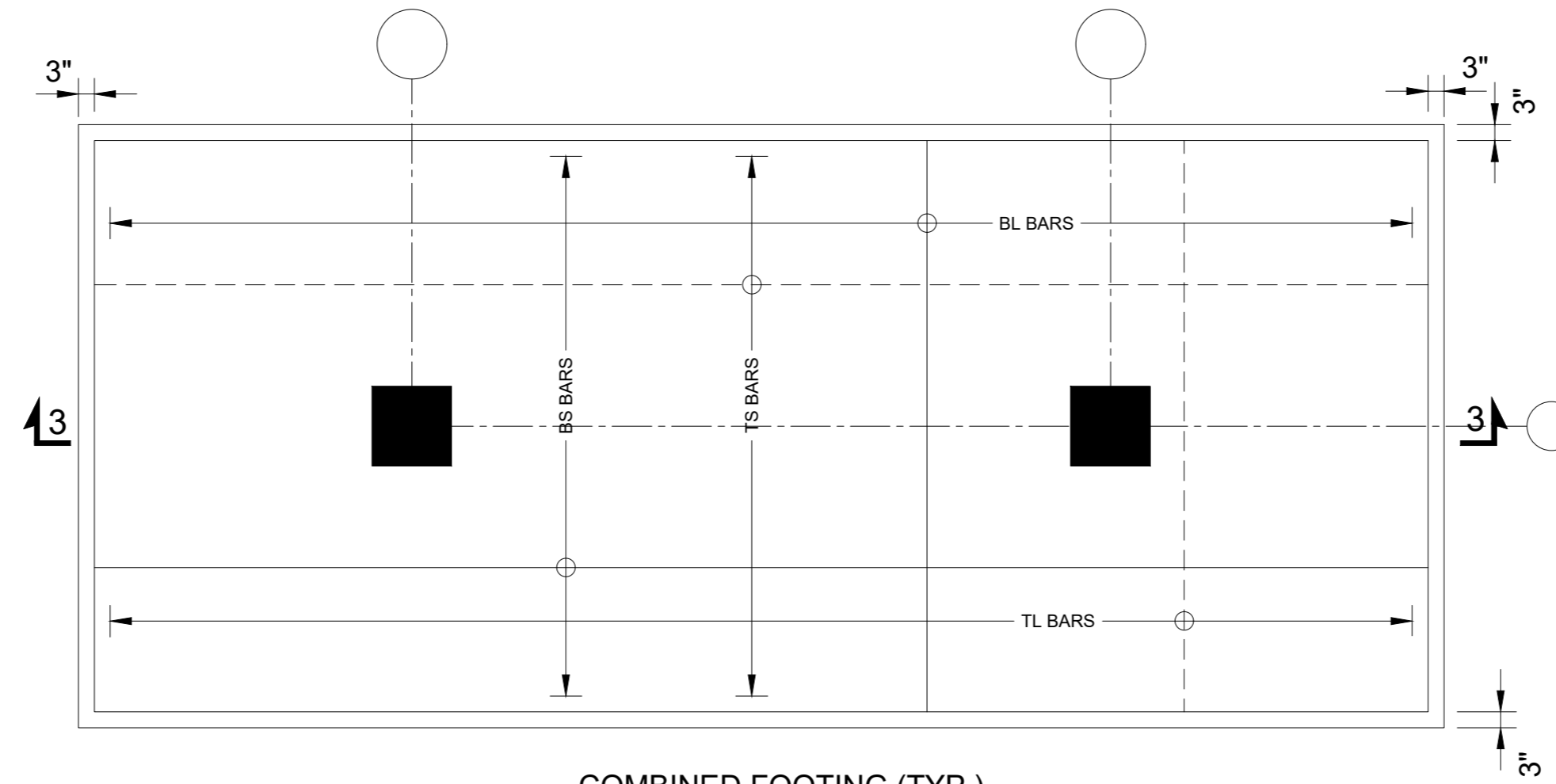
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ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



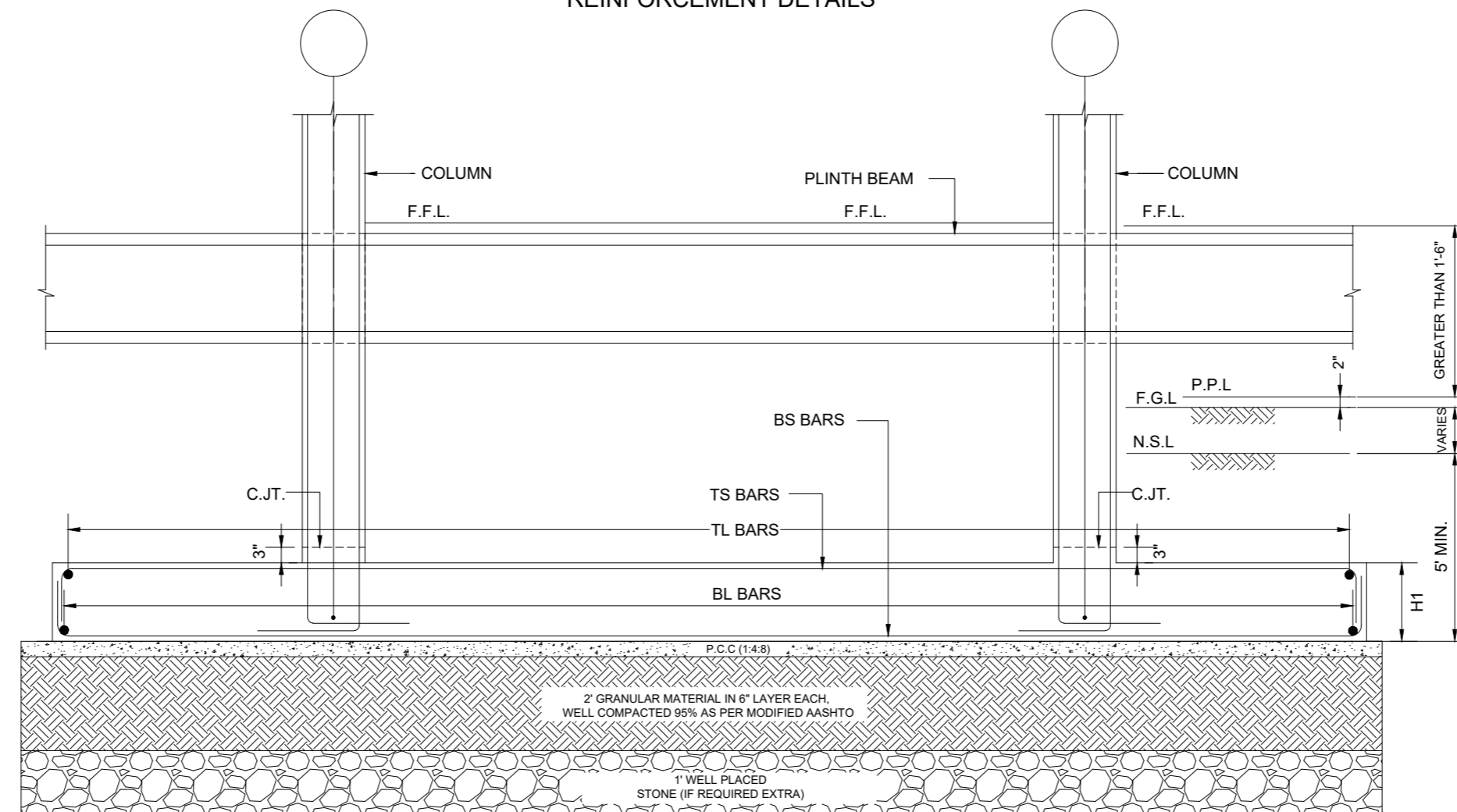
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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	FOUNDATION SECTION	

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



COMBINED FOOTING (TYP.)
REINFORCEMENT DETAILS



SECTION 3-3

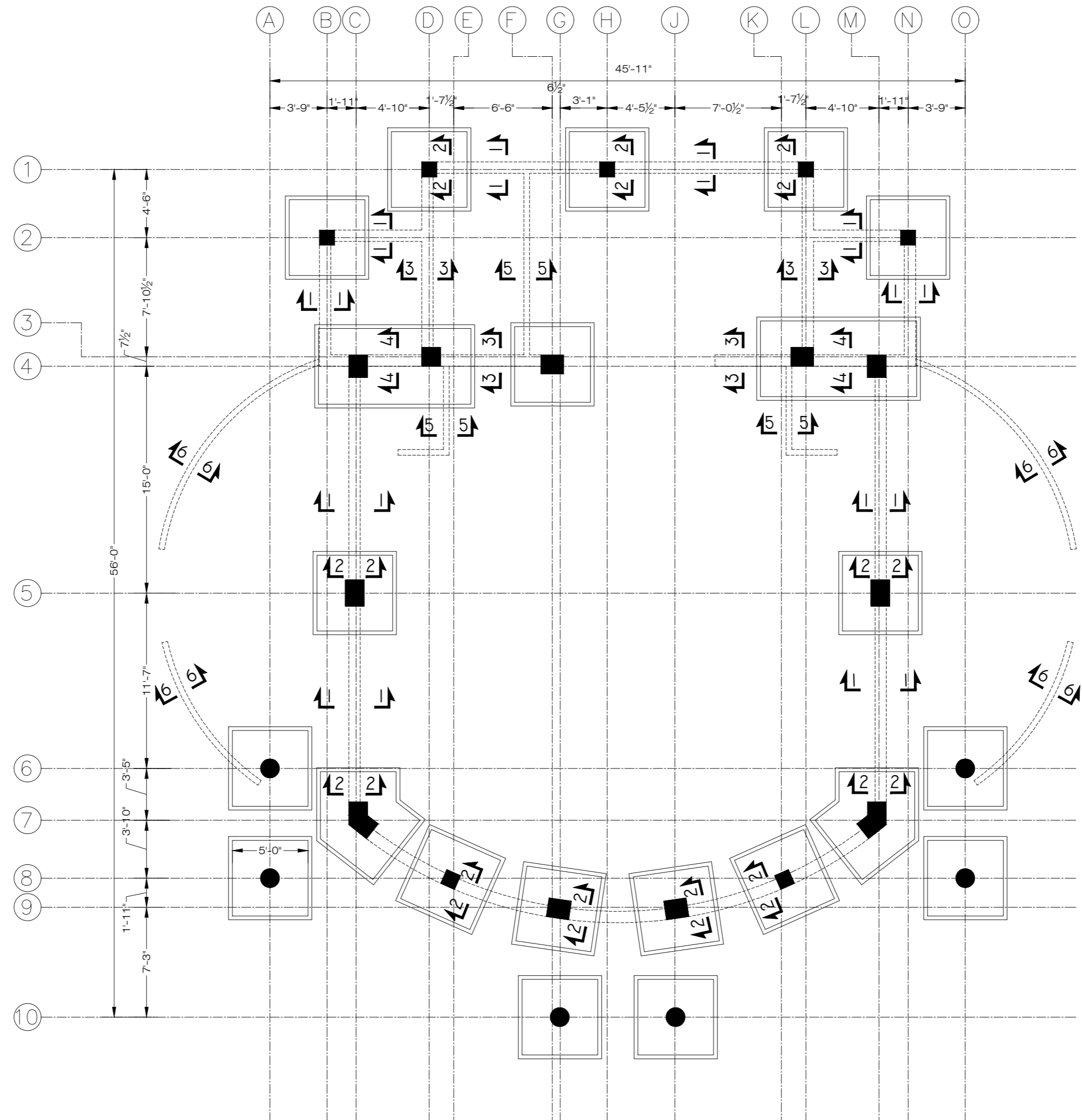
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PROJECT:
**UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING
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 SCIENCE JAMSHORO**
 TITLE:
FOUNDATION SECTION

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



BRICK MASONRY FOUNDATION LAYOUT
FOR MORE DETAILS REFER TO ARCHITECTURAL DRAWINGS

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

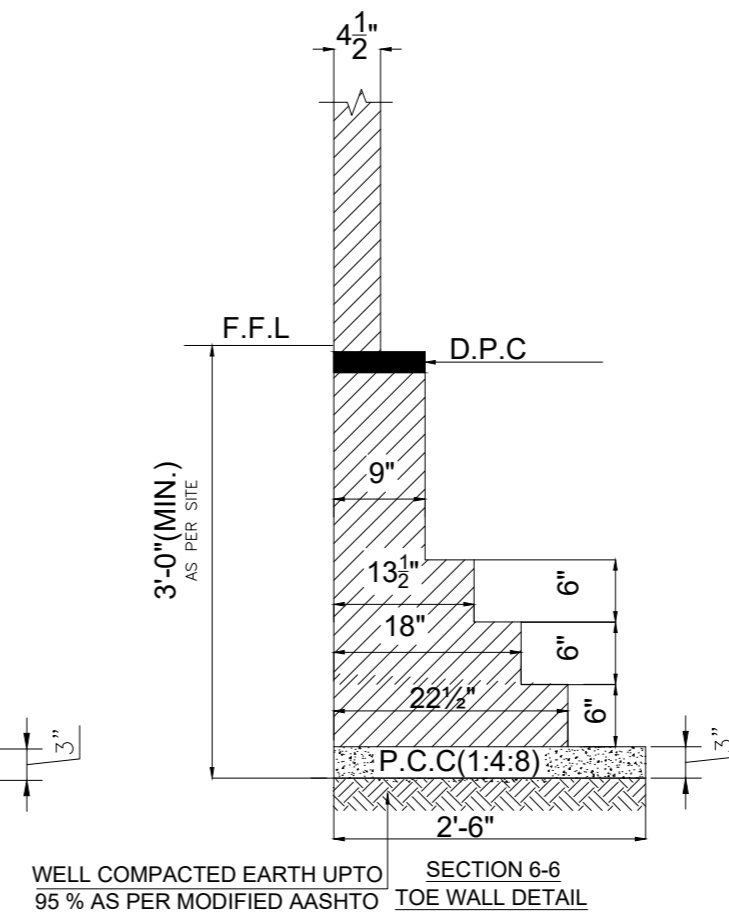
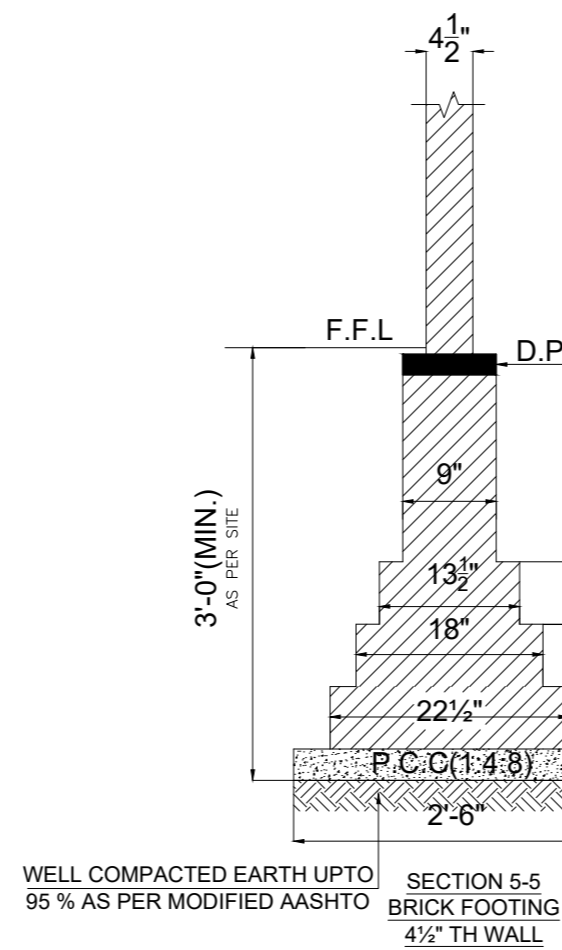
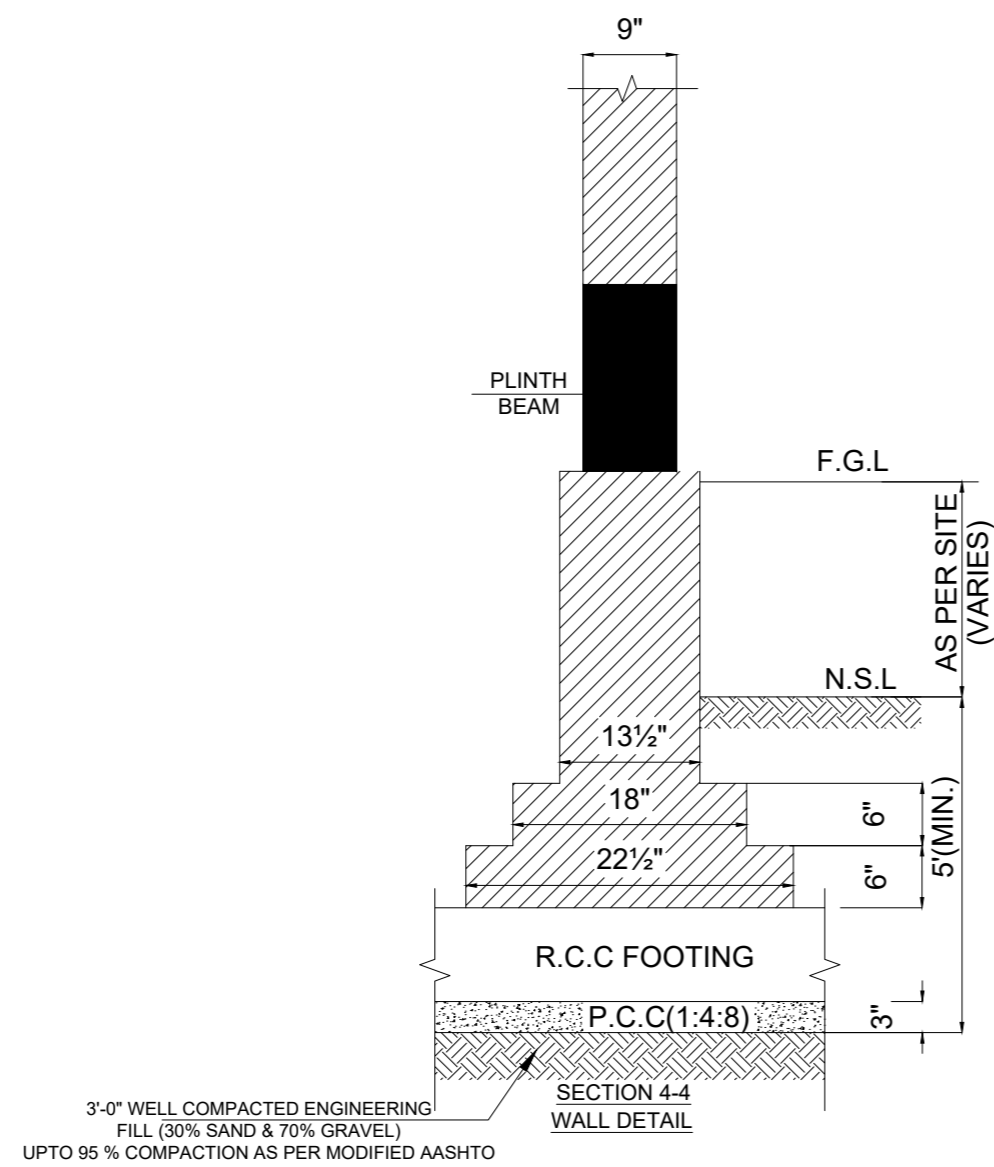
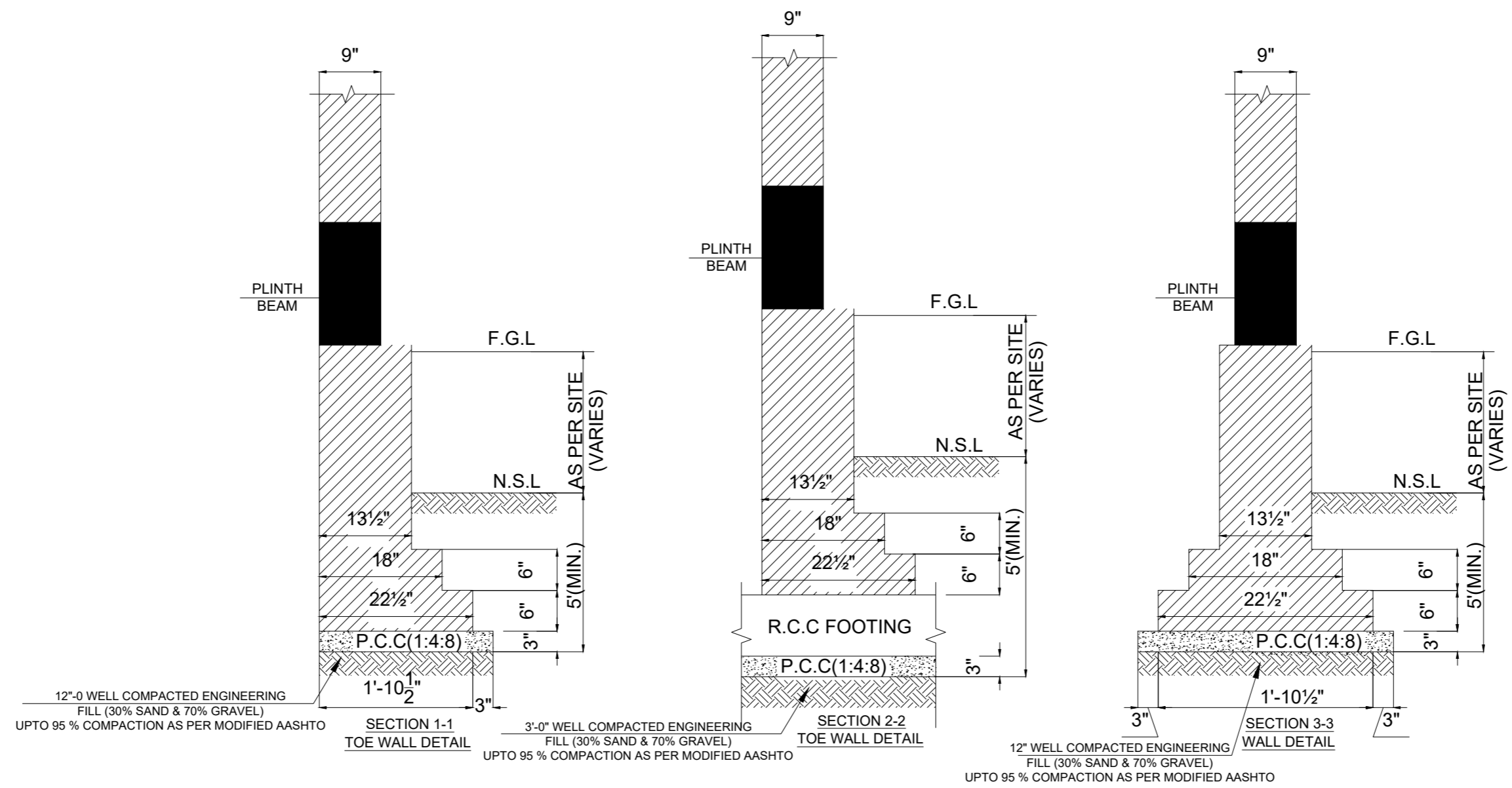


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PROJECT:
**UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING
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 SCIENCE JAMSHORO**

TITLE:
BRICK MASONRY FOOTING LAYOUT

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG.ZAIN ARSHAD	APPROVED BY:	DATE: MARCH, 2024
DRAWN BY: MATHEW SIMON	JOB NO.:	SCALE: N.T.S
DRG. NO.:	ST-10	



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



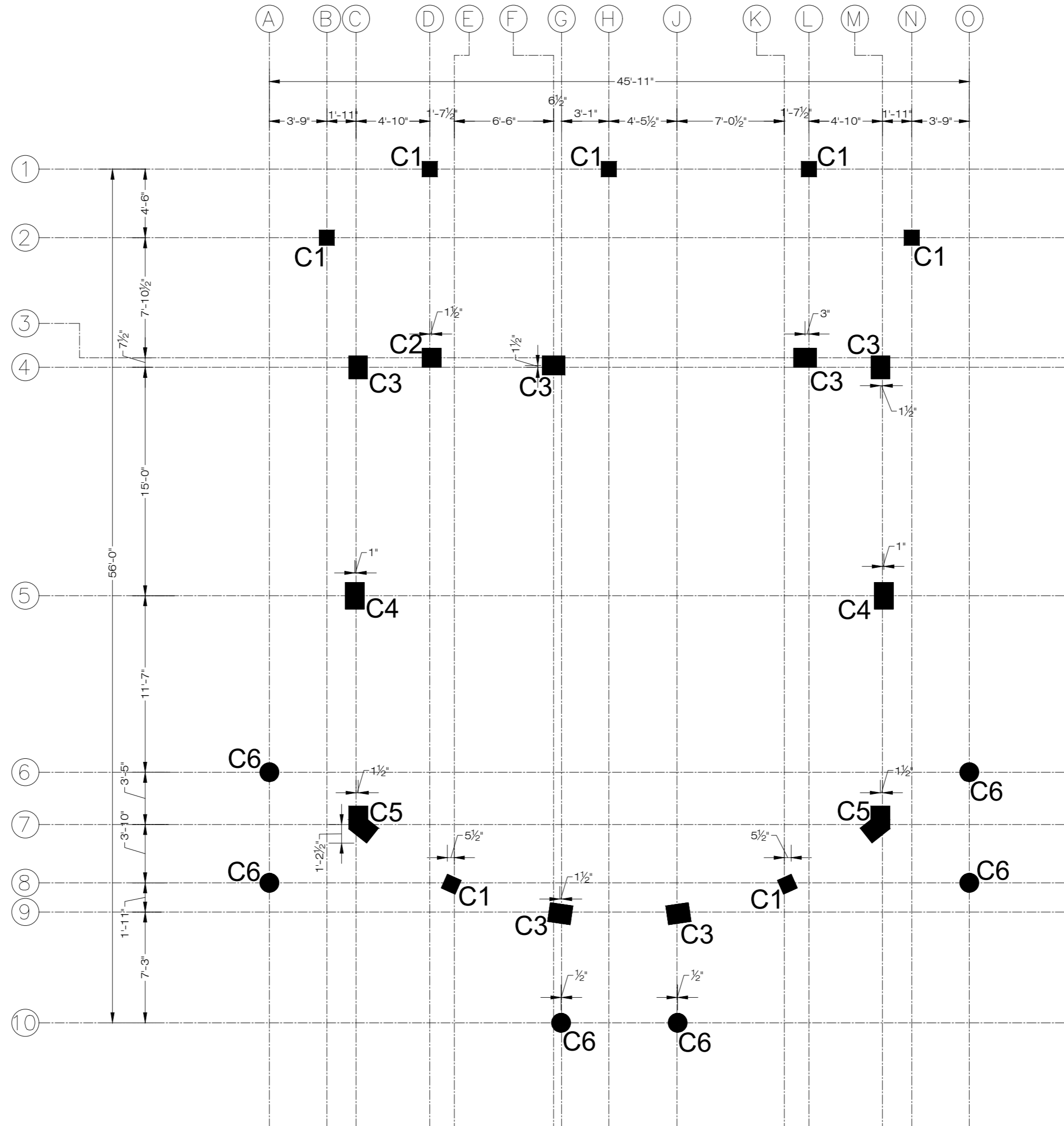
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PROJECT:
UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

TITLE:
BRICK MASONRY FOOTING SECTION

CLIENT:
LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO

DESIGNED BY: ENG ZAIN ARSHAD	APPROVED BY:	DATE: MARCH, 2024
DRAWN BY: MATHW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-11	



COLUMN LAYOUT PLAN
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

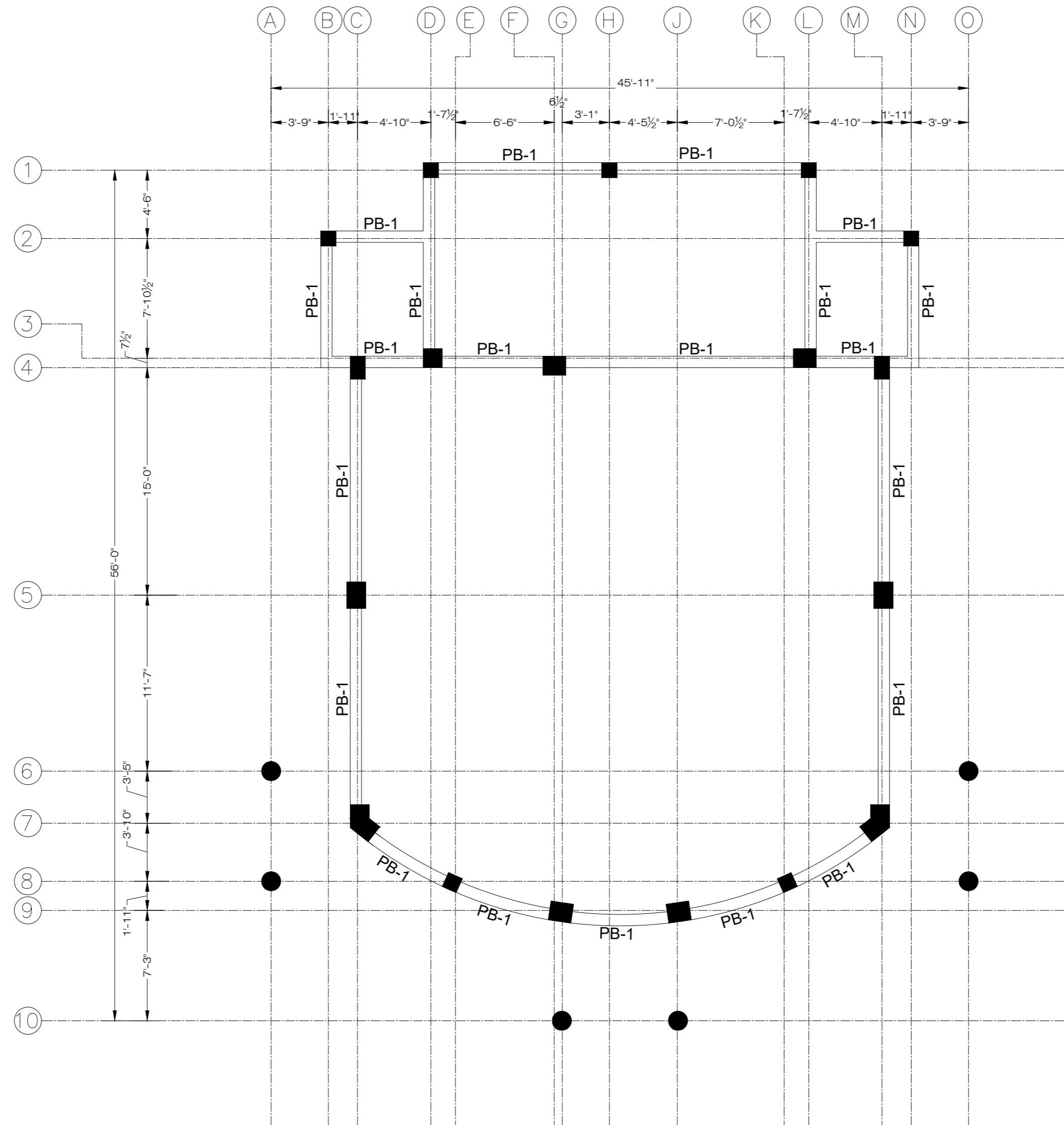
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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	COLUMN LAYOUT PLAN	

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE:
ENG ZAIN ARSHAD		MARCH, 2024
DRAWN BY:	JOB NO.	SCALE:
MATHEW SIMON		N.T.S
DRG. NO.	ST-12	



PLINTH BEAM LAYOUT PLAN
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

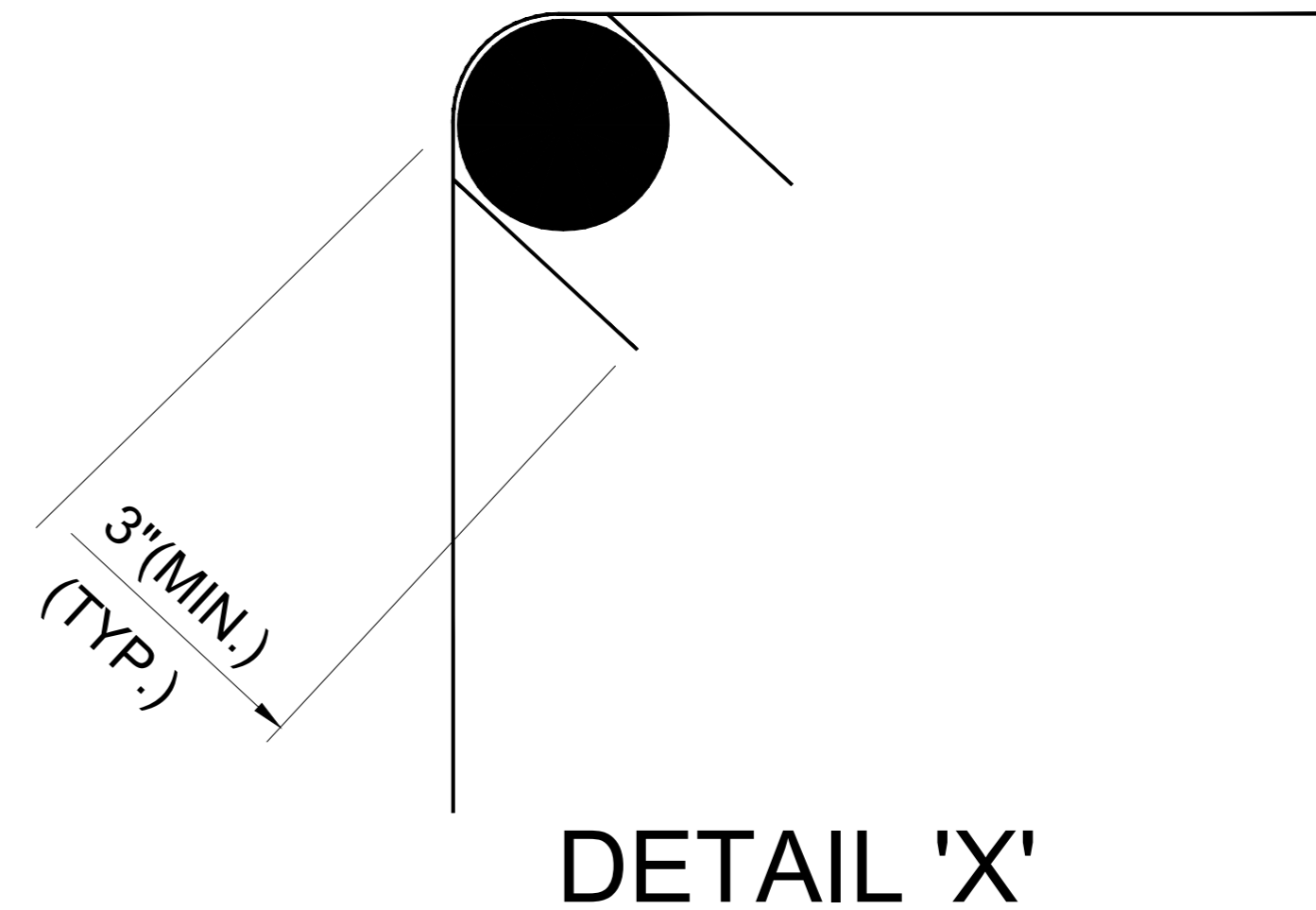
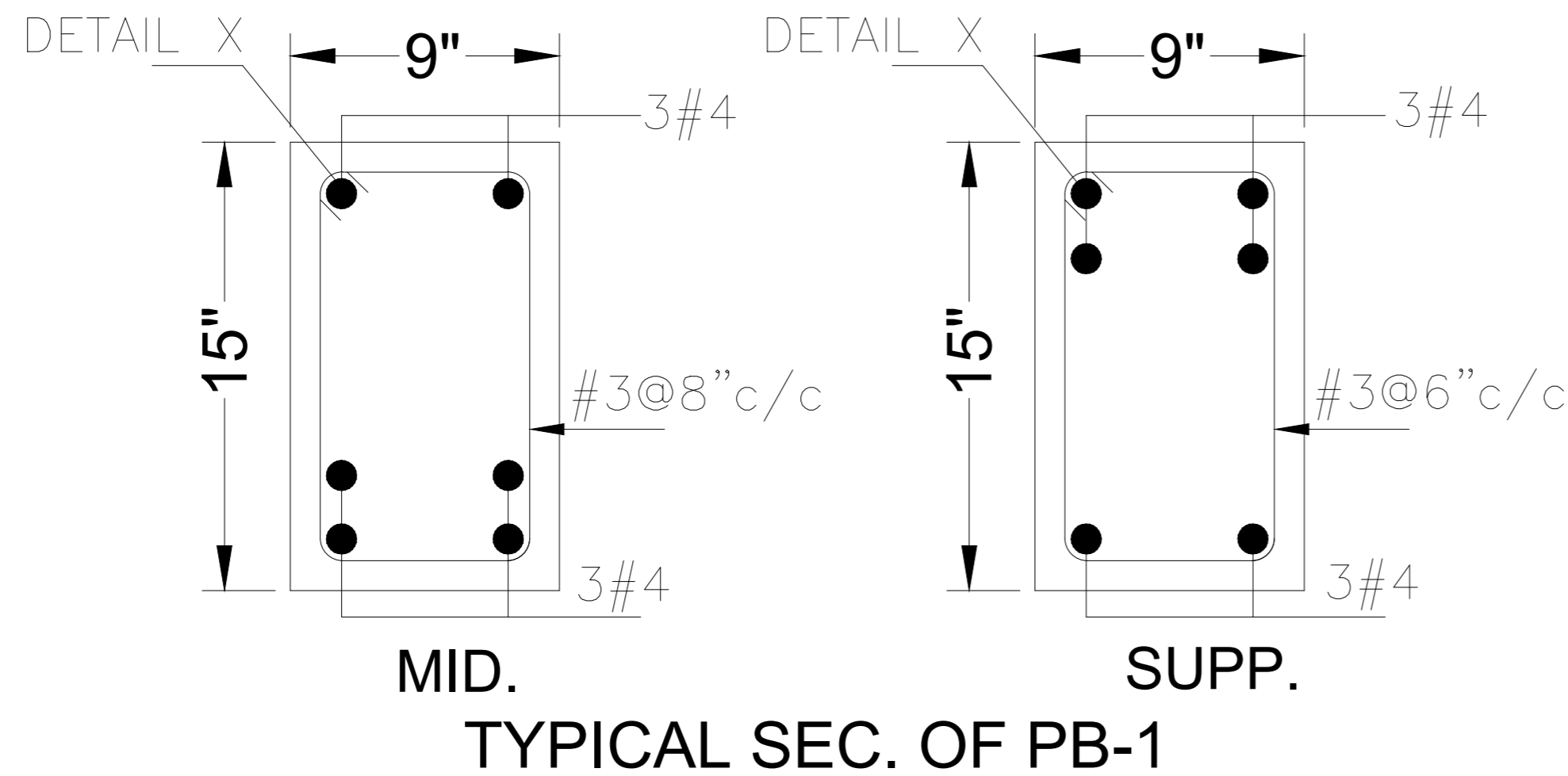
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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	PLINTH BEAM LAYOUT PLAN	

CLIENT:	LIAQAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE:
ENG ZAIN ARSHAD		MARCH, 2024
DRAWN BY:	JOB NO.	SCALE:
MATHEW SIMON		N.T.S
DRG. NO.	ST-14	



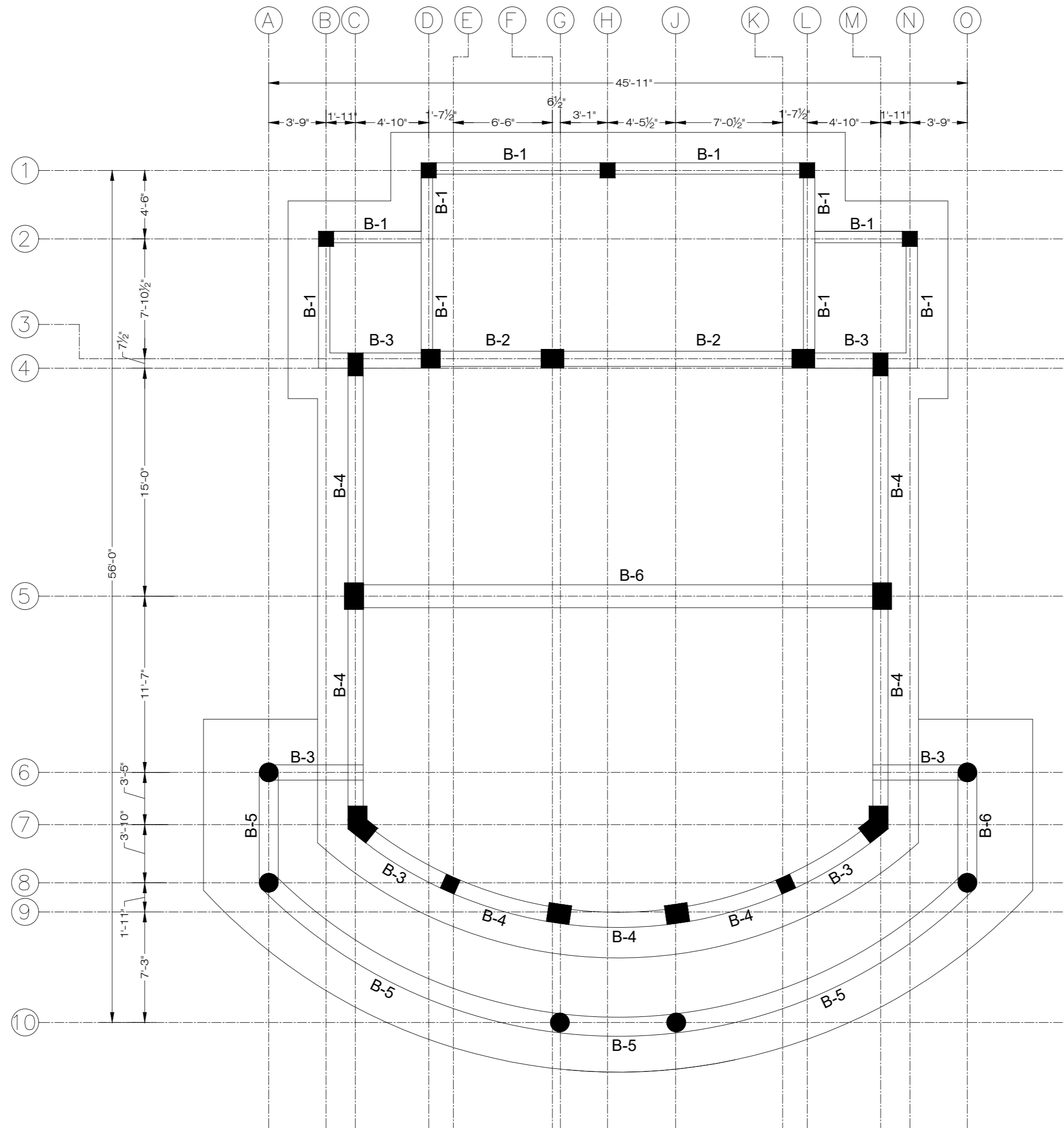
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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	PLINTH BEAM SECTION	

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG ZAIN ARSHAD	APPROVED BY:	DATE: MARCH, 2024
DRAWN BY: MATHEW SIMON	JOB NO.:	SCALE: N.T.S
DRG. NO.:	ST-15	



BEAM LAYOUT PLAN
FOR MORE DETAIL REFER TO ARCHITECTURAL DRAWINGS

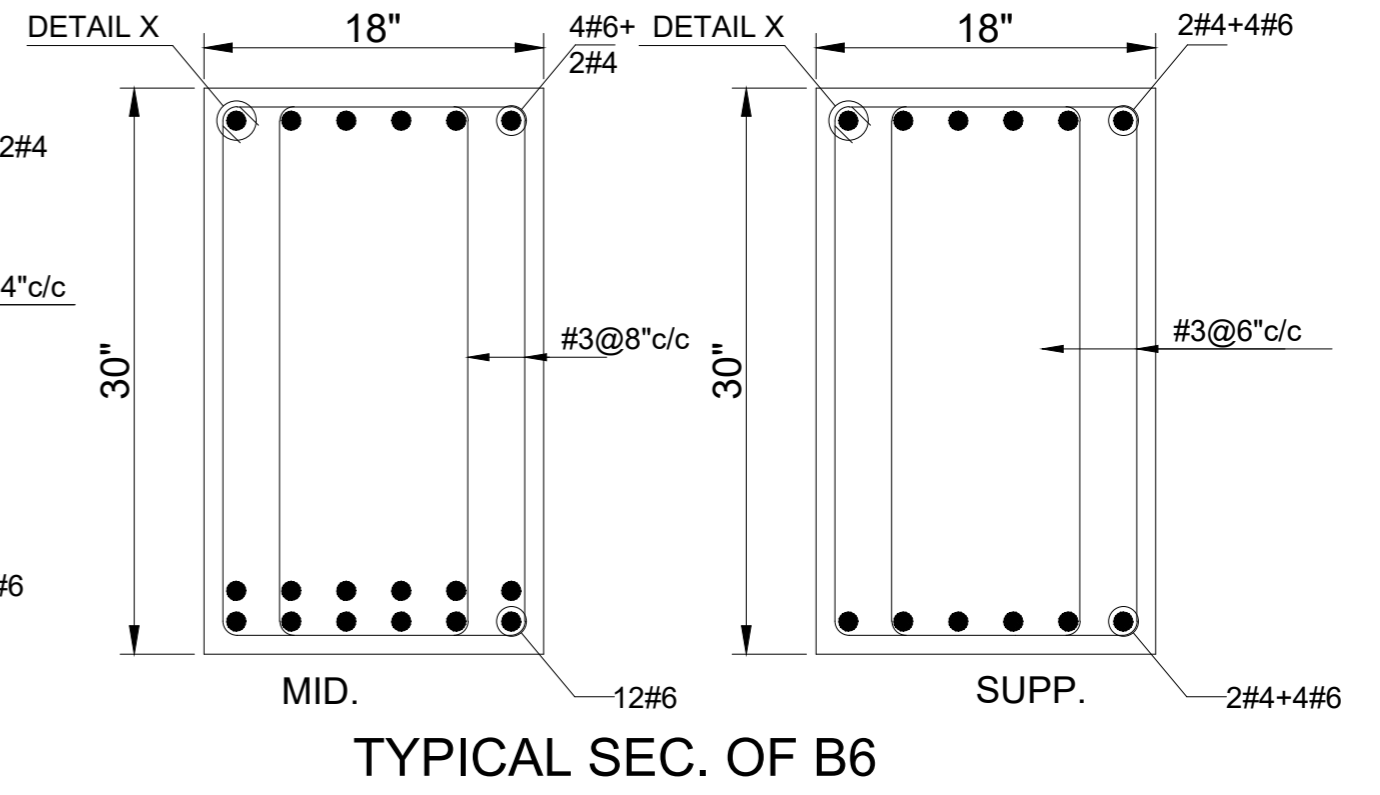
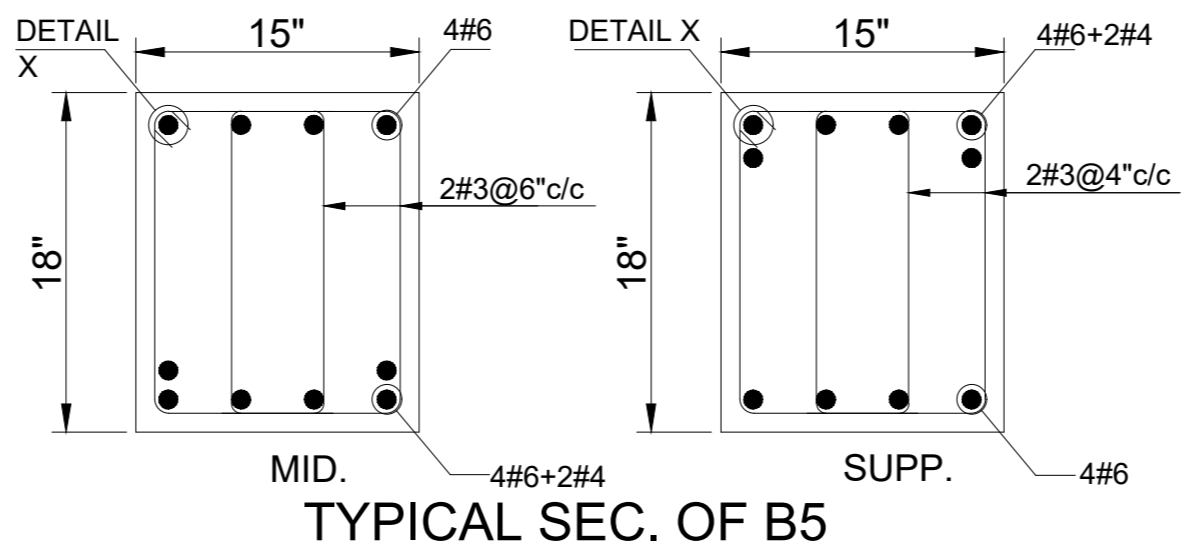
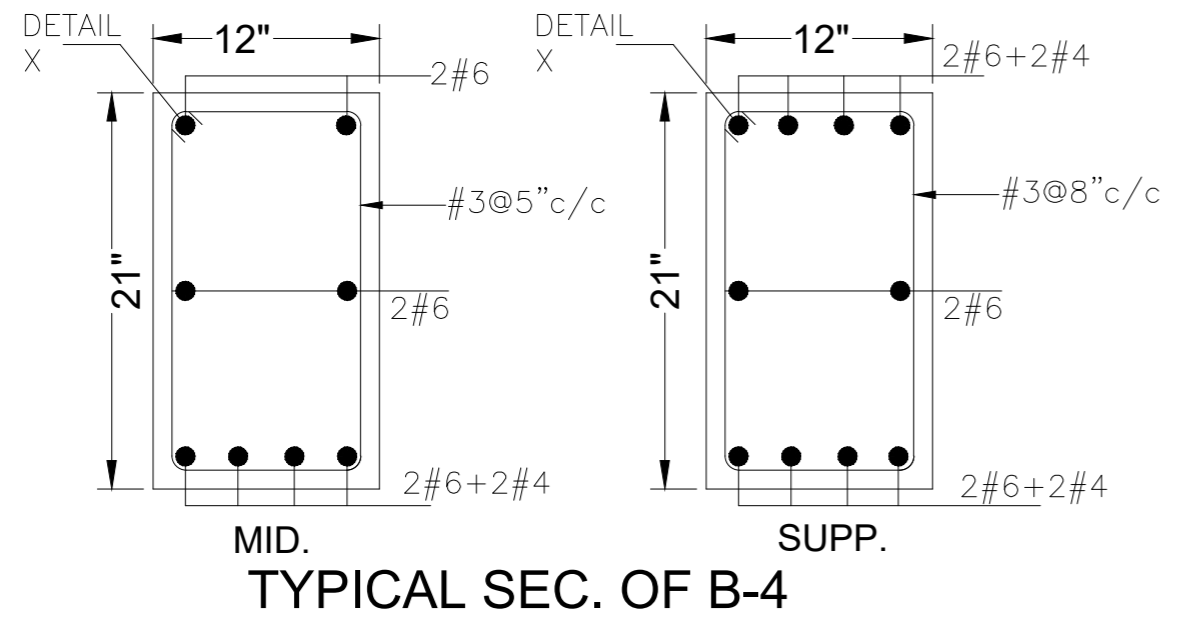
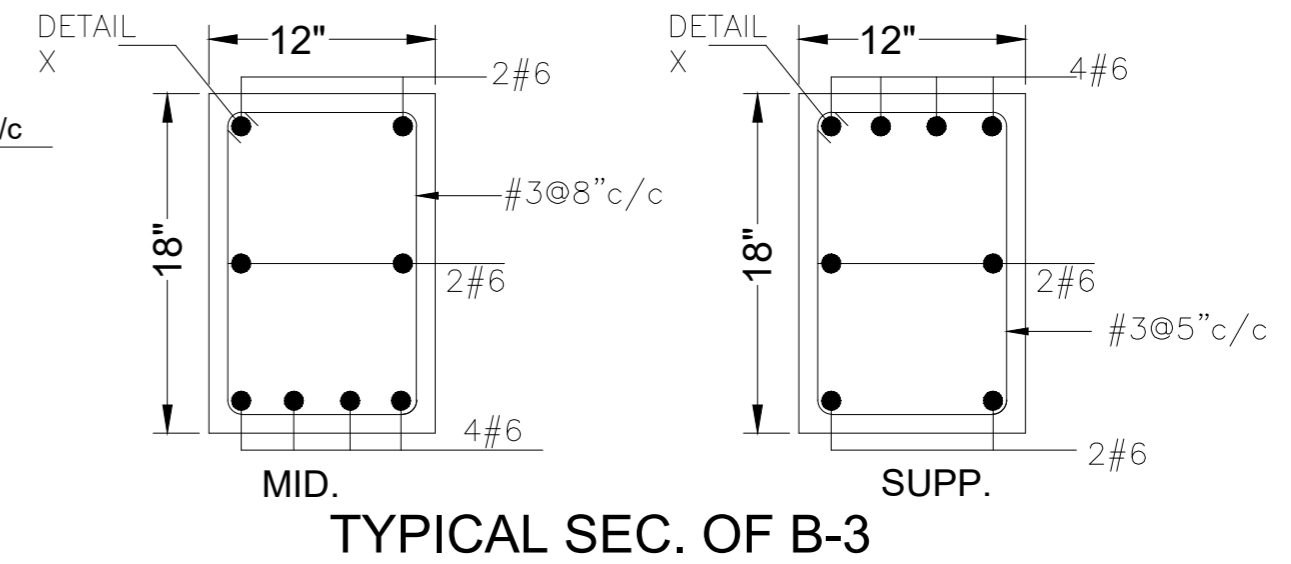
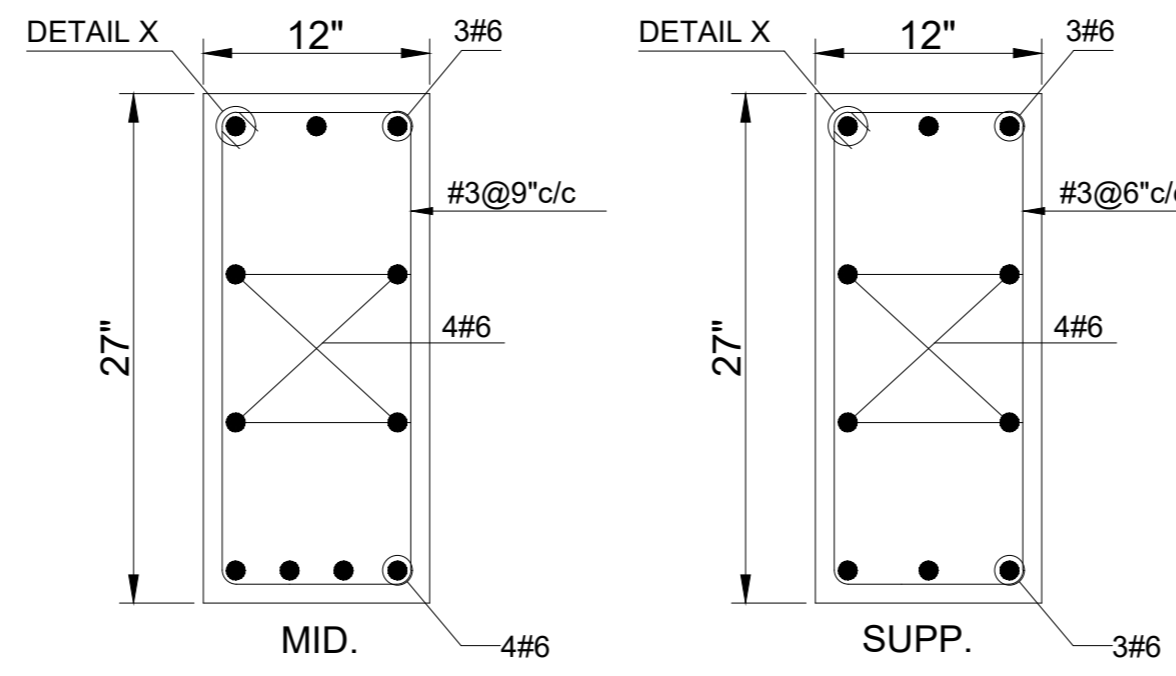
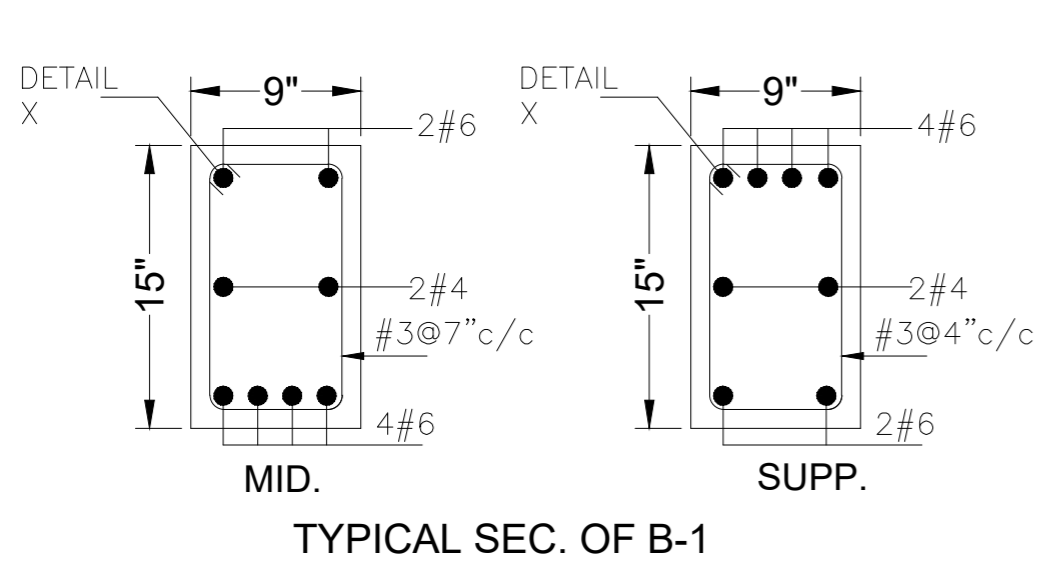
ADDITION & REVISION					
ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE:
ENG.ZAIN ARSHAD		MARCH, 2024
DRAWN BY:	JOB NO.	SCALE:
MATHEW SIMON		N.T.S
DRG. NO.	ST-16	



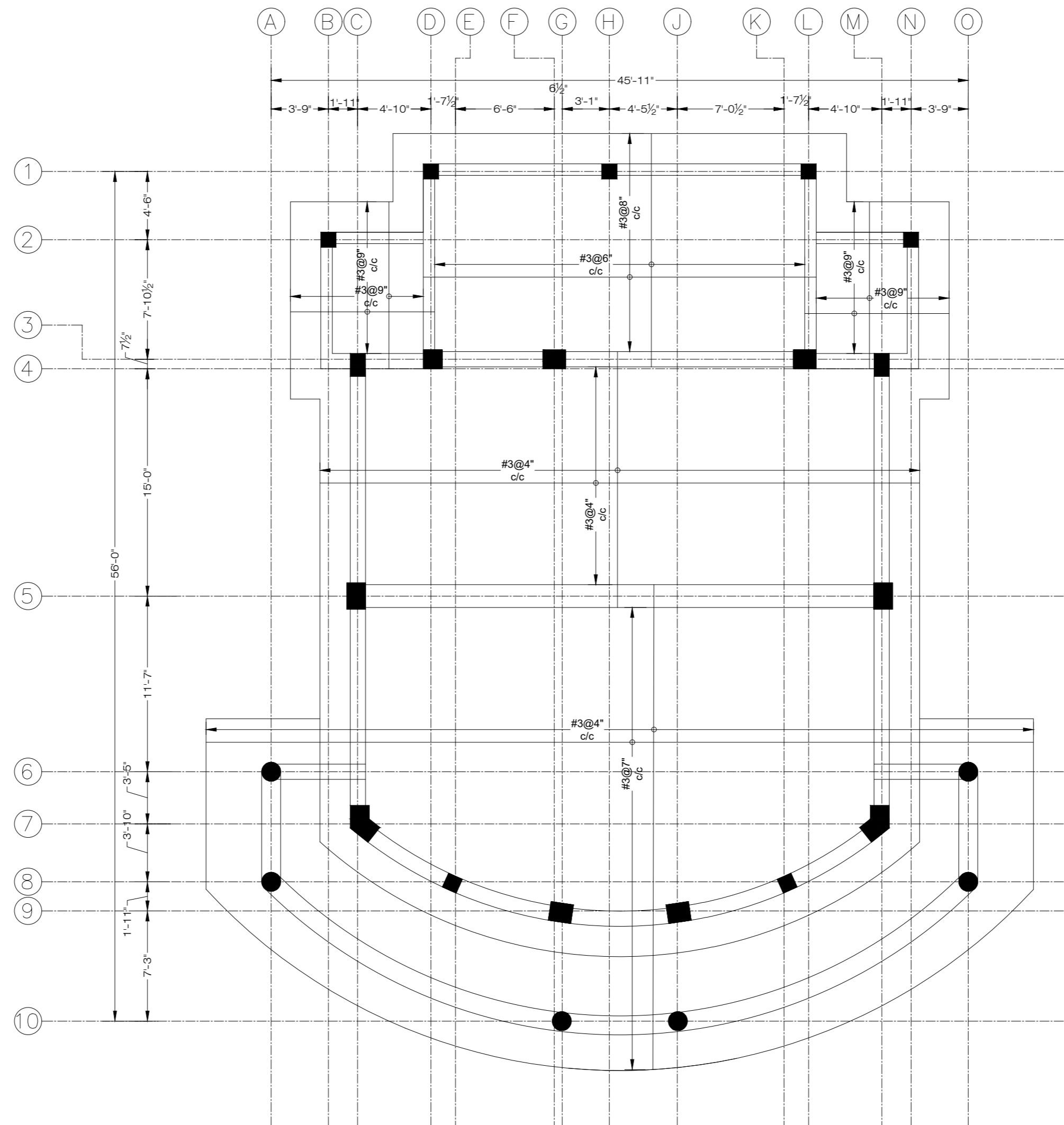
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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	GF BEAM SECTION	

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG.ZAIN ARSHAD	APPROVED BY:	DATE: MARCH, 2024
DRAWN BY: MATHEW SIMON	JOB NO.:	SCALE: N.T.S
DRG. NO.:	ST-17	



GROUND FLOOR SLAB LAYOUT
POSITIVE REINFORCEMENT DETAIL
 SLAB THICKNESS = 6" (EXCEPT WHERE AS NOTED)

ADDITION & REVISION					
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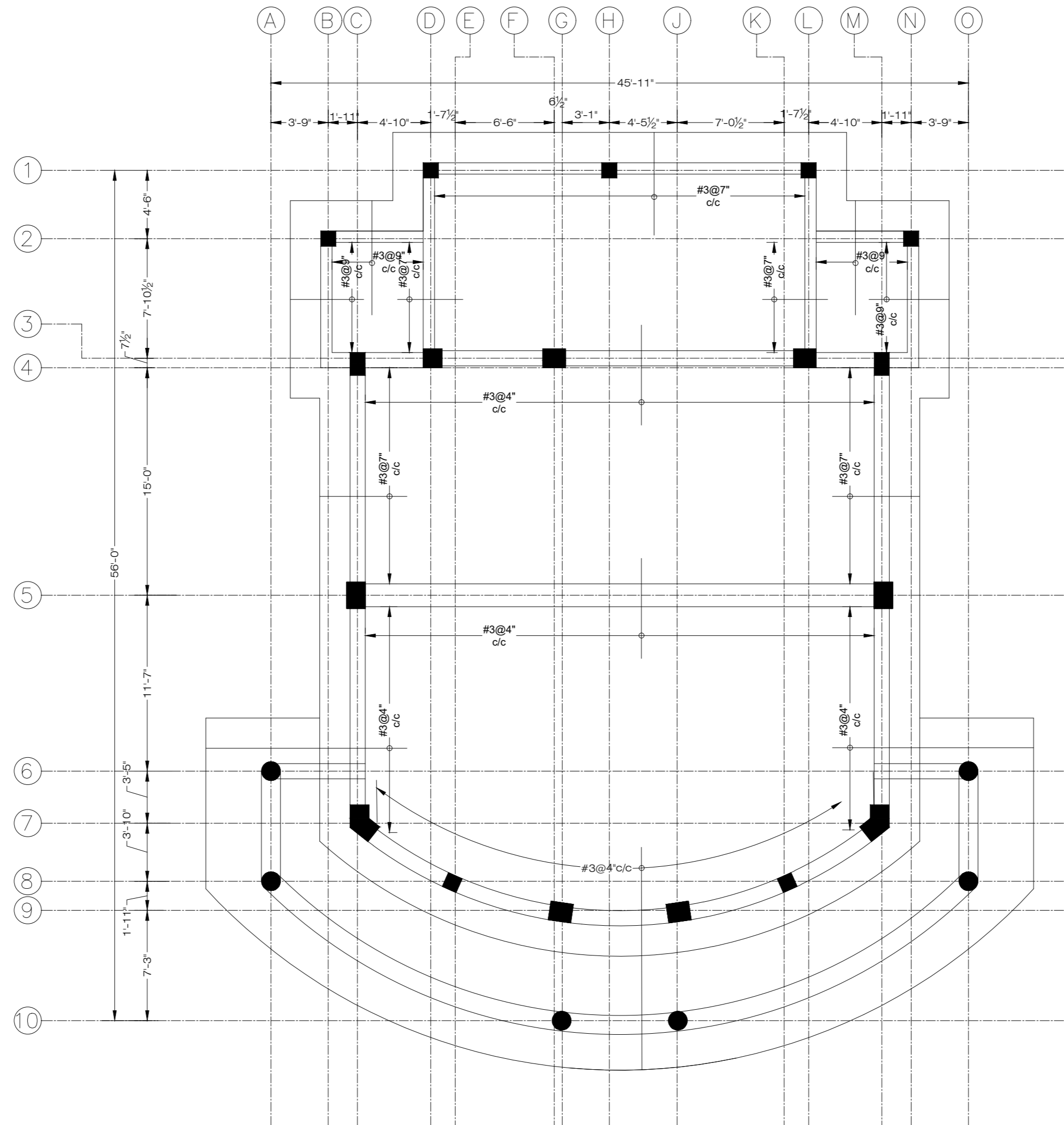


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PROJECT:
**UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING
 SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH
 SCIENCE JAMSHORO**

TITLE:
**GROUND FLOOR SLAB LAYOUT
 POSITIVE REINF. PLAN**

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: ENG.ZAIN ARSHAD	APPROVED BY:	DATE: MARCH, 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	ST-18	



GROUND FLOOR SLAB LAYOUT
NEGATIVE REINFORCEMENT DETAIL
 SLAB THICKNESS = 6" (EXCEPT WHERE AS NOTED)

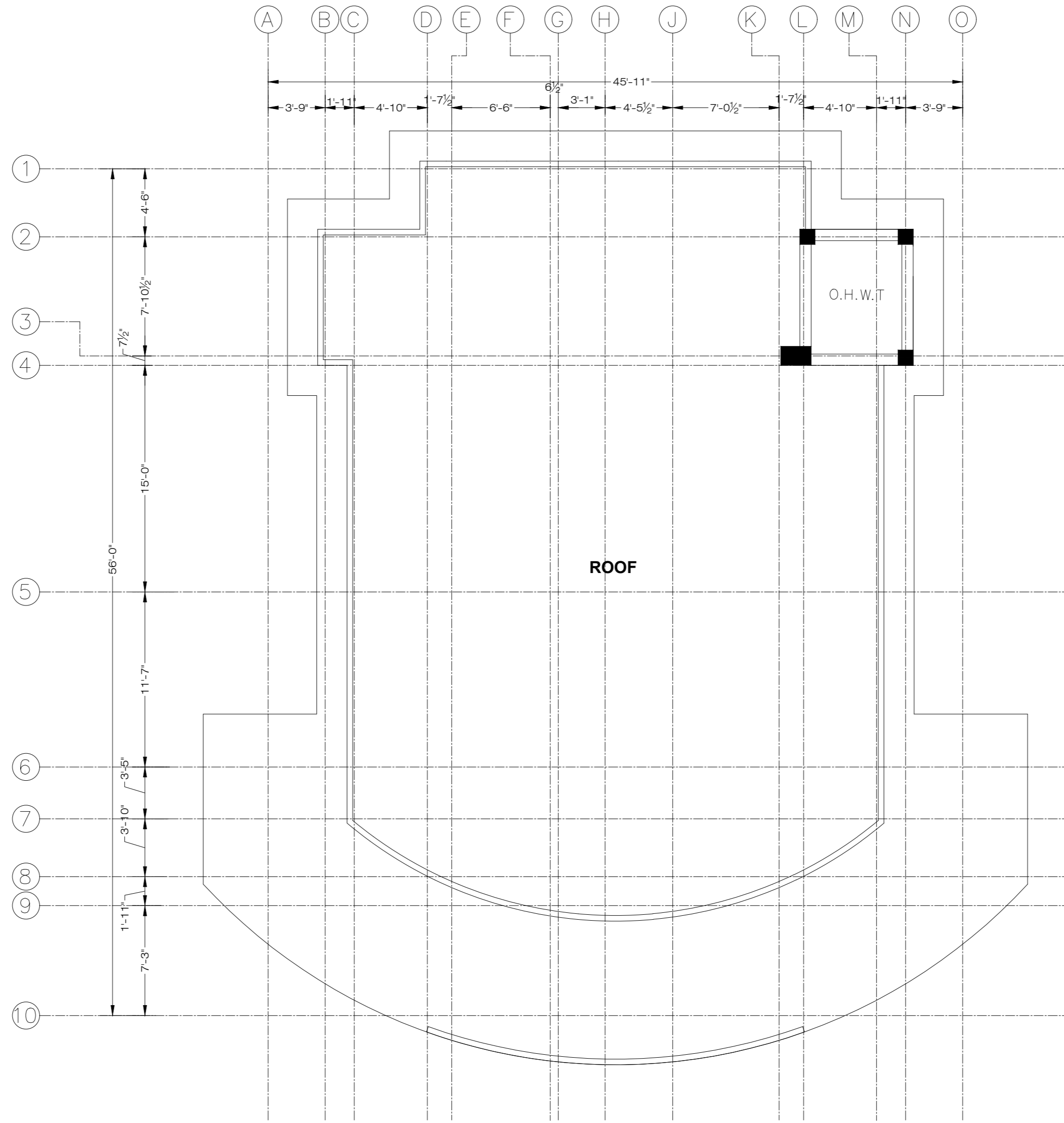
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ADD. REV. NO.	DATE	DESCRIPTION	DES. BY	CHK. BY	APP. BY



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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	GROUND FLOOR SLAB LAYOUT NEGATIVE REINF. PLAN	

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



ROOF LAYOUT PLAN

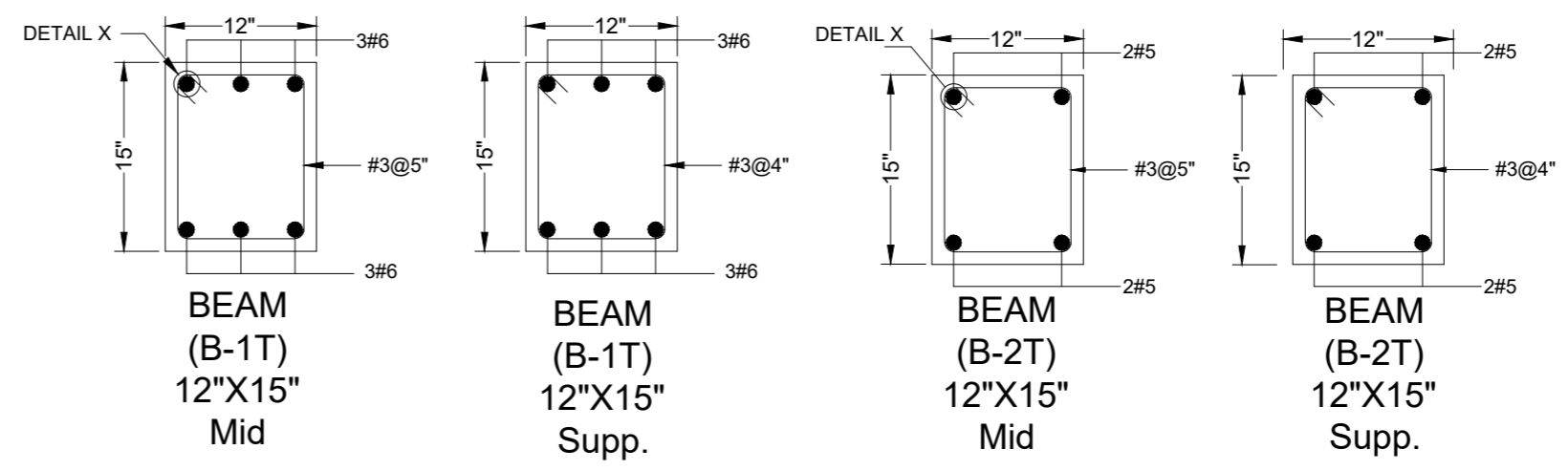
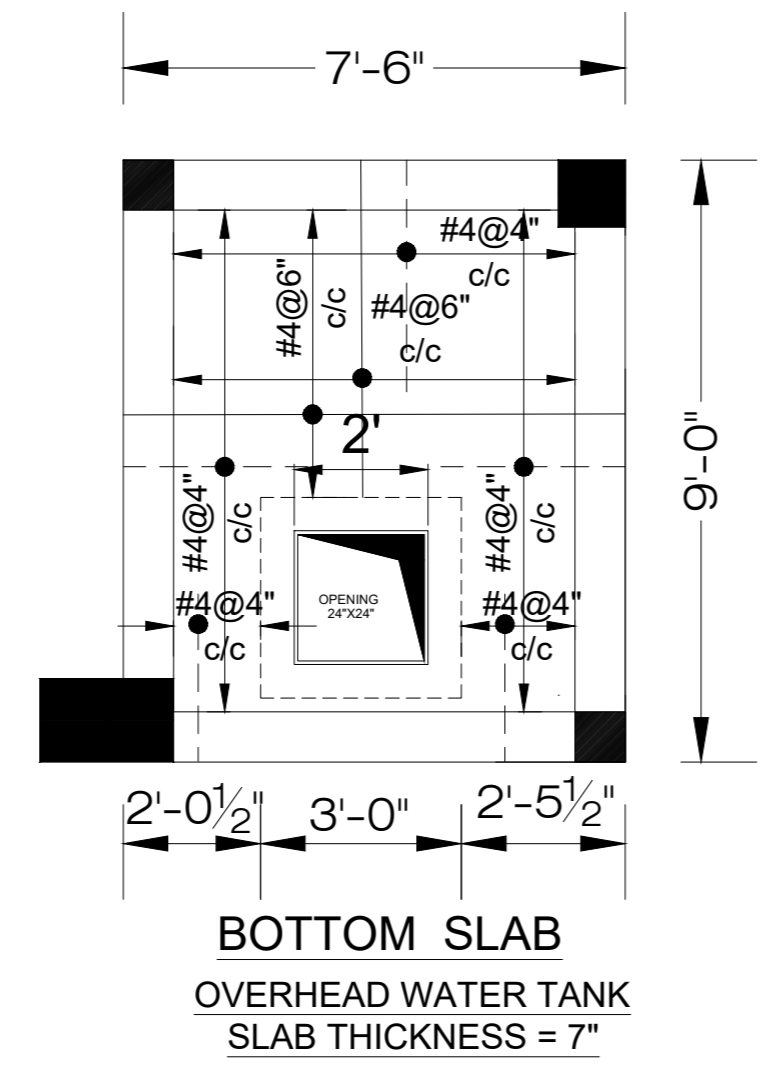
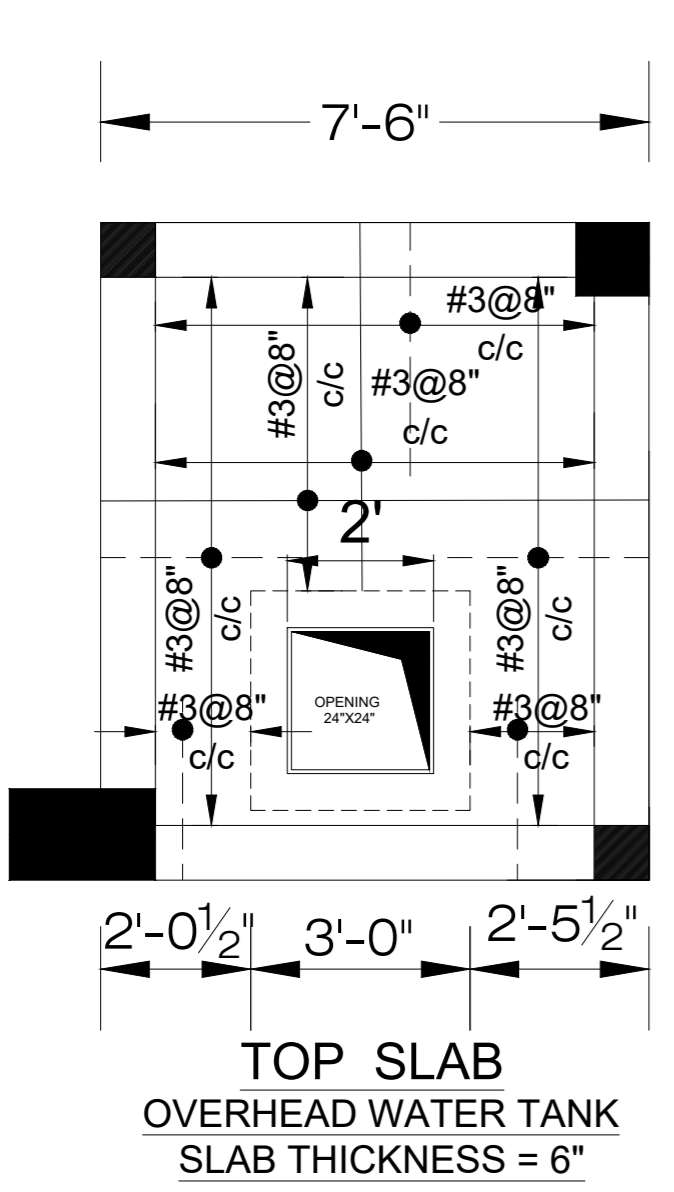
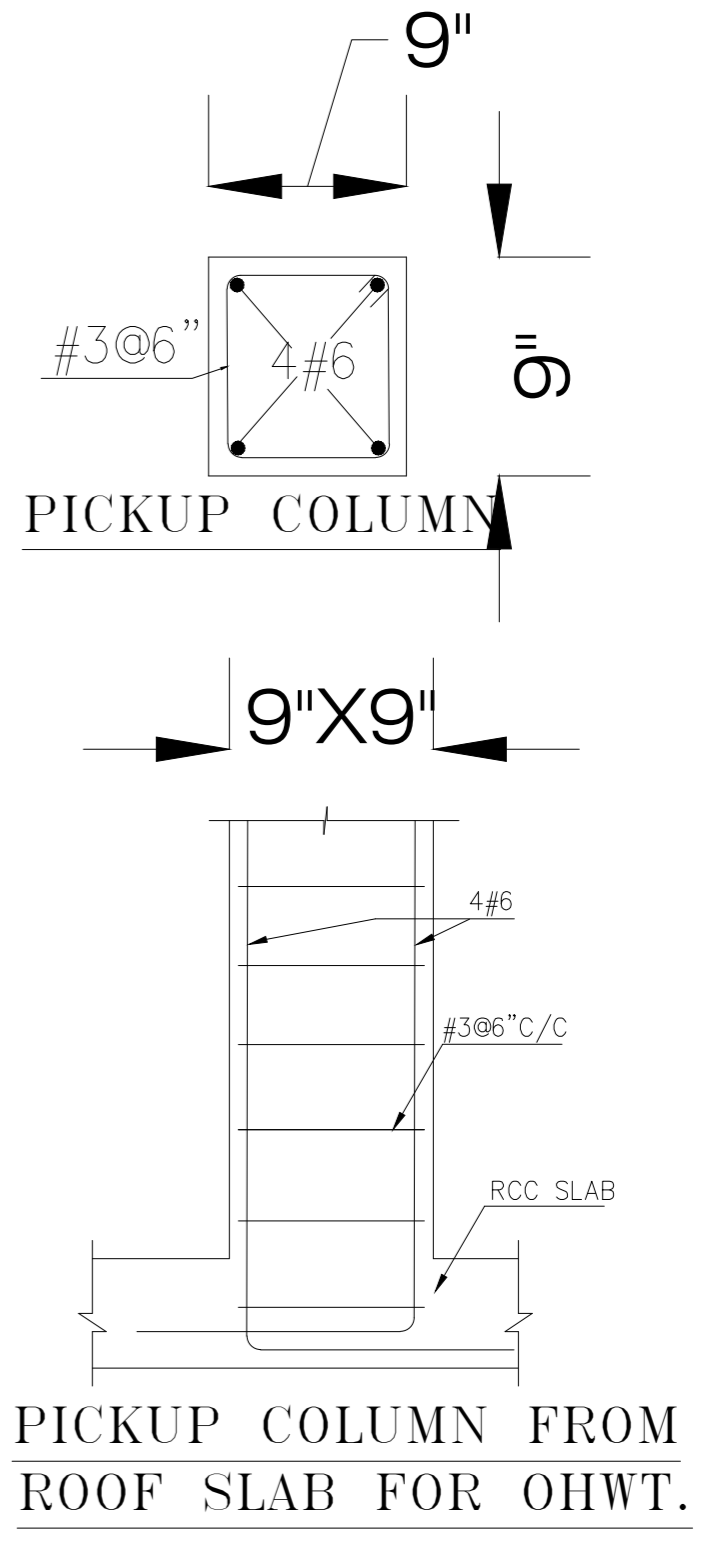
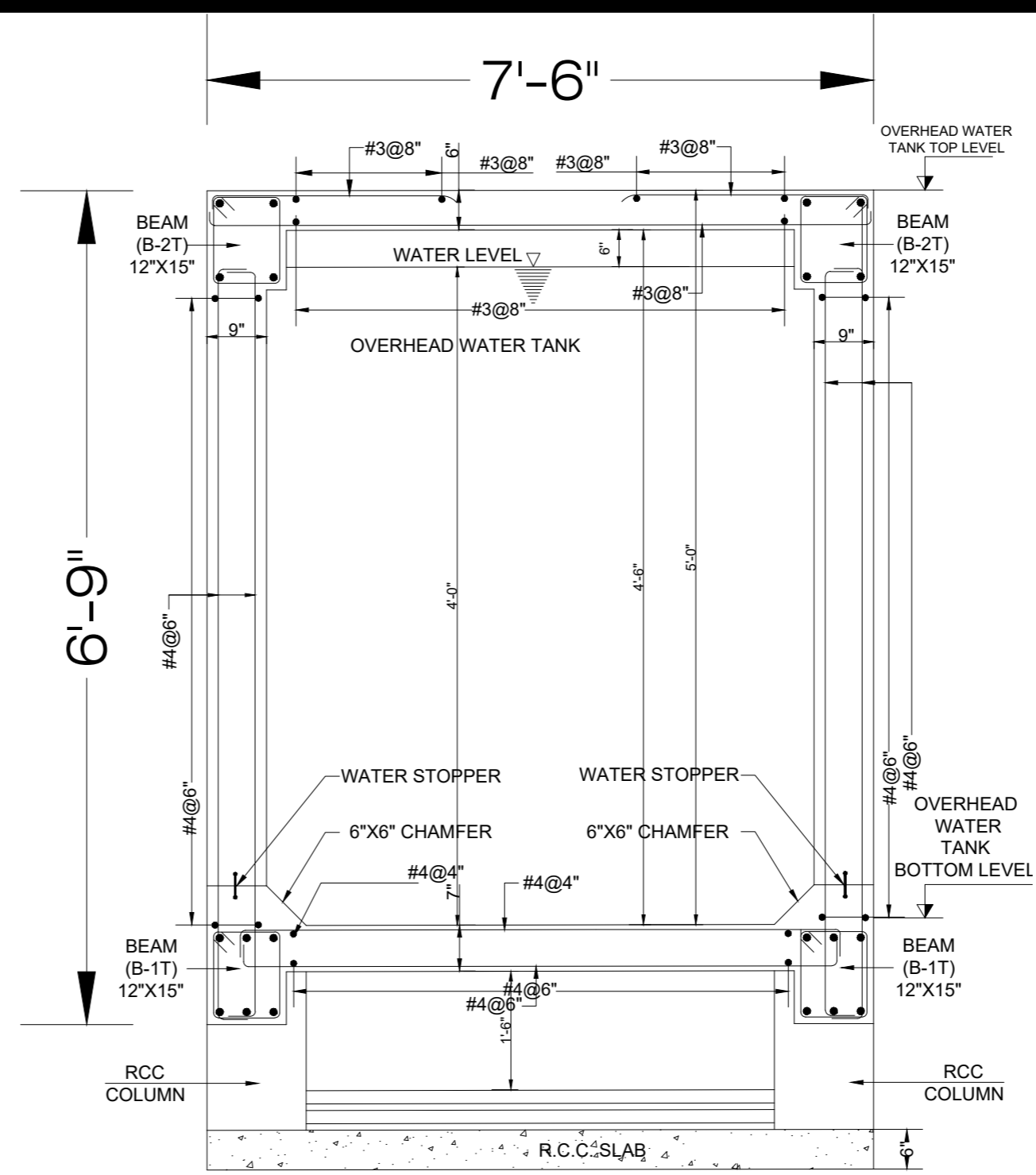
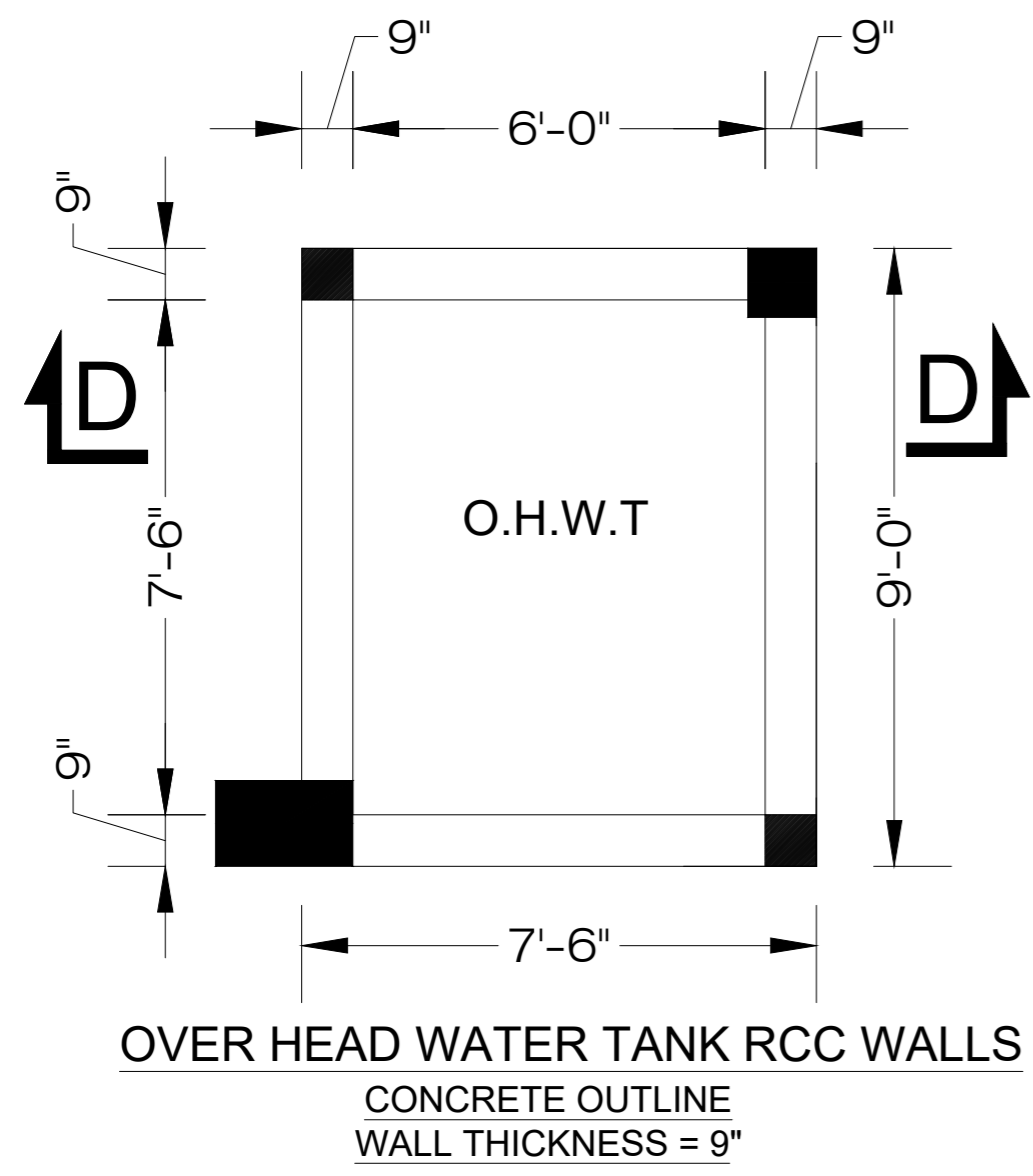
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PROJECT:	UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
TITLE:	ROOF LAYOUT PLAN	

CLIENT:	LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	
DESIGNED BY:	APPROVED BY:	DATE:
ENG.ZAIN ARSHAD		MARCH, 2024
DRAWN BY:	JOB NO.	SCALE:
MATHEW SIMON		N.T.S
DRG. NO.	ST-20	



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

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

ELECTRICAL

LIST OF DRAWINGS

S.NO.	DRAWING TITLE	DRG. NO
ELECTRICAL DRAWINGS		
1	LIST OF DRAWING	EL-00
2	GENERAL NOTES	EL-01
3	MOUNTING HEIGHT OF FIXTURE DETAIL DETAIL	EL-02
4	LEGEND AND SYMBOLS	EL-03
5	EARTHING DETAIL	EL-04
6	DISTRIBUTION BOARD DB-CAFETERIA	EL-05
7	GROUND FLOOR LIGHTING LAYOUT	EL-06
8	GROUND FLOOR POWER LAYOUT	EL-07

ADDITION & REVISION					
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PROJECT: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE: LIST OF DRAWING	DESIGNED BY: ENG.SHADAB
	APPROVED BY:
	DATE : MARCH, 2024
	DRAWN BY: ENG.AHMAD
	JOB NO.
	SCALE: N.T.S
	DRG. NO. EL-00

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 SYSTMS, 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 UPTO 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
CEILING FAN	96 INCHES
EXHAUST FAN	REFER ARCH. DRGS.

ADDITION & REVISION					
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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:	APPROVED BY:	DATE :
ENG.SHADAB		MARCH, 2024
DRAWN BY:	JOB NO.	SCALE:
ENG.AHMAD		N.T.S
DRG. NO.	EL-01	

LIGHTING AND POWER

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

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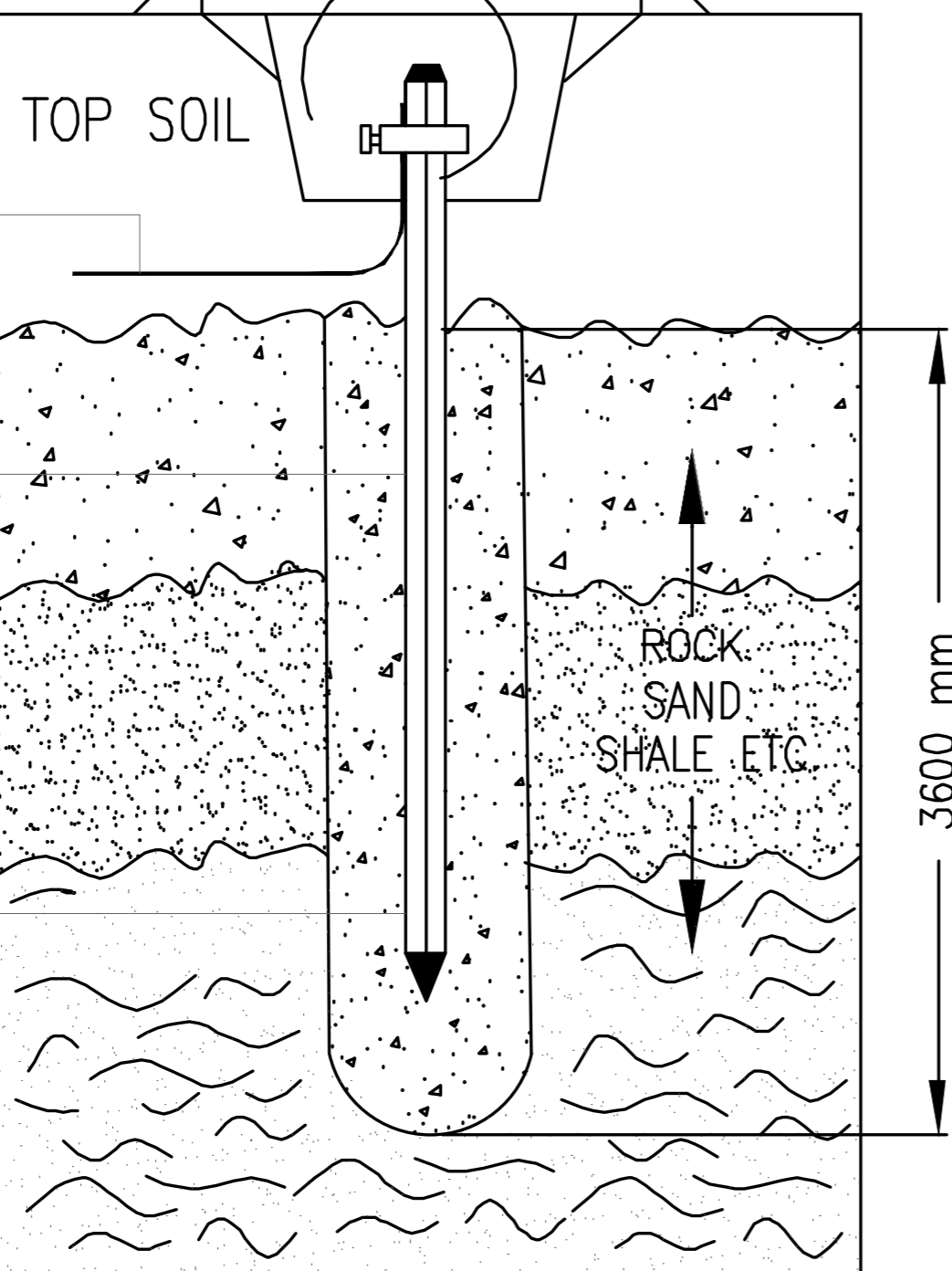
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PROJECT: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE: LEGEND AND SYMBOLS	DESIGNED BY: ENG.SHADAB
	APPROVED BY:
	DATE : MARCH, 2024
	DRAWN BY: ENG.AHMAD
	JOB NO.
	SCALE: N.T.S
	DRG. NO. EL-02

CRIII INSPECTION PII

DETAIL "B"

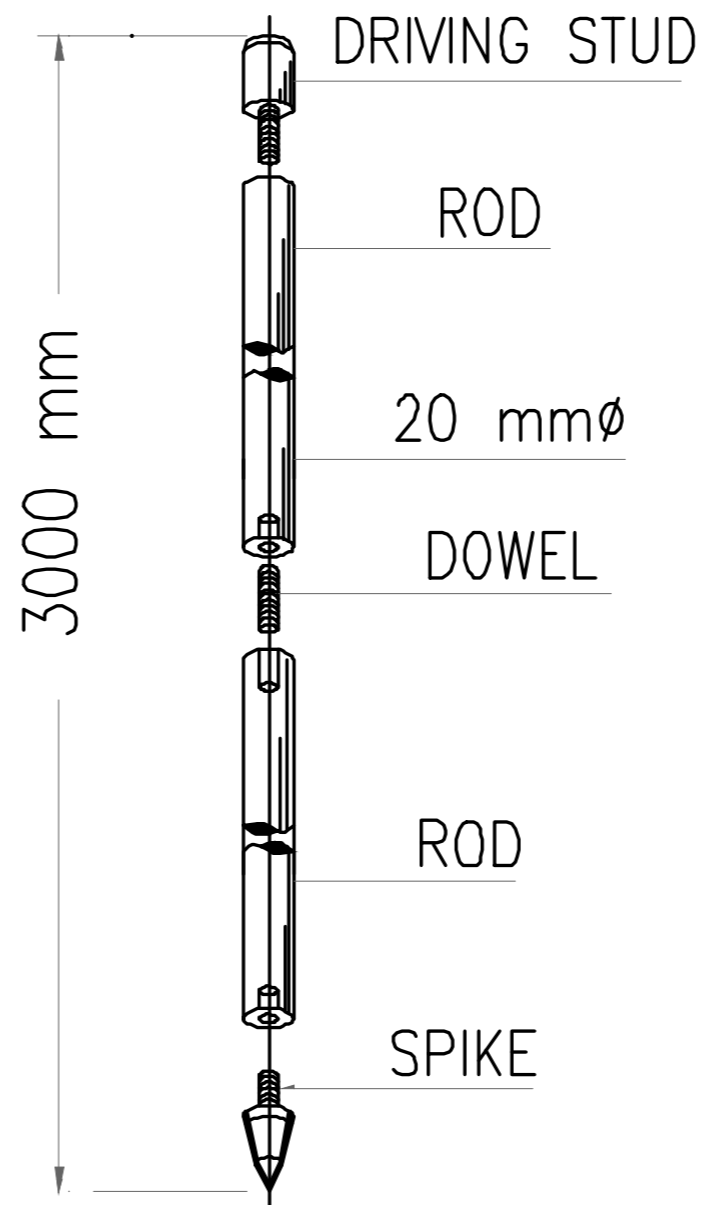
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COPPER
CONDUCTOR



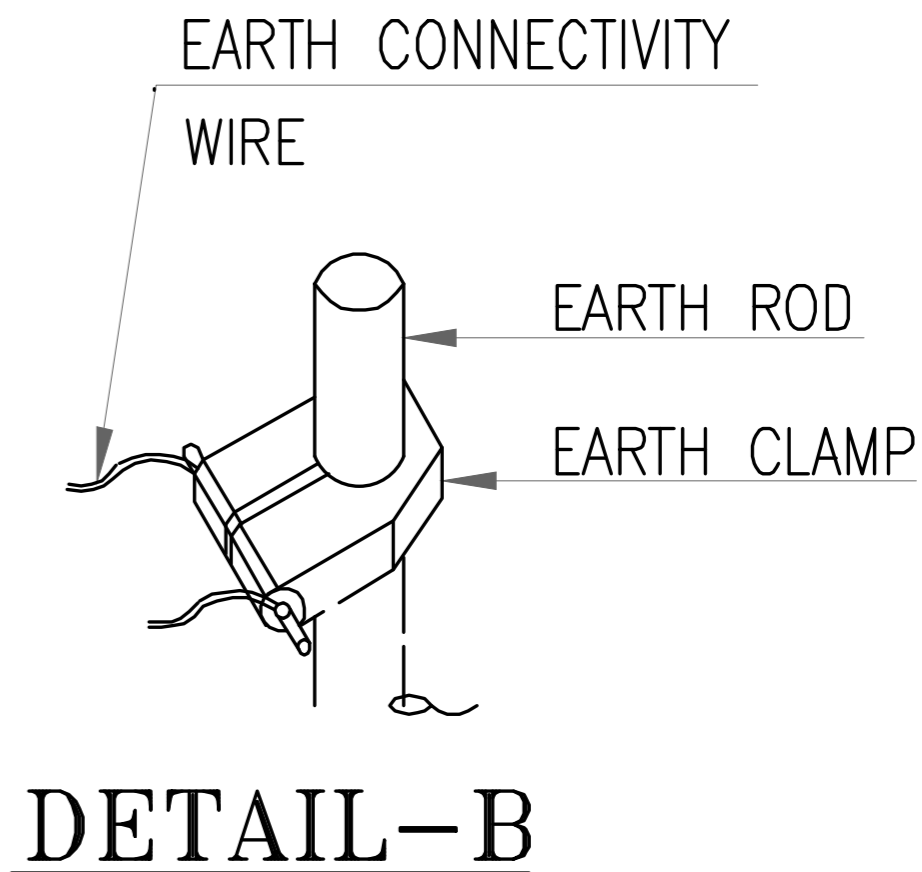
MARCONITE
CONCRETE

EARTH ROD
ELECTRODE

EARTH ROD
INSTALLATION
DETAIL



EARTH
ELECTRODE
COPPER
ROD



DETAIL-B

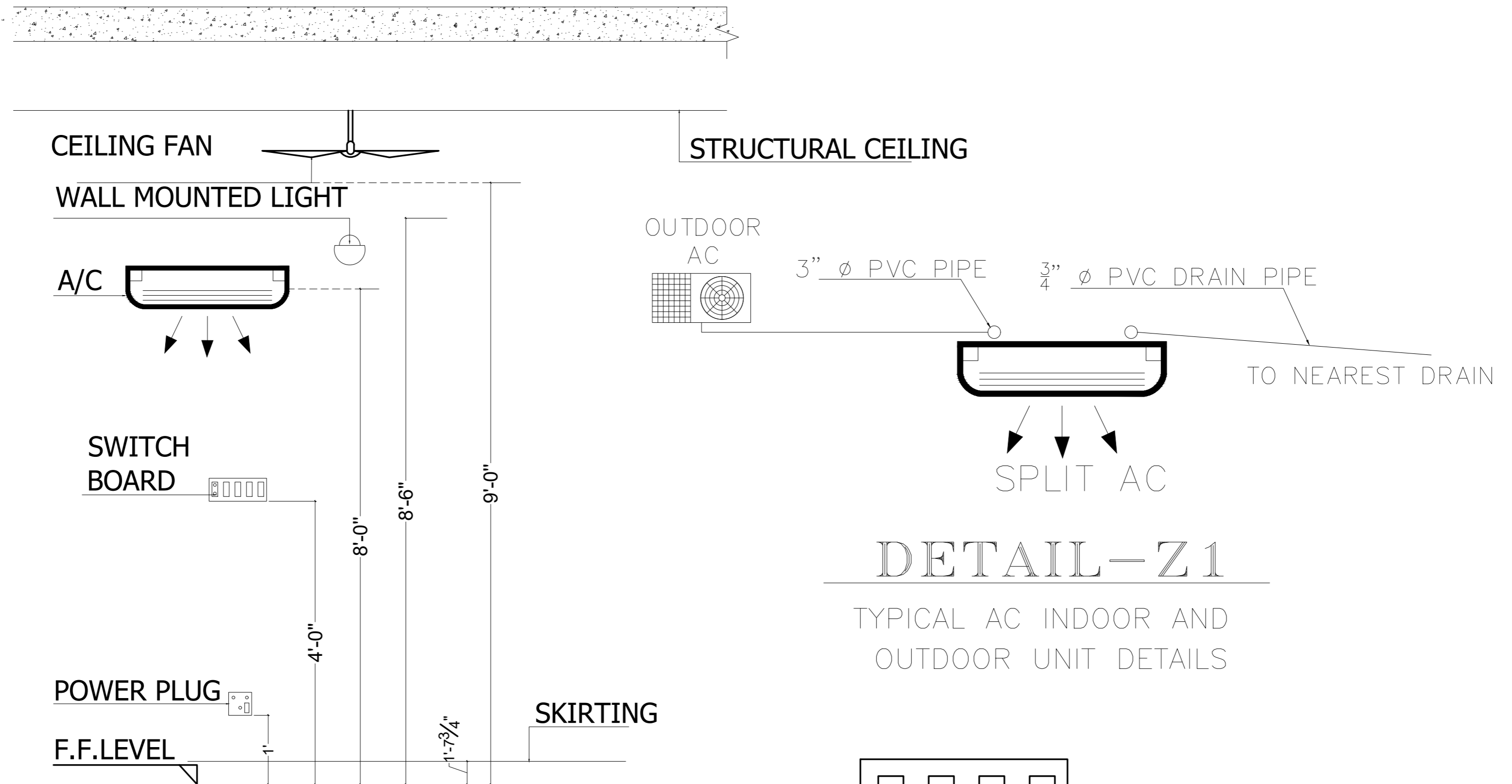
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PROJECT:
 UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING
 SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE
 JAMSHORO
 TITLE:
EARTHING DETAIL

CLIENT:
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH
 SCIENCE JAMSHORO**
 DESIGNED BY: ENG.SHADAB
 APPROVED BY:
 DATE: MARCH, 2024
 DRAWN BY: ENG.AHMAD
 JOB NO.
 SCALE: N.T.S
 DRG. NO. EL-03

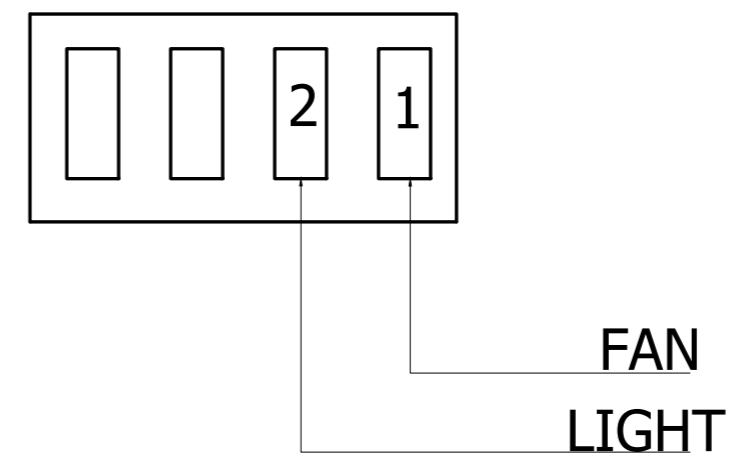


DETAIL-S1

MOUNTING HEIGHT OF FIXTURE DETAIL

DETAIL-Z1

TYPICAL AC INDOOR AND OUTDOOR UNIT DETAILS



NOTE:

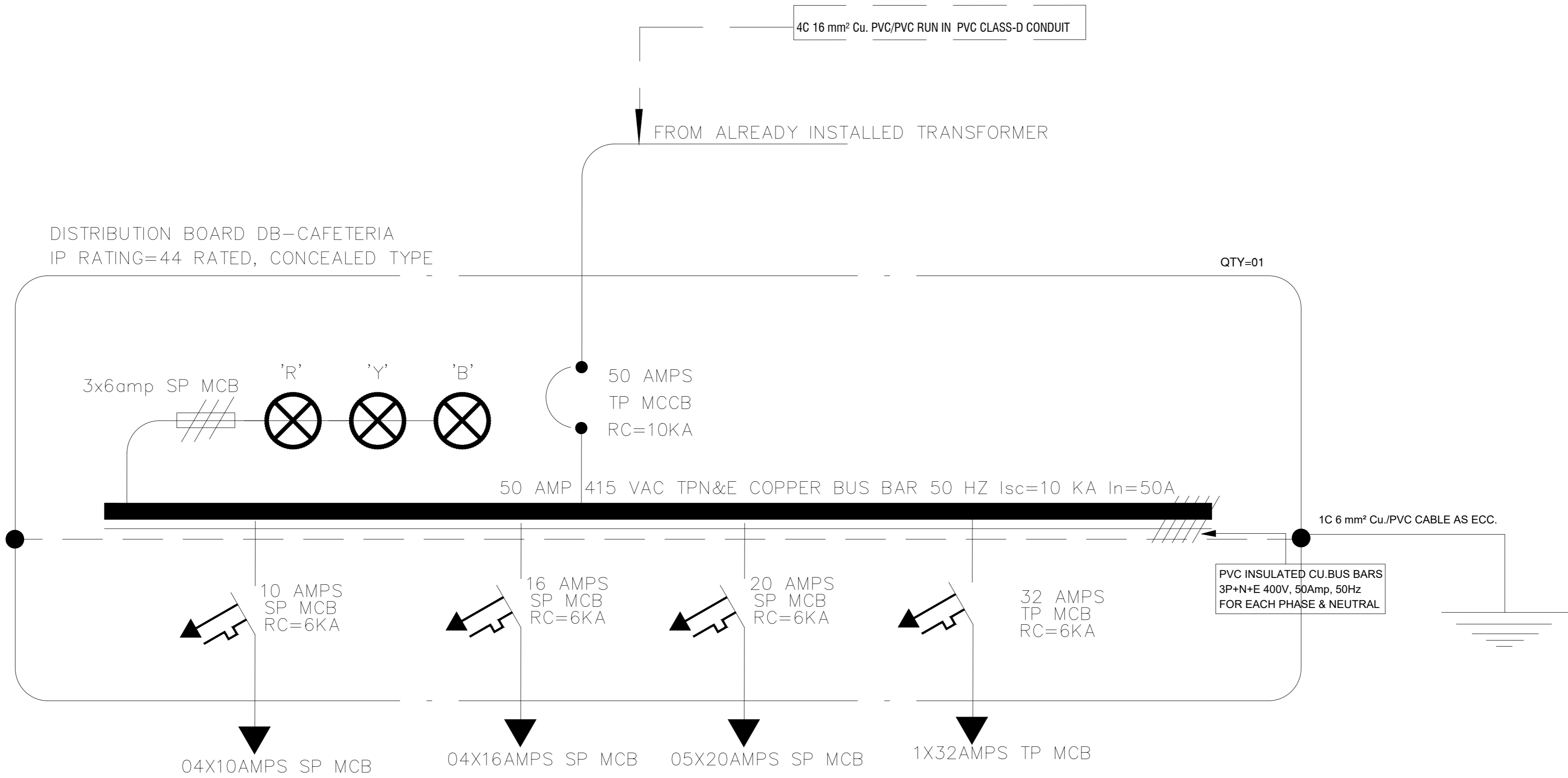
LOCATION OF ACs INDOOR, OUTDOOR UNIT AND ACs POWER SOCKETS IN APARTMENTS AREA ARE TENTATIVE SUBJECT TO FINAL FINISHING DETAIL DECIDED BY CLIENT, ARCHITECT IN CHARGE AND CONCERNED SITE ENGINEER

ADDITION & REVISION					
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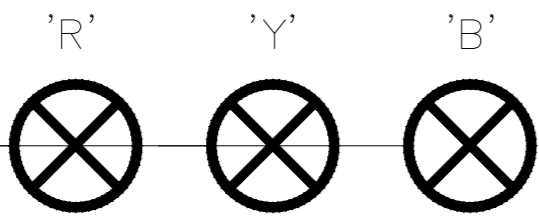
PROJECT: UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO	CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE: TYPICAL DETAILS OF MOUNTING HEIGHT	DESIGNED BY: ENG.SHADAB
	APPROVED BY:
	DATE : MARCH, 2024
	DRAWN BY: ENG.AHMAD
	JOB NO.
	SCALE: N.T.S
	DRG. NO. EL-04



DISTRIBUTION BOARD DB-CAFETERIA
IP RATING=44 RATED, CONCEALED TYPE

QTY=01

3x6amp SP MCB



50 AMPS
TP MCCB
RC=10KA

50 AMP 415 VAC TPN&E COPPER BUS BAR 50 HZ Isc=10 KA In=50A

1C 6 mm² Cu./PVC CABLE AS ECC.

PVC INSULATED CU.BUS BARS
3P+N+E 400V, 50Amp, 50Hz
FOR EACH PHASE & NEUTRAL

10 AMPS
SP MCB
RC=6KA

16 AMPS
SP MCB
RC=6KA

20 AMPS
SP MCB
RC=6KA

32 AMPS
TP MCB
RC=6KA

04X10AMPS SP MCB

04X16AMPS SP MCB

05X20AMPS SP MCB

1X32AMPS TP MCB

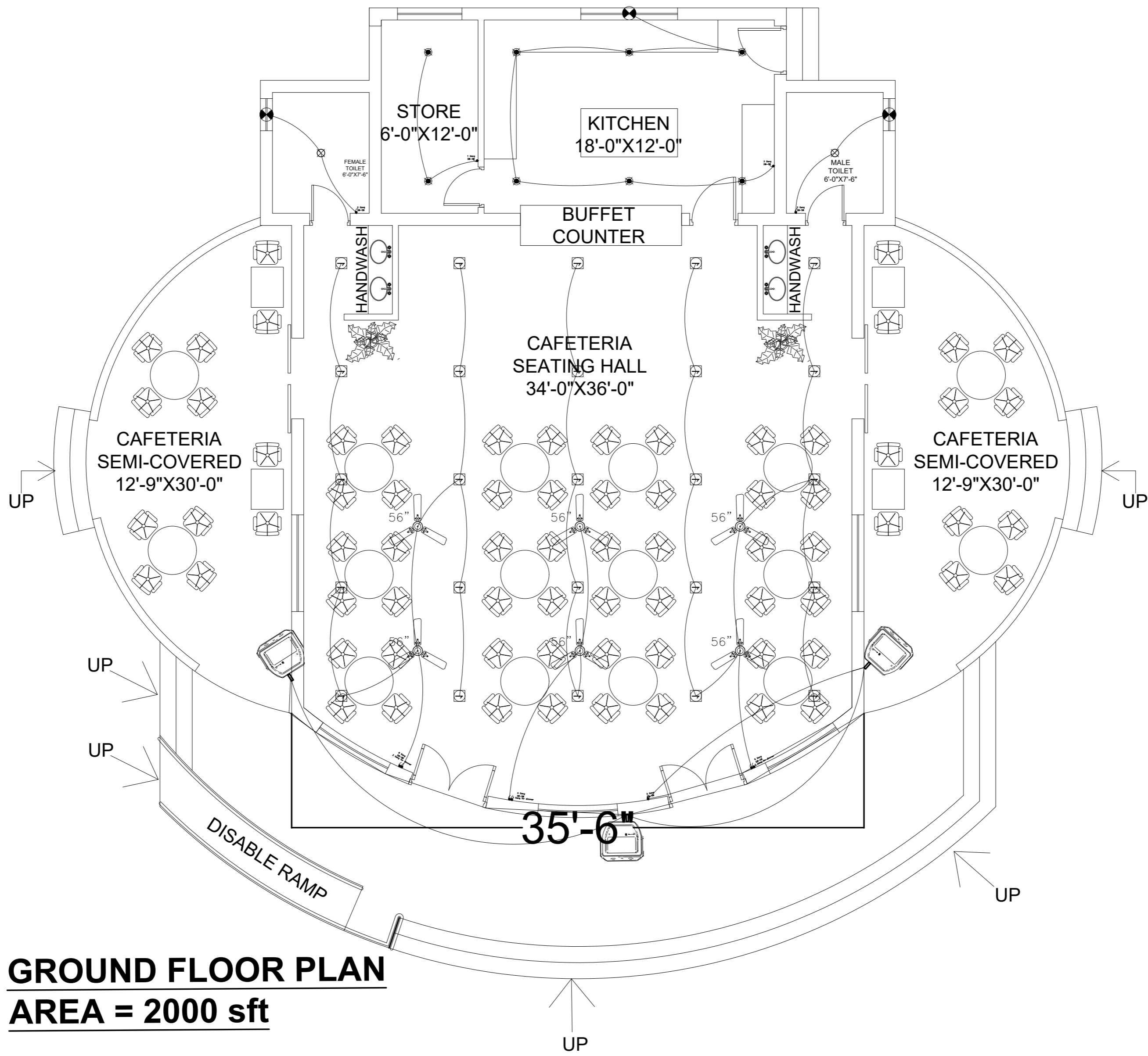
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PROJECT:
UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING
SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE
JAMSHORO
TITLE:
**DISTRIBUTION BOARD
DB-CAFETERIA**

CLIENT:
**LIAQUAT UNIVERSITY OF MEDICAL & HEALTH
SCIENCE JAMSHORO**
DESIGNED BY: ENG.SHADAB
APPROVED BY:
DATE: MARCH, 2024
DRAWN BY: ENG.AHMAD
JOB NO.
SCALE: N.T.S
DRG. NO.
EL-05



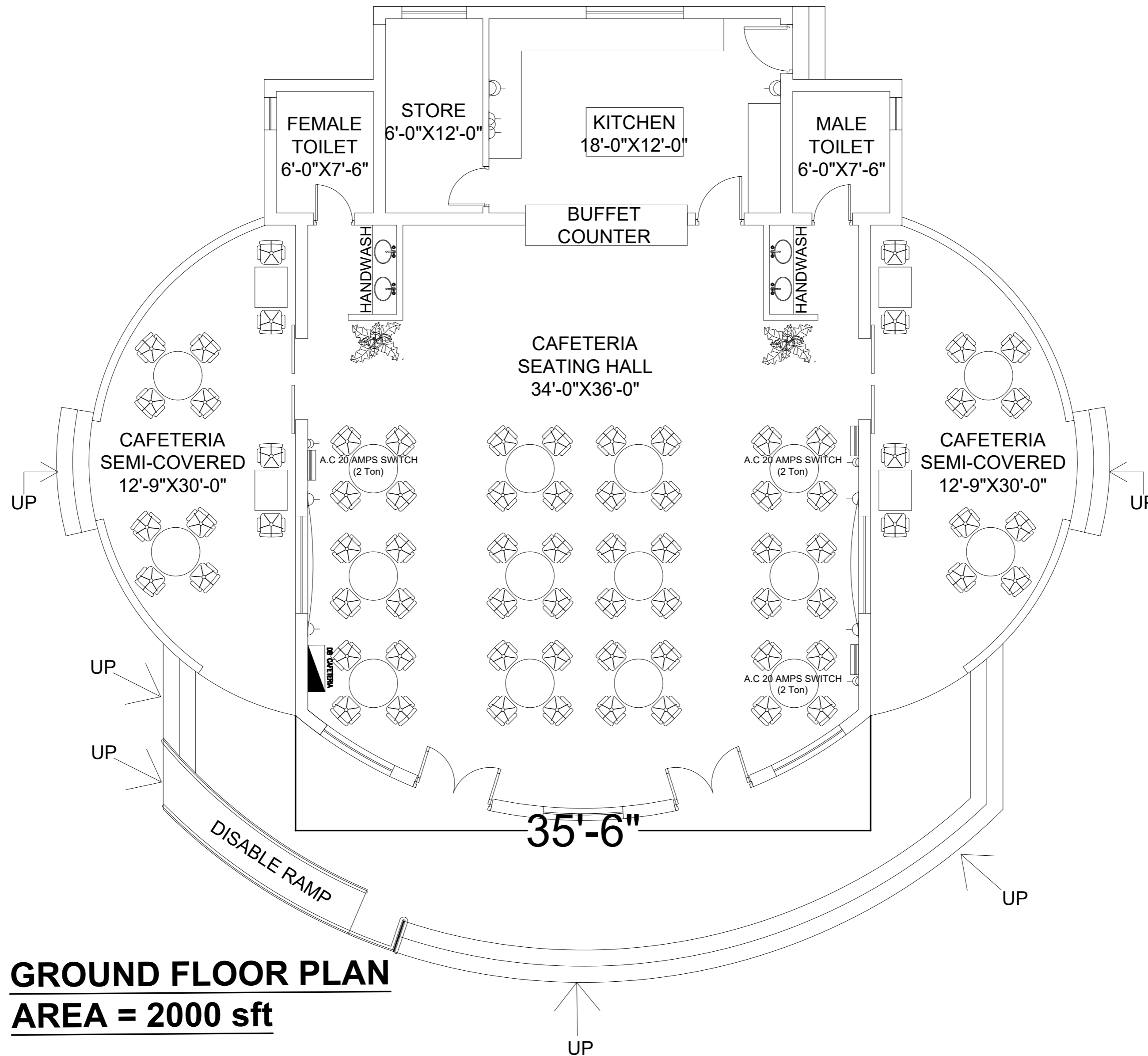
GROUND FLOOR PLAN
AREA = 2000 sft

ADDITION & REVISION				
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	CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO
TITLE: GROUND FLOOR LIGHTING LAYOUT	DESIGNED BY: ENG.SHADAB
	APPROVED BY:
	DATE : MARCH, 2024
	DRAWN BY: ENG.AHMAD
	JOB NO.
	SCALE: N.T.S
	DRG. NO. EL-06



GROUND FLOOR PLAN
AREA = 2000 sft

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



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PROJECT:
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 JAMSHORO

TITLE:
**GROUND FLOOR POWER
 LAYOUT**

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

DESIGNED BY: ENG.SHADAB	APPROVED BY:	DATE : MARCH, 2024
DRAWN BY: ENG.AHMAD	JOB NO.	SCALE: N.T.S
DRG. NO.	EL-07	

**PLUMBING
LUMHS CAFETERIA**

LIST OF DRAWINGS

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

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: **LIST OF DRAWINGS**

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

DESIGNED BY: MATHEW	APPROVED BY:	DATE : MARCH, 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.		PL-00

GENERAL NOTES.

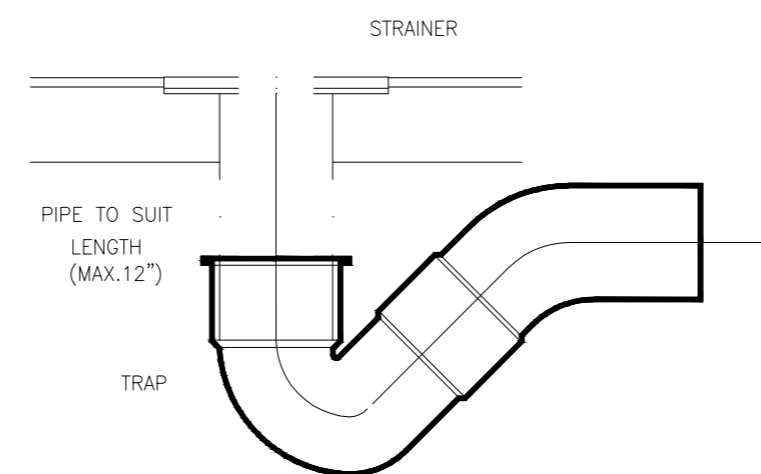
- 1 - PIPE PASSING THROUGH WALL, FLOOR OR ROOF SHALL BE PROTECTED WITH SLEEVES
- 2 - PIPE SIZES & DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE MENTIONED
- 3 - PLUMBING SERVICES, SHALL BE CO-ORDINATED WITH OTHER SERVICES SUCH AS ELECTRICAL, ETC. TO AVOID CONFLIT OR INTERFERENCE WITH THEM.
- 4 - SIZE OF 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

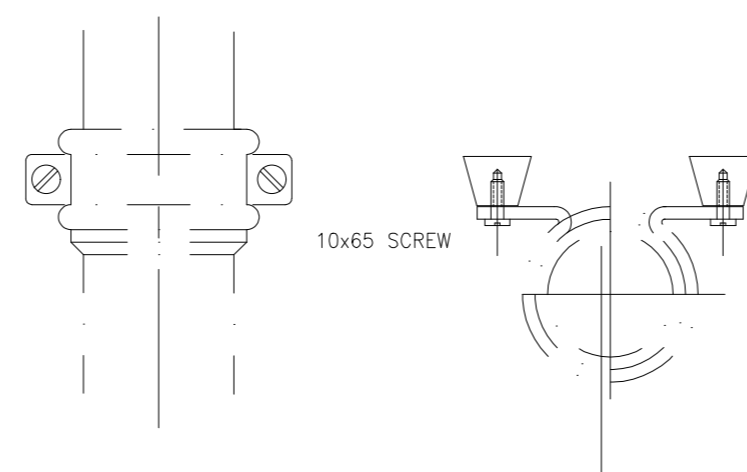
ABBREV.	DESCRIPTION
SP	SOIL PIPE
WP	WASTE PIPE
SS	SOIL STACK
WS	WASTE STACK
VP	VENT PIPE
VS	VENT STACK
T/A	TO ABOVE
F/A	FROM ABOVE
T/B	TO BELOW
F/B	FROM BELOW

TABLE-2

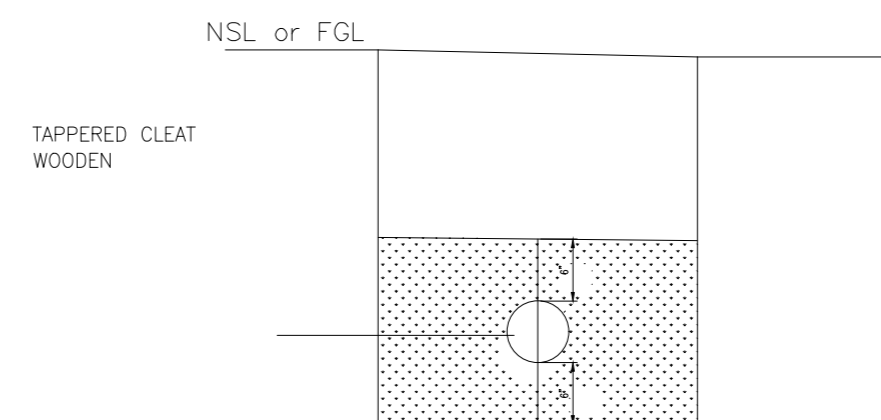
ABBREV.	DESCRIPTION
GV	GATE VALVE
WP	WASTE PIPE
SP	SOIL PIPE
HS	HAND SHOWER
G.T	GULLY TRAP
Gr.T	GREASE INTERCEPTOR
MATHEWT	MULTI FLOOR TRAP
FT	FLOOR TRAP
O.H.W.T	OVERHEAD WATER TANK
U.G.W.T	UNDERGROUND WATER TANK
WC	WATER CLOSD
SH	SHOWER
T/A	TO ABOVE
F/A	FROM ABOVE
T/B	TO BELOW
F/B	FROM BELOW



DETAIL OF FLOOR TRAP
NO SCALE



DETAIL OF PIPE CLAMP
NO SCALE (DIMENSIONS ARE IN mm.)



PIPE TRENCH DETAIL
NO SCALE

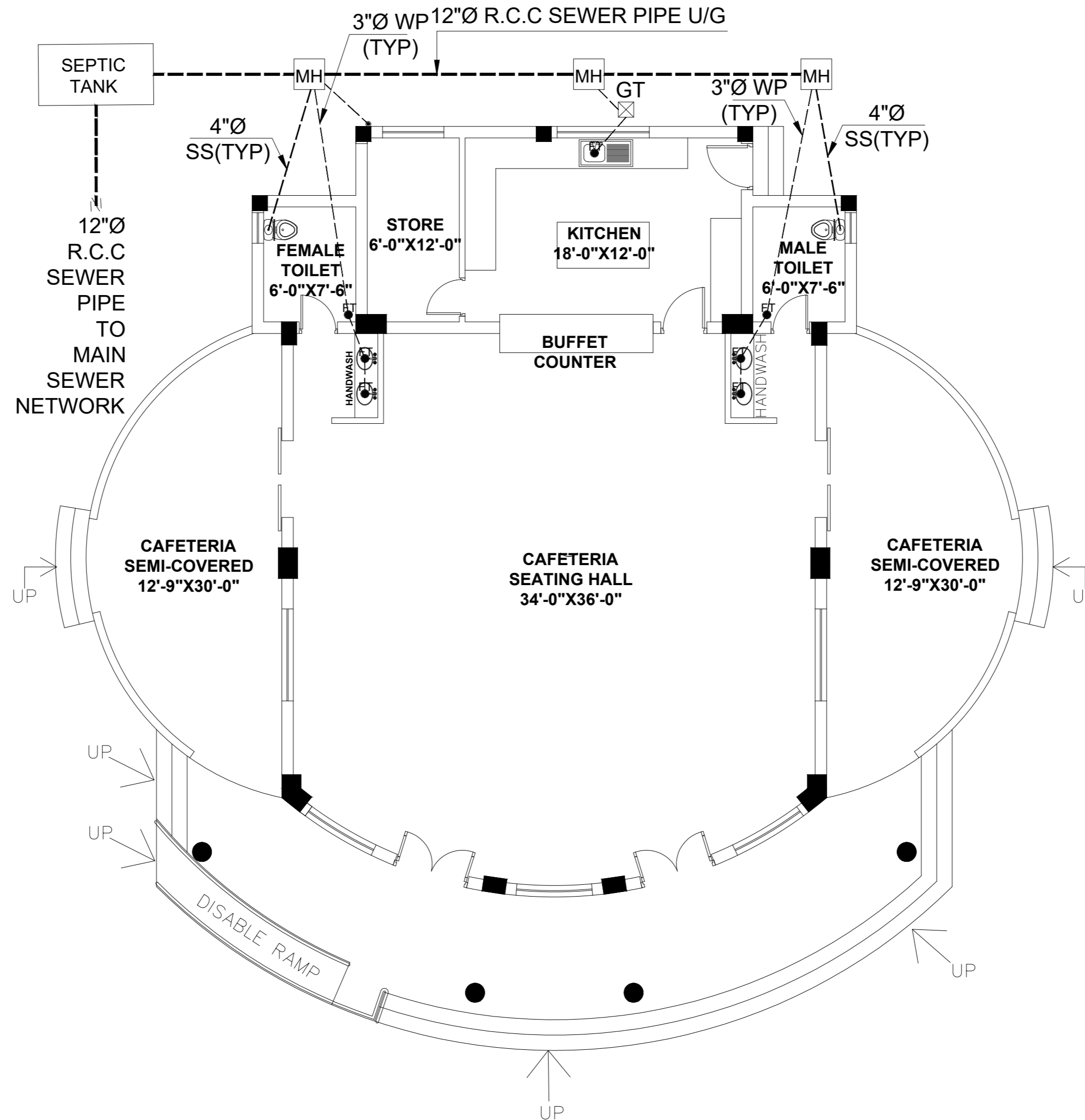
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **GENERAL NOTES**

CLIENT: **LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 DESIGNED BY: MATHEW APPROVED BY: DATE: MARCH, 2024
 DRAWN BY: MATHEW SIMON JOB NO. SCALE: N.T.S
 DRG. NO. PL-01



**GROUND FLOOR PLAN
SANITARY DRAINAGE LAYOUT**

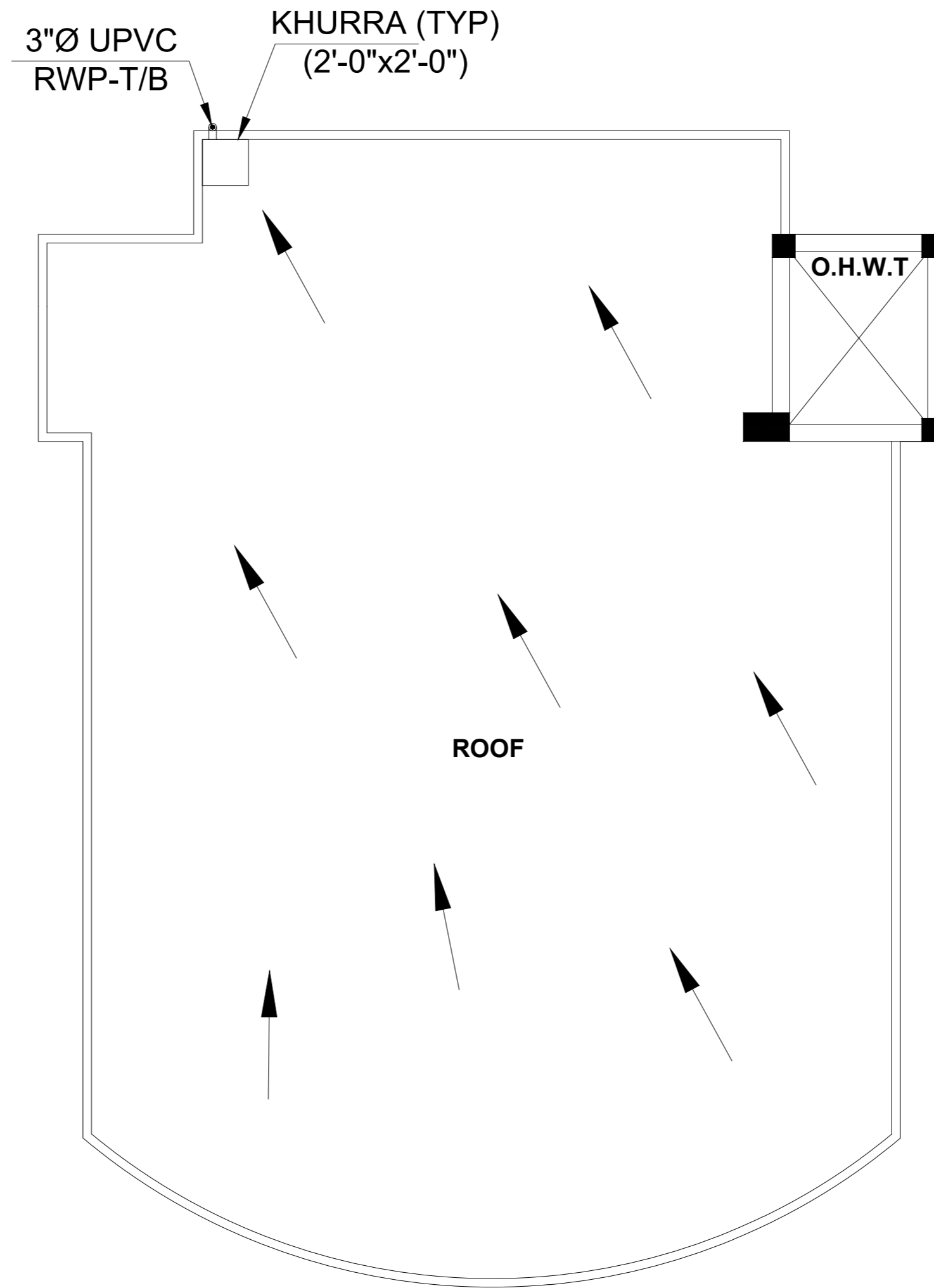
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**
 TITLE: **GROUND FLOOR PLAN SANITARY DRAINAGE LAYOUT**

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: MATHEW	APPROVED BY:	DATE: MARCH, 2024
DRAWN BY: MATHEW SIMON	JOB NO.:	SCALE: N.T.S
DRG. NO.:	PL-02	



ROOF PLAN STORM WATER DRAINAGE LAYOUT

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

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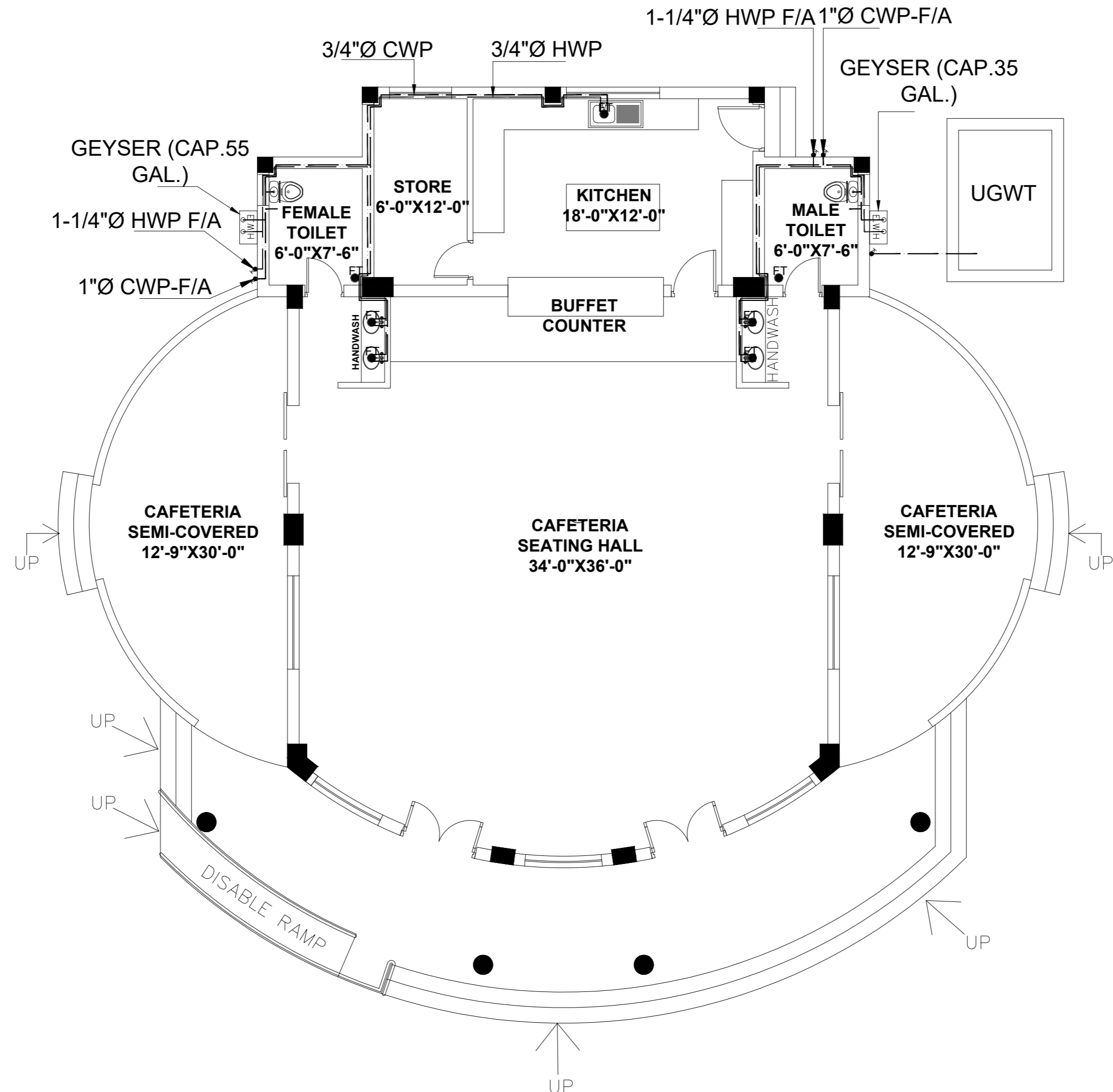


PROJECT:
**UPGRADATION AND IMPROVEMENT OF PEOPLE
 NURSING SCHOOL, LIAQUAT UNIVERSITY OF
 MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE:
**ROOF PLAN
 STORM WATER DRAINAGE
 LAYOUT**

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

DESIGNED BY: MATHEW	APPROVED BY:	DATE : MARCH, 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	PL-03	



**GROUND FLOOR PLAN
STORM WATER
DRAINAGE LAYOUT**

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

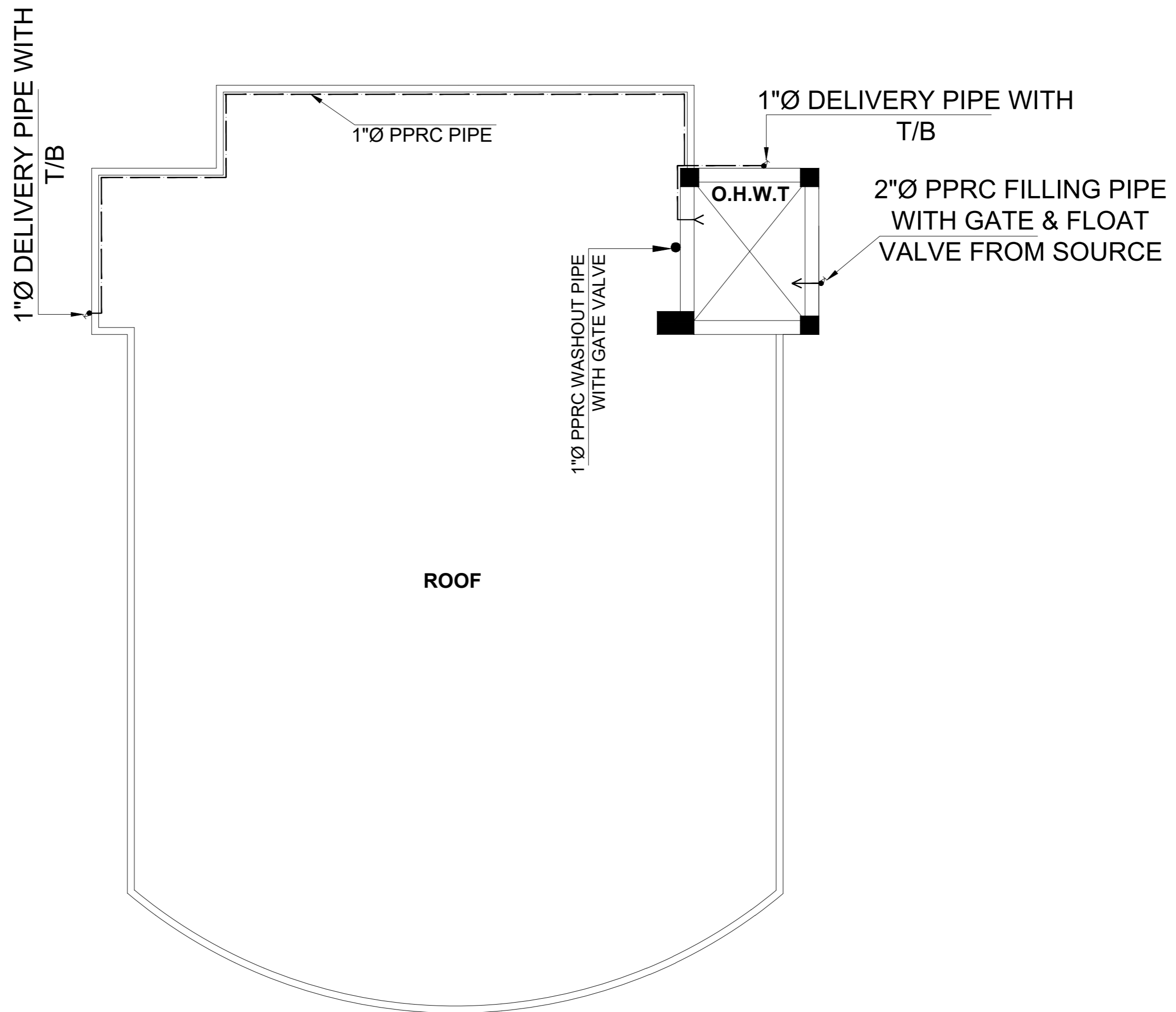
DESIGNER: **NEW VISION ENGINEERING CONSULTANT**
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PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

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

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: MATHEW	APPROVED BY:	DATE: MARCH, 2024
DRAWN BY: MATHEW SIMON	JOB NO.:	SCALE: N.T.S
DRG. NO.:	PL-04	



ROOF PLAN STORM WATER DRAINAGE LAYOUT

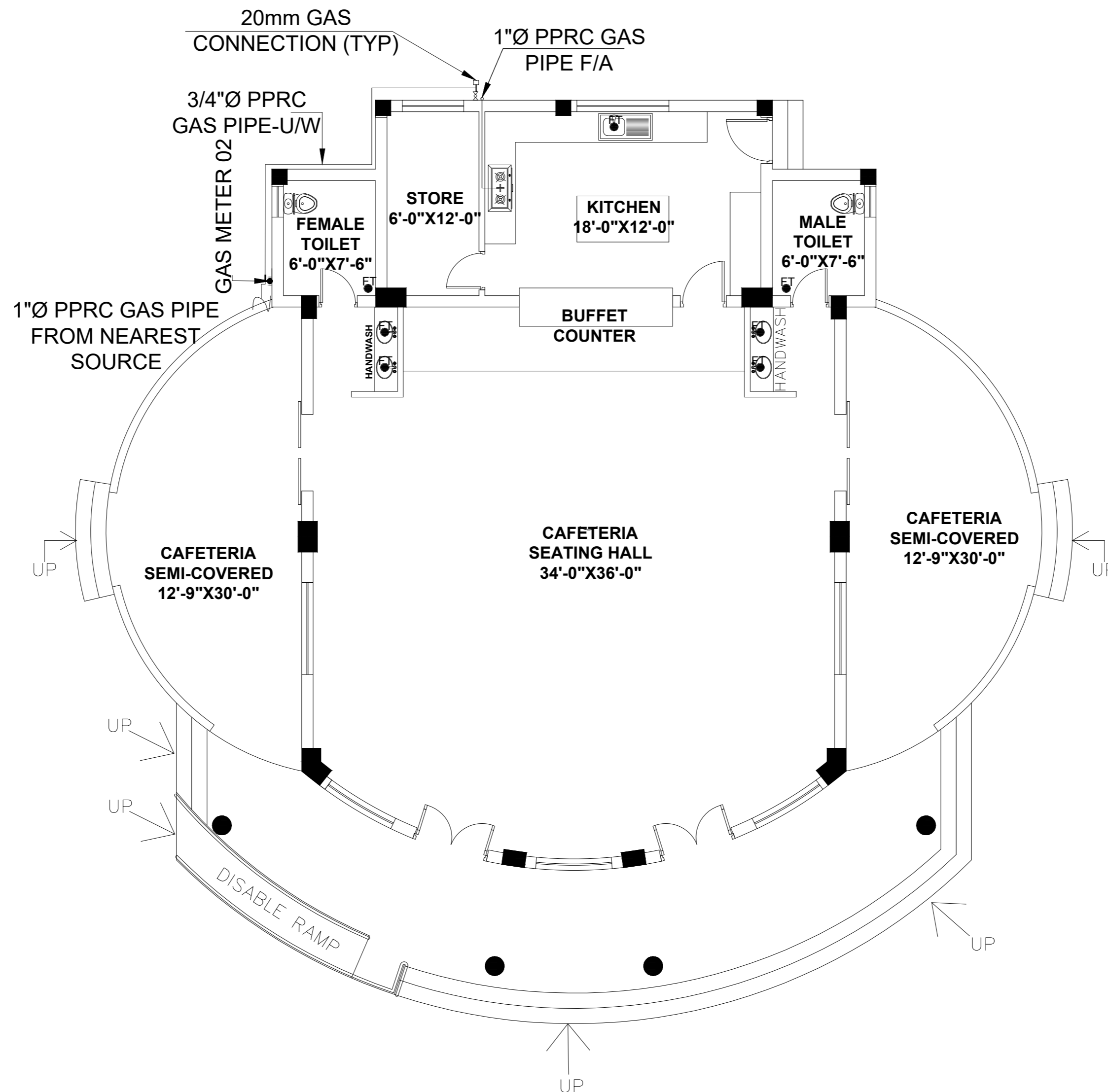
ADDITION & REVISION			
ADD./REV. NO.	DATE	DESCRIPTION	DES. BY / CHK. BY / APP. BY

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

TITLE: **ROOF PLAN WATER SUPPLY LAYOUT**

CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: MATHEW	APPROVED BY:	DATE : MARCH, 2024
DRAWN BY: MATHEW SIMON	JOB NO.:	SCALE: N.T.S
DRG. NO. PL-05		



GROUND FLOOR PLAN
GAS SUPPLY LAYOUT

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

DESIGNER:



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PROJECT:

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

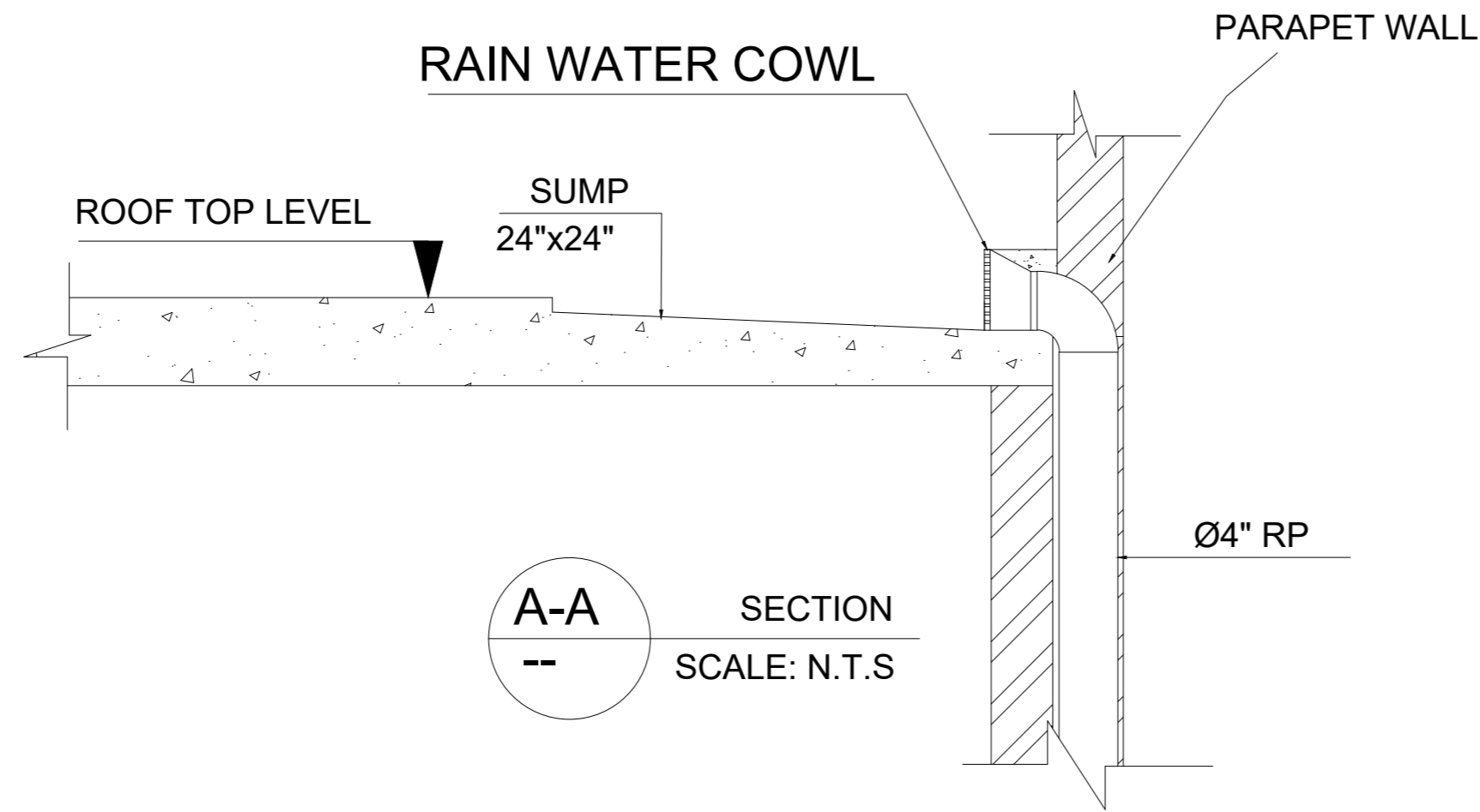
TITLE:

**GROUND FLOOR PLAN
GAS SUPPLY LAYOUT**

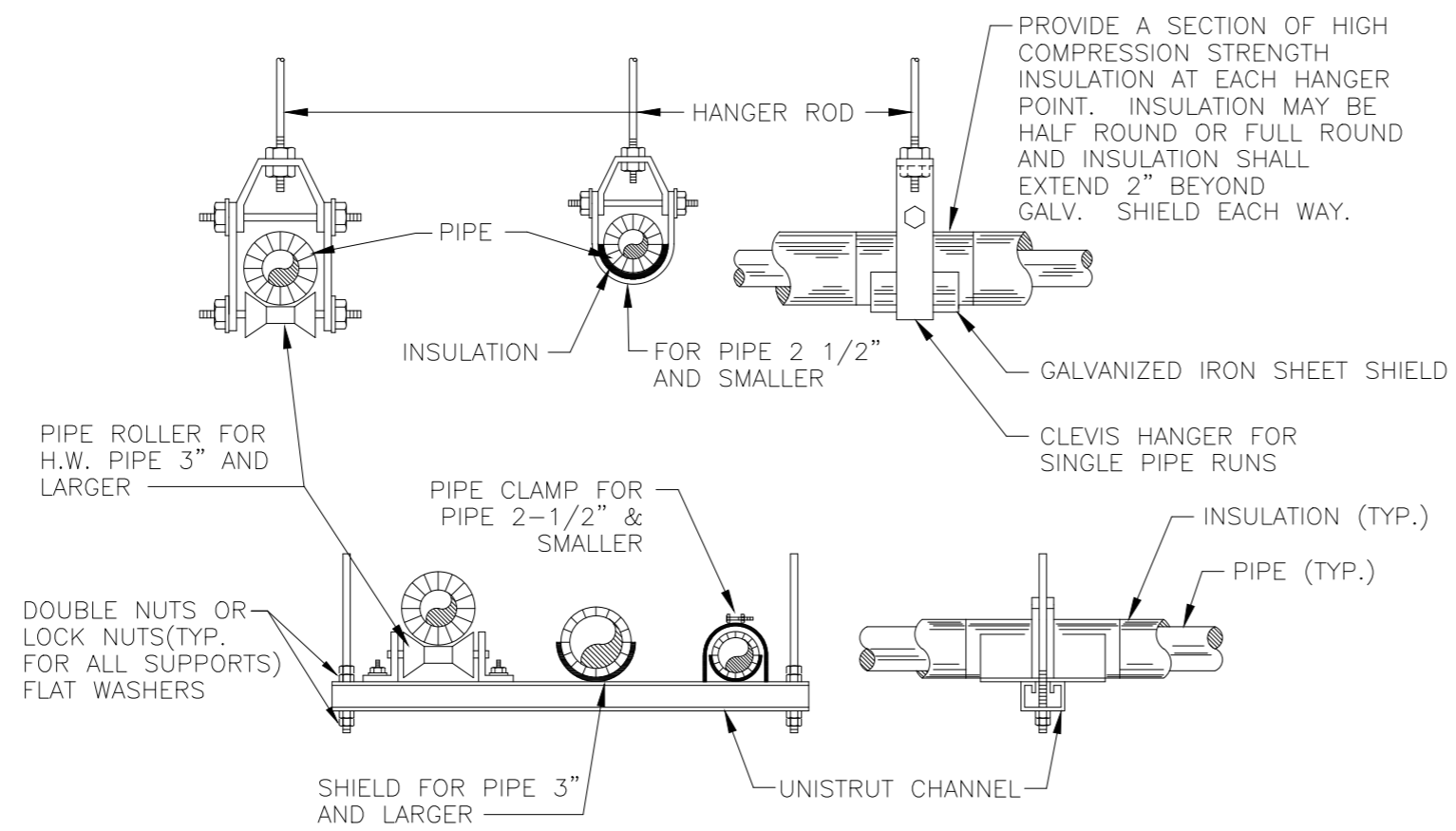
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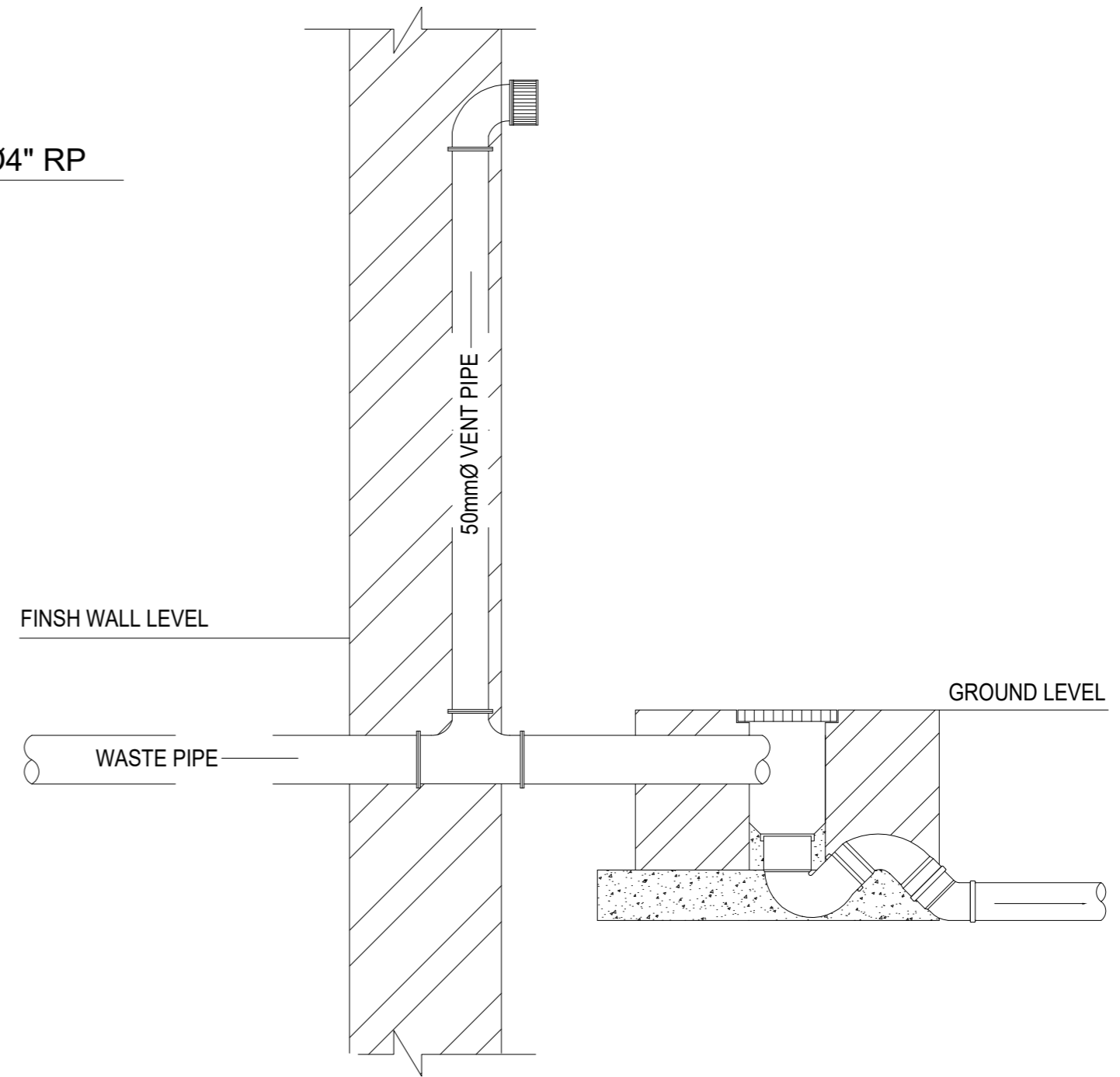
DESIGNED BY: MATHEW	APPROVED BY:	DATE : MARCH, 2024
DRAWN BY: MATHEW SIMON	JOB NO.	SCALE: N.T.S
DRG. NO.	PL-06	



7 DETAIL OF ROOF TOP DRAIN
NO SCALE



8 WATER PIPING HANGERS AND SUPPORTS DETAIL
NO SCALE



DETAIL OF WASTE VENT PIPE

9 DETAIL OF WASTE VENT PIPE
NO SCALE

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

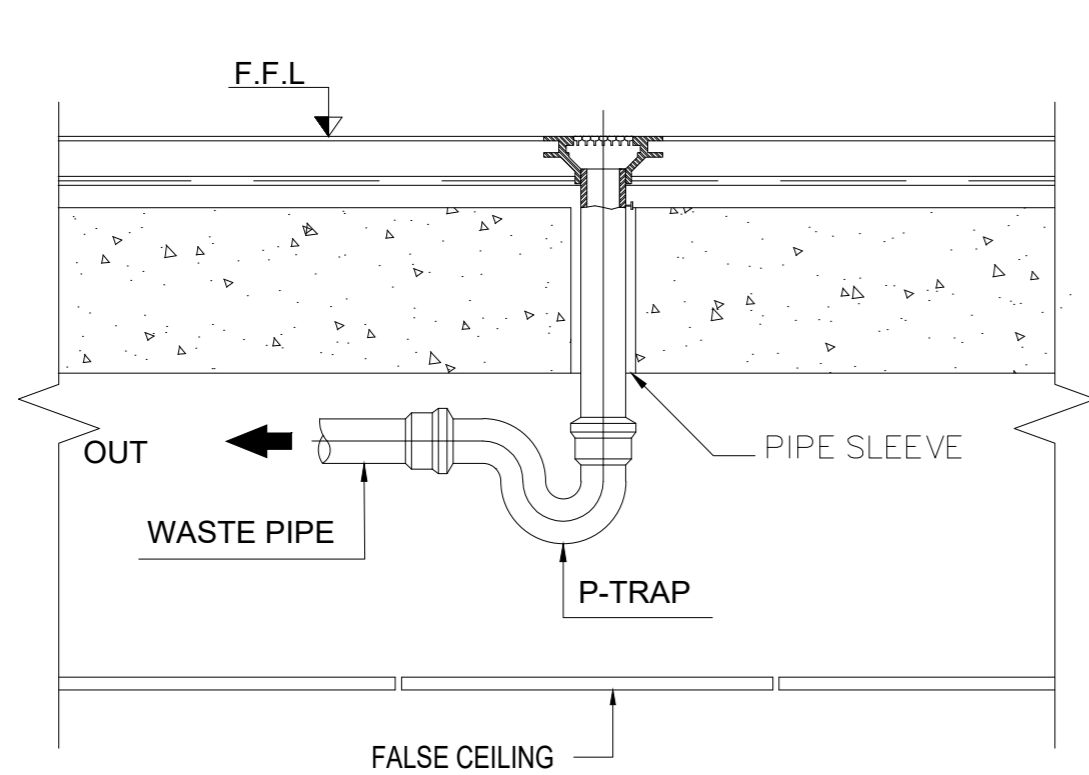


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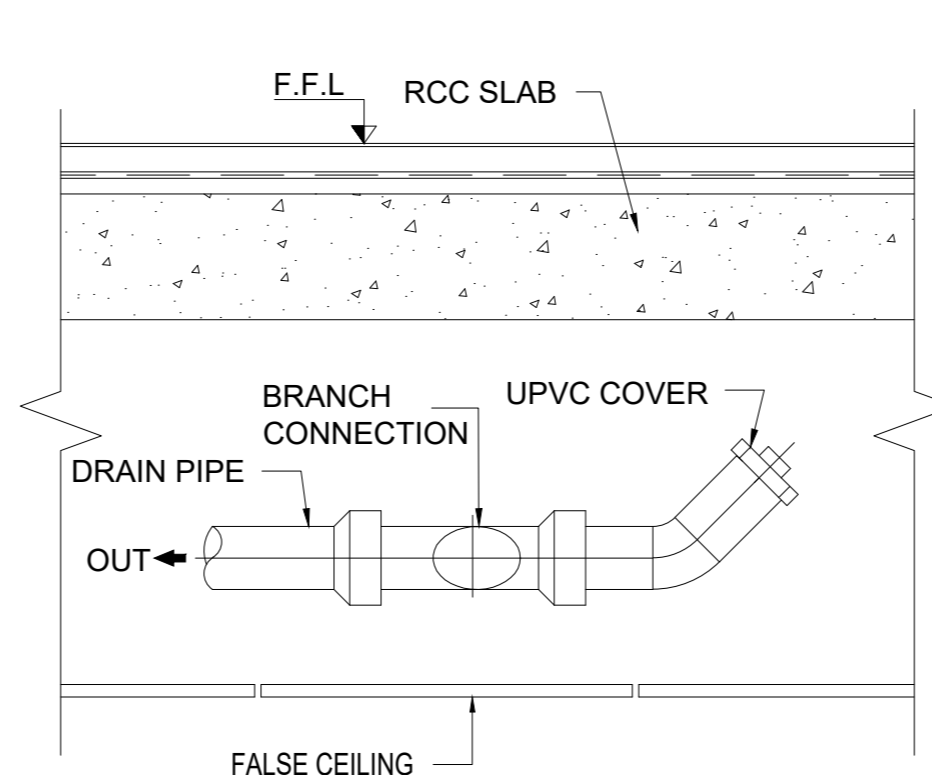
PROJECT: **UPGRADATION AND IMPROVEMENT OF PEOPLE NURSING SCHOOL, LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO**

TITLE: **TYPICAL DETAILS**

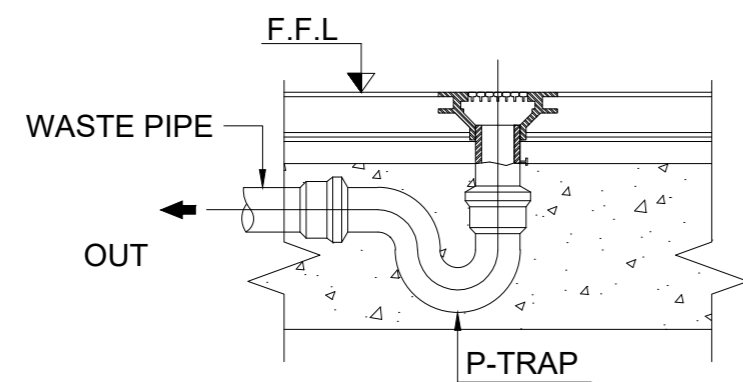
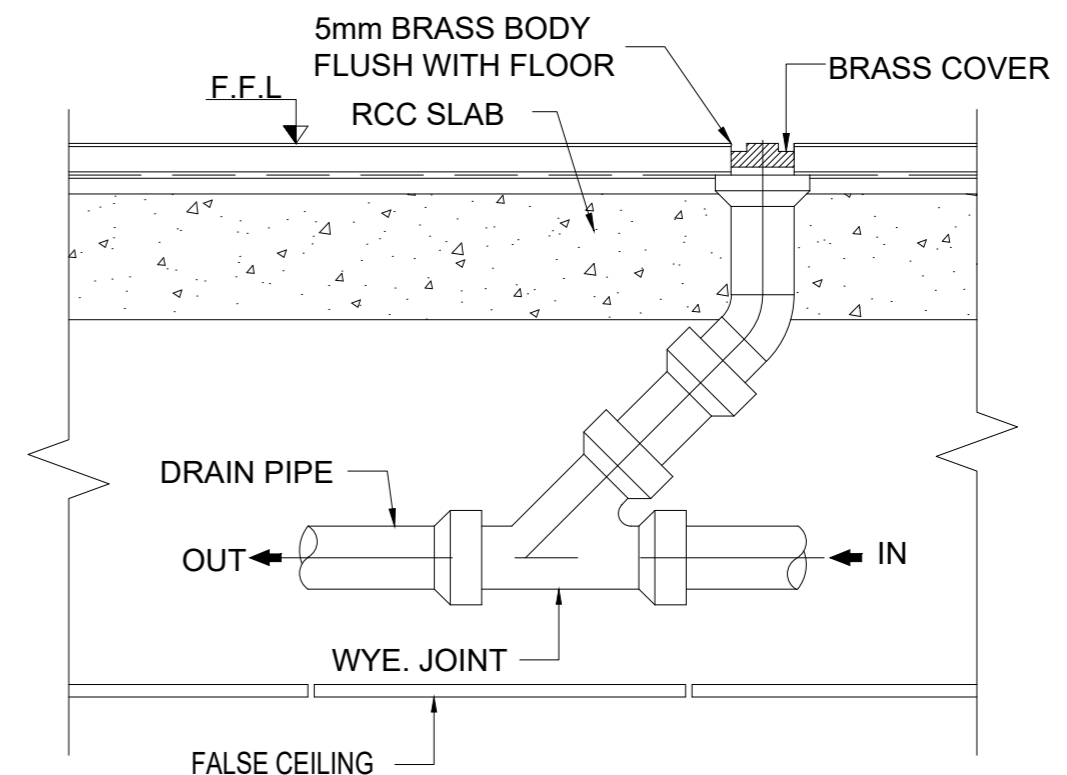
CLIENT: LIAQUAT UNIVERSITY OF MEDICAL & HEALTH SCIENCE JAMSHORO		
DESIGNED BY: MATHEW	APPROVED BY:	DATE: MARCH, 2024
DRAWN BY: MATHEW SIMON	JOB NO.:	SCALE: N.T.S
DRG. NO.:	PL-07	



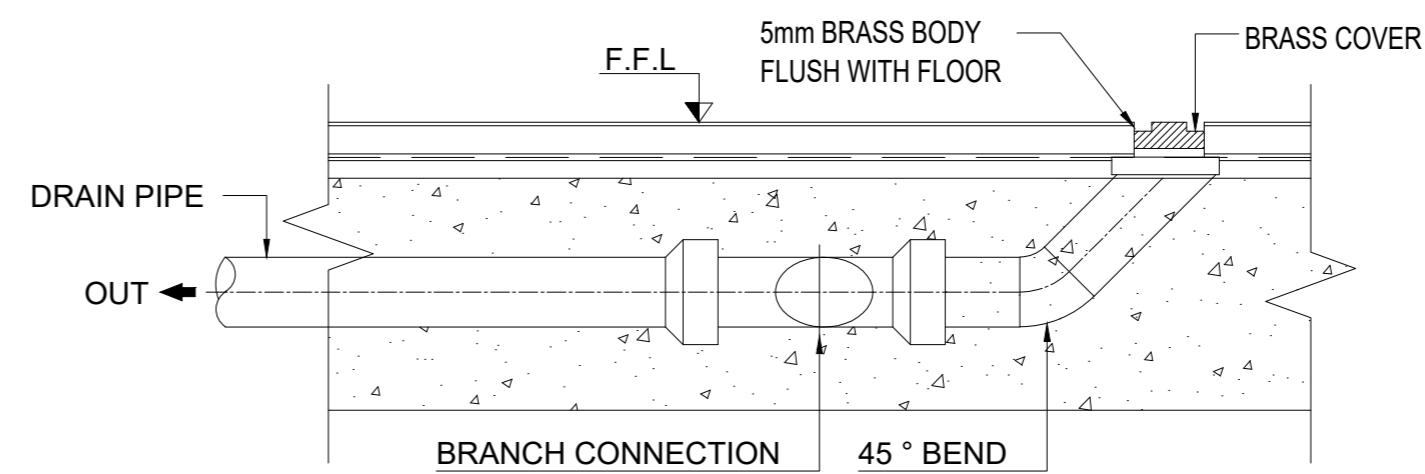
FLOOR DRAIN DETAIL



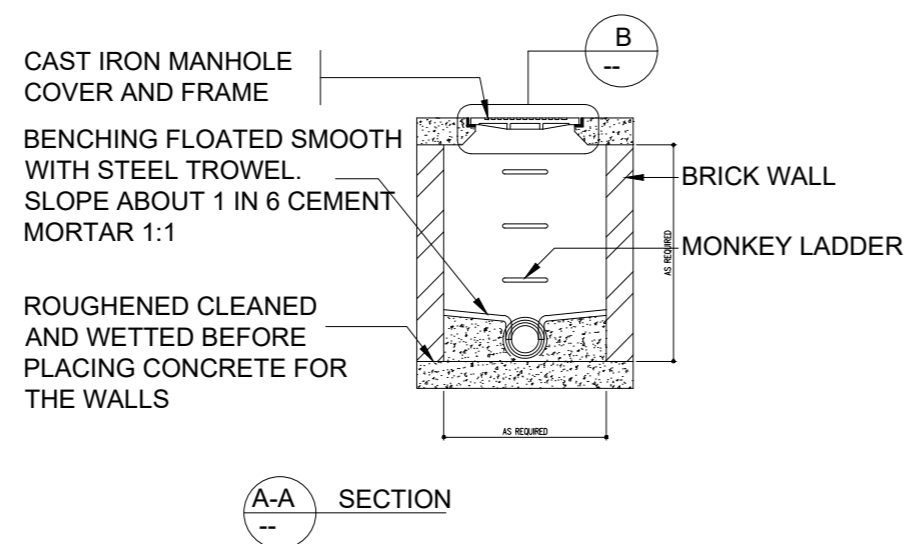
CLEAN OUT PLUG DETAIL



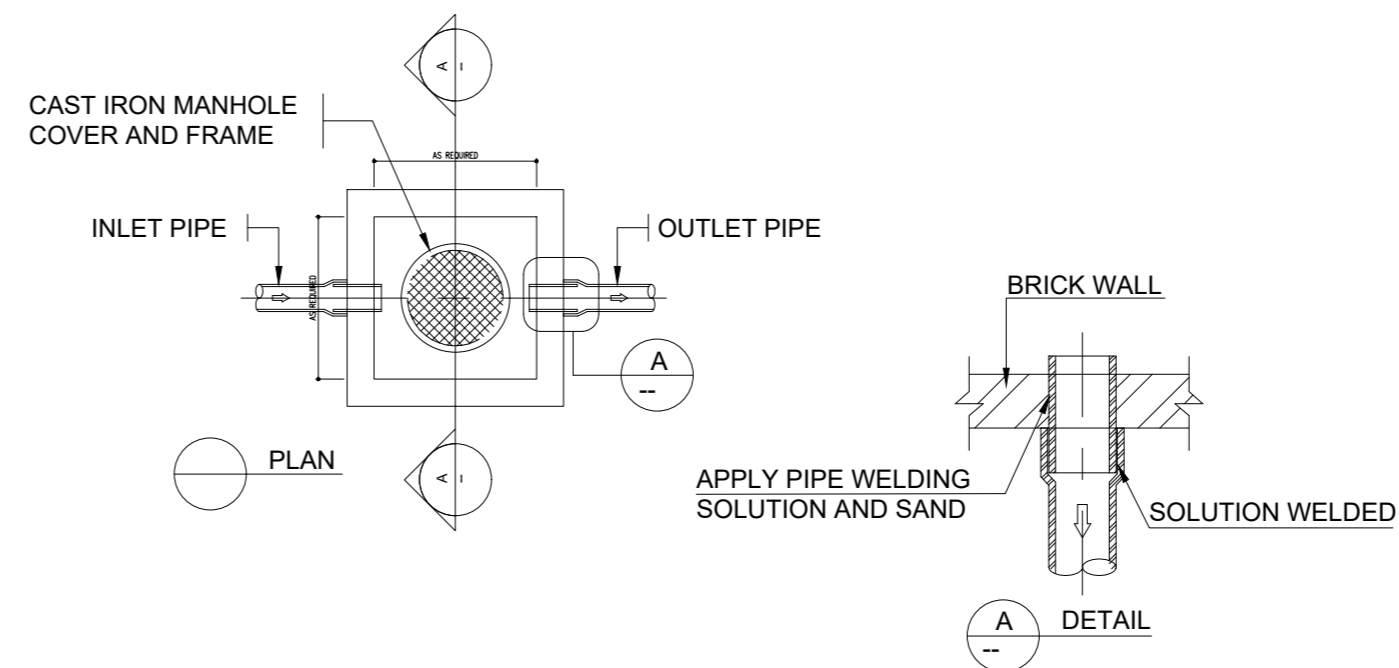
GROUND FLOOR DRAIN DETAIL



GROUND CLEAN OUT PLUG DETAIL



NOTE:-
IF THE MANHOLE EXCEEDED TO 3' DEPTH THEN
WE USE THAT MONKEY LADDER.



MANHOLE DETAIL

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



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PROJECT: UPGRADE 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: MATHEW APPROVED BY: DATE: MARCH, 2024
 DRAWN BY: MATHEW SIMON JOB NO. SCALE: N.T.S
 DRG. NO. PL-08