

EMIS-39978 GGPS-SHAGI BALA NO.02, PESHAWAR

STRUCTURE

CONSTRUCTION DRAWINGS

AUG-2023

# INSTRUCTIONS TO CONTRACTOR

## GENERAL NOTES

**1. SYSTEM OF UNITS**

- a. ALL DIMENSIONS, SPACING ETC. ARE IN INCHES AND FEET
- UNLESS OTHERWISE SPECIFIED.
- b. ALL ELEVATIONS ARE IN INCHES & FEET
- UNLESS OTHERWISE NOTED.

**2. CONCRETE**

- A - FOUNDATION, COLUMN, BEAM & SLAB CONCRETE USED SHALL BE OF (1:1½:3) RATIO WITH MINIMUM COMPRESSIVE CYLINDER STRENGTH AT 28 DAYS SHALL BE 3000 PSI.

**3. REINFORCING STEEL**

- A- ALL REINFORCING STEEL FOR REINFORCED CONCRETE SHALL BE 60,000PSI (GRADE 60) (400MPa) DEFORMED BARS.
- B- THE SHEAR REINFORCEMENT (STIRRUPS) IN ALL BEAMS, COLUMNS SHALL BE 60,000 PSI (400MPa)

**4. CONCRETE PROTECTION TO REINFORCEMENT**

MINIMUM CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOWS UNLESS OTHERWISE SPECIFIED ON THE DRAWING.

**4. LAP LENGTH**

UNLESS OTHERWISE STATED ON THE DRAWING, THE FOLLOWING LAP LENGTHS SHALL BE PROVIDED.

Bar Dia	$f_y=60,000$ psi	Length of Lap Splice
1/4"	$f_c=3000$ Psi.	12"
3/8"		22"
1/2"		30"
5/8"		38"
3/4"		45"
1"		60"

**5. LEVELS**

THE LEVELS SHOWN ON STRUCTURAL DRAWINGS ARE STRUCTURAL FLOOR LEVELS. COORDINATE LEVELS WITH ARCHITECTURAL DRAWINGS

**6. LOCAL ADJUSTMENT**

LOCAL ADJUSTMENT TO ACCOMMODATE FIXTURES/FEMBEDMENTS OPENINGS MAY BE MADE AT SITE BUT SUBJECT TO THE APPROVAL OF THE ENGINEER, AS LONG AS IT WOULD NOT MATERIALLY EFFECT THE DESIGN.

**7. TOLERANCES AND DIMENSIONS**

BEFORE THE FORM WORK IS LAID AT SITE THE CONTRACTOR MUST VERIFY AND CHECK OVER ALL DIMENSIONS/ELEVATION OF THE STRUCTURE GIVEN IN THE STRUCTURAL DRAWINGS TO SEE IF THE FINISHED DIMENSION ELEVATION GIVEN ON THE DRAWING FULLY AFTER PROVIDING THE REQUIRED FINISH. THE ENGINEER REPRESENTATIVE SHALL VERIFY THE MEASUREMENT OF STRUCTURAL SIZES AND ELEVATION BE RECORDED IN RELEVANT POUR STEPS TO BE PUT UP BY THE CONTRACTOR AND TO BE APPROVED BY THE ENGINEER BEFORE EXECUTION PERMISSION TO PROCEED, SHALL NOT BE GRANTED IF DEVIATIONS ARE MORE THAN PERMISSIBLE TOLERANCES.

**8. DEVELOPMENT LENGTH (ACI 21.5.4)**

ALL WIRE MESH REINFORCEMENT SHALL BE LAPPED AT LEAST 2 MESH PANELS AND SECURELY TIED. ALL REINFORCING DEVELOPMENT LENGTHS SHALL BE TENSION DEVELOPMENT LENGTHS IN ACCORDANCE WITH THE CURRENT ACI 318 UNLESS NOTED OTHERWISE. REFER TO SCHEDULE BELOW.

(Development length of straight deformed bars or wires, including all modification factor must not be less than 12")

BAR DIA	DEVELOPMENT LENGTHS (STRAIGHT BARS)	STANDARD HOOKS)
#2	12"	6"
#3	17"	9"
#4	22"	11"
#5	28"	14"
#6	33"	17"

STRUCTURAL ELEMENT	COVER
FOOTING	2"
COLUMNS & BEAMS	1 ½"
SLABS	3/4"

Sr. NO	SPAN	A
1	Span to 10 ft	0.5"
2	11 to 15 ft	0.75"
3	16 to 20 ft	1.0"
4	21 to 25 ft	1.25"
5	26 to 30 ft	1.50"
6	31 to 35ft	1.75"
7	36 to 40 ft	2.0"
8	41 to 45 ft	2.25"



**KPHCP SCHOOLS PROJECT**

EMIS-59978  
GGFS-SHAGI BALA NO.02,  
PESHAWAR

**SUNJIN ENGINEERING & ARCHITECTURE**

ISSUED FOR CONSTRUCTION

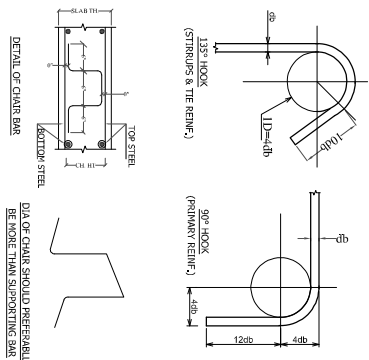
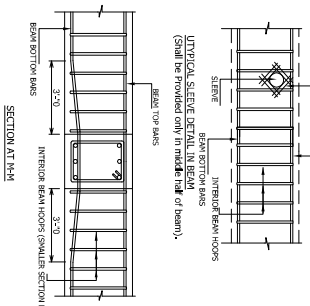
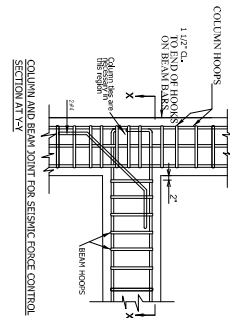
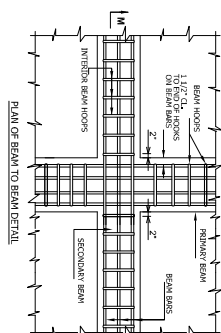
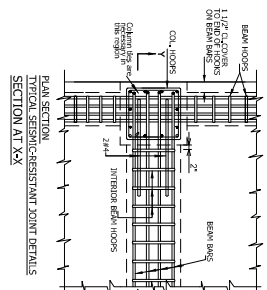
GENERAL NOTES

DATE: Aug. 2023  
SCALE: 1/4"=1'-0"  
DRAWN BY: Engr. Hassan Shuaib  
CHECKED BY: Engr. Anjum Saad  
APPROVED BY: Engr. Anjum Saad  
PROJECT NO: KHALID  
SITE NO: Uman Madras  
ENGINEER: Engr. ADMAN

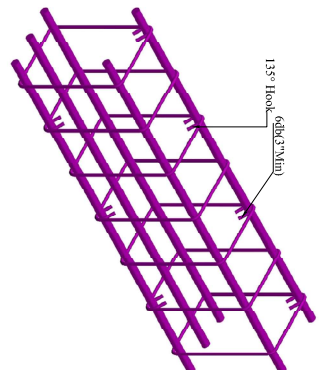


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SHEET NO: 000

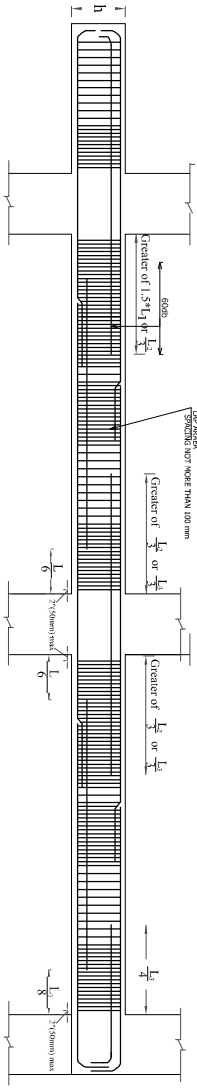
# GENERAL DETAILS



REINFORCEMENT IN LINTELS FOR DOOR, WINDOWS VENTILATORS	TOP REINFORCEMENT	BOTTOM REINFORCEMENT	STIRRUPS
Wall 4 1/2"	2-#3	2-#3	#3@9" C/C
Wall 9"	2-#4	2-#4	#3@9" C/C
Wall 12"	3-#4	3-#4	#3@9" C/C



SEISMIC HOOK DETAIL



**KPESED**  
Kerala Power and Energy Services Development Corporation  
KPESED

**KPHCP SCHOOLS PROJECT**  
EMIS-59978  
GGFS-SHAGI BALA NO.02, PESHAWAR

**SUNJIM**  
NATIONAL ENGINEERING CORPORATION  
ENGINEERING & ARCHITECTURE

**Project Title**: KPHCP SCHOOLS PROJECT  
**Client**: EMIS-59978, GGFS-SHAGI BALA NO.02, PESHAWAR  
**Project No.**: P18830-PC-FR-308  
**Issue Date**: 000

NO.	DESCRIPTION	DATE	APPN.

**Project Team**  
**Engineer**: Egr. Adnan  
**Checked by**: Anjum Saad  
**Drawn by**: Umran Meesaq

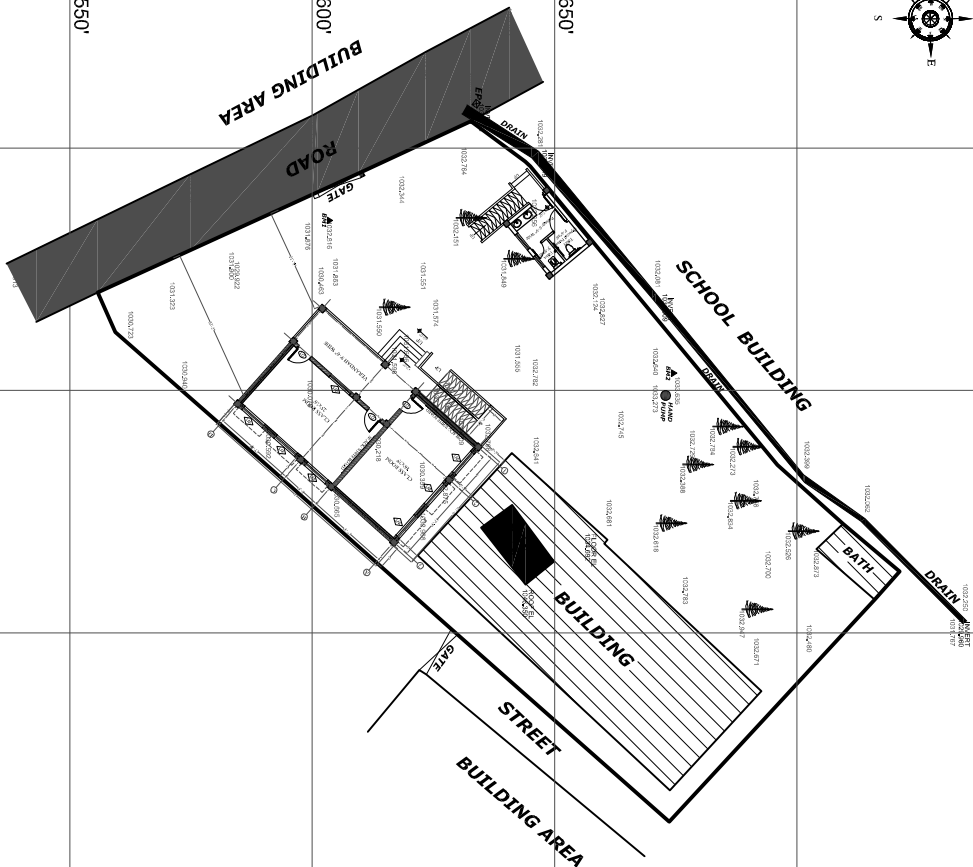
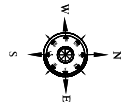


1 2 3 4 5 6

# MASTER LAYOUT PLAN

GGPS SHAGI BALA NO.02 39978 PESHAWER

ACRS-2



## LEGEND

1. BOUNDARY	
2. BUILDING	
3. BATH	
4. TREE	
5. HAND PUMP	
6. DRAIN	
7. GATE	
8. SOLAR PLAT	
9. ROAD	
10. ELECTRIC POLE	
11. BANCH MARK	
12. LEVEL	<b>1032.745</b>

### NOTES

- 1 - ALL DIMENSIONS, ELEVATIONS & COORDINATES ARE IN FEET
- 2 - ALL CONTROL POINTS ARE MARKED WITH RED PAINT.
- 3 - XIS THE PLACE OF SPOT LEVEL.
- 4 - MAIN BENCH MARK IS CP\_1 CO ORDINATES ARE EASTING 2415504.01 NORTHING 12406663.70 AND ELEVATION 1032.745

N=12406550'

N=12406600'

N=12406650'

E=2415400'  
N=12406500'

E=2415450'

E=2415500'

E=2415550'

E=2415600'



**KPHCP**  
SCHOOLS PROJECT

EMIS-59978  
GGPS-SHAGI BALA NO.02,  
PESHAWAR

NOTE

NO.	DESCRIPTION	DATE	APP.

REVISIONS

NEC-SUNJIN JV



**SUNJIN**  
ENGINEERING & ARCHITECTURE

ISSUED FOR CONSTRUCTION

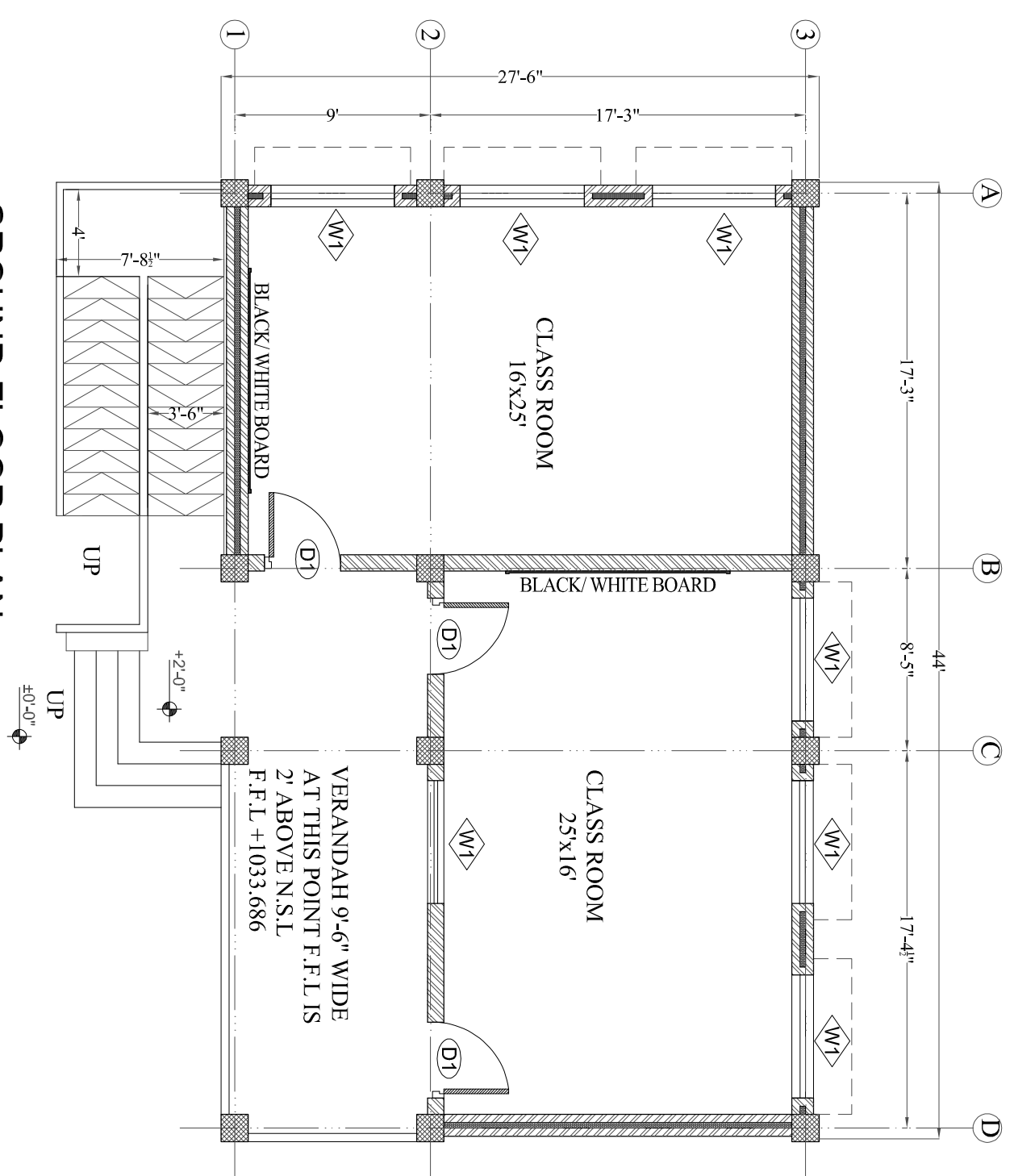
GROUND FLOOD PLAN




DATE	DESIGNED BY
Aug. 2023	Engr Hassan Shuaib
SCALE	CHECKED BY
NONE	Anjum Saheed
COMPILED BY	APPROVED BY
KHALID	Usman Meesaz
ARTICLE REPRESENTATIVE	ENGR. ADMAN

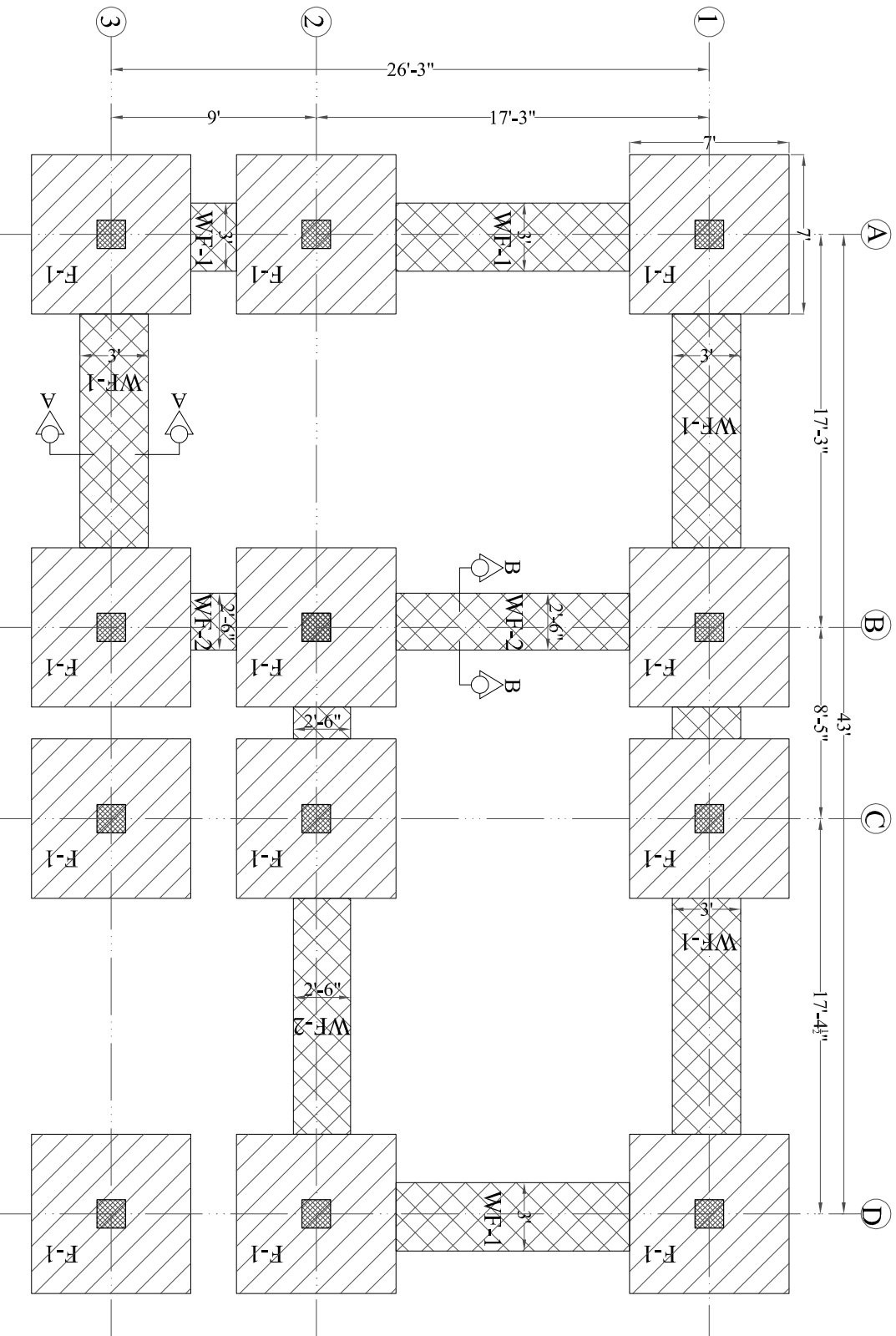
PROJECT NO. P/18830/2023-CP-401

PROJECT NUMBER 000

# GROUND FLOOR PLAN





 <b>KPESED</b> National Engineering Corporation KPESED		 <b>KPH-CP</b> SCHOOLS PROJECT		PROJECT TITLE <b>KPH-CP SCHOOLS PROJECT</b>	
SCHOOL NAME <b>EMIS-59978</b> <b>GGFS-SIAGI BALA NO.02,</b> <b>PESHAWAR</b>		NOTE			
NO. DESCRIPTION DATE APPR.					
REVISIONS					
NEC-SUNJIN JV					
 <b>SUNJIN</b> ENGINEERING & ARCHITECTURE					
NATIONAL ENGINEERING CORPORATION					
ISSUED FOR CONSTRUCTION					
NAME OF DRAWING <b>GROUND FLOOR PLAN</b>					
DATE	DESIGNED BY	CHECKED BY	APPROVED BY		
AUG. 2023	ENGR. HASSAN SHAM	ENGR. ADMAN			
SCALE	PROJECT NO.	CLIENT			
NONE	NONE	ANJUM SHAHID			
CONTRACTOR	PROJECT NO.	PROJECT NAME			
KHALID	URMAN MOSES				
PROJECT NUMBER <b>000</b>					

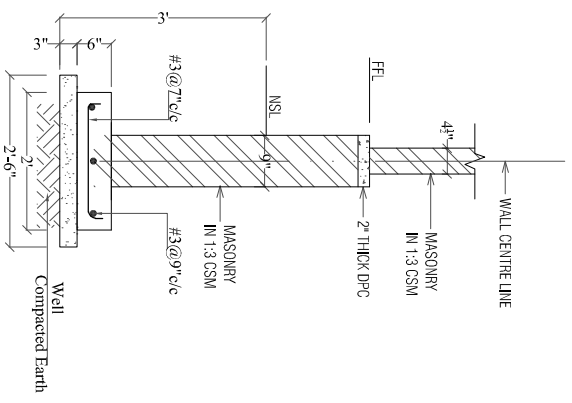
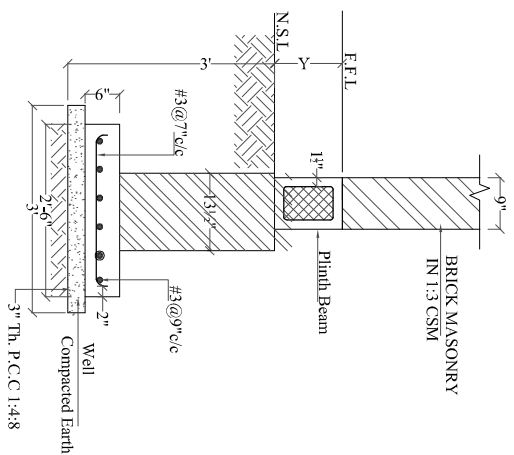
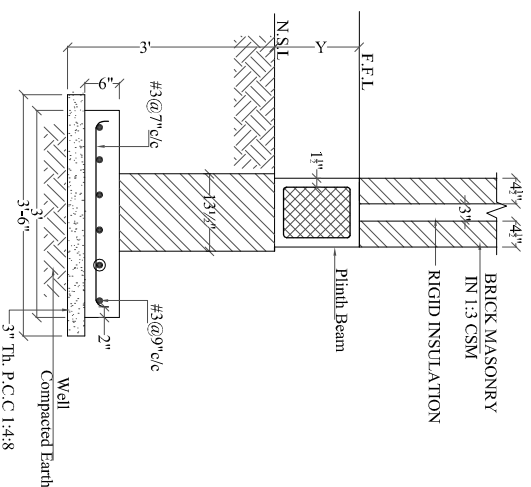


**FOUNDATION LAYOUT PLAN**  
 (DESIGN BY BEARING CAPACITY 0.75 (TON/SFT))



 <b>KPESED</b> KUALA PESHAWAR EDUCATION SOCIETY		PROJECT TITLE <b>KPHCHP          SCHOOLS PROJECT</b>	
SCHOOL NAME <b>EMIS-59978          GGPS-SHAGI BALA NO.02,          PESHAWAR</b>		NO OF F  	
NATIONAL ENGINEERING CORPORATION  <b>sunjin</b> ENGINEERING & ARCHITECTURE			
ISSUED FOR CONSTRUCTION			
NAME OF DRAWING <b>FOUNDATION LAYOUT PLAN</b>	DESIGNED BY <b>Engr Hassan Shua</b>	CHECKED BY <b>Engr Hassan Shua</b>	DATE <b>Aug. 2023</b>
SCALE <b>NONE</b>	DRAWING NO. <b>NONE</b>	PROJECT NO. <b>NONE</b>	SHEET NO. <b>000</b>
APPROVED BY <b>Engr. Adnan</b>			
PROJECT NUMBER <b>000</b>			





1. NSL refers to natural surface level and not made-up ground or fill level.
2. The foundation pad shall be kept on firm strata at least 3'-0" below NSL.
3. The distance "y" above NSL up to FFL is variable. The site engineer shall decide this distance based on ground conditions and recommendation of geotechnical engineer. In any case the distance "y" shall not be more than 3 feet or if required prior approval from the consultant shall be required. If more than 10 feet excavation is required, the consultant shall be informed to make appropriate revision in the design.
4. External walls below the plinth beam can be used to retain fill material upto 10 feet depth. For larger depths, proper retaining wall shall be used.
5. CSM (1 :3) stands for cement sand mortar with 1 part of cement and 3 parts of sand.



PROJECT TITLE  
KPECHP  
SCHOOLS PROJECT

SCHOOL NAME  
EMIS-59978  
GGPS-SHAGI BALA NO.02,  
PESHAWAR



CONSULTANT TITLE  
ISSUED FOR CONSTRUCTION

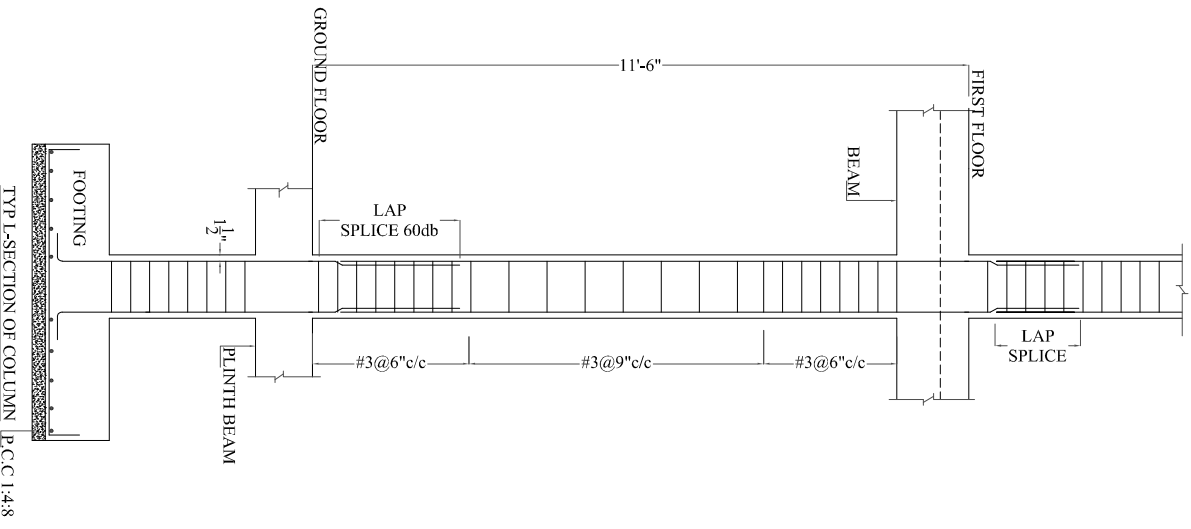
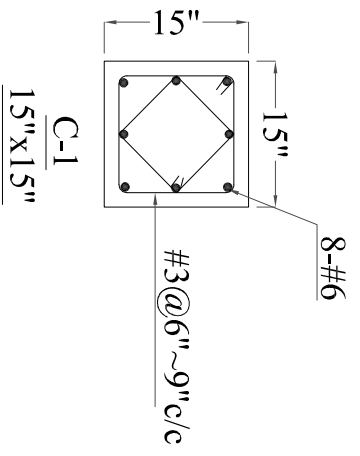
NO.	DESCRIPTION	DATE	APPROV.

NAME OF DRAWING	WALL SECTION
DATE	AUG 2023
DESIGNED BY	ENGR HASSAN SHAM
CHECKED BY	ENGR AHMAD
SCALE	NONE
PROJECT NO.	P/186308/24-PPS-003
DATE	
PROJECT NUMBER	000









TYP. SECTION OF COLUMN P.C.C 1:4:8



PROJECT TITLE  
 KPHCP  
 SCHOOLS PROJECT

SCHOOL NAME  
 EMIS-59978  
 GGPS-SHAGI BALA NO.02,  
 PESHAWAR

NOTE

NO.	DESCRIPTION	DATE	APPROV.

DESIGNED BY  
 ISSUED FOR CONSTRUCTION  
 NATIONAL ENGINEERING CORPORATION  
 ENGINEERING & ARCHITECTURE

DATE  
 AUG. 2023  
 DESIGNED BY  
 EPR- HASSAN SHAM  
 CHECKED BY  
 NONE  
 DRAWN BY  
 ANJUM SHAHID  
 APPROVED BY  
 USMAN MOHAMMAD  
 PROJECT NO.  
 P/183039/M-PC-505



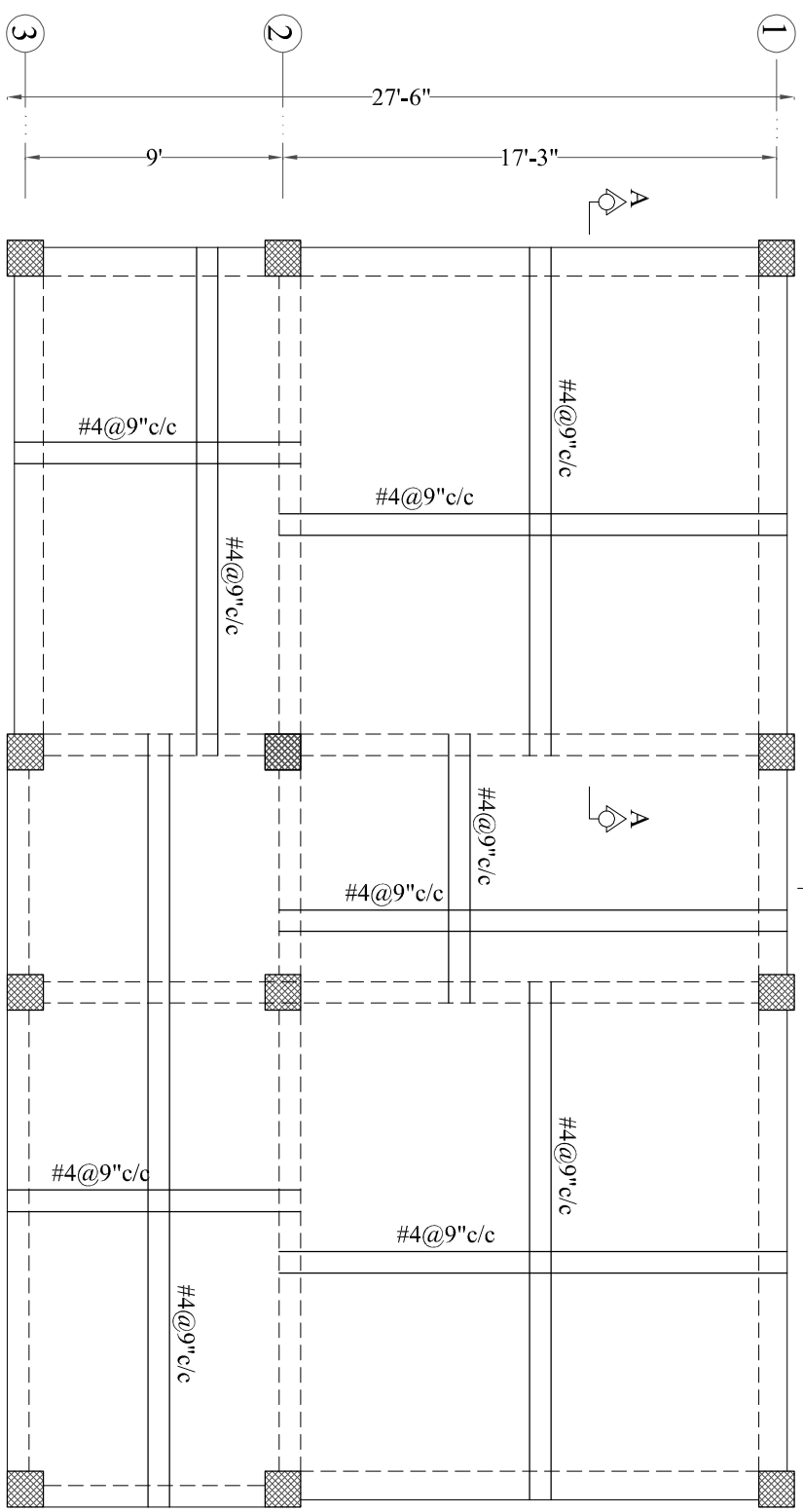
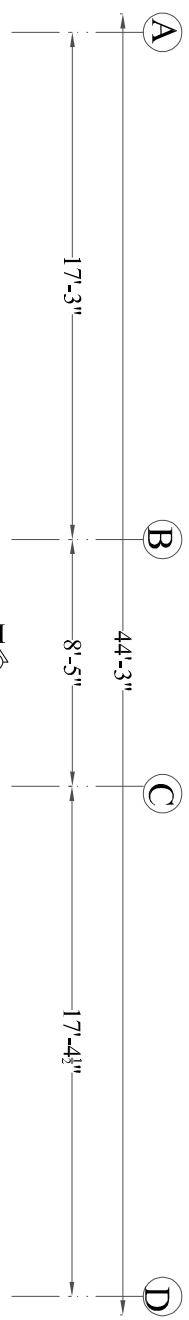
PROJECT NUMBER  
 000











**ROOF SLAB REINFORCEMENT DETAIL**  
**BOTTOM LAYER**  
 (ALL SLAB 6" THICK)

1 2 3 4 5 6



PROJECT TITLE  
**KPHICP**  
**SCHOOLS PROJECT**

SCHOOL NAME  
**EMIS-39978**  
**GGPS-SHAGI BALA NO.02,**  
**PESHAWAR**

NOTE

NO.	DESCRIPTION	DATE	APPROV.

DESIGNED BY  
**SUNJIN**  
 ENGINEERING & ARCHITECTURE

PROJECT TITLE  
**ISSUED FOR CONSTRUCTION**  
**ROOF SLAB REINFORCEMENT**  
**BOTTOM LAYER**

DATE	AUG. 2023	DESIGNED BY	ENGR. HASSAN SHAM
SCALE	1:1	CHECKED BY	ANJUM SHAHID
SCALE	NONE	APPROVED BY	USMAN KHANNA
COMPILED BY	KHALID	PROJECT ENGINEER	ENGR. ADWAN
PROJECT NO.	P186308-PC-PPS-S10	DATE	
PROJECT TALKING	000	DRAWING NO.	







1 2 3 4 5 6



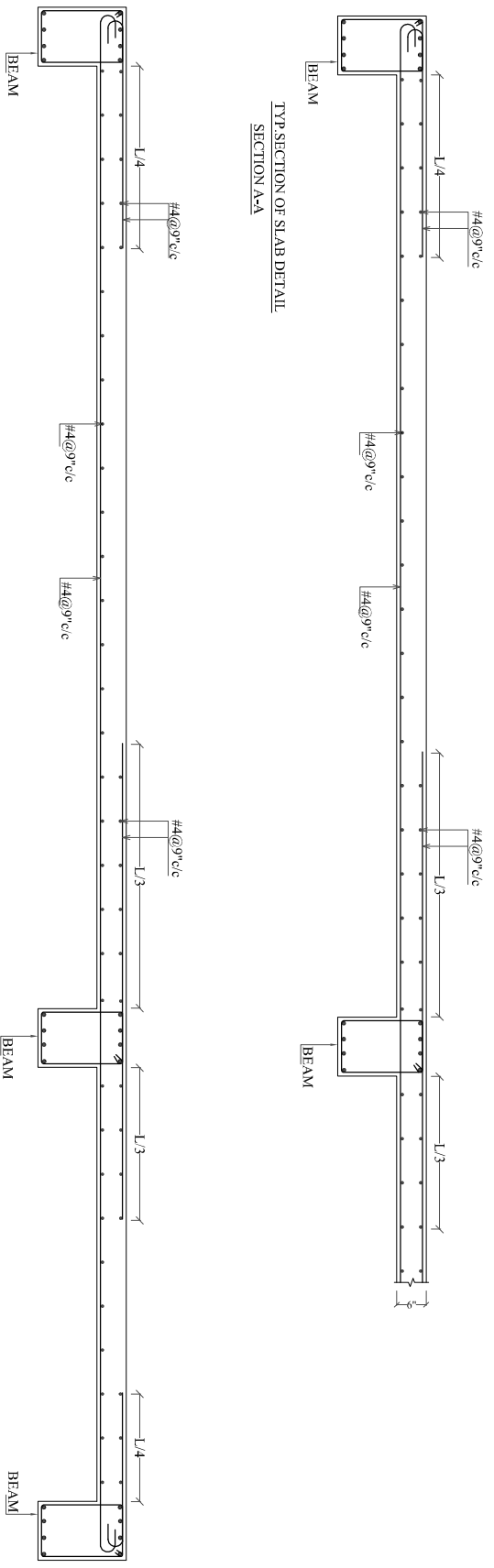
**KPESED**  
 Kementerian Pendidikan  
 Malaysia  
 KPESED



**KPHCP**  
 SCHOOLS PROJECT

SCHOOL NAME  
**EMIS-59978**  
**GGPS-SIAGI BALA NO.02,**  
**FESHAWAR**

NOTE



TYP. SECTION OF SLAB DETAIL  
 SECTION A-A

TYP. SECTION OF SLAB DETAIL  
 SECTION B-B



**sunjin**  
 ENGINEERING & ARCHITECTURE



NATIONAL ENGINEERING CORPORATION

NO.	DESCRIPTION	DATE	APPR.

ISSUED FOR CONSTRUCTION

TYP. SECTION OF SLAB DETAIL

DATE	DESIGNED BY
Aug, 2023	Engr Hassan Shiva
SCALE	DRAWN BY
NONE	Anjum Saad
CHECKED BY	APPROVED BY
KHALID	Umaran Madasa
ART/DIA REPRESENTATIVE	
Engr. ADNAN	

PROJECT NO.  
**P186308-PC-PPS-S12**

PROJECT NUMBER  
**000**