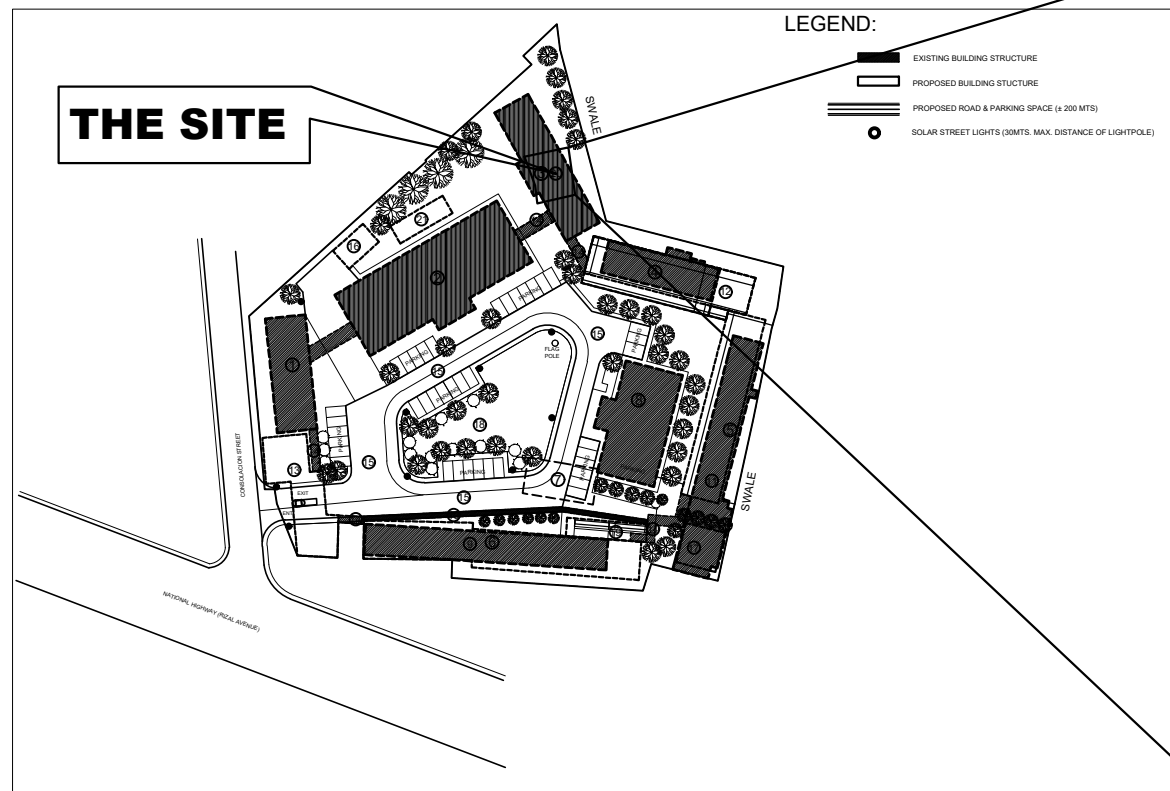
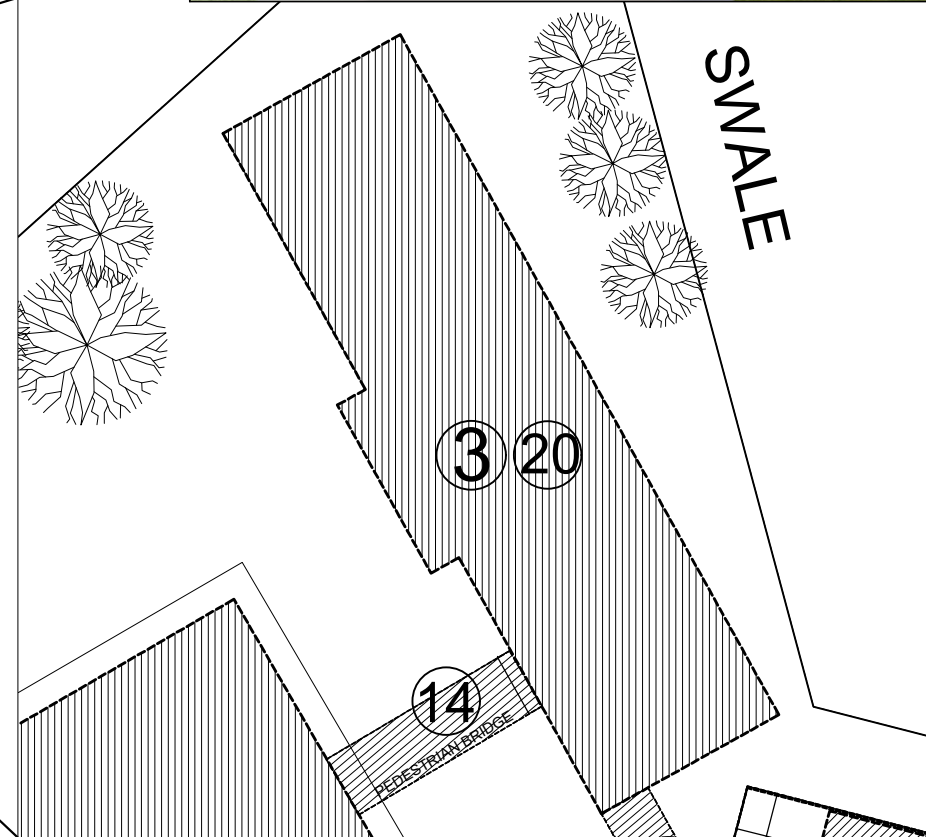




P E R S P E C T I V E



A
1 -- **VICINITY MAP**
SCALE NTS



A
1 -- **SITE DEVT PLAN**
SCALE NTS

TABLE OF CONTENTS		REPUBLIC OF THE PHILIPPINES OFFICE OF THE MUNICIPAL/CITY ENGINEER/BUILDING OFFICIAL
SHT. NO.	CONTENTS	DISTRICT/CITY/MUNICIPALITY
ARCHITECTURAL (A)		LAND USE & ZONING
STRUCTURAL (S)		LINE & GRADE
PLUMBING (P)		ARCHITECTURAL
ELECTRICAL (E)		STRUCTURAL
		SANITARY
		ELECTRICAL
		MECHANICAL



PROJECT TITLE :
**COMPLETION OF ACADEMIC BUILDING, JHSC
PAGADIAN CAMPUS**

LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY

PREPARED BY:
abapol
AIVY B. GAPOL, CE
ENGINEERING ASSISTANT

DATE :

CHECKED & SUBMITTED BY:
Pangasian B. Mamintas
PANGASIAN B. MAMINTAS, CE
COLLEGE ENGINEER

DATE :

RECOMMENDING APPROVAL:
Rodrigo P. Millares Jr.
RODRIGO P. MILLARES JR., REE., ENP.
PLANNING OFFICER

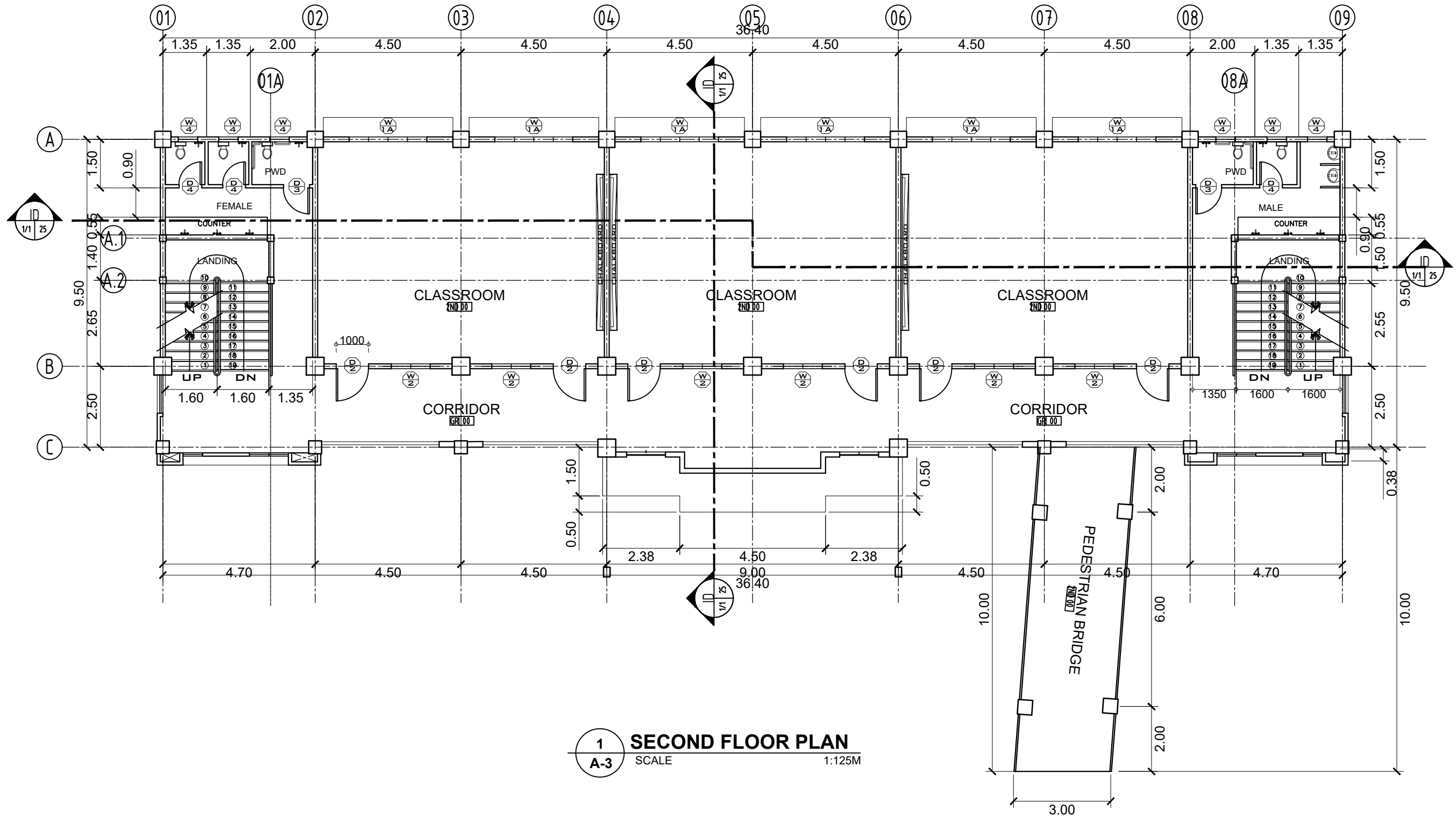
DATE :

APPROVED:
Edgardo H. Rosales
EDGARDO H. ROSALES, Ed.D.
JHSC - PRESIDENT

DATE :

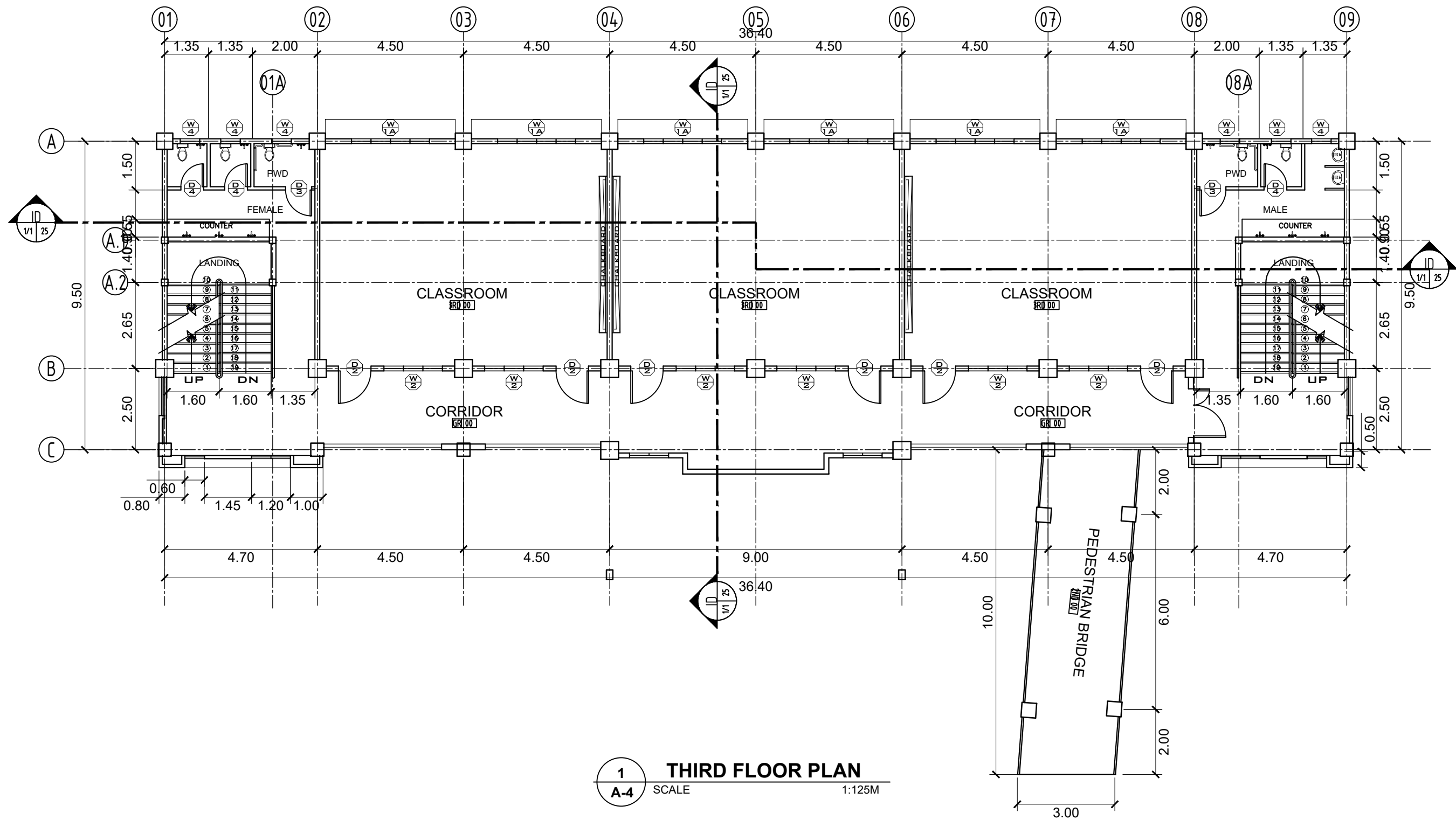
SHEET CONTENT:
AS SHOWN






SHEET NO.:
A-1
1 | 13

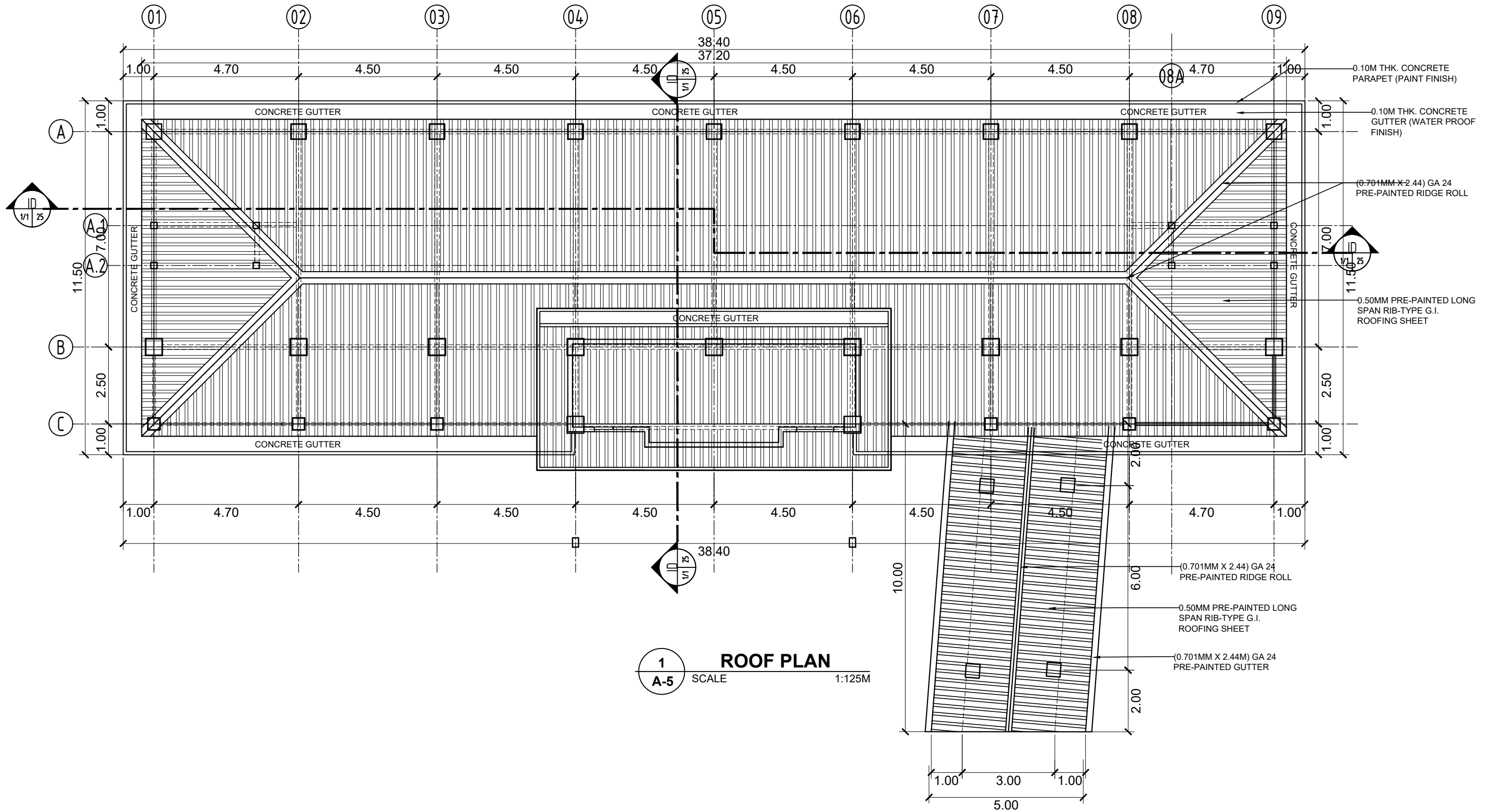


1 **SECOND FLOOR PLAN**
 A-3 SCALE 1:125M

	PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET NO.:
	COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS	 AIVY B. GAPOL, CE ENGINEERING ASSISTANT	 PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	 RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	 EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	AS SHOWN	A-3 3 13
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		

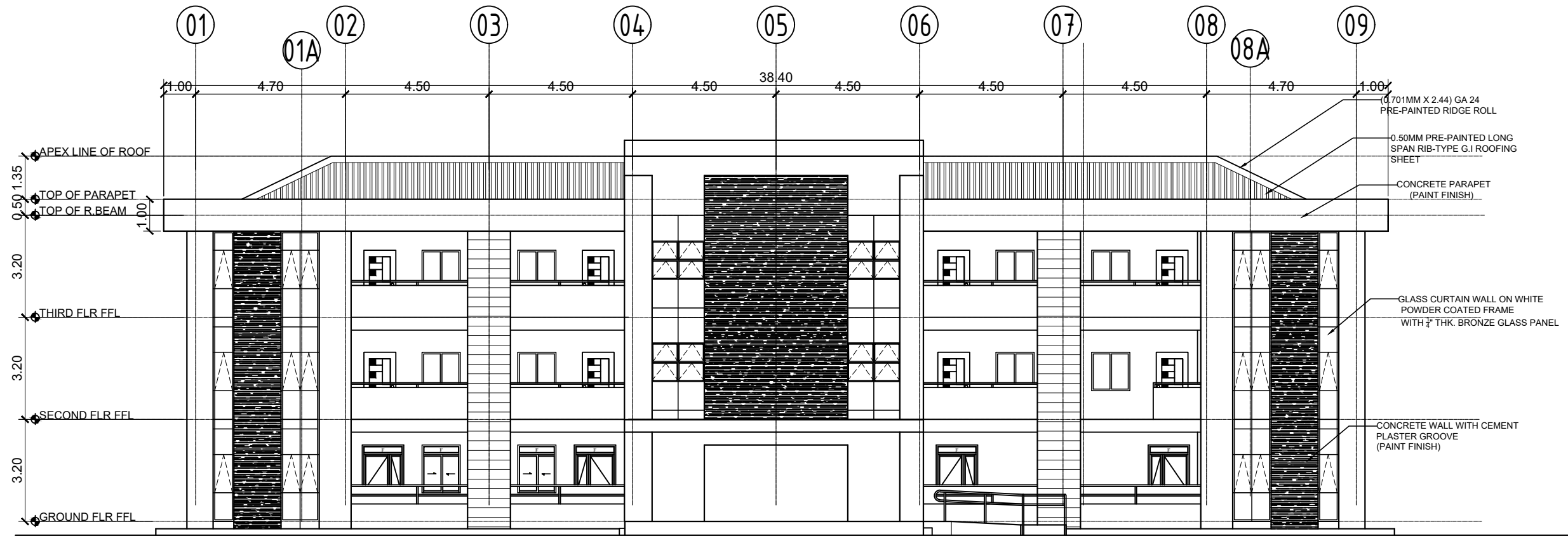


	PROJECT TITLE: COMPLETION OF ACADEMIC BUILDING, JHSCS PAGADIAN CAMPUS	PREPARED BY:  AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY:  PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL:  RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	APPROVED:  EDGARDO H. ROSALES, Ed.D. JHSCS - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: A-4 4 13
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY		DATE :		DATE :		DATE :	

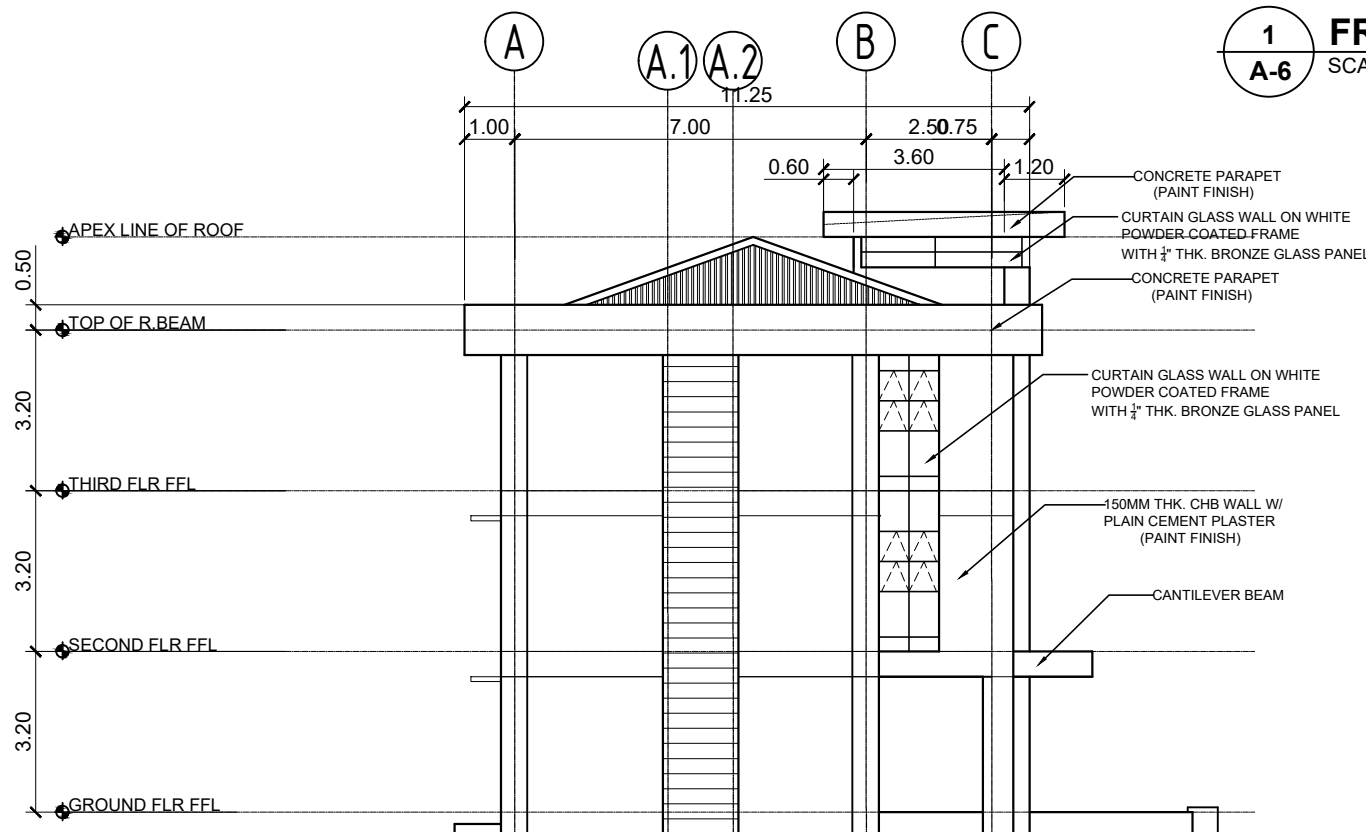


1 ROOF PLAN
A-5 SCALE 1:125M

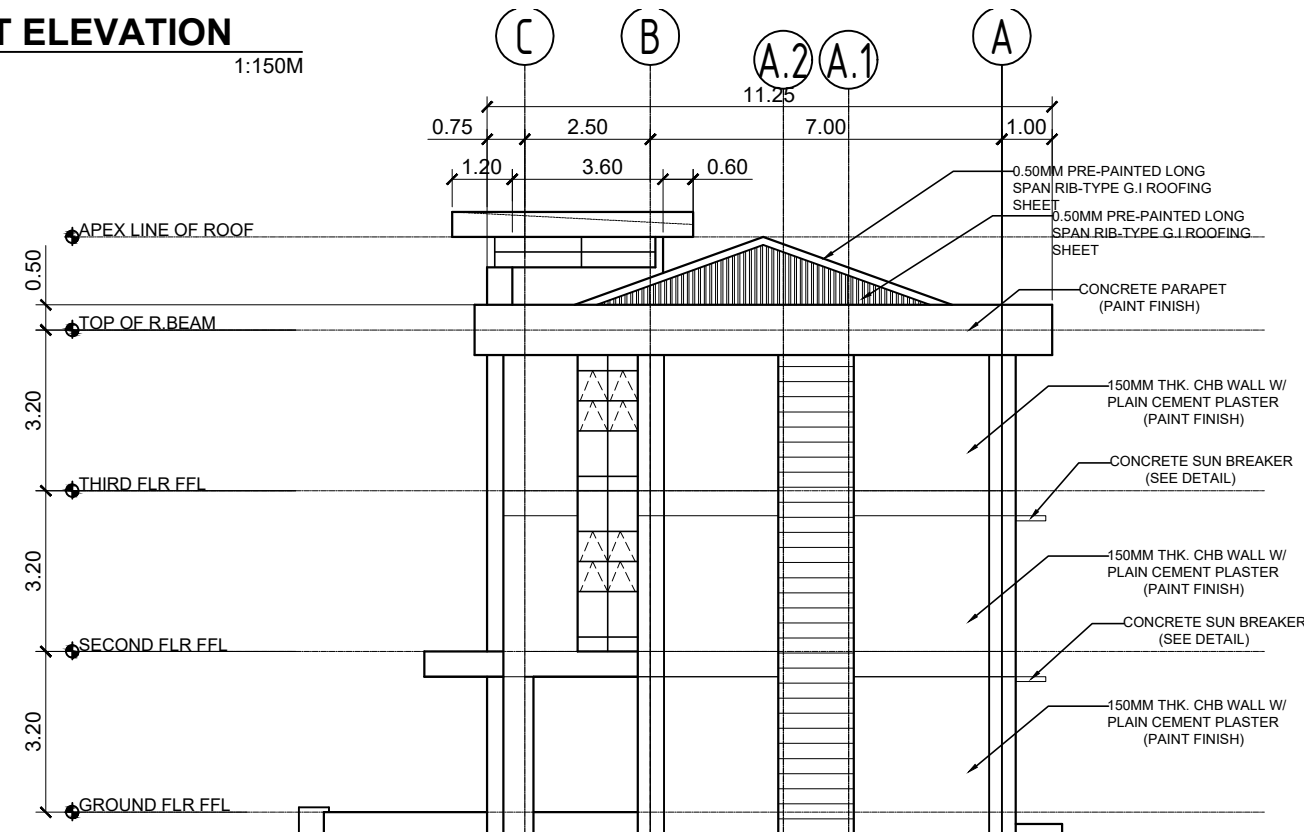
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1 FRONT ELEVATION
 A-6 SCALE 1:150M

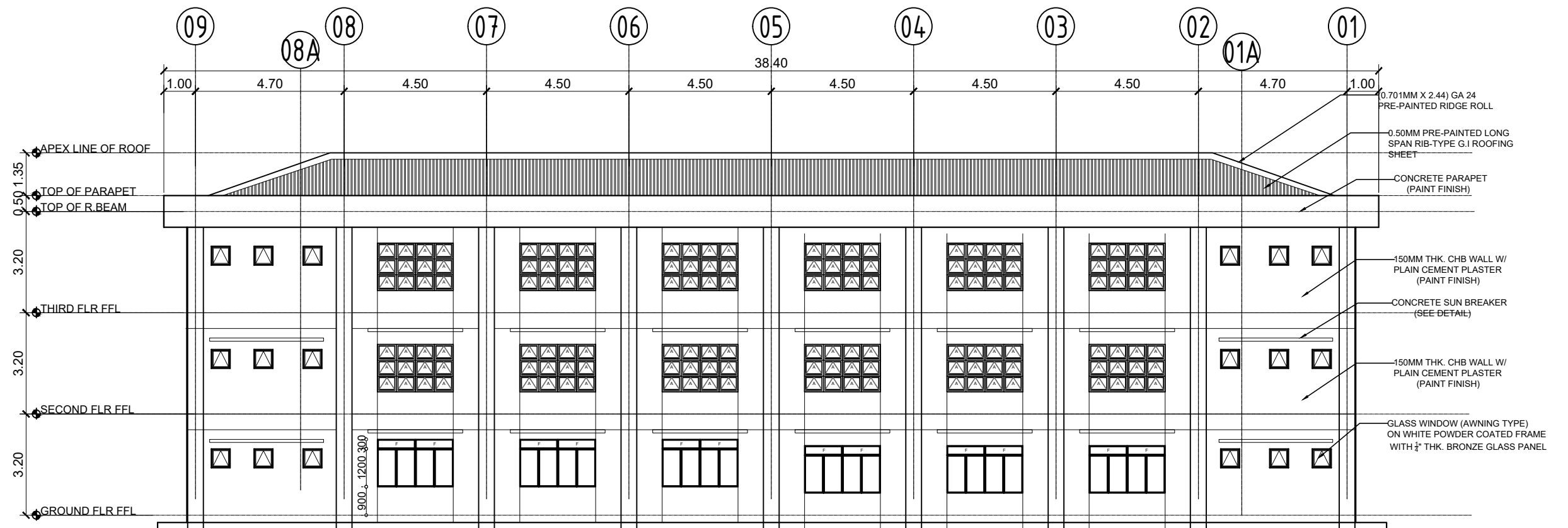


2 LEFT SIDE ELEVATION
 A-6 SCALE 1:150M

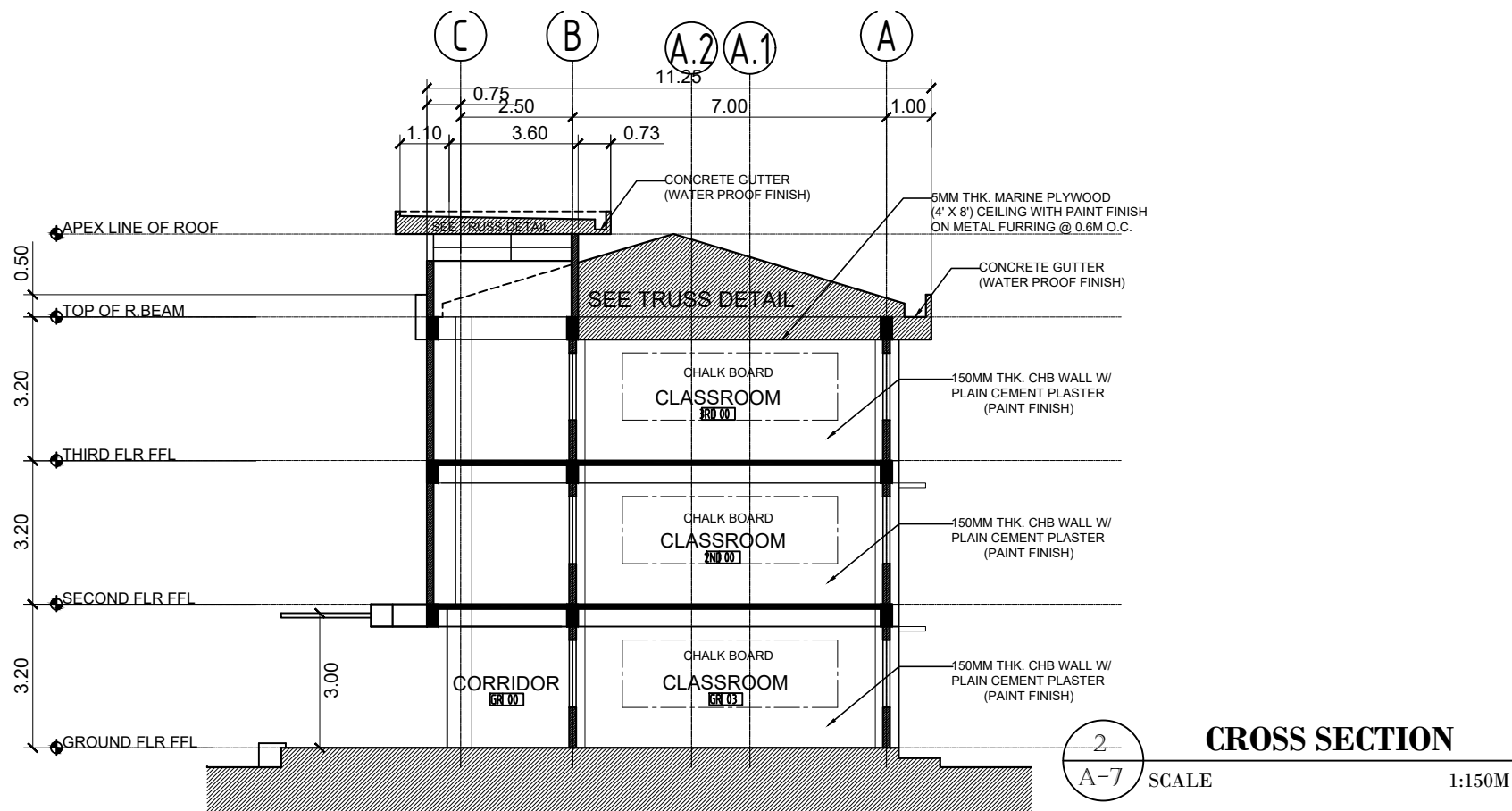


3 RIGHT SIDE ELEVATION
 A-6 SCALE 1:150M

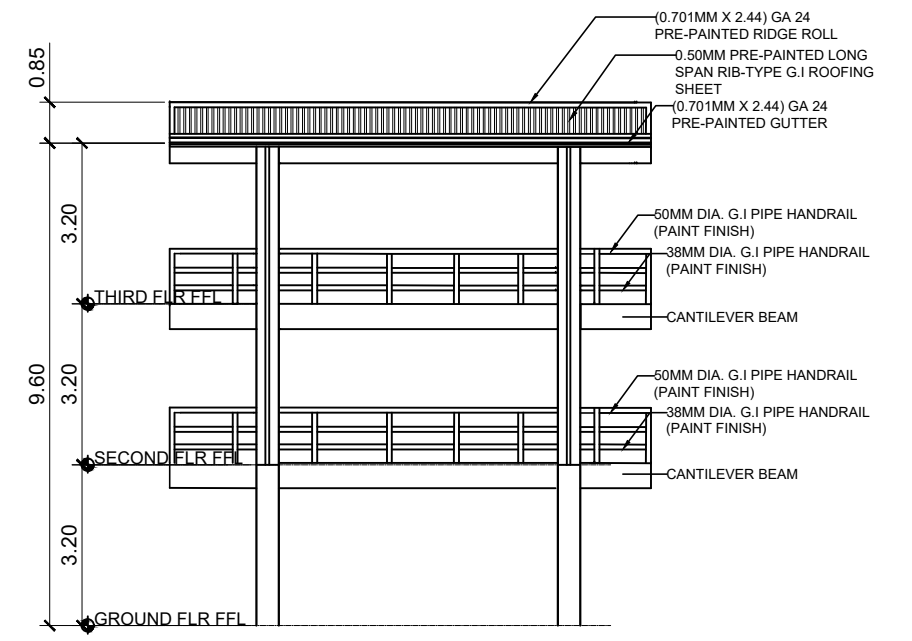
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	COMPLETION OF ACADEMIC BUILDING, JHSCC PAGADIAN CAMPUS	 IVY B. GAPOL, CE ENGINEERING ASSISTANT	 PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	 RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	 EDGARDO H. ROSALES, Ed.D. JHSCC - PRESIDENT	AS SHOWN	A-6 6 13
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



1 REAR ELEVATION
SCALE 1:150M

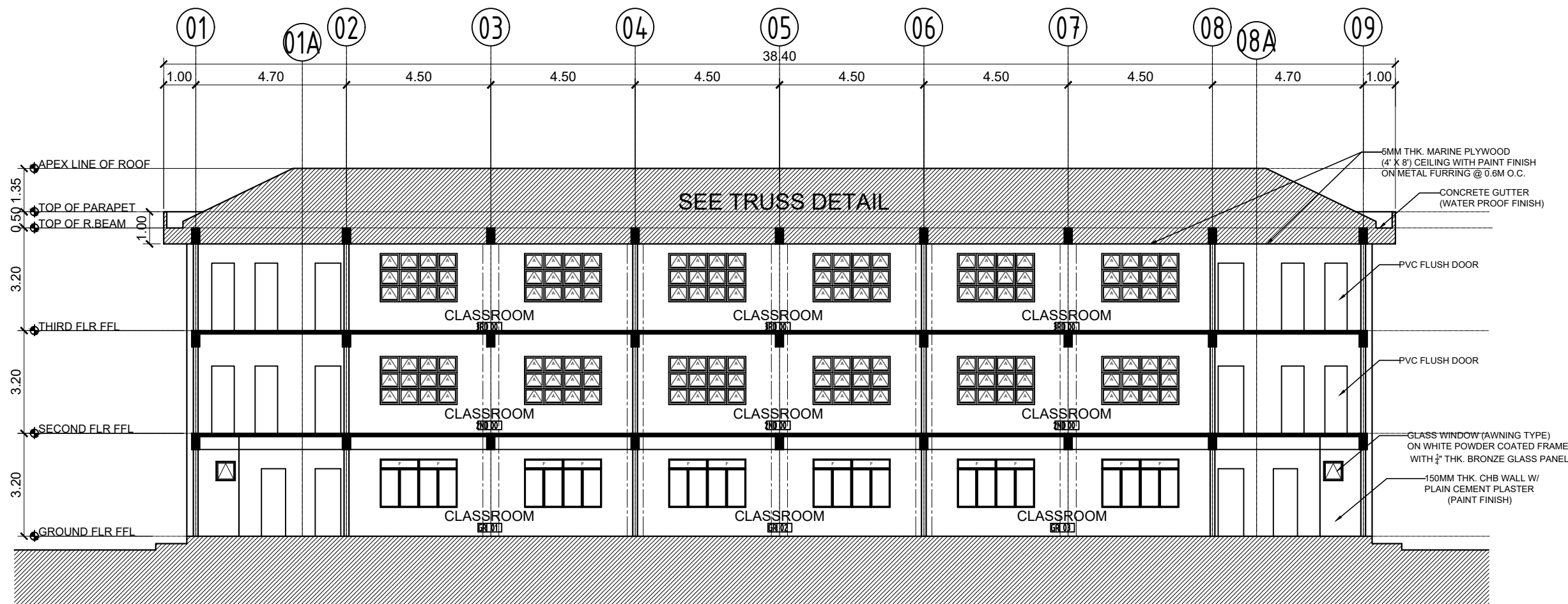


2 CROSS SECTION
SCALE 1:150M



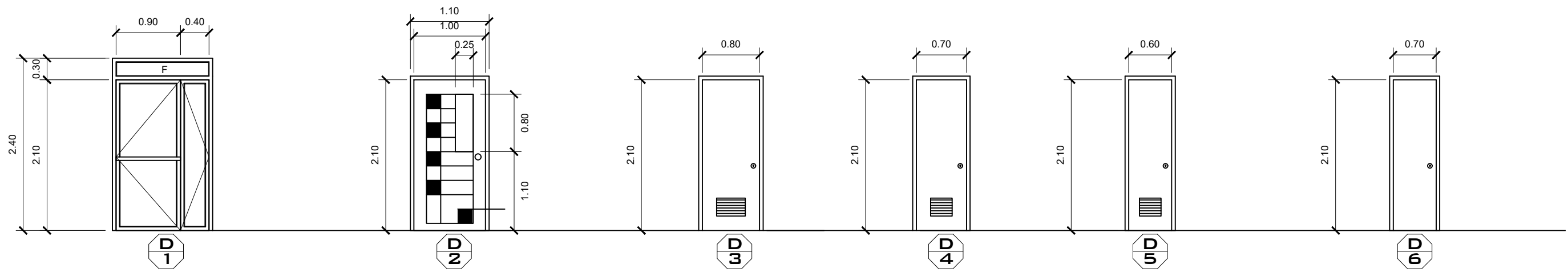
3 PEDESTRIAN BRIDGE ELEVATION
SCALE 1:150M

	PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET NO.:
	COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS	 AIVY B. GAPOL, CE ENGINEERING ASSISTANT	 PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	 RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	 EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	AS SHOWN	A-7 7 13
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



1 LONGITUDINAL SECTION
A-8 SCALE 1:150M

	PROJECT TITLE : COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS	PREPARED BY:  AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY:  PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL:  RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	APPROVED:  EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: <div style="border: 1px solid black; border-radius: 50%; padding: 5px; width: 30px; margin: 0 auto;"> A-8 8 13 </div>
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY		DATE :	DATE :	DATE :	DATE :		



DOOR TYPE: GLASS SWING DOOR (DOUBLE LEAF)
 QUANTITY: 6 UNITS
 DESCRIPTION: WHITE POWDER COATED FRAME, WITH 1/4" THK BRONZE GLASS PANEL, WITH TRANSOM
 LOCATION: GROUND FLOOR

DOOR TYPE: SOLID PANEL DOOR (SWINGTYPE)
 QUANTITY: 12 UNITS
 DESCRIPTION: WOODEN DOOR IN WOOD VARNISH FIN. W/ CLEAR VIEWING GLASS, KILN DRIED 2" X 8" DOOR JAMB, W/ COMPLETE HEAVY DUTY ACCESSORIES
 LOCATION: SECOND FLOOR & THIRD FLOOR

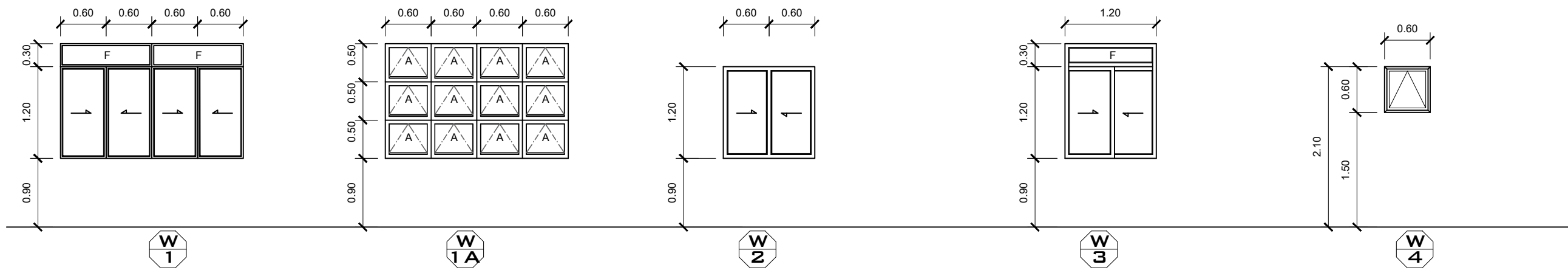
DOOR TYPE: SOLID PANEL DOOR
 QUANTITY: 4 UNITS
 DESCRIPTION: WOODEN DOOR WITH 2" X 8" DOOR JAMB & COMPLETE HEAVY DUTY ACCESSORIES
 LOCATION: ALL PWD TOILET

DOOR TYPE: PVC FLUSH DOOR
 QUANTITY: 8 UNITS
 DESCRIPTION: PVC DOOR SET (WITH LOUVER)
 LOCATION: ALL TOILET

DOOR TYPE: PVC FLUSH DOOR
 QUANTITY: 4 UNITS
 DESCRIPTION: PVC DOOR SET (WITH LOUVER)
 LOCATION: GROUND FLOOR TOILET

DOOR TYPE: FLUSH TYPE DOOR
 QUANTITY: 2 UNITS
 DESCRIPTION: HOLLOW CORE DOOR
 LOCATION: GROUND FLOOR STORAGE

1 **DETAIL OF DOORS**
 A-9 SCALE 1:50M



WINDOW TYPE: GLASS SLIDING WINDOW
 QUANTITY: 12 UNITS
 DESCRIPTION: WHITE POWDER COATED FRAMING WITH 1/4" THK BRONZE GLASS PANEL
 LOCATION: SECOND AND THIRD FLOOR

WINDOW TYPE: AWNING TYPE GLASS WINDOW
 QUANTITY: 12 UNITS
 DESCRIPTION: WHITE POWDER COATED FRAMING WITH 1/4" THK BRONZE GLASS PANEL
 LOCATION: SECOND AND THIRD FLOOR

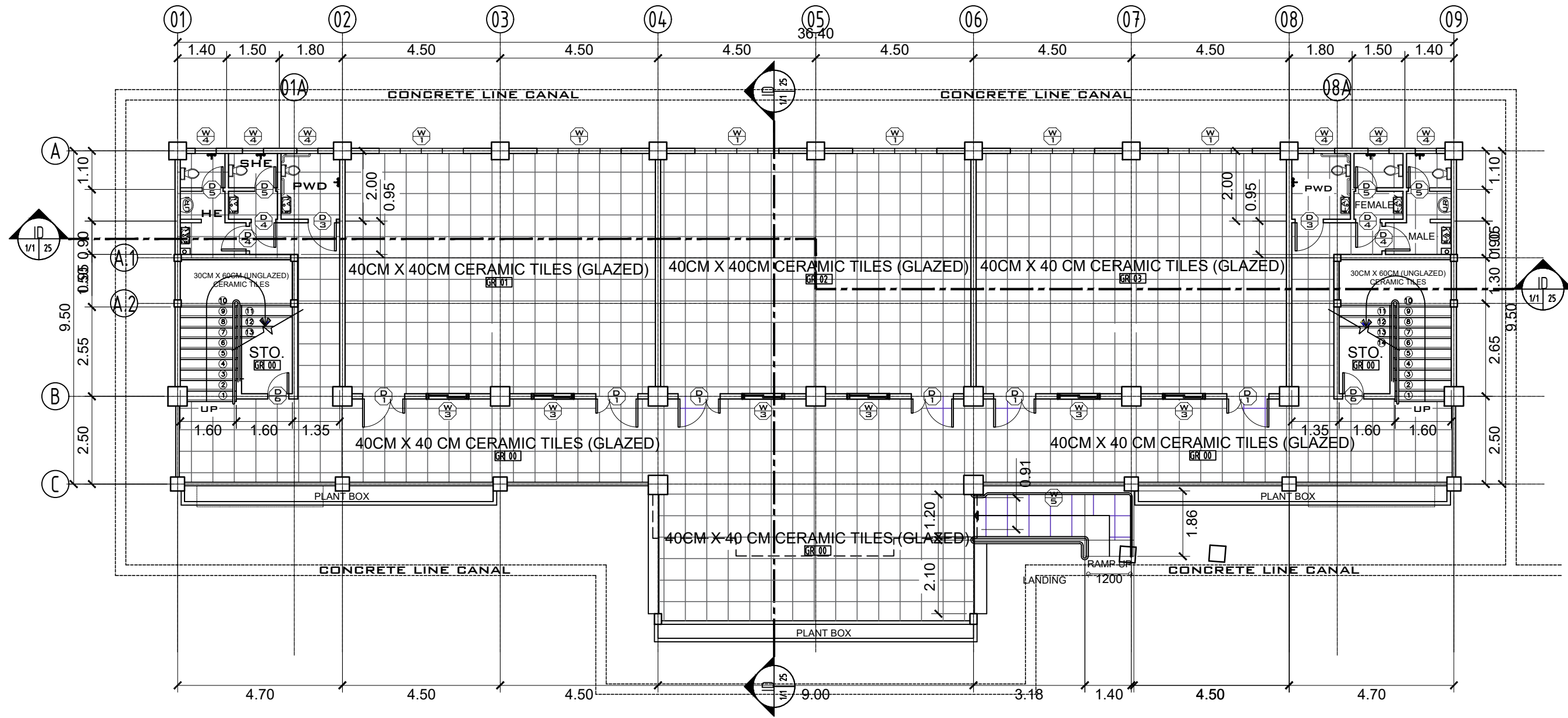
WINDOW TYPE: GLASS SLIDING WINDOW
 QUANTITY: 12 UNITS
 DESCRIPTION: WHITE POWDER COATED FRAMING WITH 1/4" THK BRONZE GLASS PANEL
 LOCATION: SECOND AND THIRD FLOOR

WINDOW TYPE: GLASS SLIDING WINDOW
 QUANTITY: 12 UNITS
 DESCRIPTION: WHITE POWDER COATED FRAMING WITH 1/4" THK BRONZE GLASS PANEL
 LOCATION: GROUND FLOOR

WINDOW TYPE: AWNING WINDOW
 QUANTITY: 12 UNITS
 DESCRIPTION: WHITE POWDER COATED FRAMING WITH 1/4" THK BRONZE GLASS PANEL
 LOCATION: GROUND, SECOND, & THIRD FLOOR TOILET

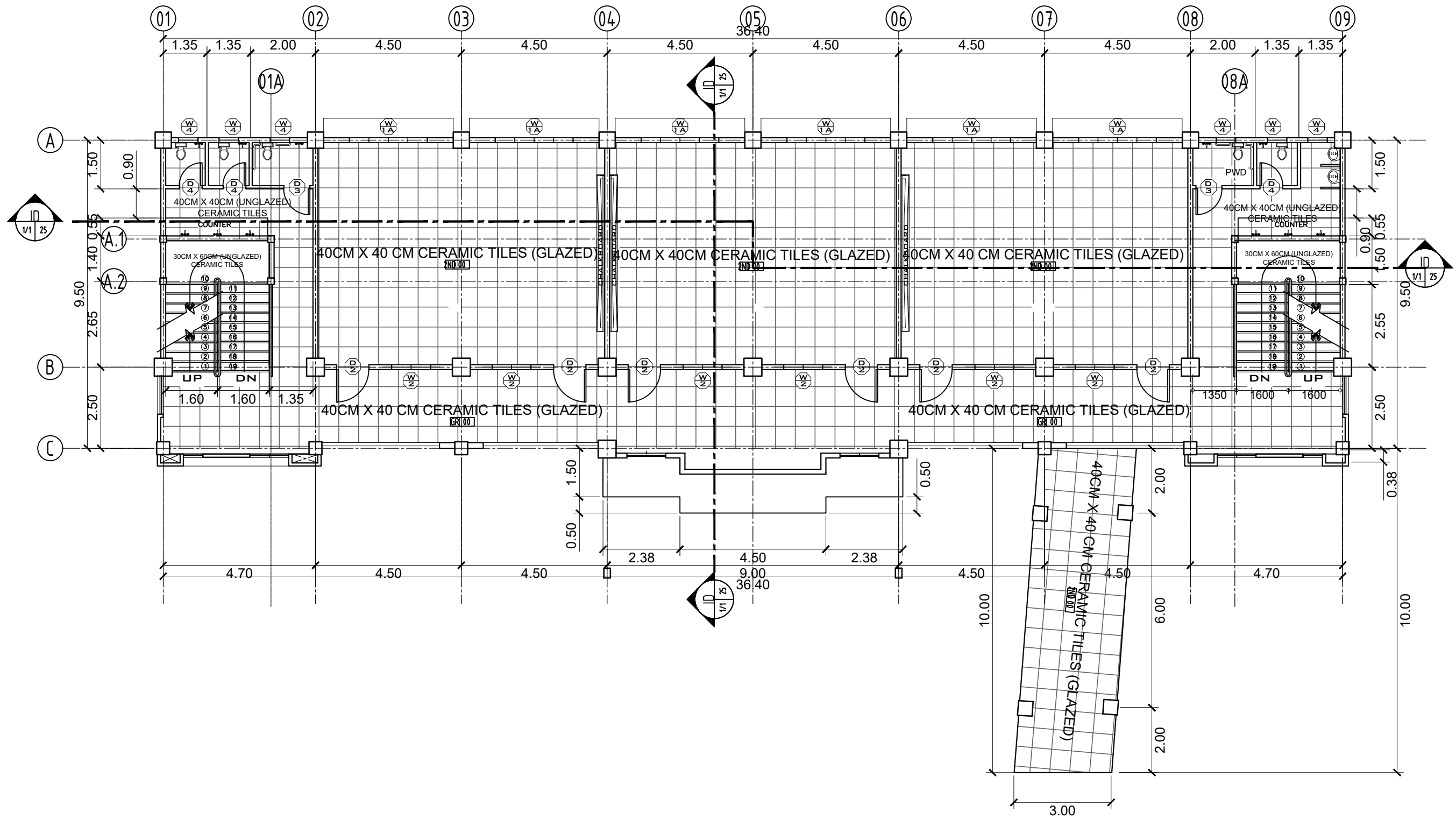
2 **DETAIL OF WINDOWS**
 A-9 SCALE 1:60M

	PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET NO.:
	COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	 AIVY B. GAPOL, CE ENGINEERING ASSISTANT	 PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	 RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	 EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	AS SHOWN	A-9 9 13
	LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :		



1 GROUND FLOOR TILE LAY-OUT
 A-11 SCALE 1:125M

	PROJECT TITLE : COMPLETION OF ACADEMIC BUILDING, JHSCS PAGADIAN CAMPUS	PREPARED BY: AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY: PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL: RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	APPROVED: EDGARDO H. ROSALES, Ed.D. JHSCS - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: A-11 1113
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY		DATE :	DATE :	DATE :	DATE :		



1 SECOND FLOOR TILE LAY-OUT
 A-12 SCALE 1:125M

	PROJECT TITLE : COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	PREPARED BY:  AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY:  PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL:  RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	APPROVED:  EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: A-12 1213
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GENERAL CONSTRUCTION NOTES

GENERAL NOTES

- IN THE INTERPRETATION OF THE DRAWING, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES AND SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.
- IN REFERENCE TO OTHER DRAWINGS, SEE ARCHITECTURAL DRAWINGS FOR DEPRESSIONS IN FLOOR SLABS, OPENINGS IN THE WALLS AND SLABS, INTERIOR PARTITIONS, LOCATION OF DRAINS, ETC.
- IN CASE OF DISCREPANCIES AS TO THE LAYOUT, DIMENSIONS, AND ELEVATIONS BETWEEN THE STRUCTURAL PLANS, AND ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL NOTIFY BOTH THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI 318 (95) BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE AND ALL STRUCTURAL STEEL WORK ACCORDING WITH AISC SPECIFICATION (9TH EDITION) IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENT.
- ACI REFERS TO AMERICAN CONCRETE INSTITUTE, AISC TO AMERICAN INSTITUTE OF STEEL CONSTRUCTION AND ASTM TO AMERICAN SOCIETY FOR TESTING MATERIALS.
- CONSTRUCTION NOTES AND TYPICAL DETAILS APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. MODIFY TYPICAL DETAILS AS DIRECTED TO MEET SPECIAL CONDITIONS.
- SHOP DRAWINGS WITH ERECTION AND PLACING DIAGRAMS OF ALL STRUCTURAL STEELS, MISCELLANEOUS IRON, PRE-CAST CONCRETE, ETC. SHALL BE SUBMITTED FOR ENGINEERS APPROVAL BEFORE FABRICATION.
- CONTRACTOR SHALL NOTE AND PROVIDE ALL MISCELLANEOUS CURBS, SILLS, STOOLS, EQUIPMENTS AND MECHANICAL BASES THAT ARE REQUIRED BY THE ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DRAWINGS.
- ALL RESULTS OF MATERIAL TESTING FOR CONCRETE, REINFORCEMENT BARS, & STRUCTURAL STEEL MUST BE NOTED & APPROVED BY THE STRUCTURAL DESIGNER.

NOTES ON CONCRETE MIXES & PLACING

- ALL CONCRETE SHALL DEVELOP A MIN. COMPRESSIVE STRENGTH AT THE END OF TWENTY EIGHT (28) DAYS W/ CORRESPONDING MAXIMUM SIZE AGGREGATE & SLUMPS AS FOLLOWS.

LOCATION	28 DAYS STRENGTH	MAX. SIZE OF AGGREGATE	MAX. SLUMP
ALL OTHERS, INCLUDING SUSPENDED SLABS,	3000 PSI (20.7 MPa)	20mm	100mm
COLUMNS	3000 PSI (20.7 MPa)	20mm	100mm
BEAMS, SLABS	3000 PSI (20.7 MPa)	20mm	100mm
SLAB ON FILL	3000 PSI (20.7 MPa)	20mm	100mm

- MAINTAIN MINIMUM CONCRETE COVER FOR REINFORCING STEEL AS FOLLOWS:
 SUSPENDED SLABS ----- 20mm
 SLAB ON GRADE ----- 40mm
 WALLS ABOVE GRADE ----- 25mm
 BEAM STIRRUPS AND COLUMN TIES ----- 40mm
 WHERE CONCRETE IS EXPOSED TO EARTH BUT POURED AGAINST FORMS ----- 50mm
 WHERE CONCRETE IS DEPOSITED DIRECTLY AGAINST EARTH ----- 75mm
- CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION. RE-HAND LING OR PLACING SHALL BE DONE PREFERABLY WITH BUCKETS, BUCKETS OR WHEELBARROWS, NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUCKETS, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6) METERS IN AGGREGATE LENGTH.
- NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS ARE EXTREMELY DIFFICULT TO ACCOMPLISH.
- ALL ANCHOR BOLTS, DOWELS, AND OTHER INSERTS, SHALL BE PROPERLY POSITIONED & SECURED IN PLACE PRIOR TO PLACING OF CONCRETE.
- ALL CONCRETE SHALL BE KEPT MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS IMMEDIATELY AFTER POURING BY THE USE OF WET BURLAP, FOG SPRAYING, CURING COMPOUNDS OR OTHER APPROVED METHODS.
- STRIPPING OF FORMS AND SHORES:
 FOUNDATION ----- 24 HRS.
 SUSPENDED SLAB EXCEPT WHEN ADDITIONAL LOADS ARE IMPOSED ----- 8 DAYS
 WALLS ----- 21 DAYS
 BEAMS ----- 14 DAYS
 COLUMNS ----- 21 DAYS
- THE CONTRACTOR SHALL SUBMIT THE SCHEDULE OF POURING AND THE LOCATION OF THE CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER AT LEAST (4) DAYS PRIOR TO THE POURING FOR APPROVAL.
- THE CONTRACTOR SHALL FURNISH AND MAINTAIN ADEQUATE FORMS AND SHORINGS UNTIL THE CONCRETE MEMBERS HAVE ATTAINED THEIR WORKING CONDITION AND STRENGTH.

NOTES ON FOOTINGS

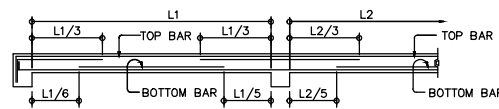
- FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 96 KPa (2000 psi). CONTRACTOR SHALL REPORT TO THE ENGINEER, IN WRITING, THE ACTUAL SOIL CONDITIONS UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.
- FOOTING SHALL REST AT LEAST 1500mm BELOW NATURAL GRADE LINE UNLESS OTHERWISE INDICATED IN PLANS. NO FOOTING SHALL REST ON FILL.
- MINIMUM CONCRETE PROTECTION FOR REINFORCEMENTS SHALL BE 75mm CLEAR FOR CONCRETE DEPOSITED THE GROUND AND 50mm FOR CONCRETE DEPOSITED AGAINST A FORMWORK.

NOTES ON REINFORCEMENT

- UNLESS OTHERWISE NOTED IN PLANS, THE YIELD STRENGTH OF REINFORCING BARS SHALL BE:
 A. FOOTINGS, FOOTING BEAMS AND GIRDERS ----- $f_y = 275 \text{ MPa}$ (40,000 psi)
 B. COLUMNS AND SHEAR WALLS ----- $f_y = 275 \text{ MPa}$ (40,000 psi)
 C. BEAMS AND GIRDER ----- $f_y = 275 \text{ MPa}$ (40,000 psi)
 D. NON-LOAD BEARING WALL PARTITIONS, BEDDED SLABS, FLOOR & ROOF SLABS, PARAPETS, CATCH BASIN, SIDE WALK. ----- $f_y = 227.5 \text{ MPa}$ (33,000 psi)
- ALL REINFORCING BARS SIZE 10mm OR LARGER SHALL BE DEFORMED IN ACCORDANCE WITH ASTM A 706. BARS SMALLER THAN 10mm MAY BE PLAIN.
- SPLICES SHALL BE SECURELY WIRED TOGETHER & SHALL LAP OR EXTEND IN ACCORDANCE W/ TABLE A & TABLE B (TABLE OF LAP SPICE & ANCHORAGE LENGTH) UNLESS OTHERWISE SHOWN ON DRAWINGS. SPLICES SHALL BE STAGGERED WHENEVER POSSIBLE.

NOTES ON CONCRETE SLABS

- ALL SLAB REINFORCEMENTS SHALL BE 20mm CLEAR MINIMUM FROM BOTTOM AND FROM THE TOP OF SLAB.
- UNLESS OTHERWISE SHOWN, REINFORCEMENT IN CONTINUOUS ELEVATED SLAB SHALL BE CUT AS FOLLOWS:

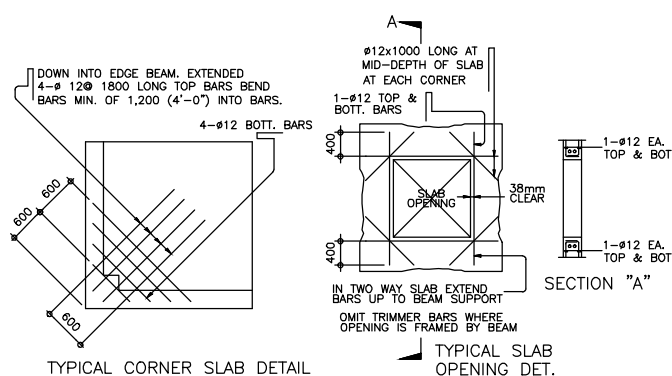


TYPICAL BAR BENDING AND CUTTING DETAILS FOR SLABS

- IF SLABS ARE REINFORCED BOTHWAYS BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN FOR REINFORCING BARS NEAR THE SUPPORTS. THE SPACING OF THE BARS AT THE COLUMN STRIPS SHALL NOT BE MORE THAN ONE AND A HALF (1 1/2) SLAB THICKNESS.
- TEMPERATURE BARS FOR SLAB SHALL BE GENERALLY PLACED NEAR THE FACE IN TENSION AND SHALL NOT BE LESS THAN $0.0025 \times \text{GROSS CROSS-SECTIONAL AREA (A}_g\text{)}$ OF THE SLAB (SEE SCHEDULE BELOW)

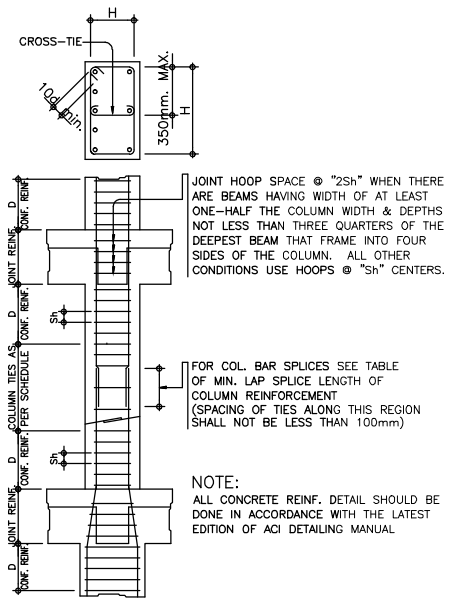
THICKNESS	MINIMUM TEMPERATURE BARS
100 mm	10 mm ϕ @ 250mm EACH WAY
125 mm	10 mm ϕ @ 225mm EACH WAY
150 mm	10 mm ϕ @ 185mm EACH WAY
175 mm	10 mm ϕ @ 150mm EACH WAY
200 mm	10 mm ϕ @ 140mm EACH WAY

- UNLESS OTHERWISE NOTED IN THE PLANS ALL BEDDED SLABS SHALL BE REINFORCED WITH 10mm ϕ AT 250mm O.C EACH WAY TO CENTER OF SLAB AND CONSTRUCTION JOINTS FOR SAME SHALL NOT BE LESS THAN 3.65 METER APART
- PROVIDE EXTRA REINFORCEMENTS FOR CORNER SLAB (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW.
- CONCRETE SLAB REINFORCEMENTS SHALL BE PROPERLY SUPPORTED WITH 10mm ϕ STEEL CHAIR OR APPROVED EQUIVALENT SPACED AT 1.0 METER ON CENTER BOTHWAYS

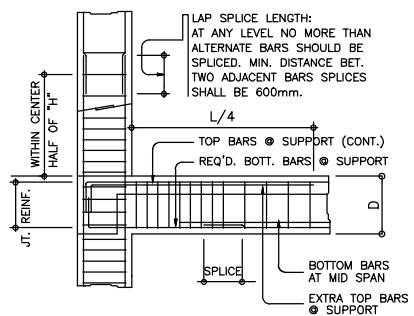


NOTES ON COLUMNS

- PROVIDE EXTRA SETS OF TIES AT 100mm O.C. FOR TIED COLUMN REINFORCEMENT ABOVE AND BELOW BEAM-COLUMN CONNECTIONS FOR A DISTANCE FROM FACE OF CONNECTION EQUAL TO THE GREATER OF THE OVERALL THICKNESS OF COLUMN, 1/6 THE CLEAR HEIGHT OF COLUMN OR 450mm.
- COLUMN TIES SHALL BE PROTECTED EVERYWHERE BY A COVERING OF CONCRETE CAST MONOLITHICALLY WITH THE CORE WITH THE MINIMUM THICKNESS OF 40mm AND NOT LESS THAN 40 TIMES THE MAXIMUM SIZE OF COARSE AGGREGATE IN MILLIMETERS.
- WHERE COLUMNS CHANGE IN SIZE, VERTICAL REINFORCEMENTS SHALL BE OFFSET AT A SLOPE OF NOT MORE THAN 1 IN 6 AND EXTRA 10mm TIES AT 100mm SHALL BE PROVIDED THRU OUT THE OFFSET REGION.
- UNLESS OTHERWISE INDICATED IN THE PLANS, LAP SPLICES FOR VERTICAL COLUMN REINFORCEMENT SHALL BE MADE WITHIN THE CENTER HALF OF COLUMN HEIGHT, AND THE SPLICE LENGTH SHALL NOT BE LESS THAN 40 BAR DIAMETERS. WELDING OR APPROVED MECHANICAL DEVICES MAY BE USED PROVIDED THAT NOT MORE THAN ALTERNATE BARS ARE WELDED OR MECHANICALLY SPLICED AT ANY LEVEL AND THE VERTICAL DISTANCES BETWEEN THESE WELDS OR SPLICES OF ADJACENT BARS IS NOT LESS THAN 600mm.



TYPICAL COLUMN ELEV. SHOWING DOWELS AND TIES SPACING



TYP. DETAIL OF COL. LAP SPICE & EXT. GIRDER TO COL. CONNECT.

NOTES ON BEAMS AND GIRDERS

- UNLESS OTHERWISE NOTED IN PLANS, CAMBER ALL BEAMS AND GIRDER AT LEAST 6mm ϕ FOR EVERY 4.50M OF SPAN, EXCEPT CANTILEVERS FOR WHICH THE CAMBER SHALL BE AS NOTED IN PLANS OR AS ORDERED BY THE ENGINEER BUT IN NO CASE LESS THAN 20mm FOR EVERY 3.0M OF FREE SPAN.
- TYPICAL BARS BENDING AND CUTTING DETAILS FOR BEAMS SHALL BE AS SHOWN IN FIG. B-1.

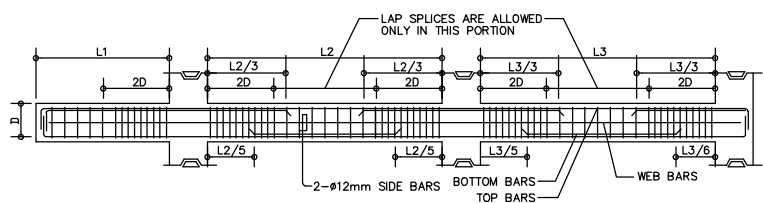


FIG. B-1

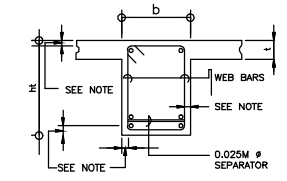
BAR SIZE (DEFORMED)	TABLE 'A' TENSION BARS EMBEDMENT LENGTHS AND LAPPED SPLICED IN MILLIMETERS			
	$f_c = 20.7 \text{ MPa}$ (3000psi)	$f_c = 27.6 \text{ MPa}$ (4000psi)	$f_c = 27.6 \text{ MPa}$ (4000psi)	$f_c = 27.6 \text{ MPa}$ (4000psi)
10mm ϕ	300	300	300	300
12mm ϕ	300	300	300	300
16mm ϕ	300	400	300	400
20mm ϕ	400	550	350	500
25mm ϕ	600	800	550	750
28mm ϕ	750	1000	650	850
32mm ϕ	950	1300	850	1100

NOTE: TOP PLAIN BARS, MULTIPLY VALUE BY 2

BAR SIZE (DEFORMED)	TABLE 'B' COMPRESSION BARS EMBEDMENT LENGTHS AND LAPPED SPLICED IN MILLIMETERS			
	$f_c = 20.7 \text{ MPa}$ (3000psi)	$f_c = 27.6 \text{ MPa}$ (4000psi)	$f_c = 27.6 \text{ MPa}$ (4000psi)	$f_c = 27.6 \text{ MPa}$ (4000psi)
10mm ϕ	225	300	200	300
12mm ϕ	275	300	250	300
16mm ϕ	350	400	325	400
20mm ϕ	450	500	475	500
25mm ϕ	650	625	550	625
28mm ϕ	625	675	625	675
32mm ϕ	700	775	700	775

NOTE: TOP PLAIN BARS, MULTIPLY VALUE BY 2
VALUES GIVEN ABOVE CAN ALSO BE USED FOR COLUMNS.

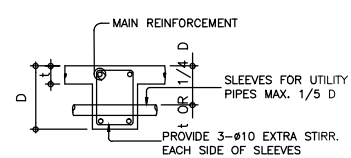
- IF THE BEAM REINFORCING BARS END IN A WALL THE CLEAR DISTANCE FROM THE BAR TO THE FARTHER FACE OF THE WALL NOT BE LESS THAN 25mm. EMBEDMENT LENGTH SHALL BE AS SHOWN IN A TABLE 'A' FOR TENSION BARS AND TABLE 'B' FOR COMPRESSION BARS UNLESS SPECIFIED IN PLAN. TOP BAR SHALL NOT BE SPLICED WITHIN THE COLUMN OR WITHIN A DISTANCE TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. AT LEAST TWO STIRRUPS SHALL BE PROVIDED AT ALL SPLICES.
- IF THERE ARE TWO OR MORE LAYERS OF REINFORCING BARS, USE 25mm ϕ BAR SEPARATORS SPACED AT 1.0M ON CENTER. IN NO CASE SHALL THERE BE LESS THAN TWO (2) SEPARATORS BETWEEN TWO LAYERS OF BARS.
- MINIMUM CONCRETE PROTECTION FOR REINFORCING BARS OR STEEL SHAPES SHALL BE AS SHOWN IN FIG. B-2 UNLESS SPECIFIED ELSEWHERE.



NOTE 1

20 mm CLEAR FOR JOIST
40 mm CLEAR FOR BEAMS AND GIRDERS

FIG. B-2



TYP. DET. FOR SLEEVES THRU CONCRETE BEAM

FIG. B-3

- WHEN A BEAM CROSSES A GIRDER, REST BEAM ON TOP OF GIRDER BARS, BEAM REINFORCING BAR SHALL BE SYMMETRICAL ABOUT CENTER LINE WHENEVER POSSIBLE.
- GENERALLY NO SPLICES SHALL BE PERMITTED AT POINTS WHERE CRITICAL BENDING STRESSES OCCUR. SPLICES WHERE SO PERMITTED SHALL BE INDICATED IN THE TABLE 'A' AND 'B'. WELDED SPLICES SHALL DEVELOP IN TENSION AT LEAST 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR. NOT MORE THAN 50% OF THE BARS AT ANY ONE SECTION IS ALLOWED TO BE SPLICED THEREIN.

	PROJECT TITLE:	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET NO.:
	COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS	AIVY B. GAPOL, CE ENGINEERING ASSISTANT	PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RODRIGO P. MILLARES JR., REE., ENP PLANNING OFFICER	EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	AS SHOWN	S-1 117
LOCATION: BALANGASAN DISTRICT, PAGADIAN CITY	DATE:	DATE:	DATE:	DATE:	DATE:		

GENERAL CONSTRUCTION NOTES

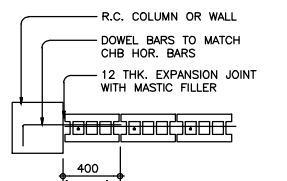
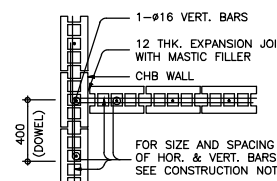
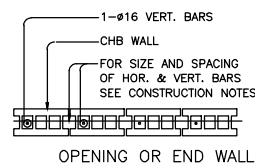
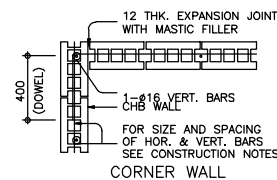
NOTES ON CONCRETE HOLLOW BLOCK WALLS

- UNLESS OTHERWISE SHOWN IN PLANS ALL CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCKS SHALL BE REINFORCED AS SHOWN IN THE SCHEDULE OF CONCRETE HOLLOW BLOCKS AND CERAMIC BLOCK REINFORCEMENT.
- PROVIDE 150mm x 300mm STIFFENER COLUMN REINFORCED WITH 4-12mm WITH 6mm# TIES AT 150mm ON CENTER WHERE CONCRETE HOLLOW BLOCK TERMINATES AND AT EVERY 3.0M LENGTH OF CONCRETE HOLLOW BLOCK WALLS UNLESS NOTED IN STRUCTURAL PLANS.

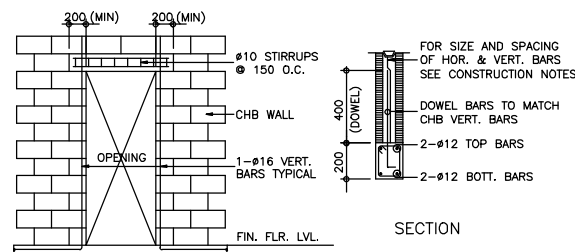
BLOCK THICKNESS	REINFORCEMENT		NOTES
	HORIZONTAL	VERTICAL	
75 mm	10mm# @ 600mm O.C.	10mm# @ 600mm O.C.	A. MINIMUM LAPS AT SPLICE = 0.25M B. PROVIDE RIGHT ANGLED REINFORCEMENT AT CORNERS 0.92M LONG C. WHERE CHB OR CER. BLK. WALL DOWELS JOIN COL. R.C. BEAMS AND WALL DOWELS WITH THE SAME SIZE AS VERT. OR HOR. REINFORCEMENTS SHALL BE PROVIDED
125 mm	10mm# @ 600mm O.C.	10mm# @ 600mm O.C.	
150 mm	10mm# @ 600mm O.C.	10mm# @ 600mm O.C.	
200 mm	12mm# @ 600mm O.C.	12mm# @ 600mm O.C.	

REINFORCING CONCRETE LINTEL BEAM IN CONCRETE BLOCK WALLS

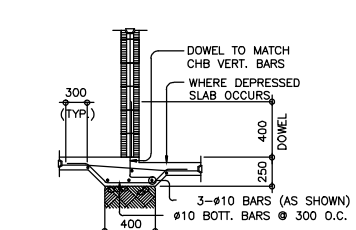
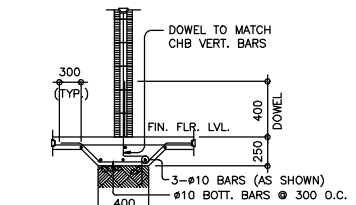
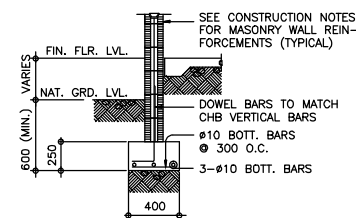
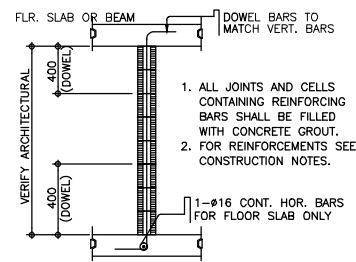
CLEAR SPAN (L+0.40M) (%)	TOTAL LENGTH (L+0.40M)	MIN. HEIGHT OF LINTEL (MM)	REINFORCEMENT			
			BOTTOM	TOP	STIRRUPS	
1.20M	1.60M	200	1-#10	1-#10	#6mm @ 200mm	
1.50M	1.90M	200	1-#10	1-#10	#6mm @ 200mm	
1.80M	2.20M	200	1-#12	1-#10	#6mm @ 200mm	
2.10M	2.50M	250	1-#12	1-#10	#6mm @ 200mm	
2.40M	2.90M	250	1-#12	1-#10	#6mm @ 200mm	
2.70M	3.10M	250	1-#16	1-#12	#10mm @ 200mm	
3.00	3.40M	300	1-#16	1-#12	#10mm @ 200mm	
3.30	3.70M	300	1-#16	1-#12	#10mm @ 200mm	
3.60	4.00	300	1-#20	1-#12	#10mm @ 200mm	



TYPICAL CONNECTION DETAIL OF MASONRY WALL



TYP. DET. OF LINTEL BEAM AT CHB WALL OPENING



NOTES ON CONCRETE WALLS

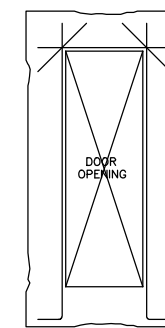
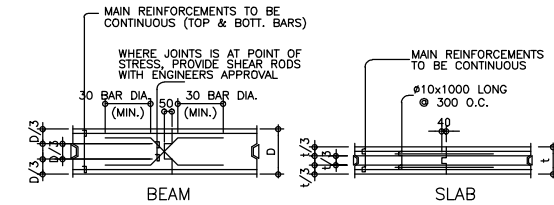
- ALL WALLS SHALL BE REINFORCED ACCORDING TO THE FOLLOWING SCHEDULE OF WALL REINFORCEMENT UNLESS OTHERWISE INDICATED IN THE PLANS.

WALL THICKNESS	REINFORCEMENT		REMARKS	VERTICAL SECTION
	HORIZONTAL	VERTICAL		
100mm	#10mm @ 250mm O.C.	#10mm @ 300mm O.C.	HORIZONTAL BARS AT CENTERS VERTICAL BARS STAGGERED OUT	VERT. BARS HORIZ. BARS
125mm	#10mm @ 200mm O.C.	#10mm @ 250mm O.C.		
150mm	#12mm @ 250mm O.C.	#12mm @ 300mm O.C.		

- REINFORCING BARS SHALL HAVE 25mm CLEAR CONCRETE COVER FROM FACE OF WALL EXCEPT FOR WALLS IN CONTACT WITH THE GROUND WHERE A MINIMUM OF 60mm SHALL BE PROVIDED, AND FOR EXPOSED FACES OF FORMED WALLS WHERE THE MINIMUM SHALL BE 50mm CLEAR.
- CARRY VERTICAL BARS AT LEAST 60mm ABOVE FLOOR LEVEL TO PROVIDE FOR SPLICES WHEN NECESSARY STOP AT 50mm BELOW TOP SLAB OR SOLID BAND WHERE THE WALL ENDS VERTICAL AND HORIZONTAL BARS SHALL BE SPLICED BY LAPPING A DISTANCE EQUAL TO 30 DIAMETERS AND WIRED SECURELY WITH 16 G.I. WIRE PROVIDED THAT SPLICES IN ADJACENT BARS ARE STAGGERED AT LEAST 1.50M O.C.
- UNLESS OTHERWISE NOTED IN THE PLANS, ALL OPENINGS IN WALLS 250mm OR THICKER SHALL BE REINFORCED AROUND WITH 2-20mm# BARS FOR 225mm, 200mm, 175mm, 150mm. USE 2-16mm# FOR 125mm AND 100mm WALLS. USE 2-12mm# BARS. ALL WALLS SPANNING SHALL HAVE VERTICAL REINFORCEMENT BENT TO A U-FORM LIKE STIRRUPS AND SPACED ACCORDING TO THE SCHEDULE UNLESS OTHERWISE NOTED (SEE FIG.1)

NOTES ON CONSTRUCTION JOINTS IN CONCRETE

- WHERE A CONSTRUCTION JOINT IS TO BE MADE, THE SURFACE OF CONCRETE SHALL BE CLEANED AND ALL LAITANCE AND STANDING WATER REMOVED. SHEAR KEY SHALL BE PROVIDED AT THE JOINT.



- NOTE: PROVIDE THESE ADDITIONAL BARS FOR ALL OPENINGS PLUS BARS (NOT SHOWN) PARALLEL TO SIDE OF OPENING EQUAL TO THE NUMBER OF TERMINATED BARS AT OPENING. SEE ARCHITECTURAL & MECHANICAL PLANS FOR SLAB OPENING LOCATION.

NOTES ON WELDS

- USE E70xx ELECTRODES FOR ALL MEMBERS WELDED.
- WELDS SHALL DEVELOP THE FULL STRENGTH OF MEMBERS JOINED UNLESS OTHERWISE SHOWN OR DETAILED IN THE DRAWINGS.

NOTES ON STRUCTURAL STEEL

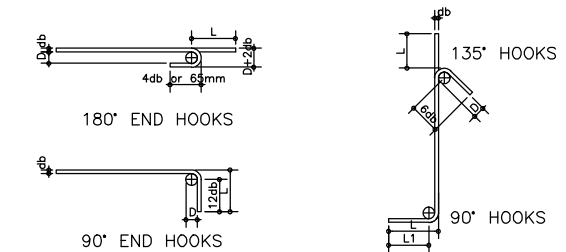
- STRUCTURAL STEEL TO BE USED FOR FABRICATION AND ERECTION OF THIS STRUCTURE SHALL COMPLY WITH ALL THE PERTINENT PROVISIONS OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDING LATEST EDITION.
- ALL STRUCTURAL STEEL SHAPES SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
- ALL WELDED CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE MEMBERS CONNECTED.
- UNLESS OTHERWISE SPECIFIED ALL WELDING RODS SHALL CONFORM AWS E60 ELECTRODES.
- ALL BOLTS USED UNLESS OTHERWISE SPECIFIED SHALL BE ASTM A307 BOLTS.

NOTES ON EMBEDDED PIPES

- ALL EMBEDDED PIPES FOR UTILITIES, ETC. THAT PASS THRU BEAMS SHALL NOT EXCEED 100mm IN DIAMETER OR 1/3 BEAM DEPTH WHICHEVER IS LESS, UNLESS OTHERWISE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- NO PIPES SHALL BE ALLOWED TO PASS THRU BEAMS VERTICALLY.
- NO PIPES SHALL BE EMBEDDED IN COLUMNS.

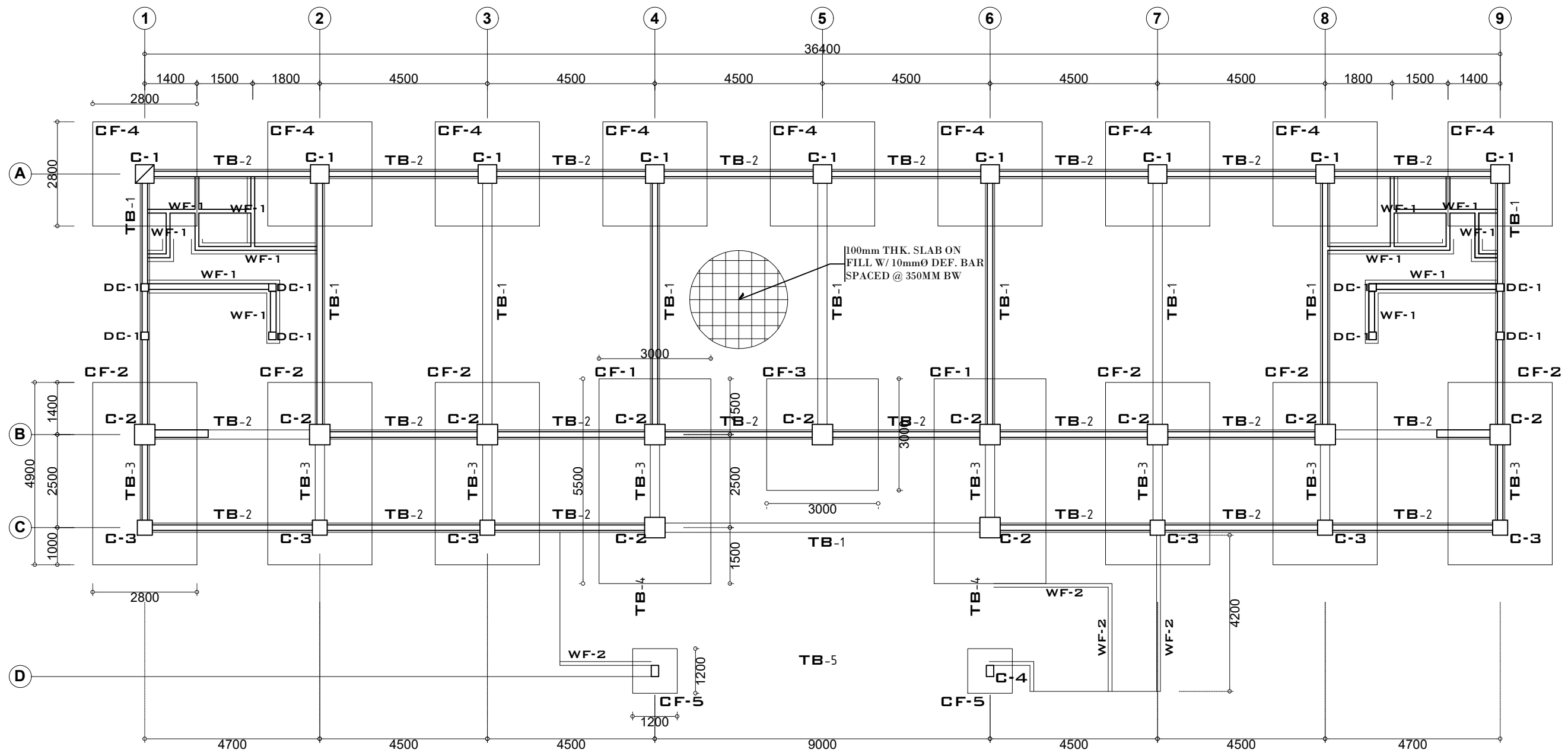
NOTES OF STIRRUPS

- ALL REINFORCEMENT SHALL BE BENT COLD UNLESS OTHERWISE PERMITTED BY THE STRUCTURAL ENGINEER.
- REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FILLED BENT, EXCEPT AS SHOWN IN THE DESIGN DRAWINGS OR PERMITTED BY THE STRUCTURAL ENGINEER.
- TIES & CLOSE STIRRUPS MUST BE BENT AT 135°.


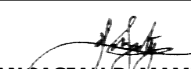
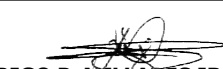
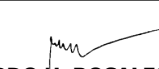


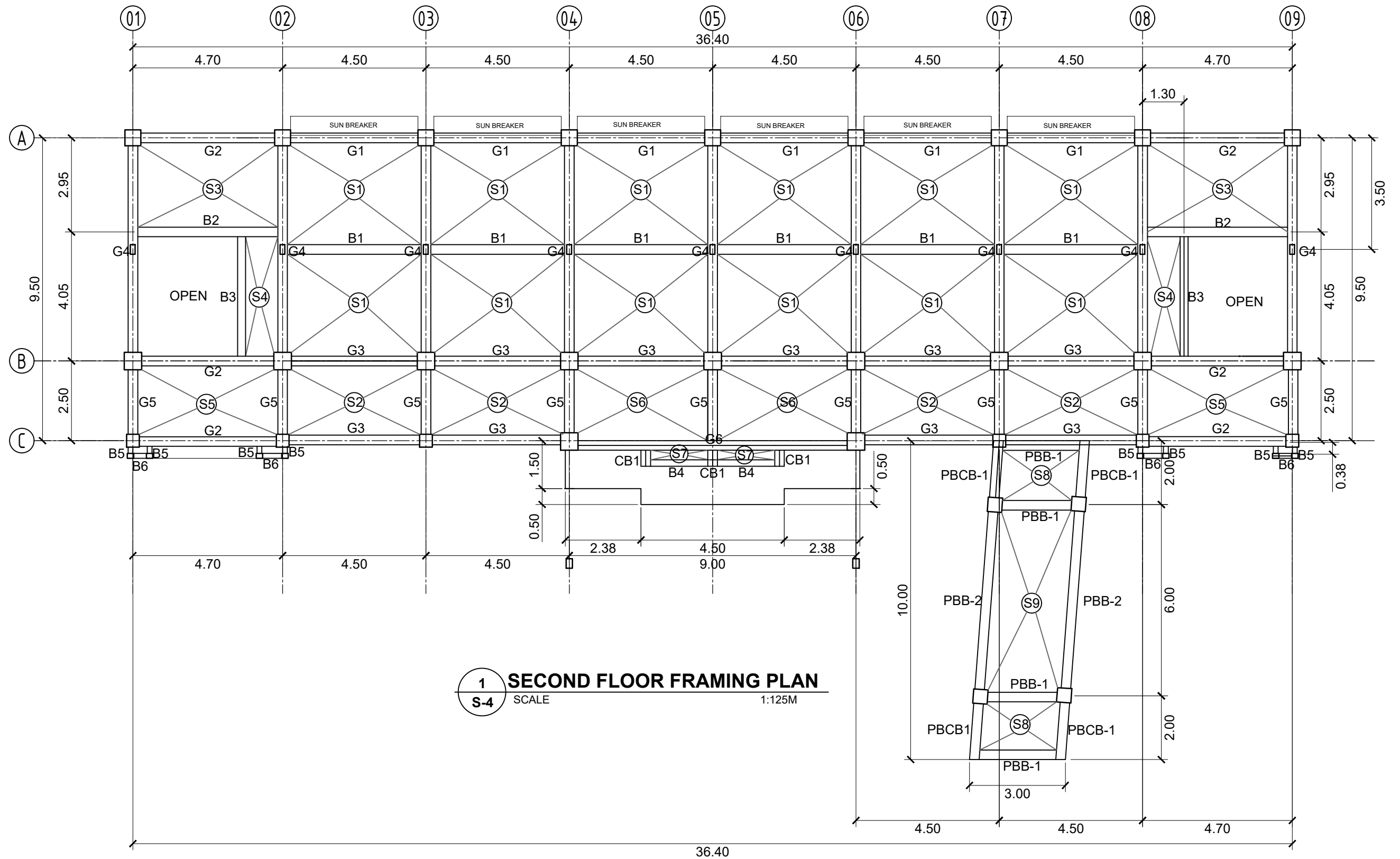
BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK	
		D+2db	L	L	L
10mm #	60	75	125	150	
12mm #	75	100	150	200	
16mm #	95	125	175	250	
20mm #	115	150	200	300	
25mm #	150	200	230	450	
28mm #	240	300	350	550	
32mm #	300	335	450	600	

BAR SIZE (DEFORMED)	DIAMETER (mm)	180° HOOK		90° HOOK	
		D+2db	L	L	L
10mm #	40	125	85	100	
12mm #	50	165	115	115	
16mm #	65	200	140	150	
20mm #	115	250	165	300	
25mm #	150	365	230	405	





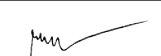


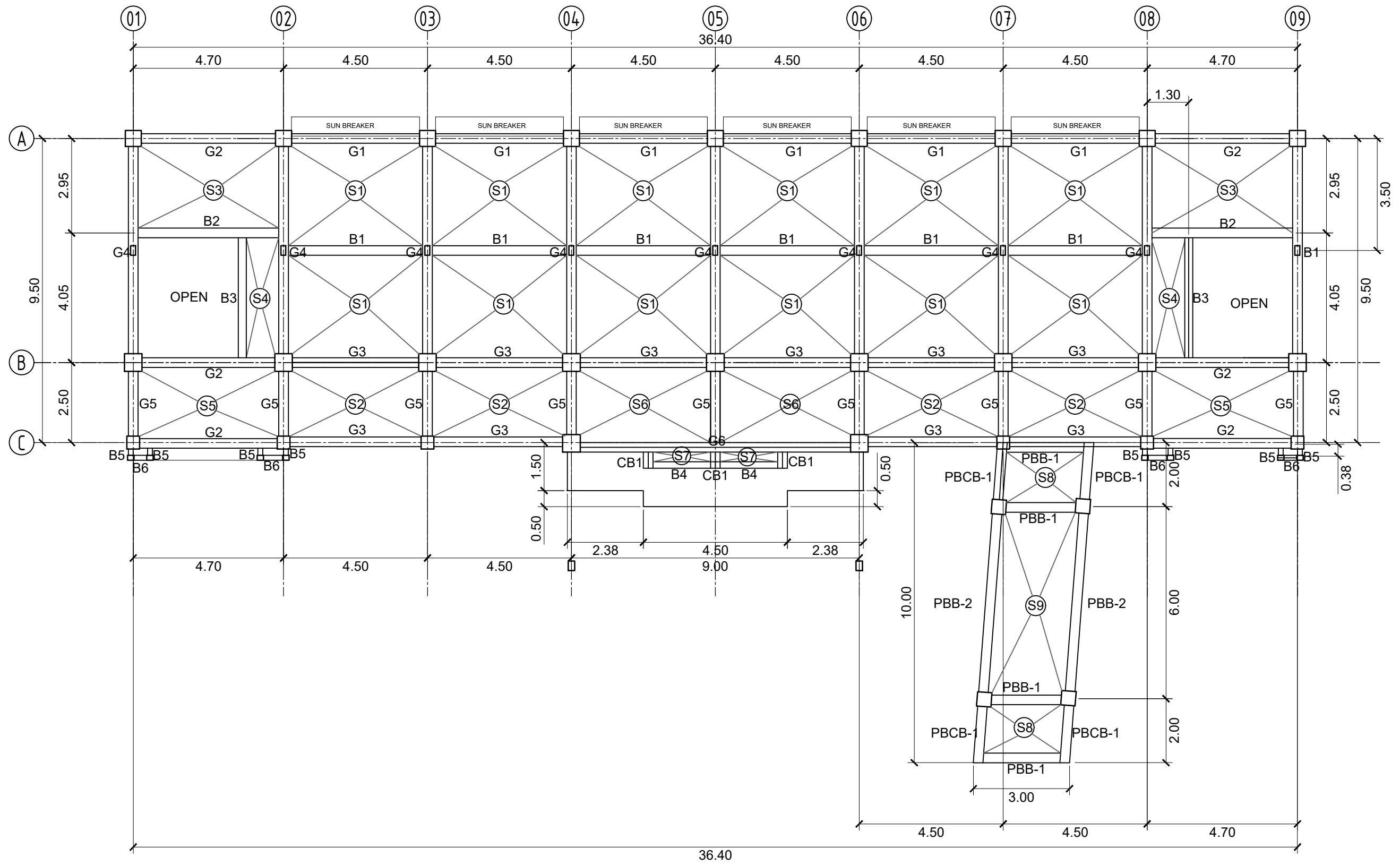
1 FOUNDATION PLAN
 S-3 SCALE 1:120M

	PROJECT TITLE : COMPLETION OF ACADEMIC BUILDING, JHSCS PAGADIAN CAMPUS LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	PREPARED BY:  AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY:  PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL:  RODRIGO P. MILLARES JR., REE., ENP PLANNING OFFICER	APPROVED:  EDGARDO H. ROSALES, Ed.D. JHSCS - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: S-3 3 17
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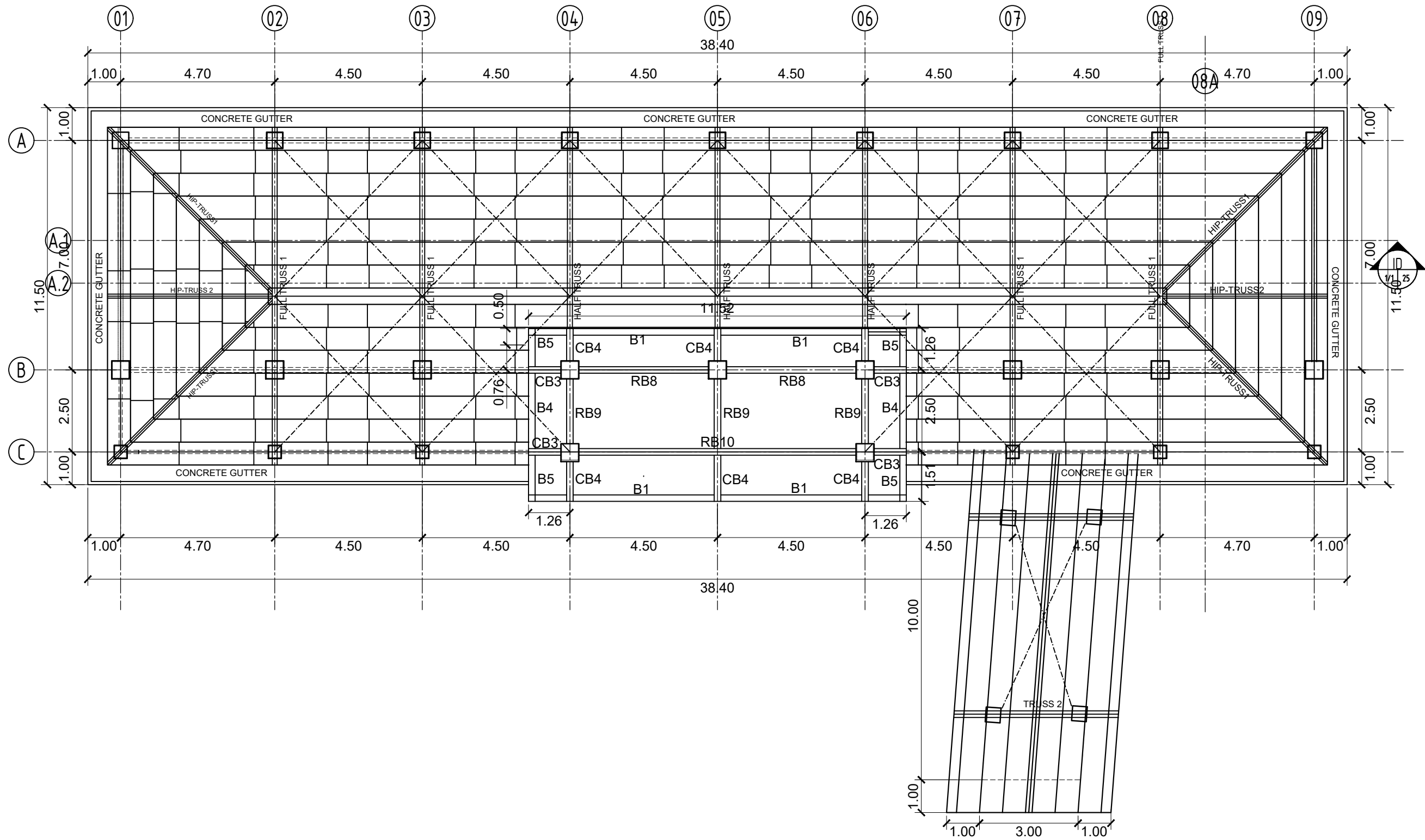
1 SECOND FLOOR FRAMING PLAN
 S-4 SCALE 1:125M

	PROJECT TITLE :	PREPARED BY :	CHECKED & SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED :	SHEET CONTENT :	SHEET NO. :
	COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	 AIVY B. GAPOL, CE ENGINEERING ASSISTANT	 PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	 RODRIGO P. MILLARES JR., REE., ENP PLANNING OFFICER	 EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	AS SHOWN	S-4 4 17
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		

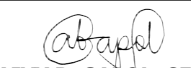

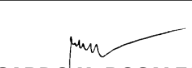


1
THIRD FLOOR FRAMING PLAN
S-5 SCALE 1:125M

	PROJECT TITLE: COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	PREPARED BY:  AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY:  PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL:  RODRIGO P. MILLARES JR., REE., ENP PLANNING OFFICER	APPROVED:  EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO: S-5 5 17
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY		DATE :		DATE :		DATE :	

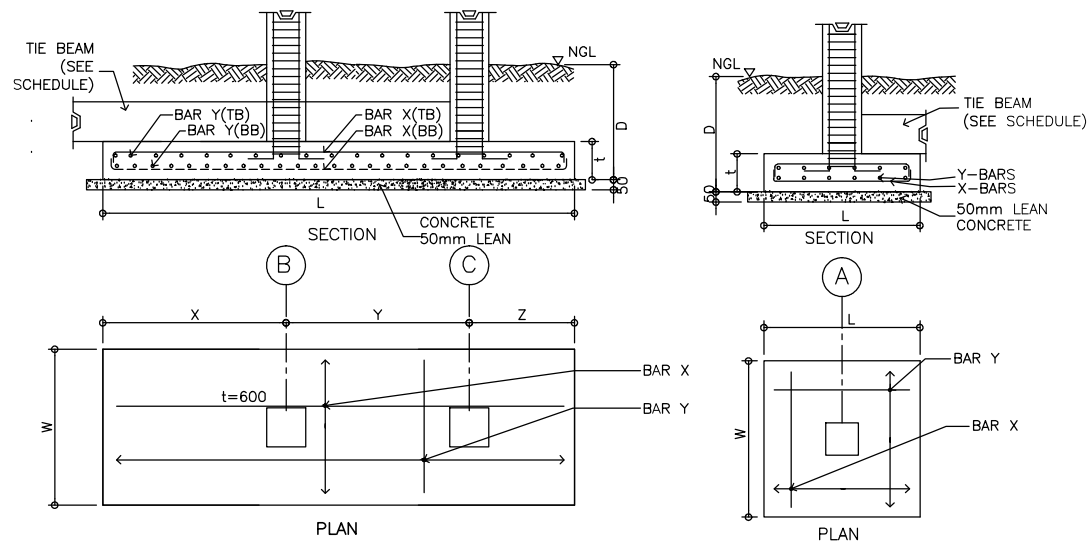


1 EXTENSION ROOF BEAM PLAN
 S-7 SCALE 1:125M

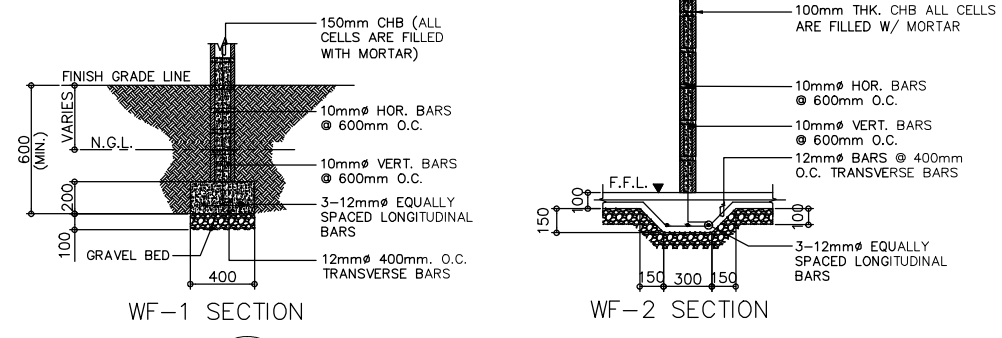
	PROJECT TITLE : COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	PREPARED BY:  AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY:  PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL:  RODRIGO P. MILLARES JR., REE., ENP PLANNING OFFICER	APPROVED:  EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: S-7 7 / 17
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SCHEDULE OF FOOTING

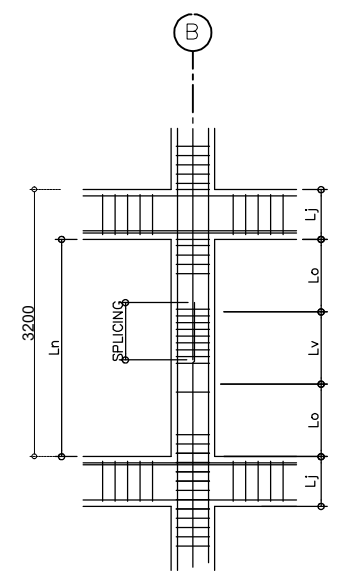
FOOTING REMARKS	FOOTING DIMENSIONS (m)							REINFORCEMENT				REMARKS
	LENGTH (m)	WIDTH (m)	X (m)	Y (m)	Z (m)	Thickness (m)	FOUNDING DEPTH (m)	BAR X		BAR Y		
								TOP	BOTTOM	TOP	BOTTOM	
CF-1	5.50	3.00	1.50	2.50	1.50	0.50	2.50	16 @ 100mm	20 @ 100mm	16 @ 150mm	20 @ 150mm	COMBINED FOOTING ALONG GRID B & C
CF-2	4.90	2.80	1.40	2.50	1.00	0.50	2.50	16 @ 100mm	20 @ 100mm	16 @ 150mm	20 @ 150mm	COMBINED FOOTING ALONG GRID B & C
CF-3	3.00	3.00	-	-	-	0.50	2.50	21 - 16mmØ @ 150mm	21 - 20mmØ @ 150mm	21 - 16mmØ @ 150mm	21 - 20mmØ @ 150mm	SQUARE FOOTING ALONG GRID B
CF-4	2.80	2.80	-	-	-	0.50	2.50	20 - 16mmØ @ 150mm	20 - 20mmØ @ 150mm	20 - 16mmØ @ 150mm	20 - 20mmØ @ 150mm	SQUARE FOOTING ALONG GRID A
CF-5	1.20	1.20	-	-	-	0.30	1.20		9- 16mmØ @ 150mm		9- 16mmØ @ 150mm	SQUARE FOOTING ALONG GRID D
CF-6 (PB)	3.00	3.00	-	-	-	0.40	2.40		20 - 20mmØ @ 150mm		20 - 20mmØ @ 150mm	SQUARE FOOTING



1 TYPICAL FOOTING DETAIL
S-4 NOT TO SCALE



3 DETAIL OF WALL FOOTINGS
S-4 SCALE 1:20 M.



2 ELEVATION OF COLUMN
S-4 SCALE 1:100 M.

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9184, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/IES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

	PROJECT TITLE : COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	PREPARED BY: AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY: PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL: RODRIGO P. MILLARES JR., REE., ENP PLANNING OFFICER	APPROVED: EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO: S-9 9 17
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY		DATE :		DATE :		DATE :	

COLUMN SCHEDULE

LEVEL		C-1	C-2	C-3	C-4	C-6 (PB)	CS-1	CS-2	DC-1
3F TO ROOF									
	SIZE MAIN BAR TIES (Lv) CONFINEMENT TIES (Lo & Lj)	MAIN BAR: 12-25MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 12-25MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 12-20MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 12-20MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 100MM, REST @ 150MM TO CENTER	MAIN BAR: 10-20MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 4-16MMØ TIES: 10MMØ - SET 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 6-16MMØ TIES: 10MMØ - 1 SET 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 4-16MMØ TIES: 10MMØ - 1 SET 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER
2F TO 3F									
	SIZE MAIN BAR TIES (Lv) CONFINEMENT TIES (Lo & Lj)	MAIN BAR: 12-25MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 12-25MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 100MM, REST @ 150MM TO CENTER	MAIN BAR: 12-20MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 100MM, REST @ 150MM TO CENTER	MAIN BAR: 12-20MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 100MM, REST @ 150MM TO CENTER	MAIN BAR: 12-20MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 4-16MMØ TIES: 10MMØ - 1 SET 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 6-16MMØ TIES: 10MMØ - 1 SET 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 4-16MMØ TIES: 10MMØ - 1 SET 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER
GF TO 2F									
	SIZE MAIN BAR TIES (Lv) CONFINEMENT TIES (Lo & Lj)	MAIN BAR: 12-25MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 12-25MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 100MM, REST @ 150MM TO CENTER	MAIN BAR: 12-20MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 100MM, REST @ 150MM TO CENTER	MAIN BAR: 6-16MMØ TIES: 10MMØ - 1 SET 2 @ 50MM, 8 @ 100MM, REST @ 150MM TO CENTER	MAIN BAR: 12-20MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 4-16MMØ TIES: 10MMØ - 1 SET 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 6-16MMØ TIES: 10MMØ - 1 SET 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 4-16MMØ TIES: 10MMØ - 1 SET 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER
FDN TO GF									
	SIZE MAIN BAR TIES (Lv) CONFINEMENT TIES (Lo & Lj)	MAIN BAR: 12-25MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 75MM, REST @ 100MM TO CENTER	MAIN BAR: 12-25MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 100MM, REST @ 150MM TO CENTER	MAIN BAR: 12-20MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 100MM, REST @ 150MM TO CENTER	MAIN BAR: 6-16MMØ TIES: 10MMØ - 1 SET 2 @ 50MM, 8 @ 100MM, REST @ 150MM TO CENTER	MAIN BAR: 12-20MMØ TIES: 10MMØ - 3 SETS 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 4-16MMØ TIES: 10MMØ - 1 SET 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 6-16MMØ TIES: 10MMØ - 1 SET 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER	MAIN BAR: 4-16MMØ TIES: 10MMØ - 1 SET 2 @ 50MM, 8 @ 75MM, REST @ 150MM TO CENTER



PROJECT TITLE :
**COMPLETION OF ACADEMIC BUILDING, JHSC
PAGADIAN CAMPUS**

PREPARED BY:

AIVY B. GAPOL, CE
ENGINEERING ASSISTANT

CHECKED & SUBMITTED BY:

PANGASIAN B. MAMINTAS, CE
COLLEGE ENGINEER

RECOMMENDING APPROVAL:

RODRIGO P. MILLARES JR., REE., ENP
PLANNING OFFICER

APPROVED:

EDGARDO H. ROSALES, Ed.D.
JHSC - PRESIDENT

SHEET CONTENT:
AS SHOWN

SHEET NO.:
S-10
1017

LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY

DATE :

DATE :

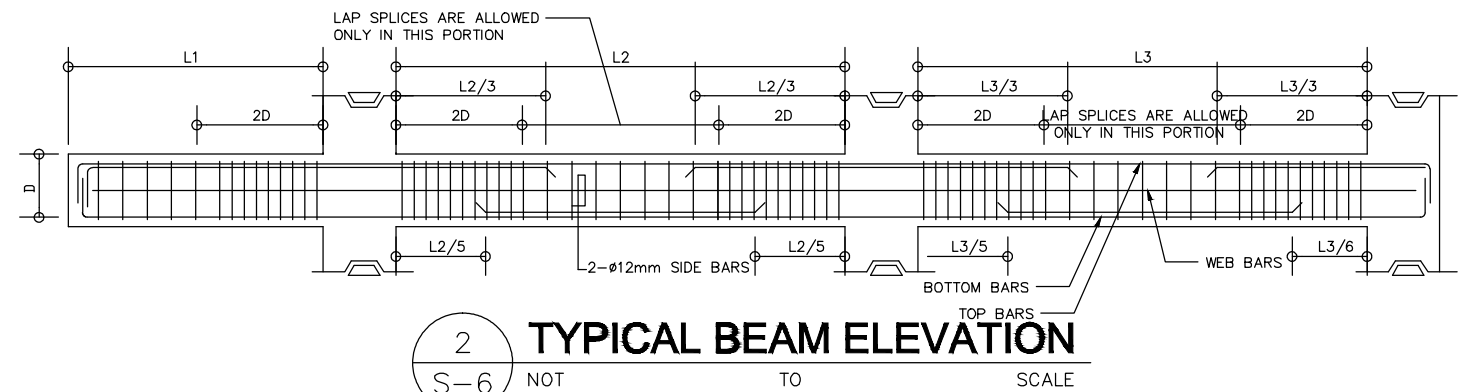
DATE :

DATE :

SCHEDULE OF BEAMS & GIRDERS

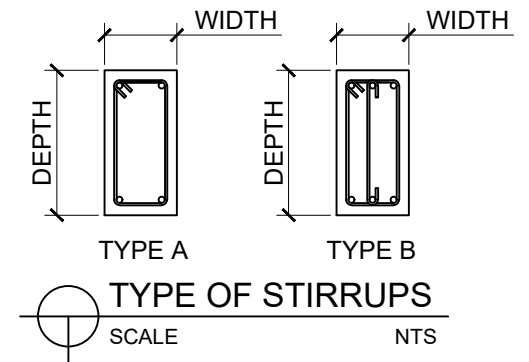
FLOOR LEVEL	BEAM MARK	BEAM DIMENSIONS (IN (mm))		STEEL REINFORCEMENT							STIRRUPS (10mmØ BARS)		CONFIGURATION	TYPE
				REBAR (mm Ø)	LEFT		MIDDLE		RIGHT		WEB BARS (12MM)			
					TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM				
ROOF LEVEL	RB-1	250	500	Ø20mm	5	3	3	5	5	3	2	I	A	
	RB-2	250	500	Ø20mm	3	2	2	3	3	2	2	III	A	
	RB-3	250	500	Ø20mm	3	2	2	3	3	2	2	II	A	
	RB-4	250	500	Ø20mm	3	2	2	3	3	2	2	I	B	
	RB-5	250	500	Ø20mm	7	3	3	5	7	3	2	VI	A	
	RB-6	300	500	Ø20mm	5	3	3	5	5	3	2	III	A	
	RB-7	200	400	Ø20mm	5	2	2	5	5	2	2	II	A	
	RB-8	200	400	Ø20mm	5	2	2	5	5	2	2	I	A	
	RB-9	200	400	Ø20mm	5	2	2	5	5	2	2	VI	A	
	RB-10	300	500	Ø20mm	7	3	3	5	7	3	2	VI	A	
2nd FLOOR LEVEL	B-1	200	500	Ø16mm	5	3	3	5	5	3		IV	A	
	B-2	200	500	Ø16mm	5	3	3	5	5	3		IV	A	
	B-3	200	500	Ø16mm	5	3	3	5	5	3		V	A	
	B-4	200	500	Ø16mm	5	3	3	5	5	3		V	A	
	B-5	200	500	Ø16mm	5	3	3	5	5	3		IV	A	
	B-6	200	500	Ø16mm	5	3	3	5	5	3		VI	A	
	B-7	200	500	Ø16mm	5	3	3	5	5	3		VI	A	
	B-8	200	500	Ø16mm	5	3	3	5	5	3		VI	A	
	PBRB-1	250	500	Ø20mm	5	3	3	5	5	3	2	III	A	
	PBRB-2	250	500	Ø20mm	5	3	3	5	5	3	2	III	A	
	PBCB-1	250	500	Ø20mm	5	3	5	3	5	3		II	A	
	CB-1	250	500	Ø20mm	3	2	3	2	3	2		IV	A	
	CB-2	250	500	Ø20mm	2	2	2	2	2	2		IV	A	
	CB-3	250	500	Ø20mm	3	2	3	2	3	2		IV	A	
	CB-4	250	500	Ø20mm	3	2	3	2	3	2		IV	A	
	3RD FLOOR LEVEL	G-1	250	500	Ø20mm	5	3	3	5	5	3	2	II	A
		G-2	250	500	Ø20mm	5	3	3	5	5	3	2	II	A
		G-3	250	500	Ø20mm	5	3	3	5	5	3	2	II	A
G-4		300	500	Ø25mm	5	4	4	5	5	4	2	I	B	
G-5		250	500	Ø25mm	3	2	2	3	3	2	2	II	A	
G-6		350	700	Ø25mm	7	4	5	5	7	4	4	I	B	
B-1		200	400	Ø20mm	3	2	2	3	3	2	2	IV	A	
B-2		250	400	Ø20mm	4	2	2	4	4	2	2	III	A	
B-3		200	400	Ø20mm	3	2	2	3	3	2	2	V	A	
B-4		200	400	Ø16mm	2	2	2	2	2	2	2	V	A	
B-5		150	250	Ø16mm	2	2	2	2	2	2	2	VI	A	
B-6		150	250	Ø16mm	2	2	2	2	2	2	2	VI	A	
PBB-1		300	500	Ø20mm	5	3	3	5	5	3	2	VI	B	
PBB-2		350	600	Ø20mm	7	3	3	5	7	3	2	VI	B	
PBCB-1		300	600	Ø20mm	7	3	7	3	7	3	2	VI	B	
CB-1		250	500	Ø20mm	3	2	3	2	3	2		II	A	

FLOOR LEVEL	BEAM MARK	B	D	REBAR (mm Ø)	LEFT		MIDDLE		RIGHT		WEB BARS (12MM)	CONFIGURATION	TYPE	
					TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM				
2nd FLOOR LEVEL	G-1	250	500	Ø20mm	5	3	3	5	5	3		II	A	
	G-2	250	500	Ø20mm	5	3	3	5	5	3		II	A	
	G-3	250	500	Ø20mm	5	3	3	5	5	3		II	A	
	G-4	300	500	Ø25mm	5	4	4	5	5	4		I	B	
	G-5	250	500	Ø25mm	3	2	2	3	3	2		II	A	
	G-6	350	700	Ø25mm	7	4	5	5	7	4		I	B	
	B-1	200	400	Ø20mm	3	2	2	3	3	2		IV	A	
	B-2	250	400	Ø20mm	4	2	2	4	4	2		III	A	
	B-3	200	400	Ø20mm	3	2	2	3	3	2		V	A	
	B-4	200	400	Ø16mm	2	2	2	2	2	2		V	A	
STAIR BEAM	CB-1	250	500	Ø25mm	3	2	3	2	3	2		II	A	
	CB-2	250	500	Ø25mm	3	2	3	2	3	2		II	A	
	PBB-1	300	500	Ø20mm	5	3	3	5	5	3	2	VI	B	
	PBB-2	350	600	Ø20mm	7	3	3	5	7	3	2	VI	B	
	PBCB-1	300	600	Ø20mm	7	3	7	3	7	3	2	VI	B	
	STB-1	200	400	Ø12mm	3	3	3	3	3	3		V	A	
	STB-2	200	400	Ø12mm	3	3	3	3	3	3		V	A	
	FDN.	TB-1	350	500	Ø25mm	8	8	5	4	4	4		I	B
		TB-2	300	400	Ø25mm	8	8	4	4	8	8		II	B
		TB-3	300	400	Ø25mm	8	8	6	6	8	8		II	B



STIRRUP CONFIGURATIONS:

- I - 1 @ 50mm, 10 @ 100mm, 5 @ 150mm, REST @ 200mm TO MIDSPAN
- II - 1 @ 50mm, 8 @ 100mm, 5 @ 150mm, REST @ 175mm TO MIDSPAN
- III - 1 @ 50mm, 8 @ 100mm, REST @ 200mm TO MIDSPAN
- IV - 1 @ 50mm, 8 @ 100mm, REST @ 175mm TO MIDSPAN
- V - 1 @ 50mm, 6 @ 100mm, REST @ 200mm TO MIDSPAN
- VI - 1 @ 50mm, 4 @ 100mm, REST @ 150mm TO MIDSPAN



PROJECT TITLE:
**COMPLETION OF ACADEMIC BUILDING, JHCSC
PAGADIAN CAMPUS**

PREPARED BY:
Abayol
AIVY B. GAPOL, CE
ENGINEERING ASSISTANT

CHECKED & SUBMITTED BY:
Pangasian
PANGASIAN B. MAMINTAS, CE
COLLEGE ENGINEER

RECOMMENDING APPROVAL:
Rodrigo P. Millares Jr.
RODRIGO P. MILLARES JR., REE., ENP
PLANNING OFFICER

APPROVED:
Edgardo H. Rosales
EDGARDO H. ROSALES, Ed.D.
JHCSC - PRESIDENT

SHEET CONTENT:
AS SHOWN

SHEET NO.:
**S-11
1117**

LOCATION: BALANGASAN DISTRICT, PAGADIAN CITY

DATE:

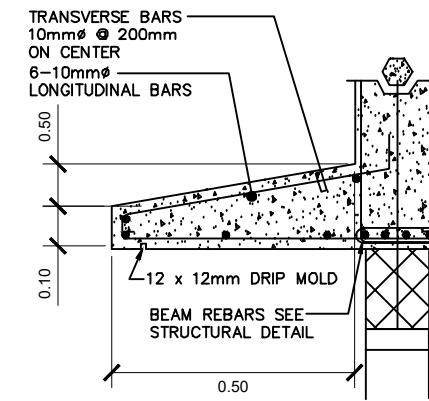
DATE:

DATE:

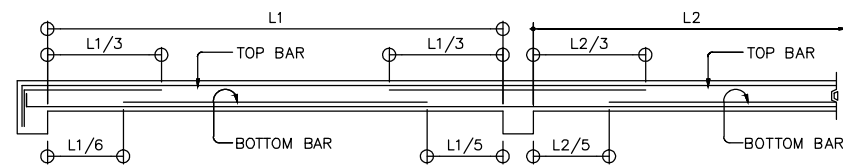
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SCHEDULE OF SLABS

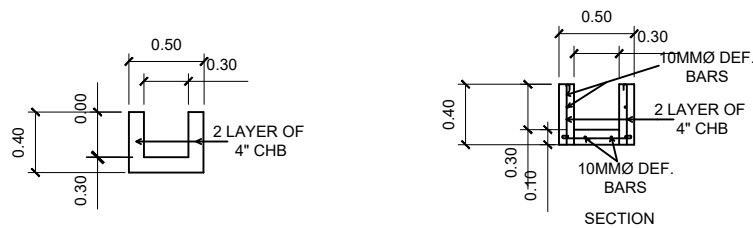
FLOOR LEVEL	SLAB MARK	THICKNESS (mm)	ALONG SHORT DIRECTION						ALONG LONG DIRECTION						REMARKS		
			REBAR (mm ϕ)	CONTINUOUS		MID SPAN		DISCONTINUOUS		REBAR (mm ϕ)	CONTINUOUS		MID SPAN			DISCONTINUOUS	
				TOP	BOTTOM	TOP	BOTTOM	TOP	BOTTOM		TOP	BOTTOM	TOP	BOTTOM		TOP	BOTTOM
3F	S-1	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	2-WAY SLAB
	S-2	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	2-WAY SLAB
	S-3	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	2-WAY SLAB
	S-4	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	1-WAY SLAB
	S-5	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	2-WAY SLAB
	S-6	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	2-WAY SLAB
	S-7	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	1-WAY SLAB
2F PB & 3F PB	S-8	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	2-WAY SLAB
	S-9	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	1-WAY SLAB
2F	S-1	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	2-WAY SLAB
	S-2	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	2-WAY SLAB
	S-3	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	2-WAY SLAB
	S-4	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	2-WAY SLAB
	S-5	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	1-WAY SLAB
	S-6	125	ϕ 10mm	125	125	-	125	125	125	ϕ 10mm	125	125	-	125	125	125	1-WAY SLAB



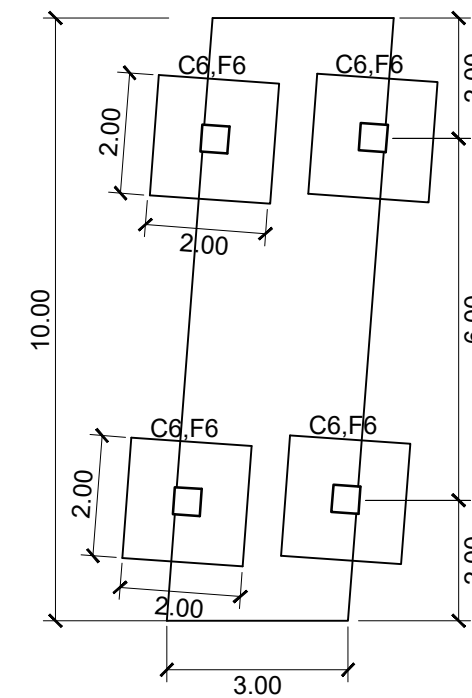
1 SUN BREAKER DETAILS
SCALE 1:80M



1 TYPICAL SLAB ELEVATION
SCALE NOT TO SCALE



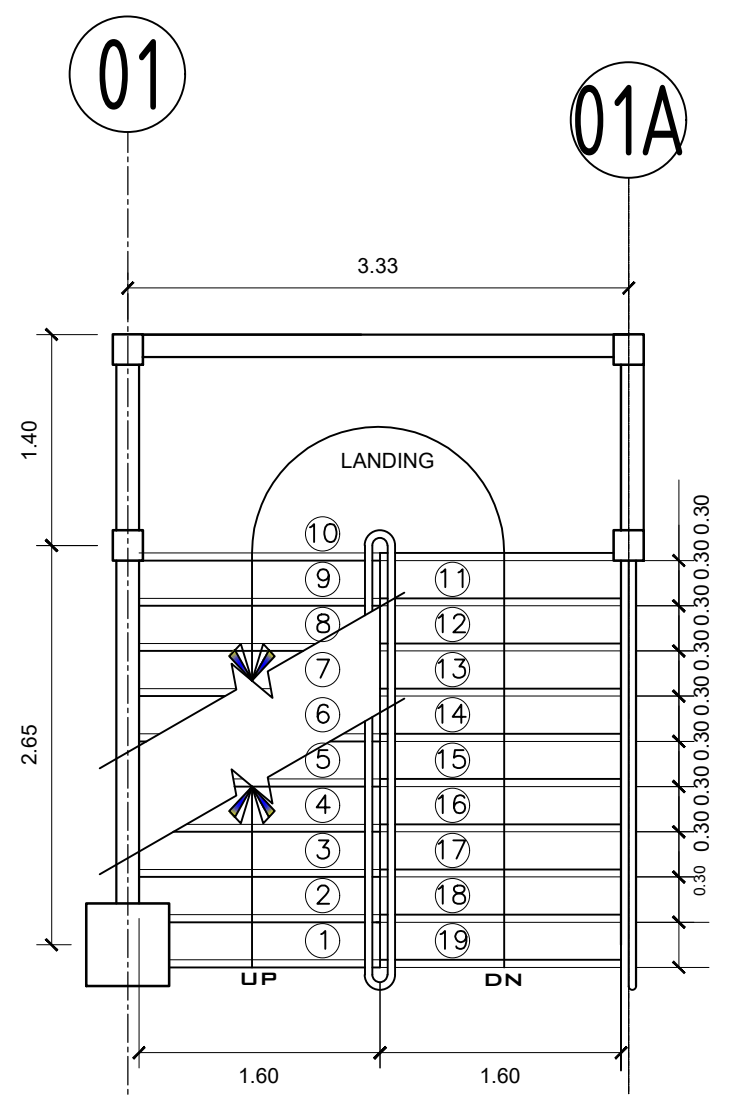
3 CONCRETE LINE CANAL DETAIL
SCALE 1:50M



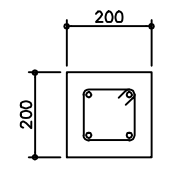
2 PEDESTRIAN BRIDGE FOUNDATION PLAN
SCALE 1:80M



PROJECT TITLE: COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS	PREPARED BY: <i>abapol</i> AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY: <i>Pangasian</i> PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL: <i>Rodrigo P. Millares Jr.</i> RODRIGO P. MILLARES JR., REE., ENP PLANNING OFFICER	APPROVED: <i>Edgardo H. Rosales</i> EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: S-12 1217
LOCATION: BALANGASAN DISTRICT, PAGADIAN CITY	DATE:	DATE:	DATE:	DATE:		



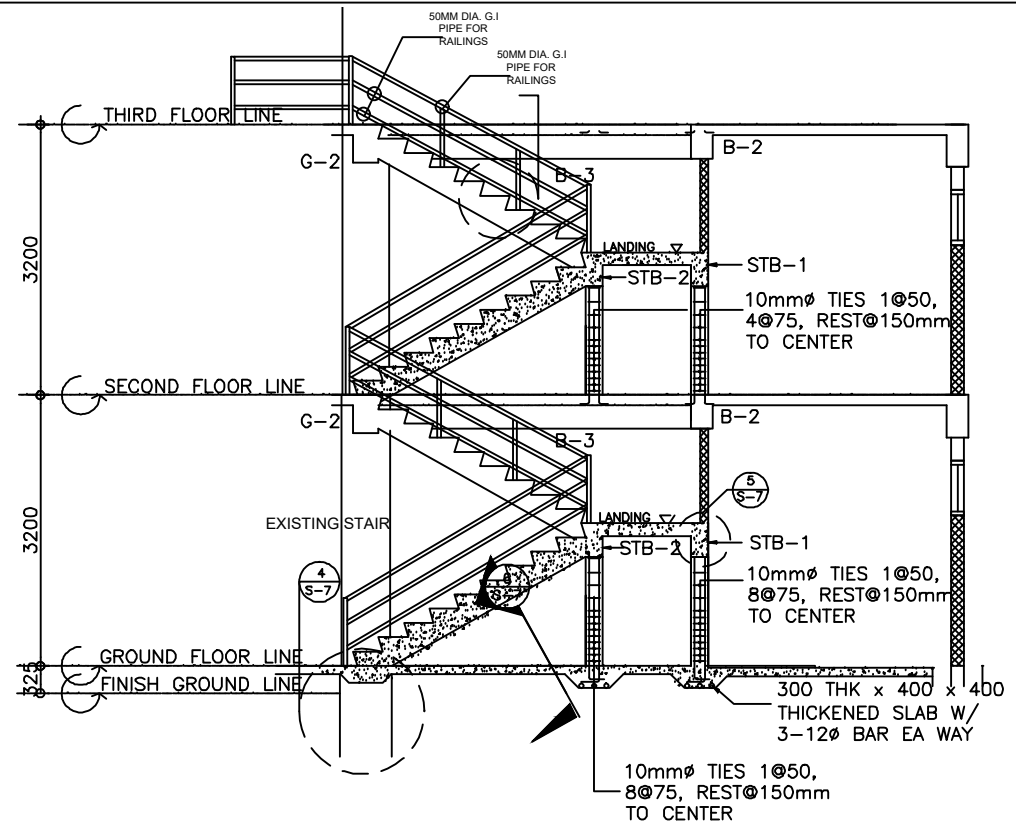
1 STAIR PLAN
S-13 SCALE 1:50M



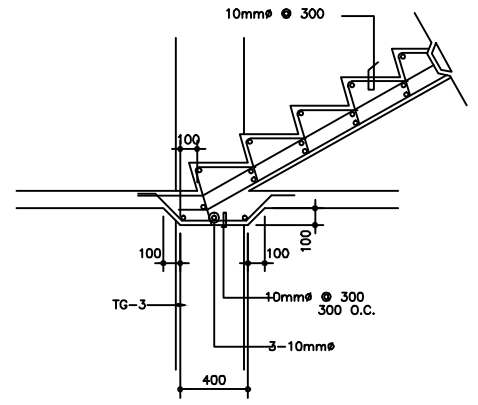
8 DETAIL OF DC-1
S-7 SCALE 1:10M

MAIN BAR:
4- ϕ 16mm

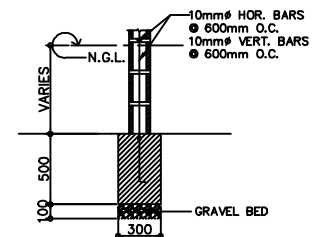
TIES : 10mm ϕ 1 ϕ 50, 8 ϕ 75,
REST ϕ 150mm TO
CENTER



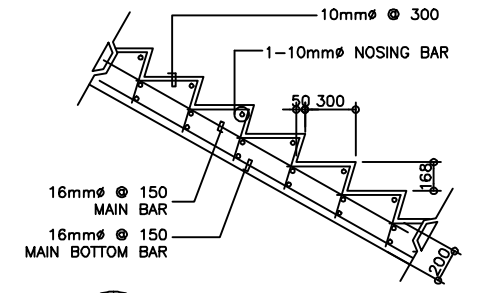
2 STAIR DETAIL
S-13 SCALE 1:100M



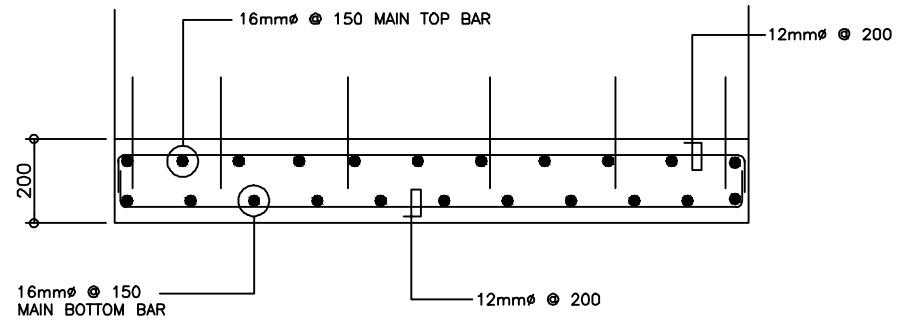
4 SPOT DETAIL
S-7 SCALE 1:20M



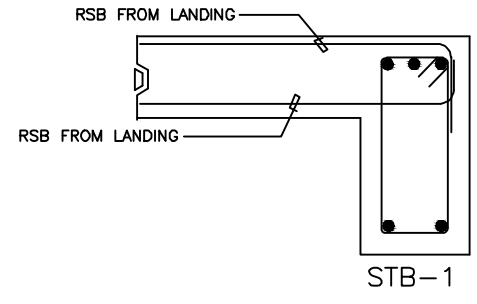
10 DET. OF WALL ON FTB
S-7 SCALE 1:20M



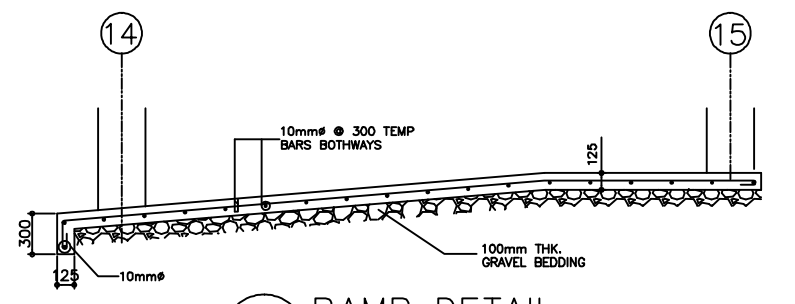
3 SPOT DETAIL
S-7 SCALE 1:20M



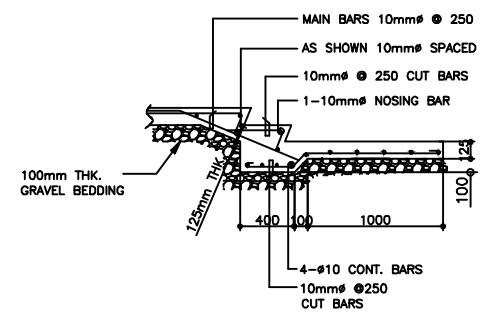
6 SECTION OF STAIR SLAB
S-7 SCALE 1:10M



5 SPOT DETAIL
S-7 SCALE 1:20 M.



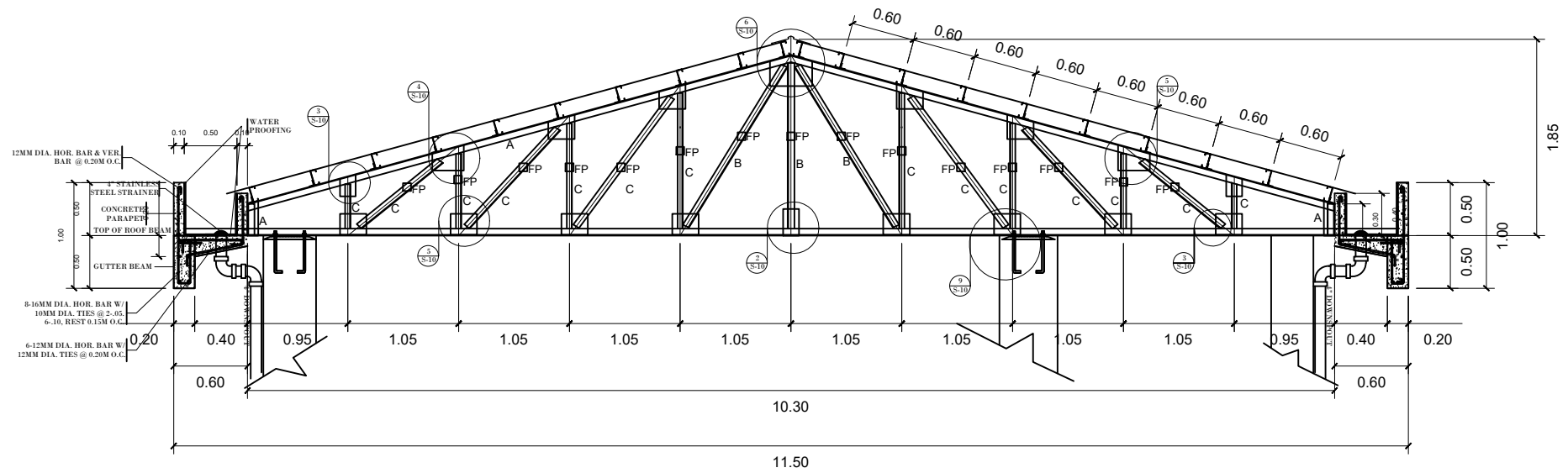
7 RAMP DETAIL
S-7 SCALE 1:30M



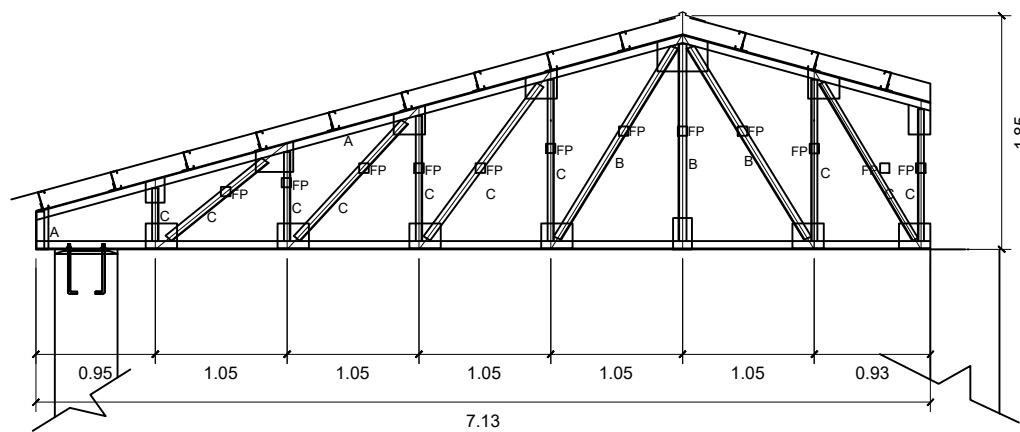
9 DET. OF STAIR ON GRADE
S-7 SCALE 1:25M



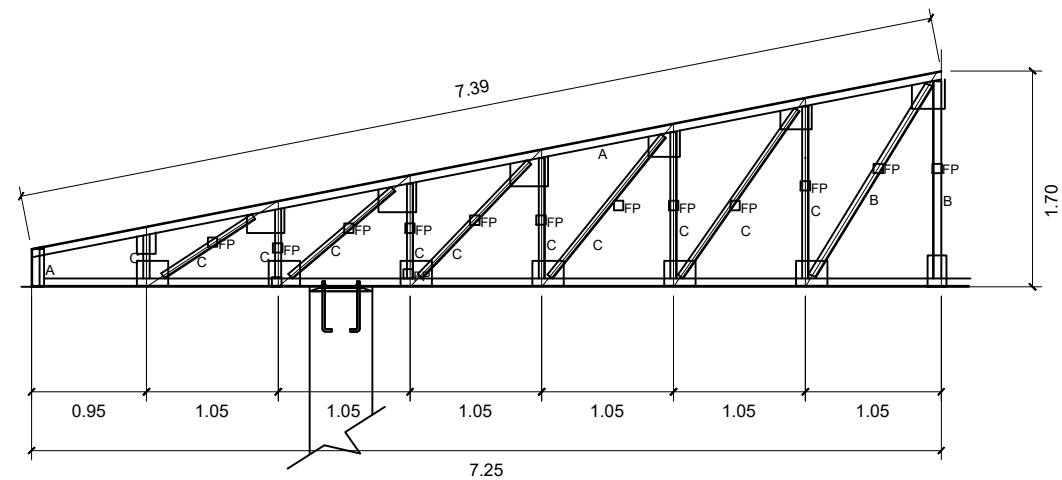
PROJECT TITLE: COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS	PREPARED BY: <i>abapol</i> AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY: <i>Pangasian</i> PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL: <i>Rodrigo</i> RODRIGO P. MILLARES JR., REE., ENP PLANNING OFFICER	APPROVED: <i>Edgardo</i> EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: S-13 1317
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :		



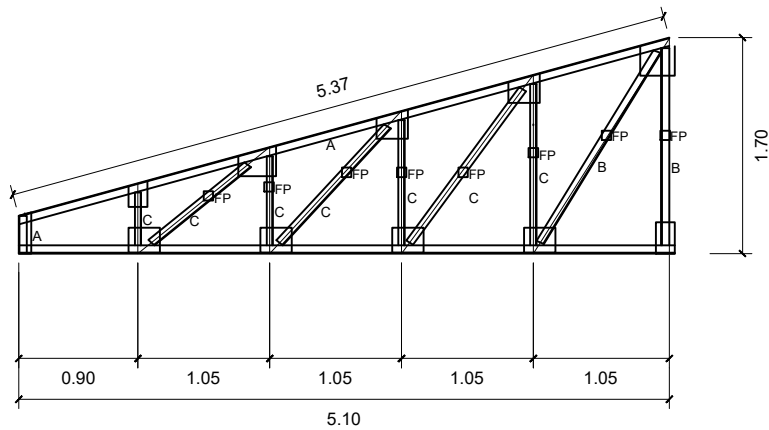
1 FULL TRUSS DETAIL
S-14 SCALE 1:80M



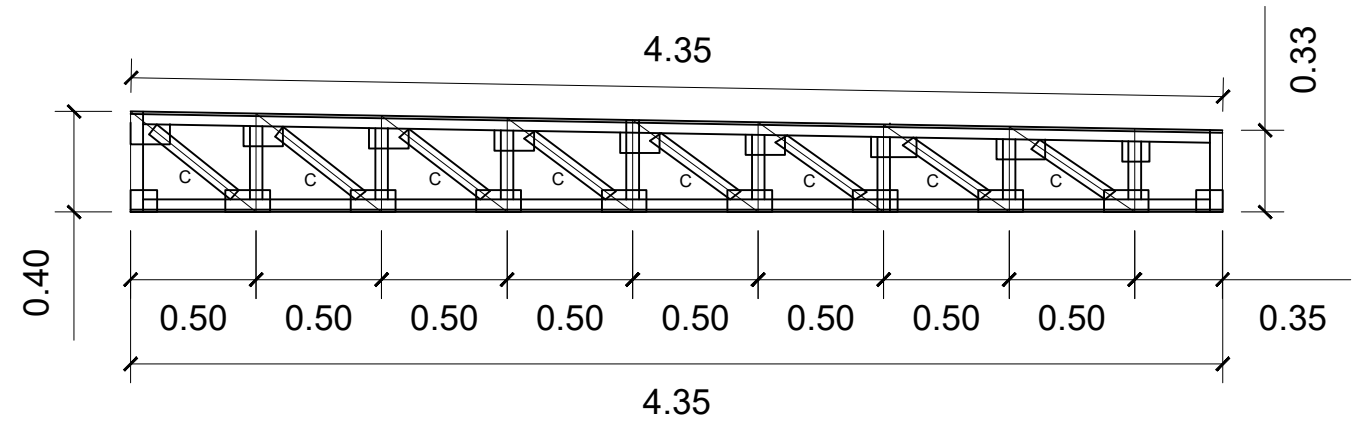
2 HALF TRUSS DETAIL
S-14 SCALE 1:60M



4 HIP-TRUSS 1 DETAIL
S-14 SCALE 1:60M



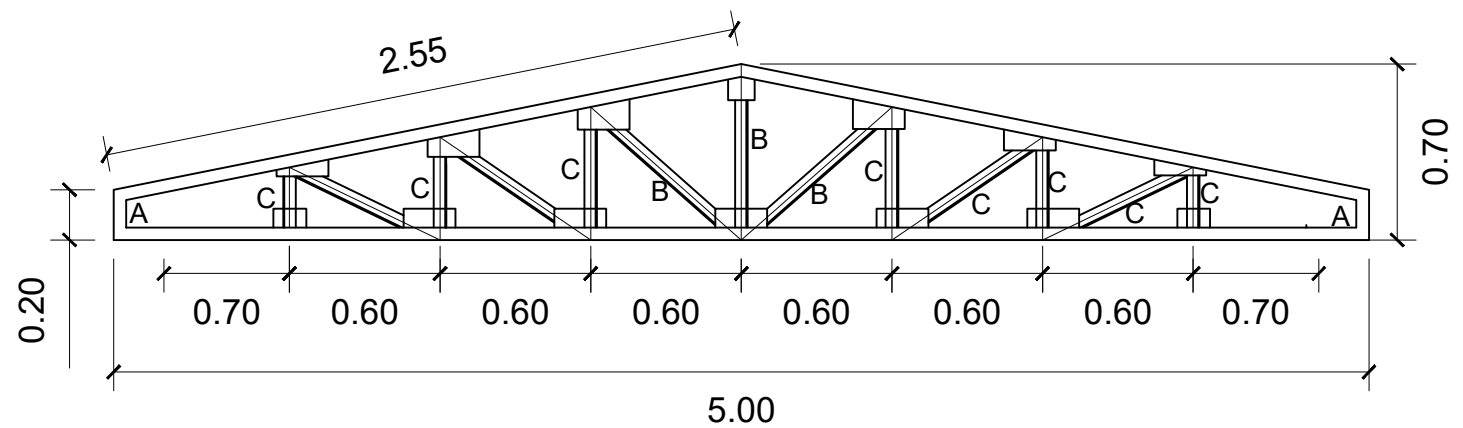
3 HIP-TRUSS 2 DETAIL
S-14 SCALE 1:60M



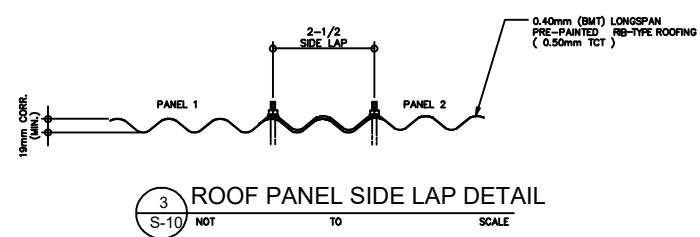
5 STRUT 1 DETAIL
S-14 SCALE 1:30M



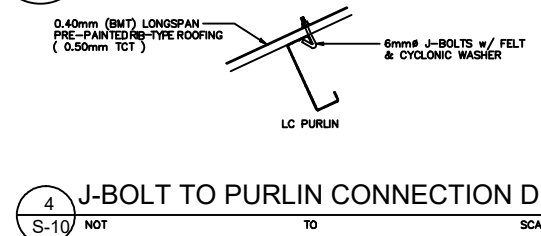
PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET NO.:
COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	<i>abapol</i> AIVY B. GAPOL, CE ENGINEERING ASSISTANT	<i>Pangasian B. Mamintas, CE</i> PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	<i>Rodrigo P. Millares Jr., REE, ENP</i> RODRIGO P. MILLARES JR., REE., ENP PLANNING OFFICER	<i>Edgardo H. Rosales, Ed.D.</i> EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	AS SHOWN	S-14 1417
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :		



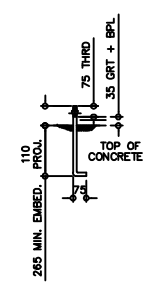
1 TRUSS 2 DETAIL
S-12 SCALE 1:30M



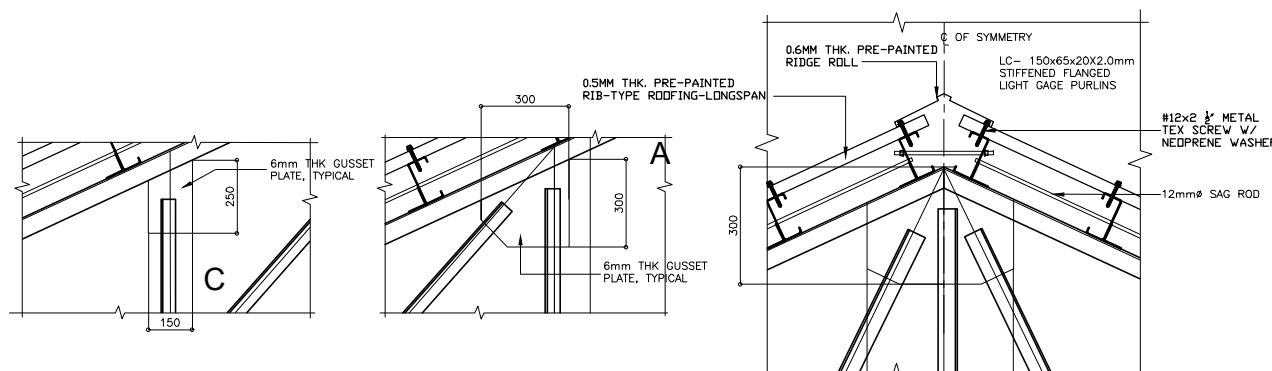
3 ROOF PANEL SIDE LAP DETAIL
S-10 NOT TO SCALE



4 J-BOLT TO PURLIN CONNECTION DETAIL
S-10 NOT TO SCALE



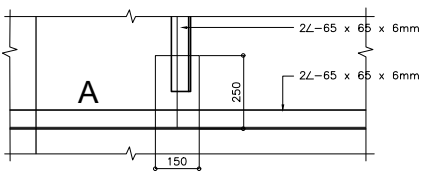
2 ANCHOR BOLT DETAIL
S-10 SCALE 1:15 M.



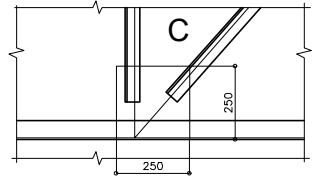
3 DETAIL-1
S-10 SCALE NTS

4 DETAIL-2
S-10 SCALE NTS

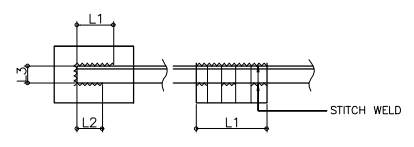
6 DETAIL-3
S-10 SCALE NTS



2 DETAIL
S-10 SCALE 1:10 M.



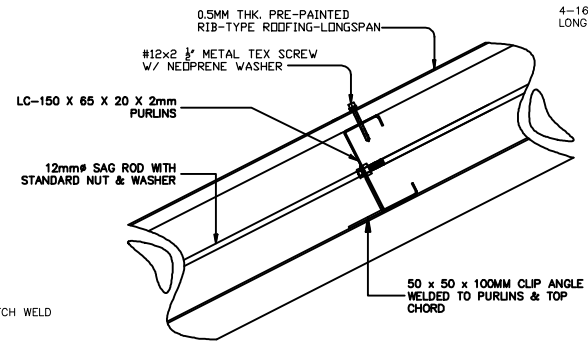
5 DETAIL-4
S-10 SCALE 1:10 M.



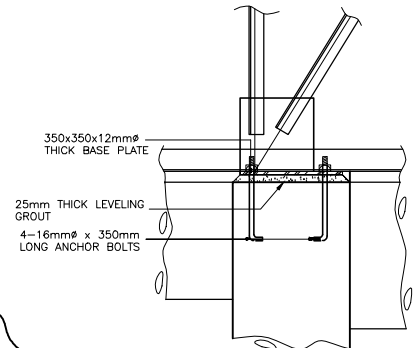
7 WELD DETAIL
S-10 NOT TO SCALE

SCHEDULE OF TRUSS MEMBERS AND WELDS

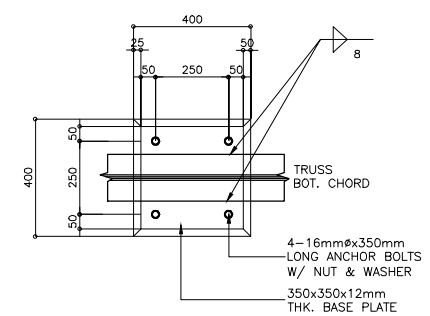
MARK	TRUSS MEMBERS SIZE mm	THICKNESS mm	LENGTH mm			REMARKS
			L1	L2	L3	
A	2Ls-75x75x6 (TOP/BOTTOM CHORDS)	6	FULL WELD			
B	2Ls-65x65x6	6	125	100	65	
C	2Ls-50x50x6	6	100	75	50	



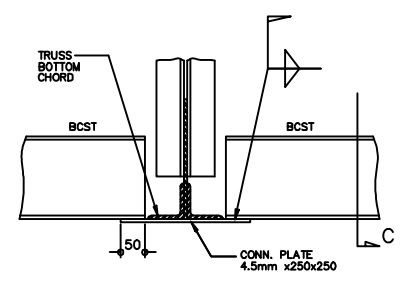
4 CONNECTION OF RIB-TYPE ROOFING TO PURLIN
S-10 SCALE NTS



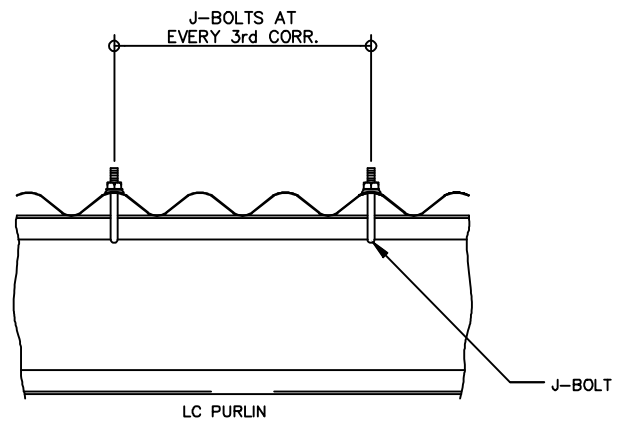
9B ELEVATION
S-10 SCALE



9A PLAN
S-10 SCALE 1:10 M.



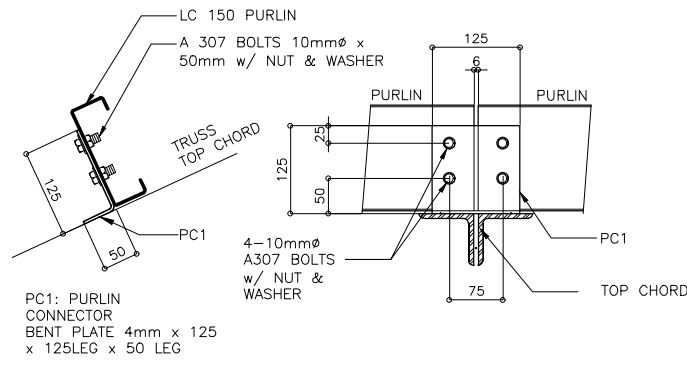
7 SECTION B
S-10 SCALE 1:5 M.



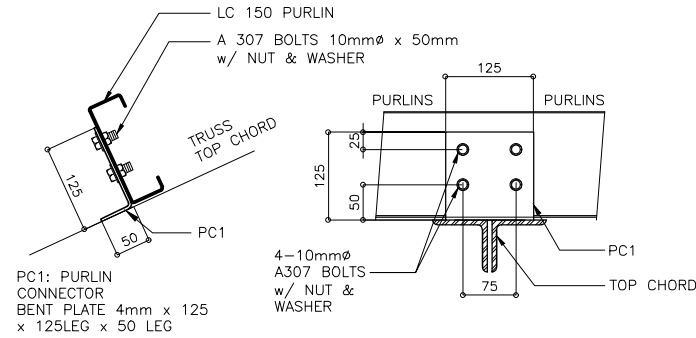
5 J-BOLT SPACING
S-10 NOT TO SCALE



PROJECT TITLE: COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS	PREPARED BY: <i>Atapol</i> AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY: <i>[Signature]</i> PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL: <i>[Signature]</i> RODRIGO P. MILLARES JR., REE., ENP PLANNING OFFICER	APPROVED: <i>[Signature]</i> EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: S-15 1517
LOCATION: BALANGASAN DISTRICT, PAGADIAN CITY	DATE:	DATE:	DATE:	DATE:		

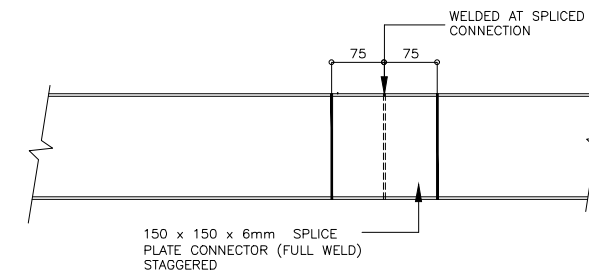


5A FOR NON - CONTINUOUS PURLINS
S-10 SCALE 1:5 M.

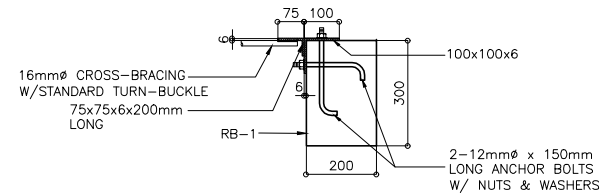


5B FOR CONTINUOUS PURLINS
S-10 SCALE 1:5 M.

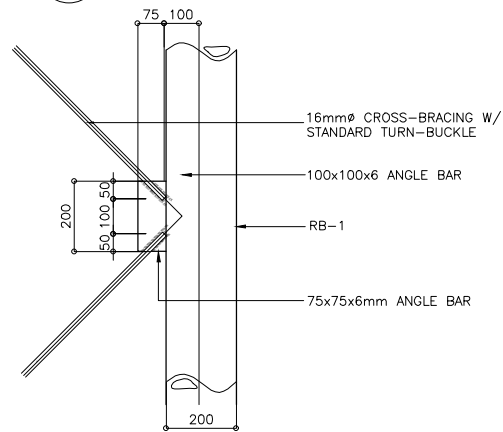
5 PURLIN CONNECTION DETAIL
S-10 SCALE 1:5 M.



6 PURLIN SPLICE
S-10 SCALE

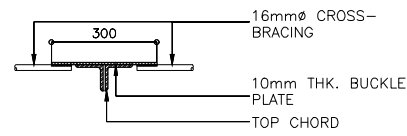


1B SECTION
S-10 SCALE 1:10 M

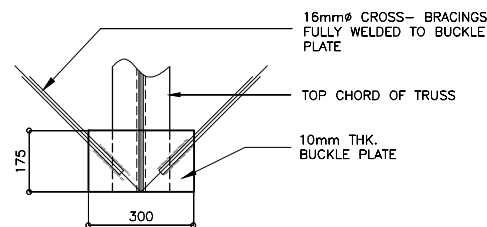


1A PLAN
S-10 SCALE 1:10 M

1 DETAIL CONN. OF CROSS-BRACING AT END WALL
S-10 SCALE 1:10 M.

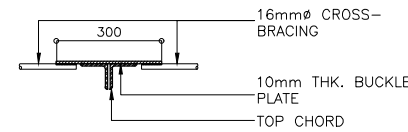


2B SECTION
S-10 SCALE 1:10 M

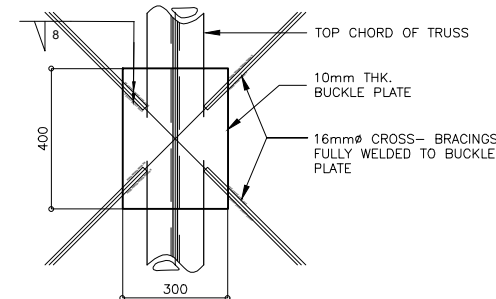


2A PLAN
S-10 SCALE 1:10 M

2 DETAIL CONN. OF CROSS-BRACING AT (GRID LINE A & C)
S-10 SCALE 1:10 M.

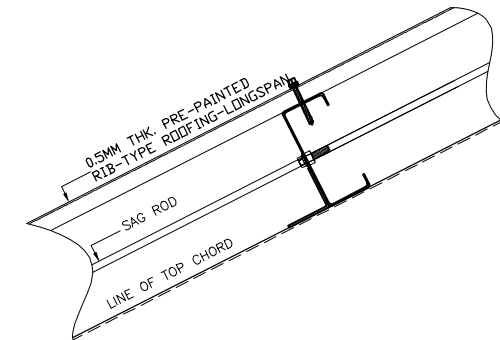


3B SECTION
S-10 SCALE 1:10 M

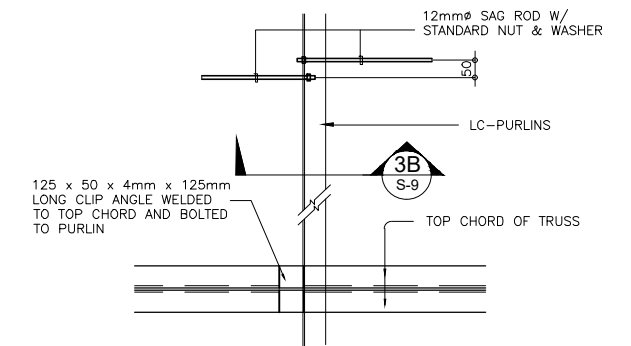


3A PLAN
S-9 SCALE 1:10 M

3 DETAIL CONN. OF CROSS-BRACING AT TRUSS @ APEX
S-10 SCALE 1:10 M.



4B SECTION
S-10 SCALE 1:5 M

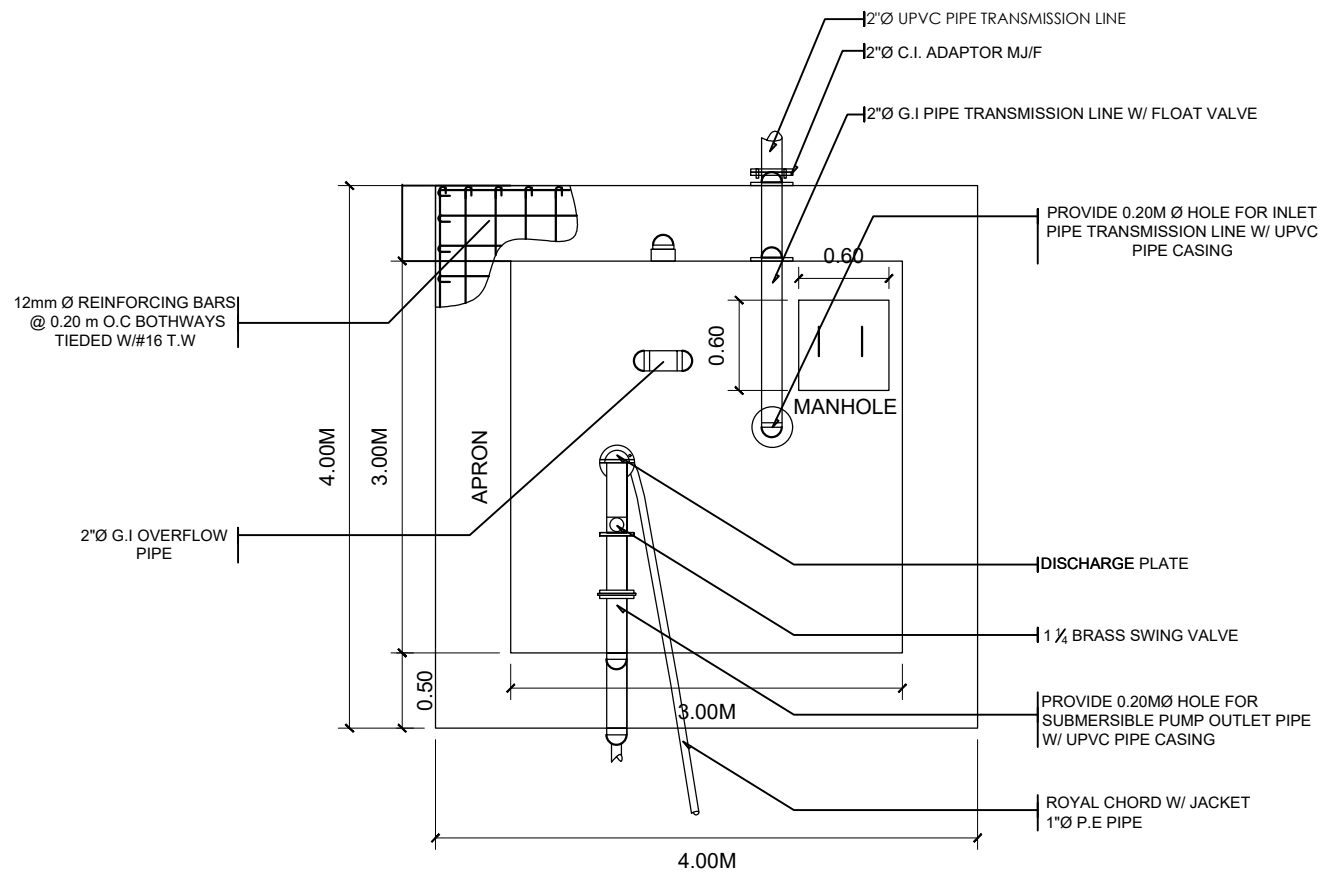


4A PLAN
S-10 SCALE 1:10 M

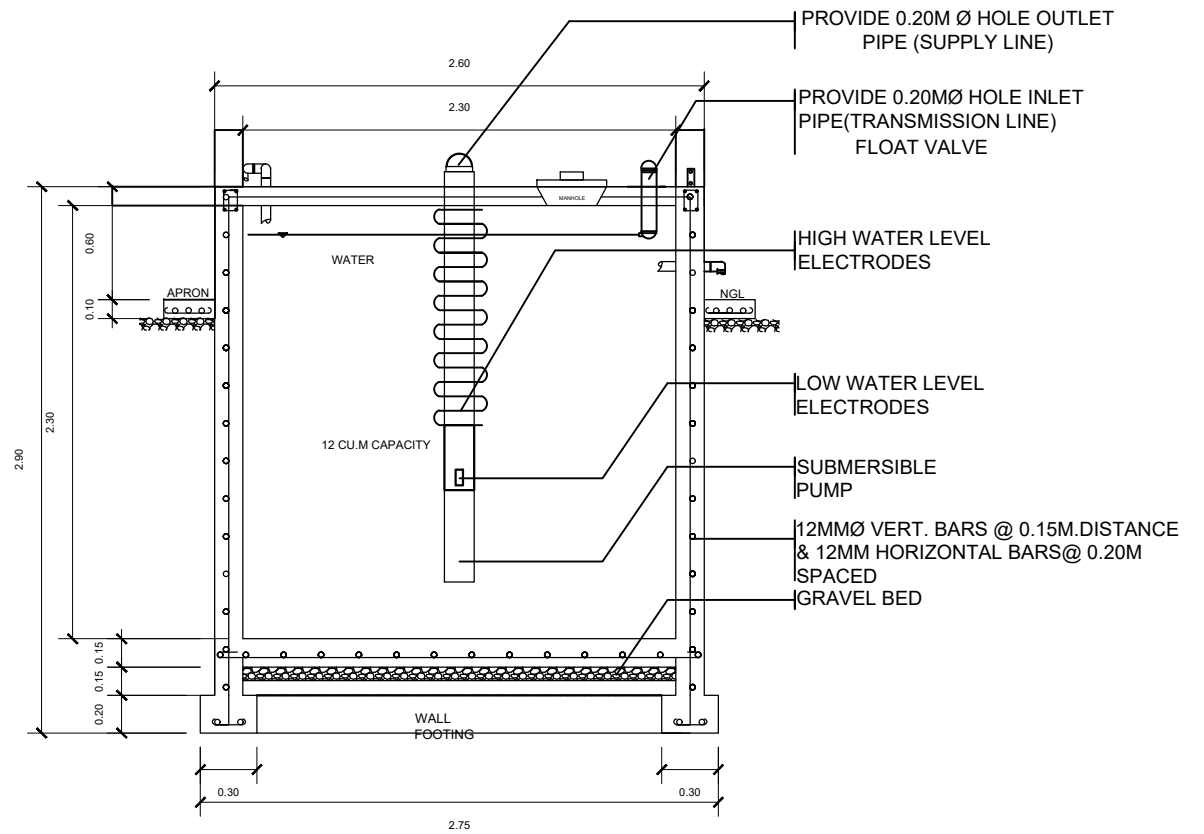
4 DETAIL OF PURLIN TO SAG ROD CONNECTION
S-9 SCALE AS SHOWN



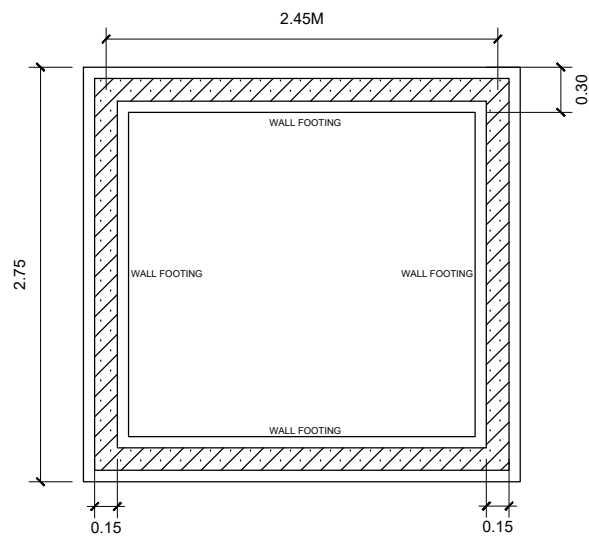
PROJECT TITLE: COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS	PREPARED BY: <i>abapal</i> AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY: <i>[Signature]</i> PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL: <i>[Signature]</i> RODRIGO P. MILLARES JR., REE., ENP PLANNING OFFICER	APPROVED: <i>[Signature]</i> EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: S-16 1617
LOCATION: BALANGASAN DISTRICT, PAGADIAN CITY	DATE:	DATE:	DATE:	DATE:		



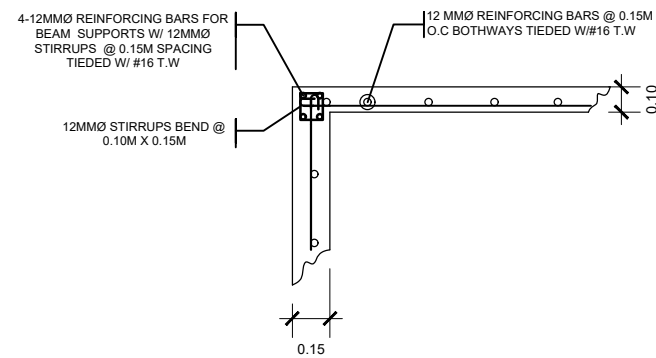
1 SUMPTANK PLAN
S-17 SCALE 1:50M



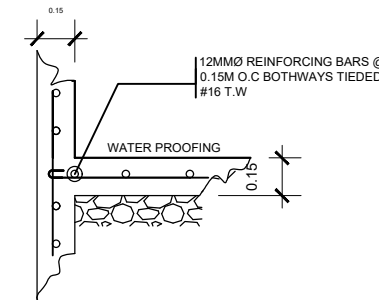
2 SUMPTANK SECTION DETAIL
S-17 SCALE 1:40M



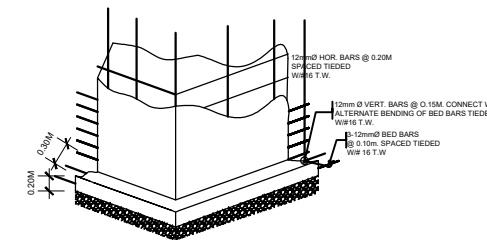
3 FOUNDATION PLAN
S-17 SCALE 1:50M



4 TOP SLAB DETAIL
S-17 SCALE 1:30M



4 BOTTOM SLAB DETAIL
S-17 SCALE 1:30M



5 WALL FOOTING DETAIL
S-17 SCALE 1:30M

SPECIFICATION

1. TENSION REINFORCING BARS SHALL BE SPLICED AT AN OVERLAP MIN. OF 40D AND WELL CONNECTED TIED OR WELDED.
2. DESIGNED MIXED SHALL BE CLASS "A" AND NO TEMPERATURE JOINT LEFT OTHERWISE IN A MONOLITHIC CONTINUOUS MIXED OF POURING CONCRETE.
3. MATERIALS FOR CONCRETING SHALL BE WASHED, SCREENED AGGREGATES AND PORTLAND CEMENT AND SHALL BE PASSED THE QUALITY CONTROL TEST AS PROVIDED UNDER AN APPROVED QUALITY CONTROL PLAN.



PROJECT TITLE :
**COMPLETION OF ACADEMIC BUILDING, JHCSC
PAGADIAN CAMPUS**

PREPARED BY:
Abapal
AIVY B. GAPOL, CE
ENGINEERING ASSISTANT

CHECKED & SUBMITTED BY:
Pangasian
PANGASIAN B. MAMINTAS, CE
COLLEGE ENGINEER

RECOMMENDING APPROVAL:
Rodrigo P. Millares Jr.
RODRIGO P. MILLARES JR., REE., ENP
PLANNING OFFICER

APPROVED:
Edgardo H. Rosales
EDGARDO H. ROSALES, Ed.D.
JHCSC - PRESIDENT

SHEET CONTENT:
AS SHOWN

SHEET NO.:
S-17
17/17

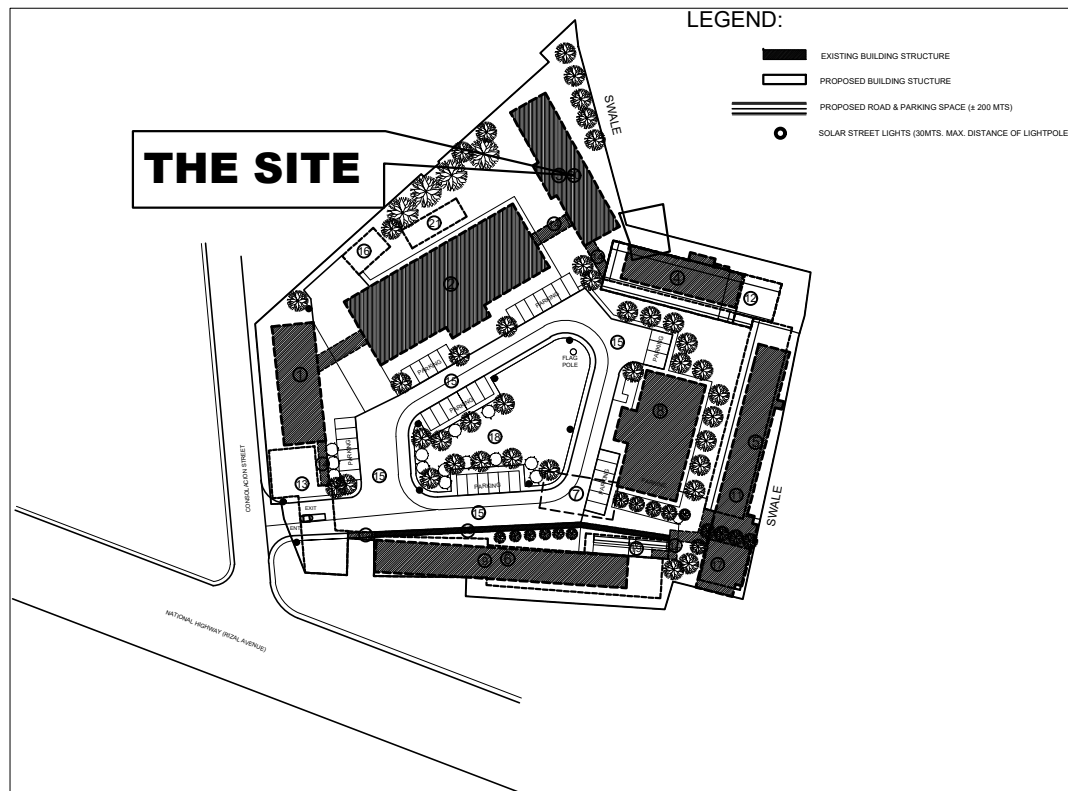
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY

DATE :

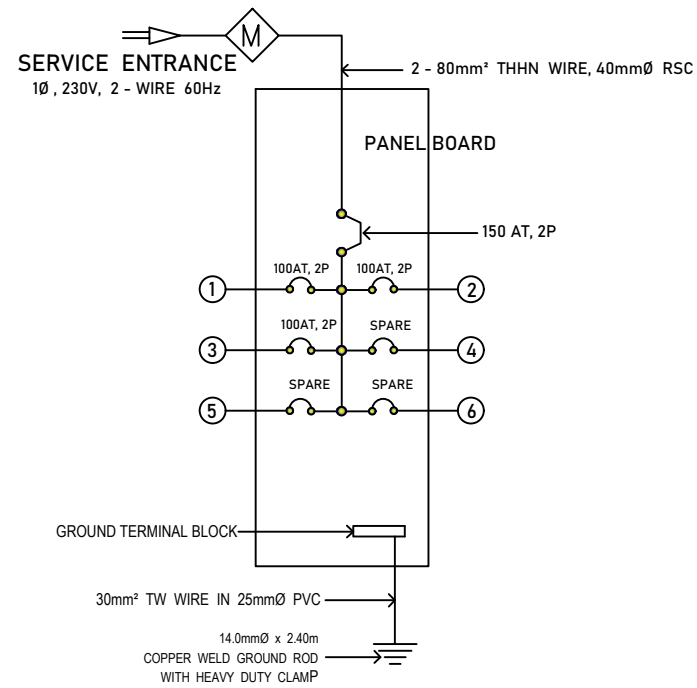
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DATE :



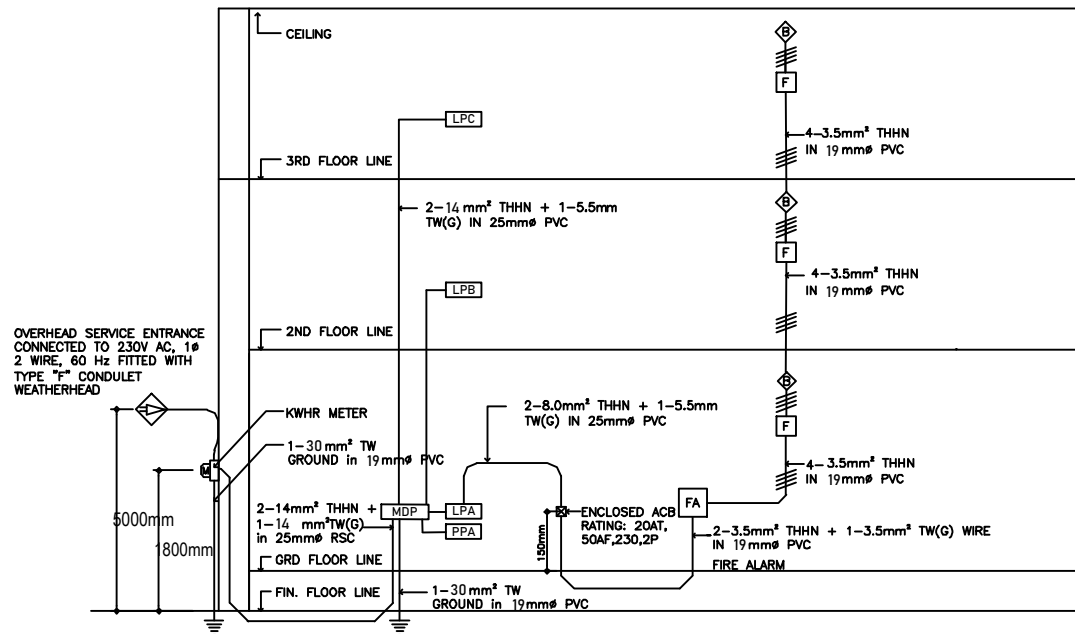
THE SITE



3 PANEL BOARD DIAGRAM
EE-1 NOT TO SCALE

PANELBOARD: MDP FLUSH MOUNTED, NEMA 1 ENCLOSURE WITH GROUND TERMINAL

CKT. NO.	LOAD DESCRIPTION	VA LOAD	CIRCUIT LOAD				WIRE & CONDUIT SIZE	
			VOLT	POLE	AT	AF		kAIC
1	LPA /PPA	9604	230	2	100	100	18	2 -14.0 mm ² THHN WIRE, 25mmØ PVC
2	LLB /PPB	11346	230	2	100	100	18	2 -14.0 mm ² THHN WIRE, 25mmØ PVC
3	LPC /PPC	11346	230	2	100	100	18	2 -14.0 mm ² THHN WIRE, 25mmØ PVC
4	SPARE							
5	SPARE							
6	SPARE							
TOTAL			MAIN = 150 AT, 2P, 240V, 18kAIC					
TOTAL CONNECTED LOADS:			$I_L @ 80\% DF = \frac{1}{230} \times 0.80 = 187.46 \text{ AMPERES}$					



2 ELECTRICAL RISER DIAGRAM
EE-1 NOT TO SCALE

GENERAL NOTES :

- ALL ELECTRICAL WORKS SHALL COMPLY WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE (PEC), THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY AND THE REQUIREMENTS OF THE LOCAL POWER COMPANY.
- THE ELECTRICAL SERVICE POWER SHALL BE 1-PHASE, 2-WIRE, 230V AC, 60Hz.
- WIRING METHOD SHALL BE AS FOLLOWS:
RIGID STEEL CONDUIT OR POLYVINYL CHLORIDE CONDUIT SCHEDULE 40 SHALL BE USED AS SPECIFIED IN THE PLAN.
- ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE WIRE FOR POWER AND LIGHTING CIRCUIT
- ALL OUTLET BOXES SHALL BE GALVANIZED GAGE NO. 16 DEEP TYPE.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED FOR THE PARTICULAR LOCATION AND USAGE.
- EQUIPMENT GROUNDING SYSTEM SHALL BE PROVIDED TO THE ELECTRICAL SYSTEM AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
a. LIGHT SWITCH - 1.20M ABOVE FINISH FLOOR
b. CONVENIENCE OUTLET - 0.3M ABOVE FINISH FLOOR
- ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.

LEGEND

SYMBOL	DESCRIPTION
	1-18 WATTS COMPACT FLUORESCENT LAMP WITH MEDIUM BASE, KEYLESS TYPE PORCELAIN RECEPTACLE
	3-BULB, 200 WATTS PENDANT LIGHT
	1 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE
	2 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE WITH CANOPY BASE AND STEM 1.5 FT. (450mm) LENGTH SIMILAR TO AMCO AP-1113-1.5 OR APPROVED EQUAL
	2 x 36 WATTS FLUORESCENT LIGHTING FIXTURE, BOX TYPE
	WALL FAN OUTLET
	SINGLE POLE WALL SWITCH
	S ₂ - DUPLEX SWITCH, 2 SINGLE POLE SWITCHES ON ONE-GANG SWITCH PLATE
	S _{3W} - THREE WAY WALL SWITCH
	S _{fc} - FAN CONTROL SWITCH
	RACEWAY CONDUIT CONCEALED IN CEILING
	RACEWAY CONDUIT CONCEALED UNDER FLOOR
	PANELBOARD, MARKED AS "LP"
	CKT. BREAKER, RATING AS INDICATED
	DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE 15 AMPS, 240 VOLT
	WEATHERPROOF DUPLEX CONVENIENCE OUTLET, GROUNDING TYPE, 15 AMPS, 240 VOLT
	CIRCUIT HOMERUN
	ENCLOSED AIR CIRCUIT BREAKER
	FIRE ALARM CONTROL PANEL
	FIRE ALARM STATION OUTLET
	FIRE ALARM BELL
	SERVICE METER
	SERVICE ENTRANCE
	MDP - MAIN DISTRIBUTION PANELBOARD

	PROJECT TITLE :	PREPARED BY :	CHECKED & SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED :	SHEET CONTENT :	SHEET NO. :
	COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS	KENAN B. SAMSON, MSEE ELECTRICAL ENGINEER	PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	AS SHOWN	E-1 18
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		

PANELBOARD: LPA/PPA FLUSH MOUNTED, NEMA 1 ENCLOSURE WITH GROUND TERMINAL

CKT. NO.	LOAD DESCRIPTION	VA LOAD	CIRCUIT LOAD					WIRE & CONDUIT SIZE
			VOLT	AMPERE	AT	AF	kAIC	
1	RECESSED PIN LIGHT (35*40W)	1400	230	5.22	15	60	10	2 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC + 1 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC
2	LIGHT OUTLETS (36*40W)	1440	230	6.26	15	60	10	2 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC + 1 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC
3	CONVENIENCE OUTLETS (180*21W) 2 ACU (2 * 2.0 * 746)	6764	230	29.41	30	60	10	2 - 3.5mm ² THHN WIRE, 19mm \varnothing PVC + 1 - 3.5mm ² THHN WIRE, 19mm \varnothing PVC
4	SPARE							
	TOTAL	9604						
TOTAL CONNECTED LOADS: 9604 VA $I_L @ 85\% DF$ $I_L = \left \frac{9604}{230} \right 0.85 = 35.49 \text{ AMPERES}$								

PANELBOARD: LPC/PPC FLUSH MOUNTED, NEMA 1 ENCLOSURE WITH GROUND TERMINAL

CKT. NO.	LOAD DESCRIPTION	VA LOAD	CIRCUIT LOAD					WIRE & CONDUIT SIZE
			VOLT	AMPERE	AT	AF	kAIC	
1	RECESSED PIN LIGHT (30*40W)	1200	230	5.22	15	60	10	2 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC + 1 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC
2	LIGHT OUTLETS (36*40W)	1440	230	6.26	15	60	10	2 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC + 1 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC
3	WALL FAN OUTLETS (6*75W)	450	230	6.26	15	60	10	2 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC + 1 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC
4	10 CONVENIENCE OUTLETS (180*10)	1800	230	7.83	20	85	10	2 - 3.5mm ² THHN WIRE, 19.0mm \varnothing PVC + 1 - 3.5mm ² THHN WIRE, 19.0mm \varnothing PVC
5	11 CONVENIENCE OUTLETS (180*11)	1980	230	8.61	20	85	10	2 - 3.5mm ² THHN WIRE, 19.0mm \varnothing PVC + 1 - 3.5mm ² THHN WIRE, 19.0mm \varnothing PVC
6	3 ACU (3 * 2 * 746)	4476	230	19.46	25	85	10	2 - 3.5mm ² THHN WIRE, 19.0mm \varnothing PVC + 1 - 3.5mm ² THHN WIRE, 19.0mm \varnothing PVC
7	SPARE							
	TOTAL	11346						
TOTAL CONNECTED LOADS: 11346 VA $I_L @ 85\% DF$ $I_L = \left \frac{11346}{230} \right 0.85 = 41.93 \text{ AMPERES}$								

PANELBOARD: LPB/PPB FLUSH MOUNTED, NEMA 1 ENCLOSURE WITH GROUND TERMINAL

CKT. NO.	LOAD DESCRIPTION	VA LOAD	CIRCUIT LOAD					WIRE & CONDUIT SIZE
			VOLT	AMPERE	AT	AF	kAIC	
1	RECESSED PIN LIGHT (30*40W)	1200	230	4.52	15	60	10	2 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC + 1 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC
2	LIGHT OUTLETS (36*40W)	1440	230	6.26	15	60	10	2 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC + 1 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC
3	WALL FAN OUTLETS (6*75W)	450	230	6.26	15	60	10	2 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC + 1 - 2.0mm ² THHN WIRE, 12.7mm \varnothing PVC
4	10 CONVENIENCE OUTLETS (180*10)	1800	230	7.83	20	85	10	2 - 3.5mm ² THHN WIRE, 19.0mm \varnothing PVC + 1 - 3.5mm ² THHN WIRE, 19.0mm \varnothing PVC
5	11 CONVENIENCE OUTLETS (180*11)	1980	230	8.61	20	85	10	2 - 3.5mm ² THHN WIRE, 19.0mm \varnothing PVC + 1 - 3.5mm ² THHN WIRE, 19.0mm \varnothing PVC
6	3 ACU (3 * 2 * 746)	4476	230	19.46	25	85	10	2 - 3.5mm ² THHN WIRE, 19.0mm \varnothing PVC + 1 - 3.5mm ² THHN WIRE, 19.0mm \varnothing PVC
7	SPARE							
	TOTAL	11346						
TOTAL CONNECTED LOADS: 11346 VA $I_L @ 85\% DF$ $I_L = \left \frac{11346}{230} \right 0.85 = 41.93 \text{ AMPERES}$								



PROJECT TITLE:
**COMPLETION OF ACADEMIC BUILDING, JHSC
PAGADIAN CAMPUS**

LOCATION: BALANGASAN DISTRICT, PAGADIAN CITY

PREPARED BY:

KENAN B. SAMSON, MSEE
ELECTRICAL ENGINEER

DATE:

CHECKED & SUBMITTED BY:

PANGASIAN B. MAMINTAS, CE
COLLEGE ENGINEER

DATE:

RECOMMENDING APPROVAL:

RODRIGO P. MILLARES JR., REE., ENP.
PLANNING OFFICER

DATE:

APPROVED:

EDGARDO H. ROSALES, Ed.D.
JHSC - PRESIDENT

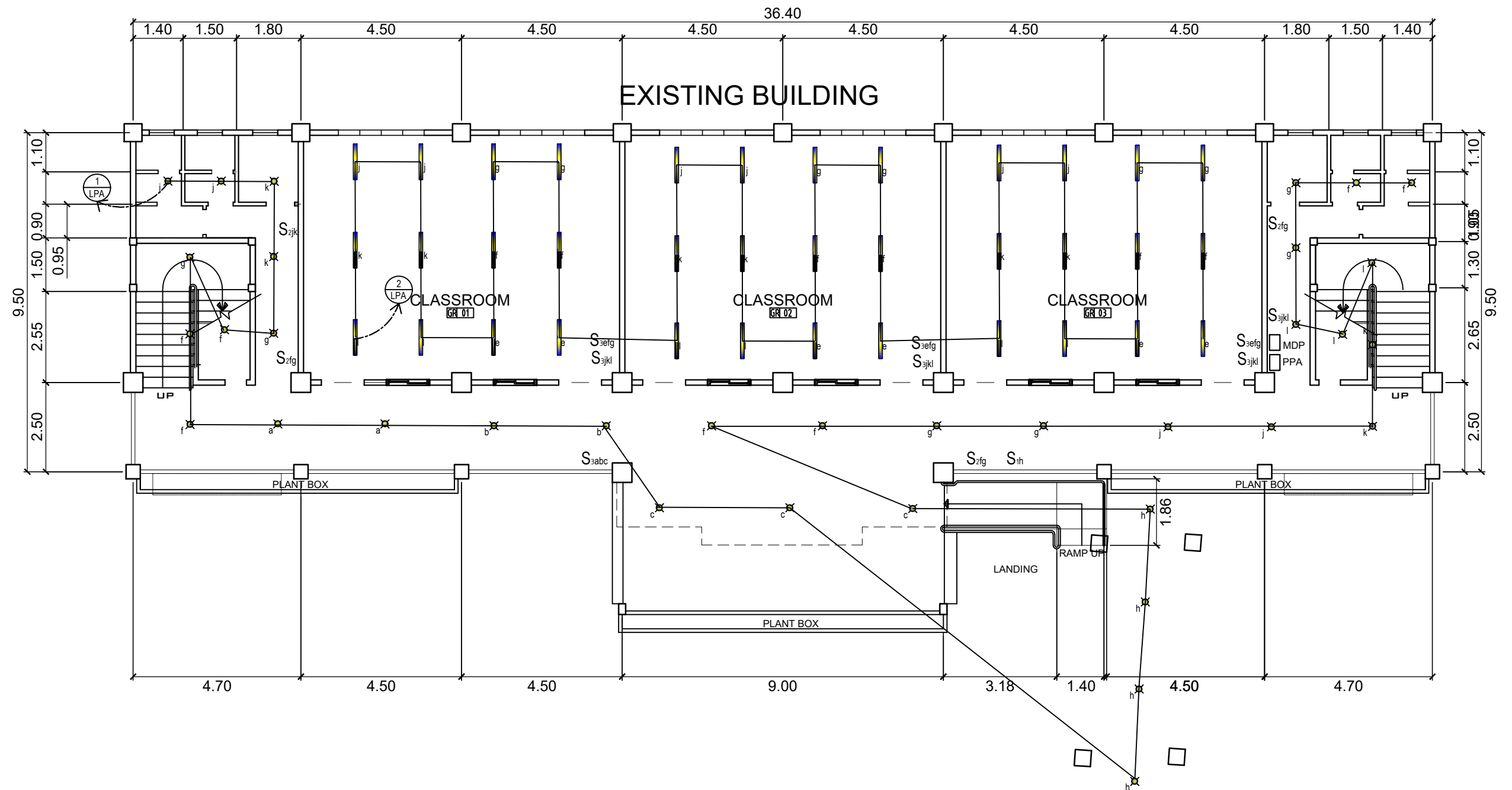
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SHEET CONTENT:

AS SHOWN

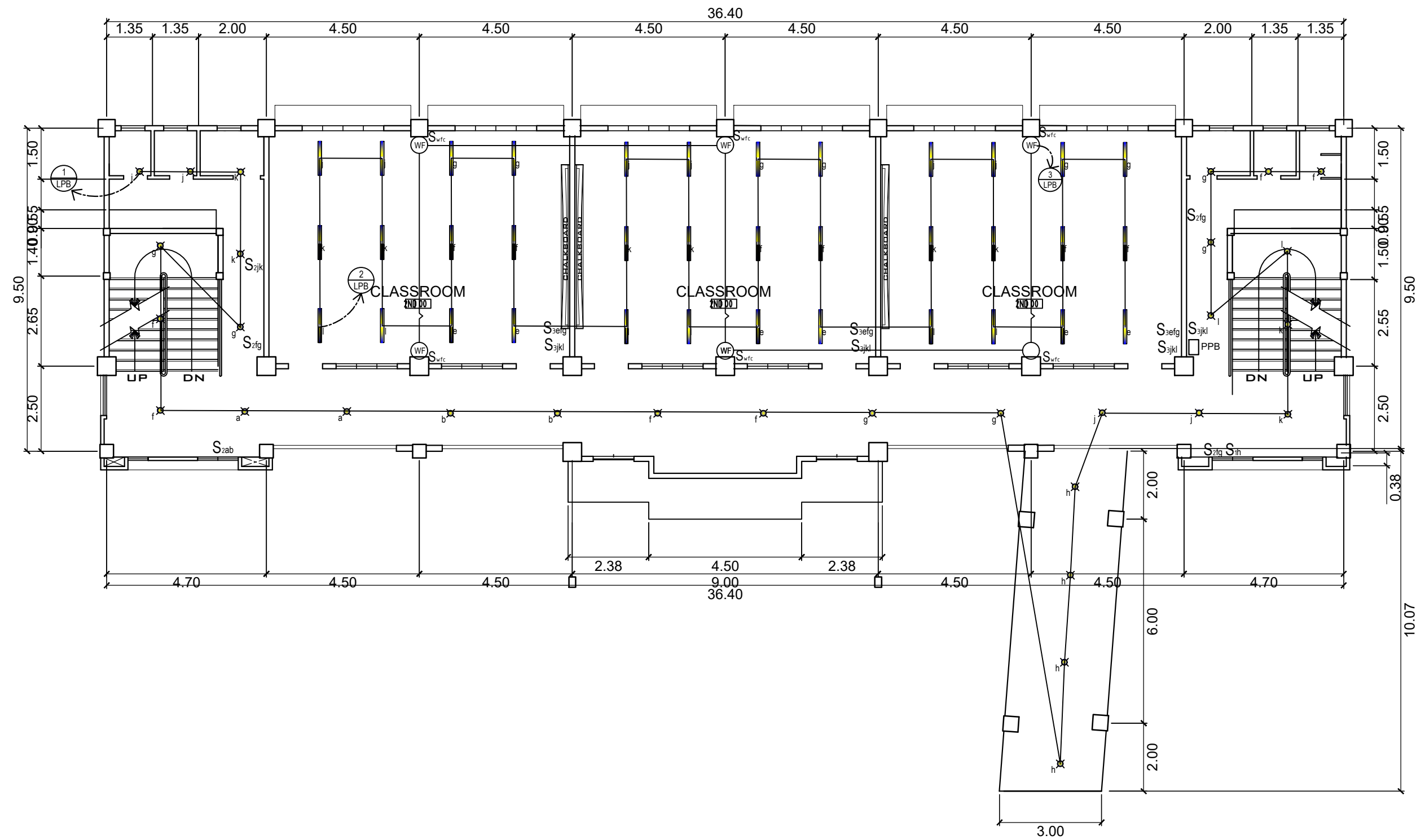
SHEET NO.:

E-2
28



1 GROUND FLOOR LIGHTING LAY-OUT
E-3 SCALE 1:125M

	PROJECT TITLE :	PREPARED BY :	CHECKED & SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED :	SHEET CONTENT :	SHEET NO. :
	COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS	KENAN B. SAMSON, MSEE ELECTRICAL ENGINEER	PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	AS SHOWN	E-3 38
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



1
E-4 **SECOND FLOOR LIGHTING LAY-OUT**
SCALE 1:125M



PROJECT TITLE :
**COMPLETION OF ACADEMIC BUILDING, JHCSC
PAGADIAN CAMPUS**

PREPARED BY:

KENAN B. SAMSON, MSEE
ELECTRICAL ENGINEER

CHECKED & SUBMITTED BY:

PANGASIAN B. MAMINTAS, CE
COLLEGE ENGINEER

RECOMMENDING APPROVAL:

RODRIGO P. MILLARES JR., REE., ENP.
PLANNING OFFICER

APPROVED:

EDGARDO H. ROSALES, Ed.D.
JHCSC - PRESIDENT

SHEET CONTENT:
AS SHOWN

SHEET NO.:
E-4
48

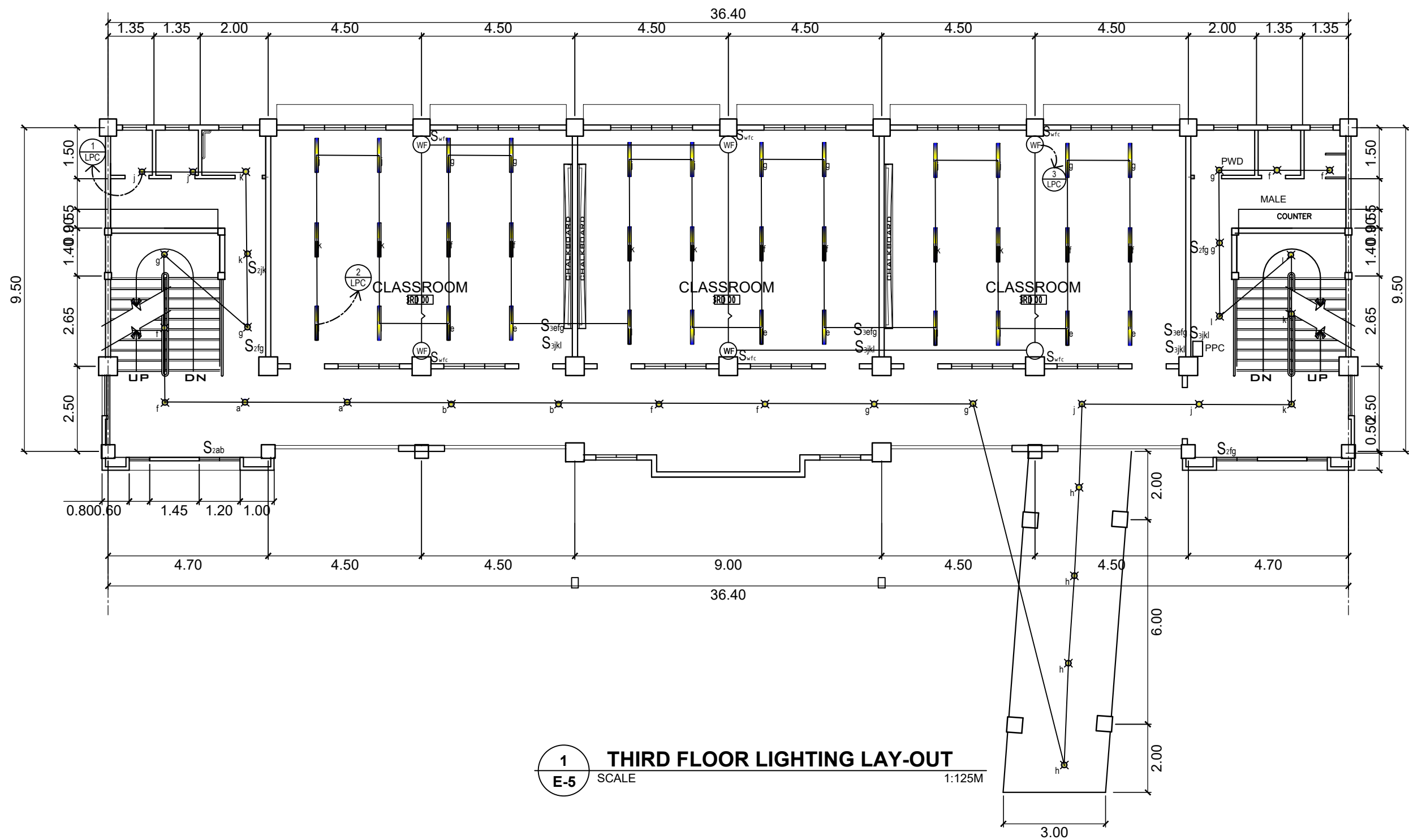
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY

DATE :





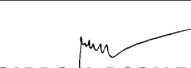
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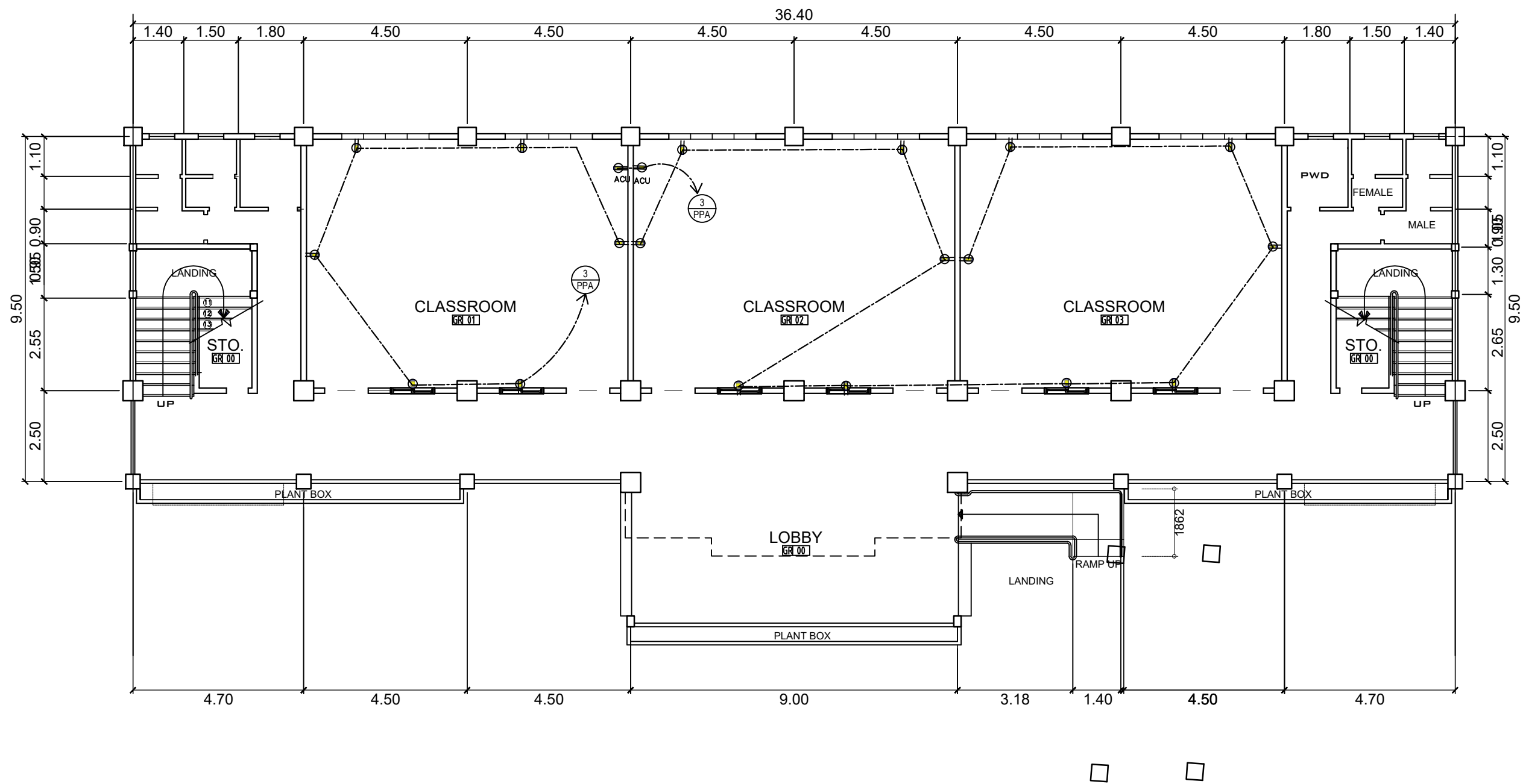
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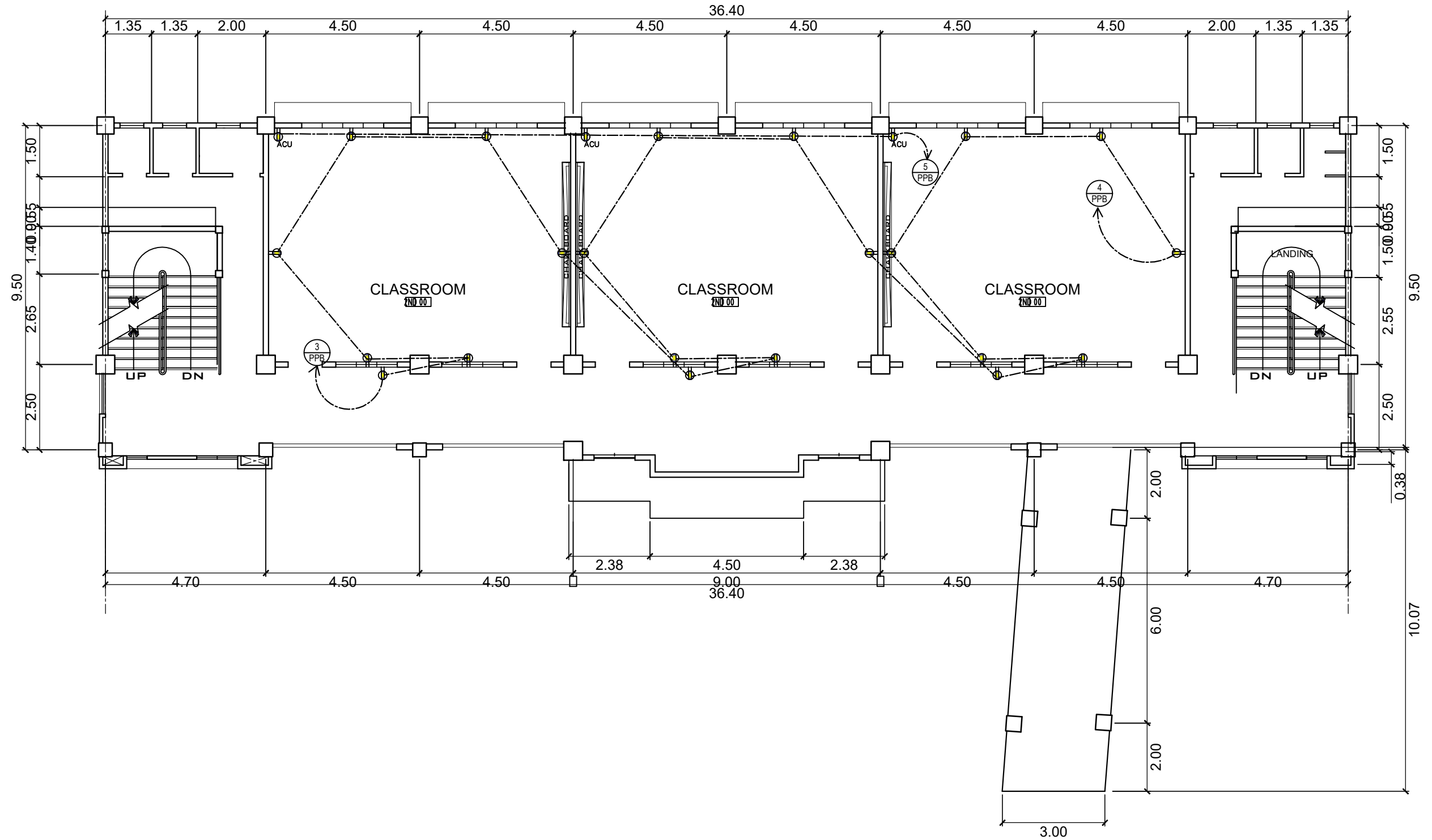
1 THIRD FLOOR LIGHTING LAY-OUT
 E-5 SCALE 1:125M

	PROJECT TITLE : COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	PREPARED BY:  KENAN B. SAMSON, MSEE ELECTRICAL ENGINEER	CHECKED & SUBMITTED BY:  PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL:  RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	APPROVED:  EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: E-5 58
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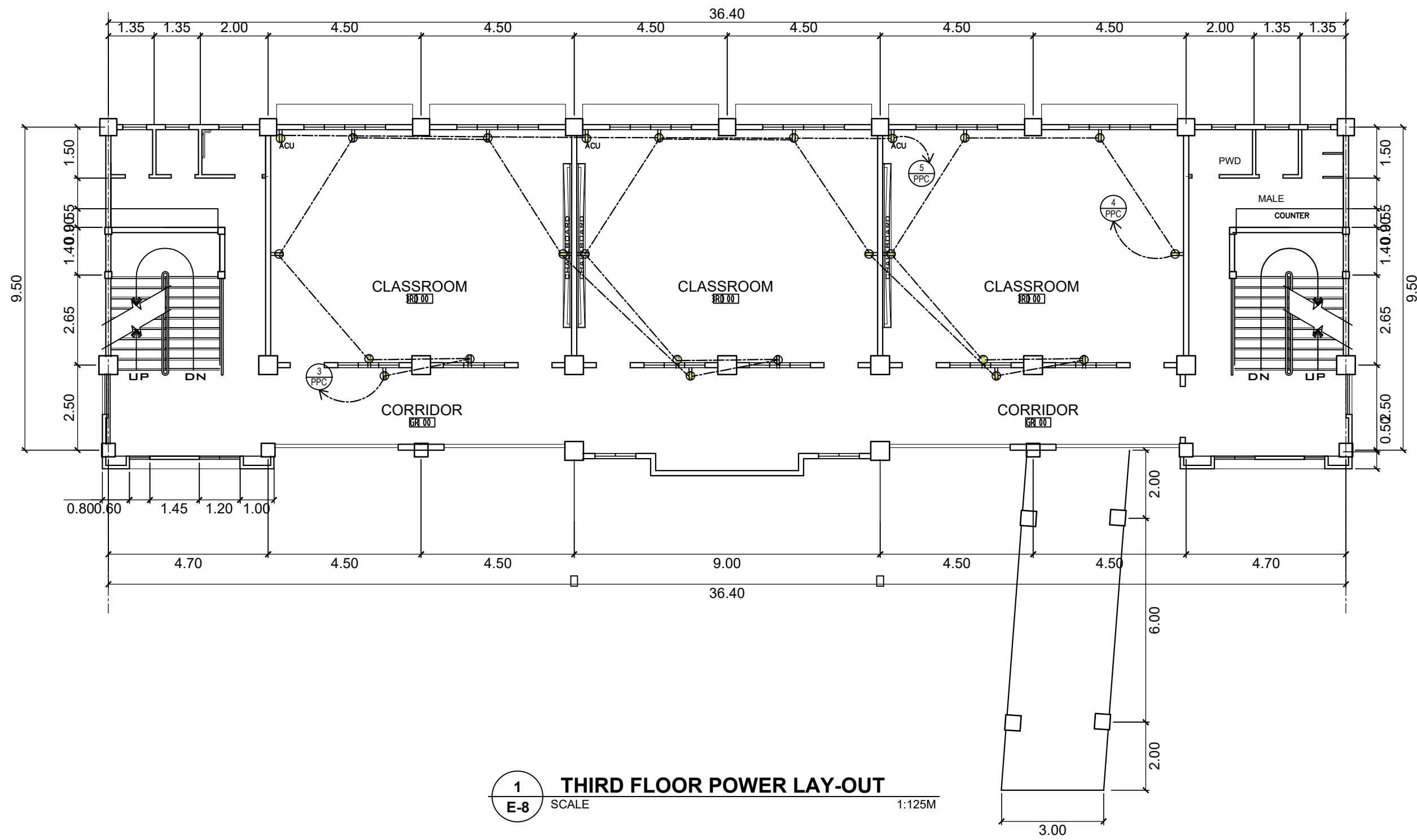
1 **GROUND FLOOR POWER LAY-OUT**
 E-6 SCALE 1:125M

	PROJECT TITLE :	PREPARED BY :	CHECKED & SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED :	SHEET CONTENT :	SHEET NO. :
	COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS	KENAN B. SAMSON, MSEE ELECTRICAL ENGINEER	PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	AS SHOWN	E-6 68
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		





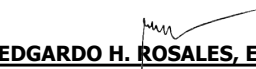


1 SECOND FLOOR POWER LAY-OUT
 E-7 SCALE 1:125M

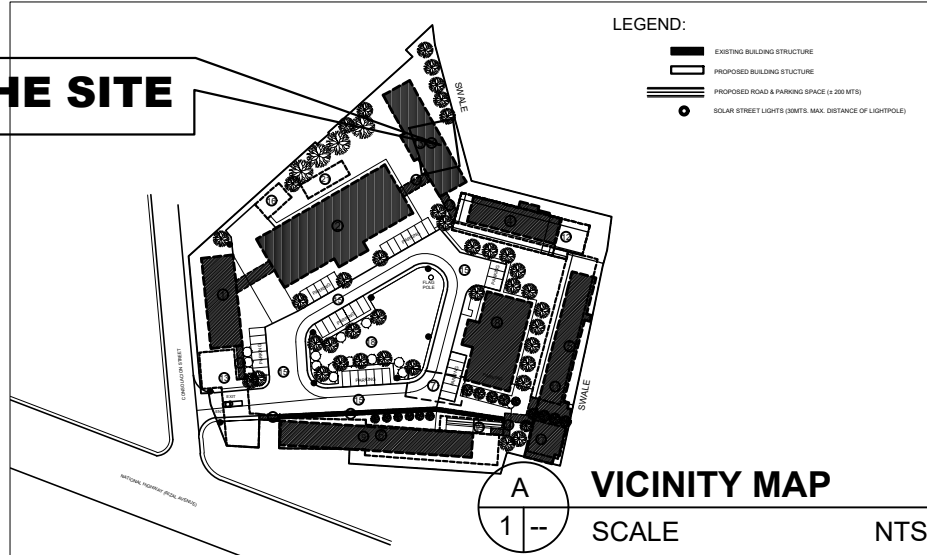
	PROJECT TITLE : COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	PREPARED BY: KENAN B. SAMSON, MSEE ELECTRICAL ENGINEER	CHECKED & SUBMITTED BY: PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL: RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	APPROVED: EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO: E-7 7 8
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1 **THIRD FLOOR POWER LAY-OUT**
 E-8 SCALE 1:125M

	PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET NO.:
	COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	 KENAN B. SAMSON, MSEE ELECTRICAL ENGINEER	 PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	 RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	 EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	AS SHOWN	E-8 8 8
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		

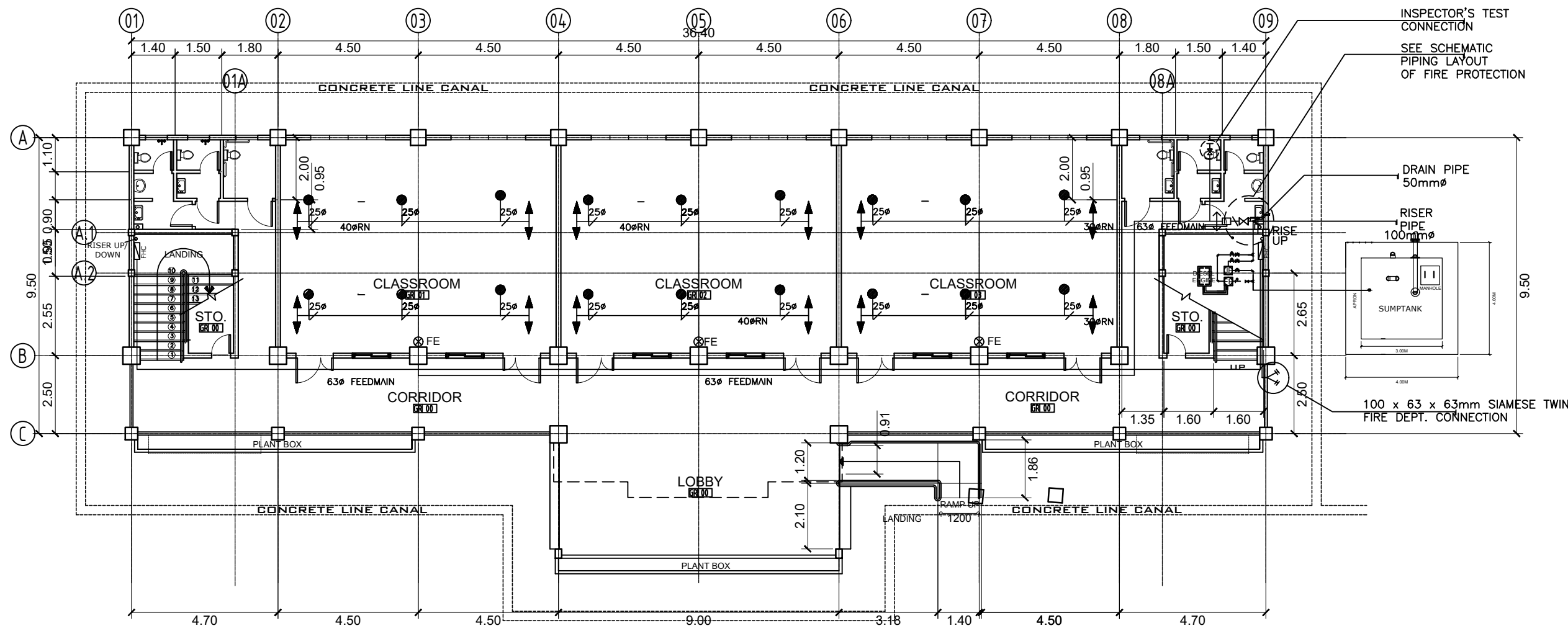
THE SITE



VICINITY MAP
SCALE NTS

GENERAL NOTES:

1. ALL WORKS SHOULD BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES NO. 13 & 20, NATIONAL FIRE BUILDING CODE OF THE PHILIPPINES.
2. ALL WORKS SHALL BE EXECUTED IN-CLOSE COORDINATION WITH ALL OTHER TRADES. THE ARCHITECT AND THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY CONFLICT.
3. EXACT LOCATION OF THE SPRINKLER HEADS SHALL BE COORDINATED WITH ARCHITECTURAL CEILING LAYOUT AND SHALL BE SUBJECTED TO ARCHITECTS & ENGINEERS APPROVAL.
4. LOCATION OF DRAIN PIPES FOR INSPECTORS TEST AND DRAIN VALVES SHALL BE COORDINATED WITH THE PLUMBING CONTRACTOR.
5. FIRE / JOCKEY PUMP, WATER FLOW SWITCHES, MONITOR SWITCHES ELECTRICAL CONNECTIONS SHALL BE DONE BY THE SPRINKLER CONTRACTOR UP TO THE CONTROL PANEL & SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR FOR POWER TAPPING.
6. ALL PIPE SIZES ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
7. UNLESS OTHERWISE NOTED, ALL FEEDMANS & CROSSMANS SHALL BE WELD JOINTS & ALL BRANCHLINES SHALL BE SCREWED JOINTS.
8. PIPE SLEEVES SHALL BE PROVIDED FOR ALL PIPES PASSING THRU SLABS, WALLS & BEAMS.
9. MINIMUM PIPE SIZE FOR ALL SPRINKLER HEAD SHALL BE 25MM DIAMETER UNLESS OTHERWISE NOTED.

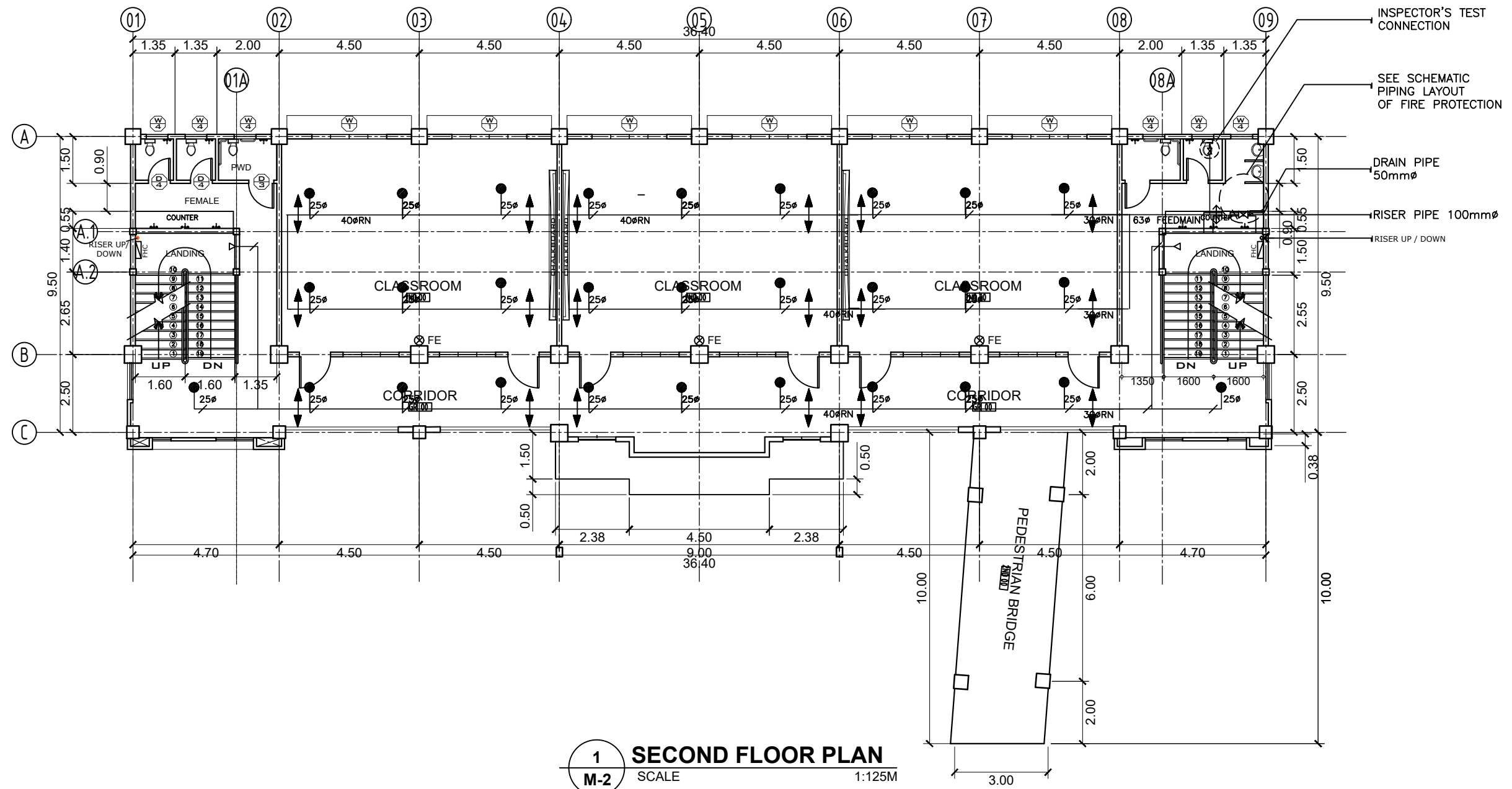


LEGEND:

- FP FIRE PUMP
- JP JOCKEY PUMP
- Water Meter Gong
- Pendent Sprinkler Head
- Side Wall Sprinkler Head
- GATE VALVE
- CHECK VALVE
- WATERFLOW SWITCH
- FLOW METER
- SIGHT GLASS
- SIAMESE TWIN
- FLUSHING CONNECTION
- PIPE HANGER
- RN RISER NIPPLE
- FE FIRE EXTINGUISHER
- VITUALIC COUPLING
- ALARM CHECK VALVE
- TEE
- ELBOW
- FHC FIRE HOSE CABINET (INDOOR TYPE)
- OS & Y GATE VALVE
- FDC FIRE DEPARTMENT CONNECTION

1 GROUND FLOOR PLAN
SCALE 1:150M

	PROJECT TITLE :	PREPARED BY :	CHECKED & SUBMITTED BY :	RECOMMENDING APPROVAL :	APPROVED :	SHEET CONTENT :	SHEET NO. :
	COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	 AIVY B. GAPOL, CE ENGINEERING ASSISTANT	 PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	 RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	 EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	AS SHOWN	M-1 15
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



PROJECT TITLE :
**COMPLETION OF ACADEMIC BUILDING, JHSC
PAGADIAN CAMPUS**

PREPARED BY:
abapol
AIVY B. GAPOL, CE
ENGINEERING ASSISTANT

CHECKED & SUBMITTED BY:
Pangasian B. Mamintas
PANGASIAN B. MAMINTAS, CE
COLLEGE ENGINEER

RECOMMENDING APPROVAL:
Rodrigo P. Millares Jr.
RODRIGO P. MILLARES JR., REE., ENP.
PLANNING OFFICER

APPROVED:
Edgardo H. Rosales
EDGARDO H. ROSALES, Ed.D.
JHSC - PRESIDENT

SHEET CONTENT:
AS SHOWN

SHEET NO.:
M-2
25

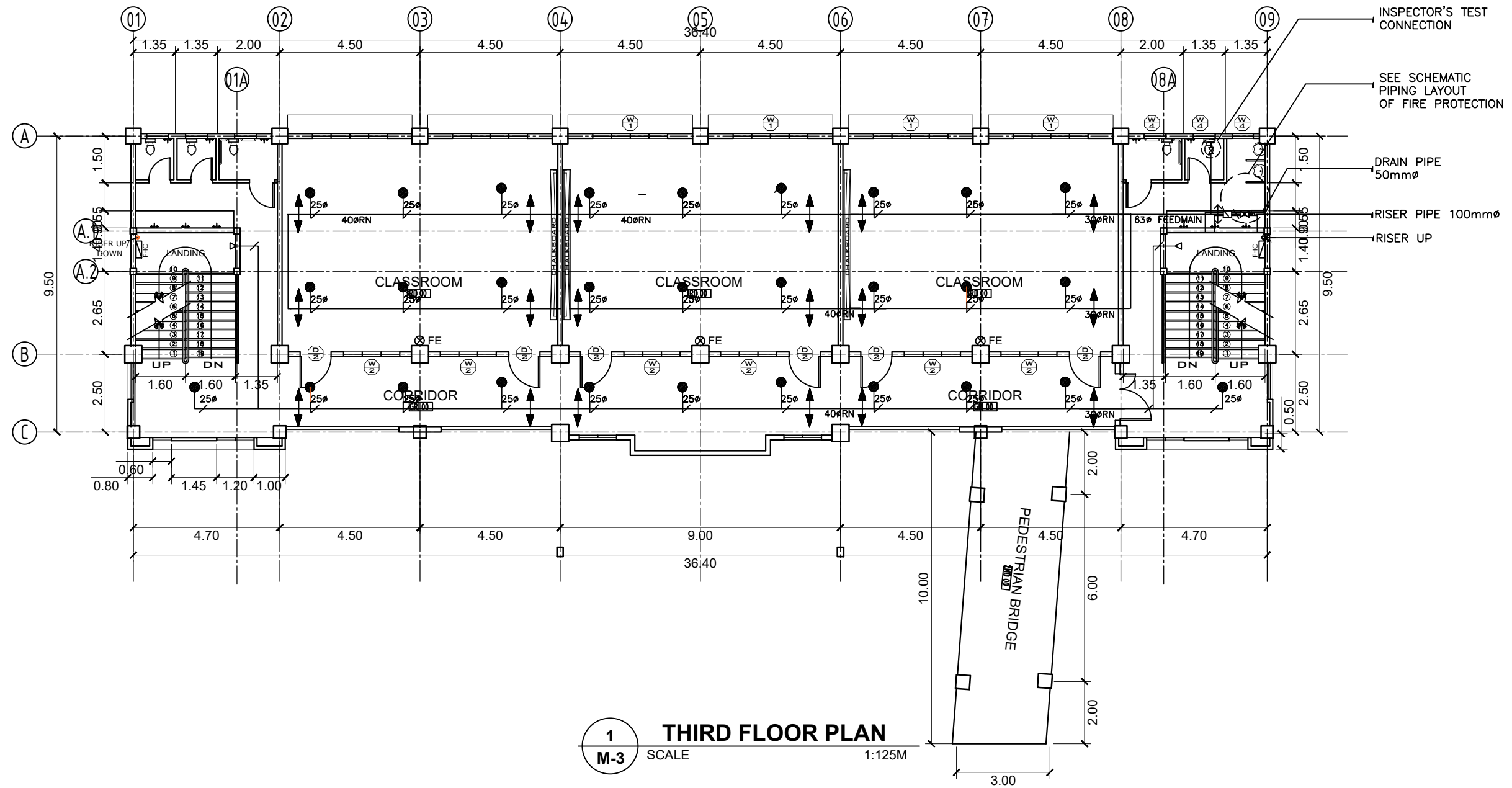
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY

DATE :

DATE :

DATE :

DATE :



PROJECT TITLE :
**COMPLETION OF ACADEMIC BUILDING, JHSC
 PAGADIAN CAMPUS**

LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY

PREPARED BY:
abapol
AIVY B. GAPOL, CE
 ENGINEERING ASSISTANT

DATE :

CHECKED & SUBMITTED BY:
Pangasian B. Mamintas
PANGASIAN B. MAMINTAS, CE
 COLLEGE ENGINEER

DATE :

RECOMMENDING APPROVAL:
Rodrigo P. Millares Jr.
RODRIGO P. MILLARES JR., REE., ENP.
 PLANNING OFFICER

DATE :

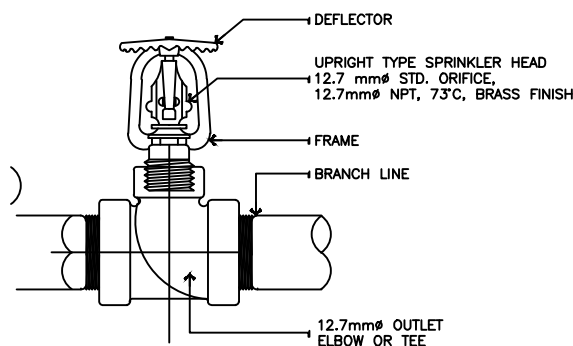
APPROVED:
Edgardo H. Rosales
EDGARDO H. ROSALES, Ed.D.
 JHSC - PRESIDENT

DATE :

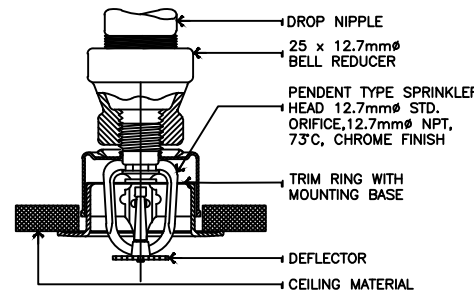
SHEET CONTENT:
 AS SHOWN

SHEET NO.:
M-3
3 5

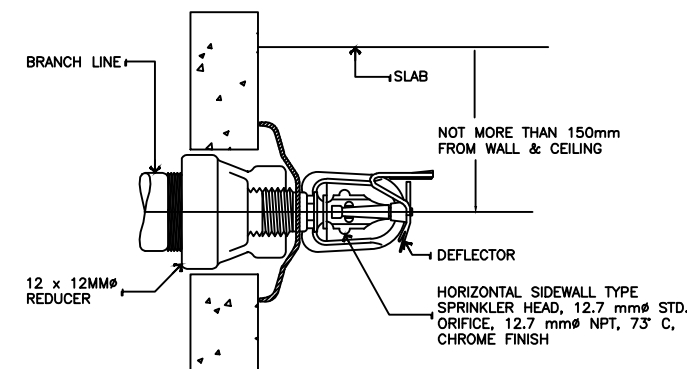
TABULATED SPRINKLER HEADS OF THE AUTOMATIC FIRE SPRINKLER SYSTEM				
FLOOR/LEVEL	ZONE	TYPE OF SPRINKLER HEADS		
		PENDENT 135°F-165°F	UPRIGHT 135°F-165°F	SIWALL 135°F-165°F
GROUND FLOOR			18	
SECOND FLOOR			29	2
THIRD FLOOR		29		2
SUBTOTAL		29	47	4
SPARE		6	1	2
TOTAL		35	48	6



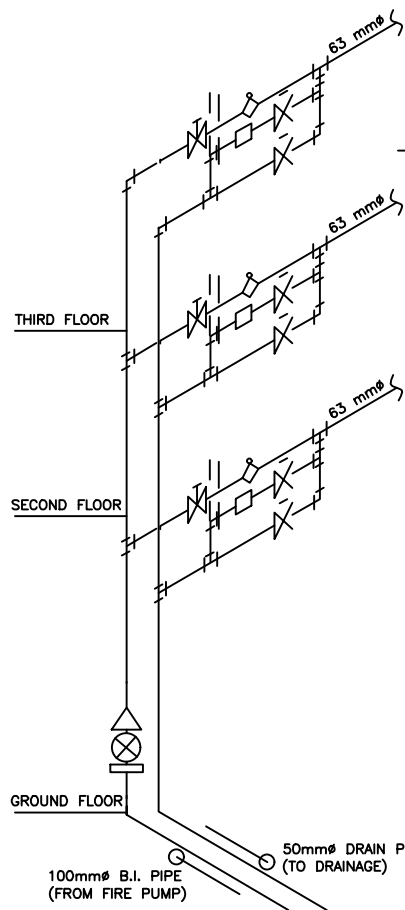
UPRIGHT SPRINKLER HEAD



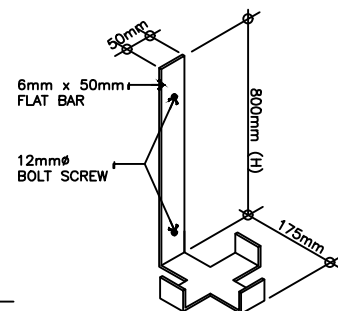
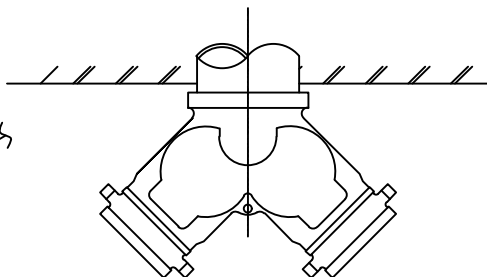
PENDENT SPRINKLER HEAD



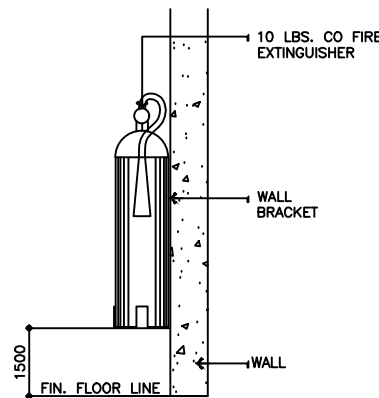
SIWALL SPRINKLER HEAD



SCHEMATIC PIPING LAYOUT OF FIRE PROTECTION

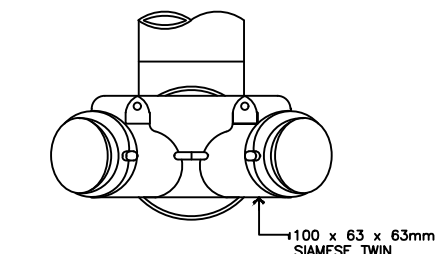


WALL BRACKET

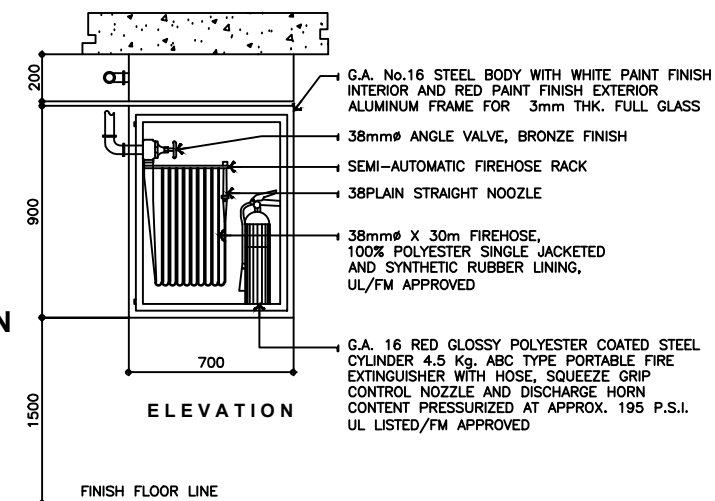


WALL MOUNTED

FIRE EXTINGUISHER DETAIL

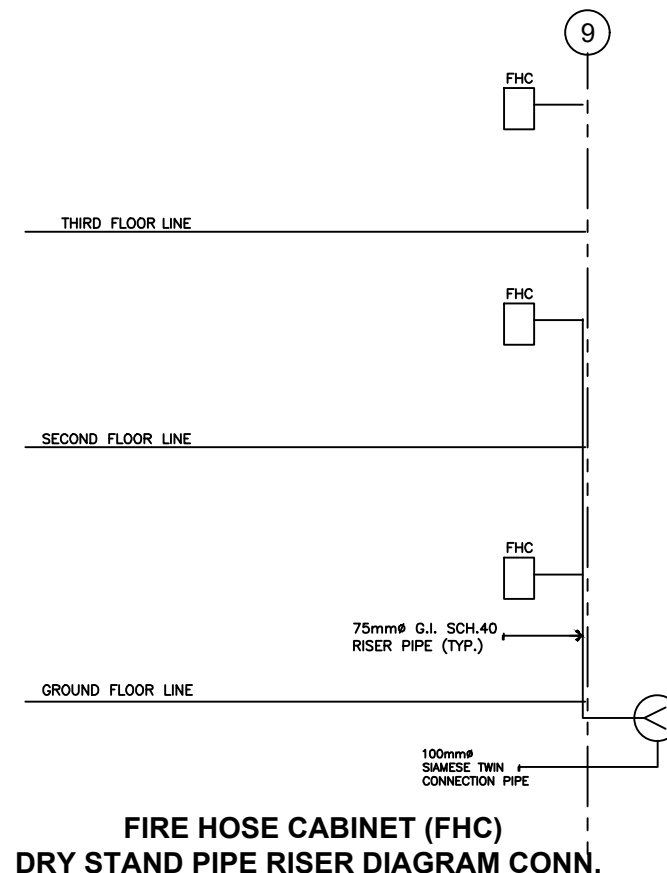


DET. OF FIRE DEPT. CONNECTION



ELEVATION

FIRE HOSE CABINET DETAIL



FIRE HOSE CABINET (FHC) DRY STAND PIPE RISER DIAGRAM CONN.

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9194, APPROVED BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/ES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

1 FIRE PROTECTION DETAIL
FP-2 SCALE TO



PROJECT TITLE:
COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS

PREPARED BY:
Abapol
AIVY B. GAPOL, CE
ENGINEERING ASSISTANT

CHECKED & SUBMITTED BY:
Pangasian
PANGASIAN B. MAMINTAS, CE
COLLEGE ENGINEER

RECOMMENDING APPROVAL:
Rodrigo P. Milares Jr.
RODRIGO P. MILARES JR., REE., ENP.
PLANNING OFFICER

APPROVED:
Edgardo H. Rosales
EDGARDO H. ROSALES, Ed.D.
JHSC - PRESIDENT

SHEET CONTENT:
AS SHOWN

SHEET NO.:
M-4
45

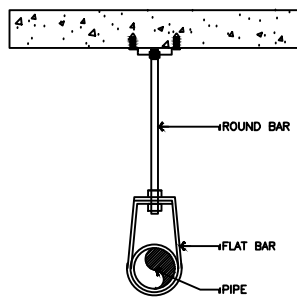
LOCATION: BALANGASAN DISTRICT, PAGADIAN CITY

DATE:

DATE:

DATE:

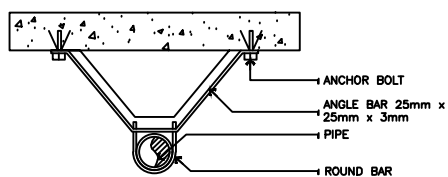
DATE:



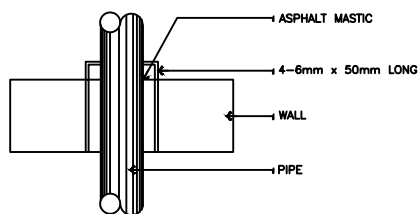
PIPE HANGER		
PIPE SIZE		
FLAT BAR	25-50mm#	38-5mm#
ROUND BAR	10mm#	12mm#
EXPANSION SHIELD	10mm#	12mm#

PIPE HANGER

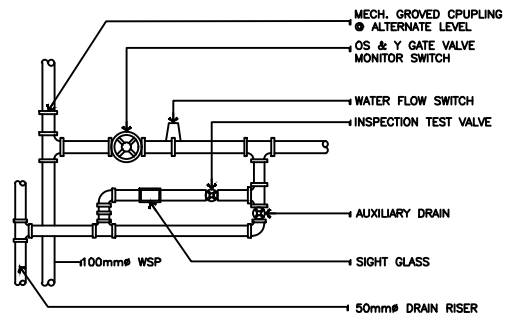
TWO-WAY SWAY BRACE		
PIPE SIZE		
ROUND BAR	10mm#	
ANGULAR BAR	38 x 5mm	
EXPANSION SHIELD	10mm	



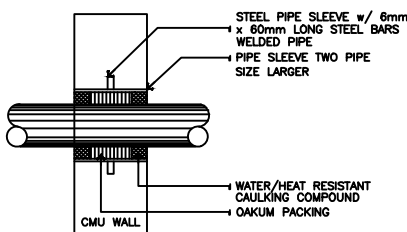
TWO WAY BRACE PIPE HANGER



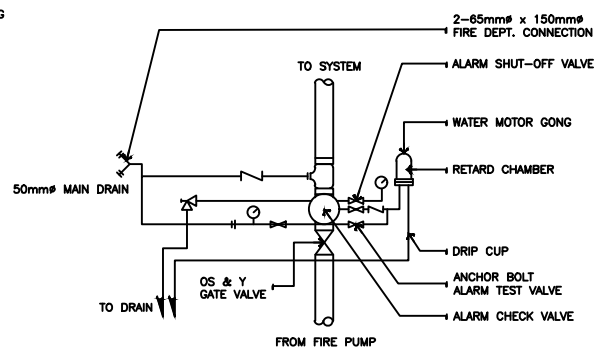
FOUR WAY BRACE



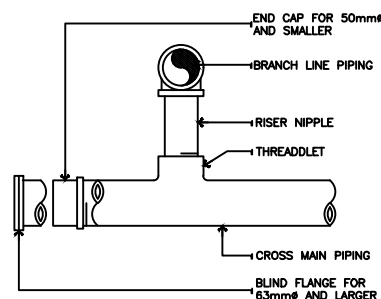
FLOOR CONTROL VALVE



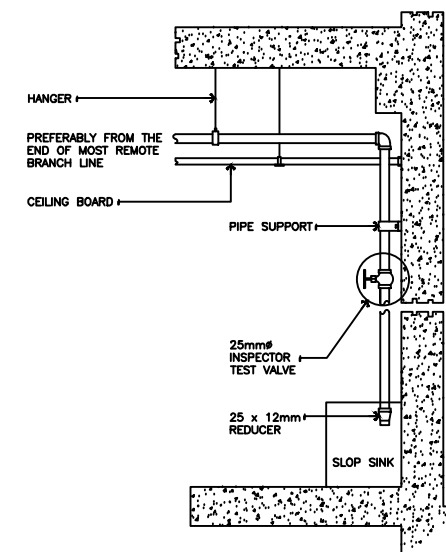
PIPE SLEEVE



ALARM CHECK VALVE SCHEMATIC DIAGRAM



DET. OF FLUSHING CONNECTION



INSPECTOR TEST CONNECTION DET.

JOCKEY PUMP

DESIGNATION	QUANTITY	CAPACITY L/min./(gpm)	TYPE	WORKING PRESSURE Kpa/(psi)	MOTOR RATING					REMARKS
					RPM	KW/(hp)	VOLTS	PHASE	HERTZ	
JP	1	37.85 (10)	MULTI-STAGE VERTICAL (8 STAGES)	758 (110)	2880	2.24(3)	230	THREE	60	UNIT SHALL BE BRAND NEW AND OF THE APPROVED TYPE. COMPLETE WITH STANDARD ACCESSORIES, READY FOR SERVICE.

FIRE EXTINGUISHER

DESIGNATION	QUANTITY	WEIGHT		TYPE (LOCATION)	DISCHARGE RANGE	DIAMETER	MAXIMUM VOLUME OF PROTECTION	EXTINGUISHING AGENT	REMARKS
		GROSS	AGENT						
FE 1	6	18.8 lbs.	10 LBS	WALL MOUNTED	6.00 m.	15.2 cm.	51 m	HCFC 123	ENVIRONMENT FRIENDLY, BRAND NEW AND READY FOR SERVICE

FIRE EXTINGUISHER

DESIGNATION	QUANTITY	WEIGHT		TYPE (LOCATION)	DISCHARGE RANGE	DIAMETER	MAXIMUM VOLUME OF PROTECTION	EXTINGUISHING AGENT	REMARKS
		GROSS	AGENT						
FE	9	18.8 lbs.	10 LBS	WALL MOUNTED	6.00 m.	15.2 cm.	51 m	HCFC 123	ENVIRONMENT FRIENDLY, BRAND NEW AND READY FOR SERVICE

NOTE:
PURSUANT TO SECTION 4 OF ANNEX "A" OF THE REVISED IMPLEMENTING RULES AND REGULATION OF R.A. 9164, APPROVAL BY THE AUTHORIZED DPWH OFFICIALS OF DETAILED ENGINEERING SURVEYS AND DESIGN UNDERTAKEN BY CONSULTANTS NEITHER DIMINISHES THE RESPONSIBILITY OF THE LATTER FOR THE TECHNICAL INTEGRITY OF THE SURVEYS AND DESIGN NOR TRANSFER ANY PART OF THAT RESPONSIBILITY TO THE APPROVING OFFICIALS.

THE DESIGN CONSULTANT SHALL BE HELD FULLY RESPONSIBLE FOR THE FAILURE OF THE FACILITY/ES/STRUCTURES DUE TO FAULTY DESIGN EXCEPT FOR THE CHANGES MADE WITHOUT THE CONFORMITY OF THE CONSULTANTS.

1 FIRE PROTECTION DETAIL
FP-3 BOXLE TO



PROJECT TITLE: COMPLETION OF ACADEMIC BUILDING, JHCSC PAGADIAN CAMPUS	PREPARED BY: <i>abapol</i> AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY: <i>Pangasian B. Mamintas</i> PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL: <i>Rodrigo P. Millares Jr.</i> RODRIGO P. MILLARES JR., REE., ENP. PLANNING OFFICER	APPROVED: <i>Edgardo H. Rosales</i> EDGARDO H. ROSALES, Ed.D. JHCSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: M-5 5/5
LOCATION: BALANGASAN DISTRICT, PAGADIAN CITY	DATE:	DATE:	DATE:	DATE:		

DISTRICT/CITY/MUNICIPALITY

PLUMBING/SANITARY:

PLUMBING NOTES:

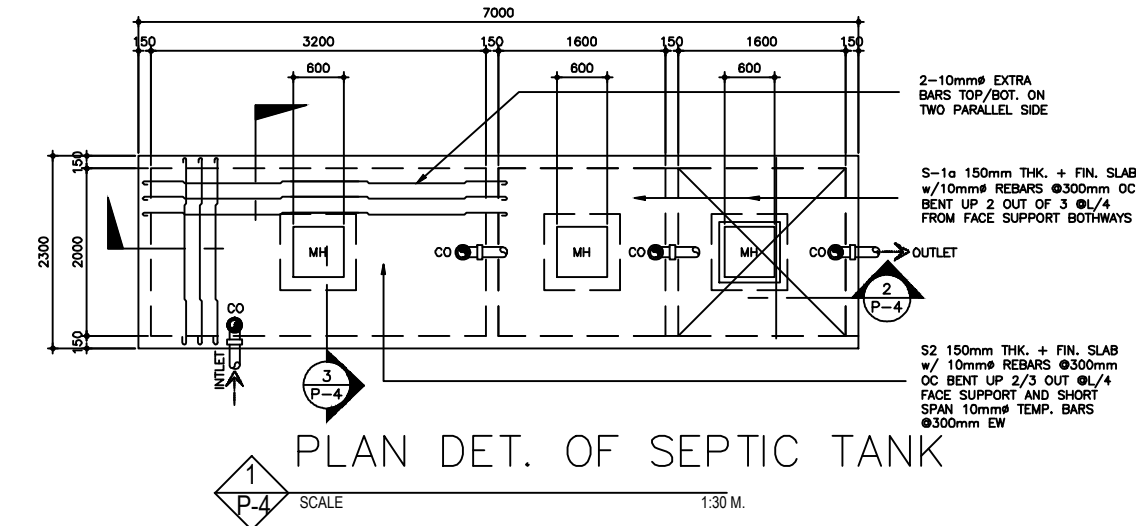
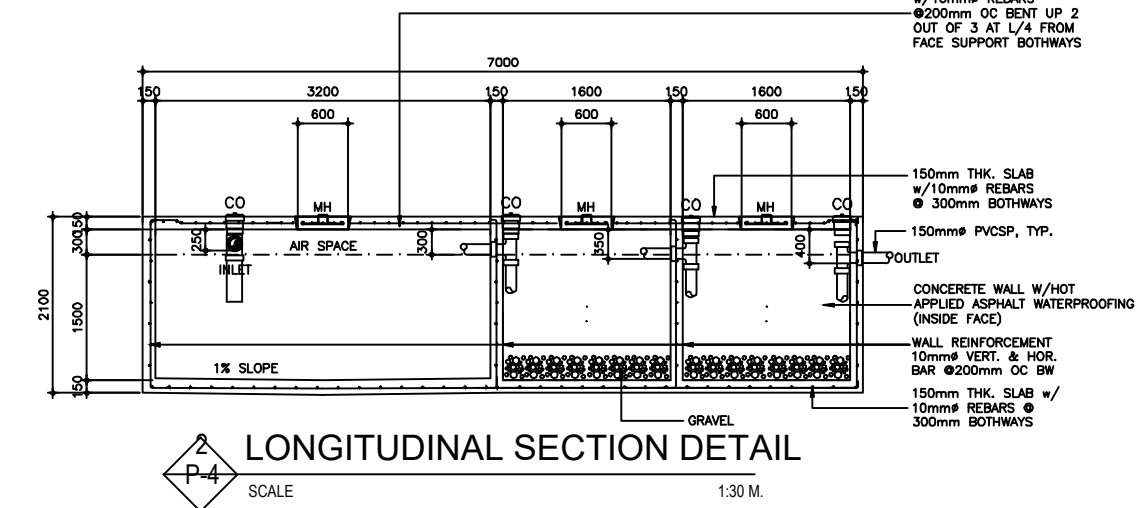
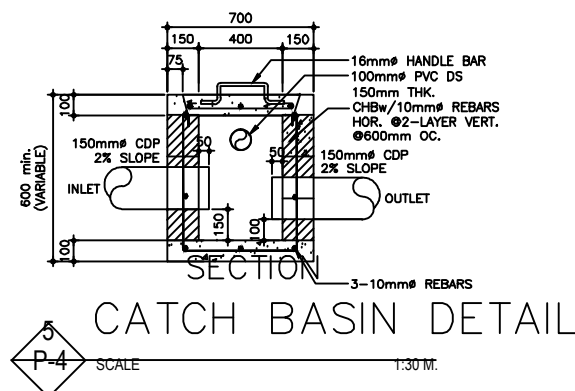
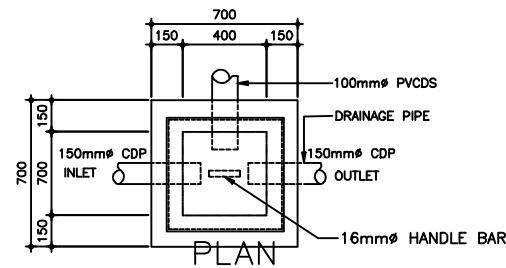
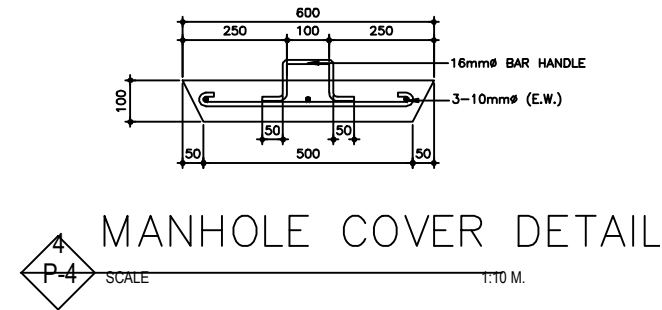
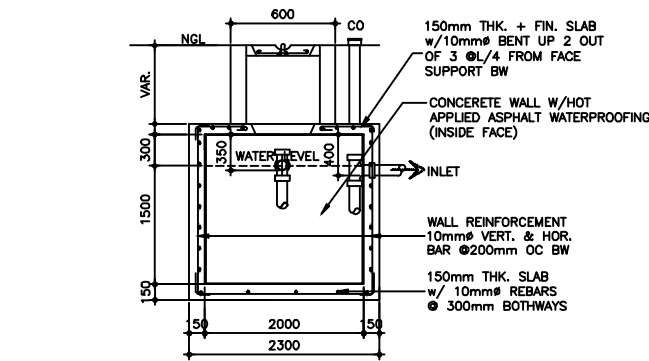
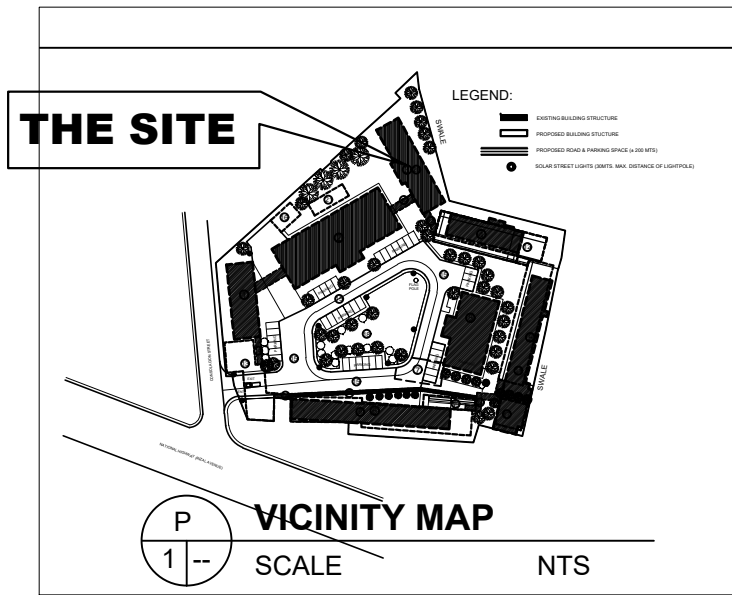
ALL PLUMBING INSTALLATION SHALL CONFORM TO THE STANDARD / RULES AND REGULATIONS OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES AND LOCAL GOVERNMENT.

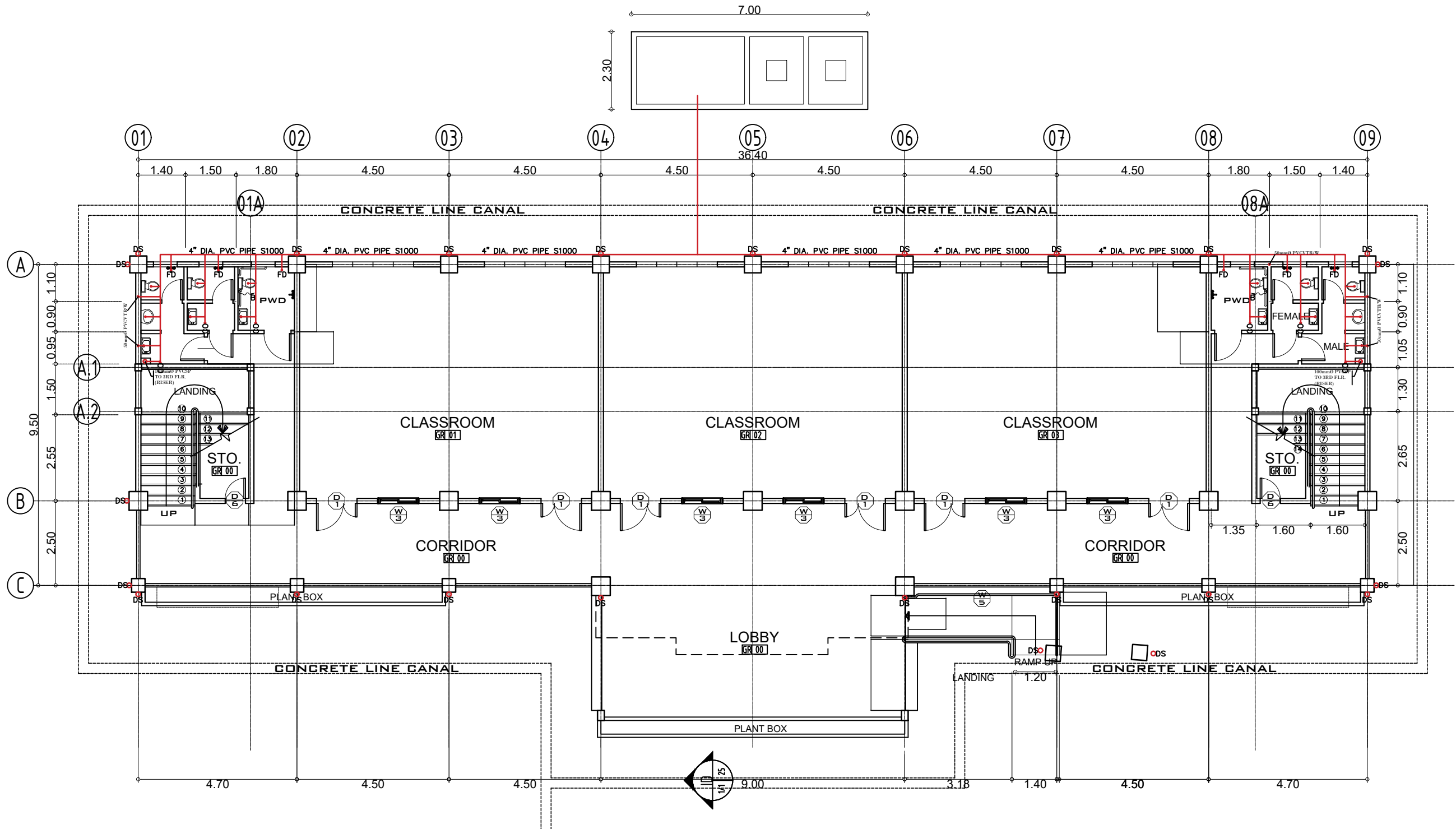
ALL PLUMBING INSTALLATIONS SHALL BE UNDER THE DIRECT AND STRICT SUPERVISION OF DULY LICENSED PLUMBING ENGINEER OR REGISTERED MASTER PLUMBER.

ALL SPECIFICATION ABOVE SHOULD BE STRICTLY OBSERVED.






PLUMBING SYMBOLS:

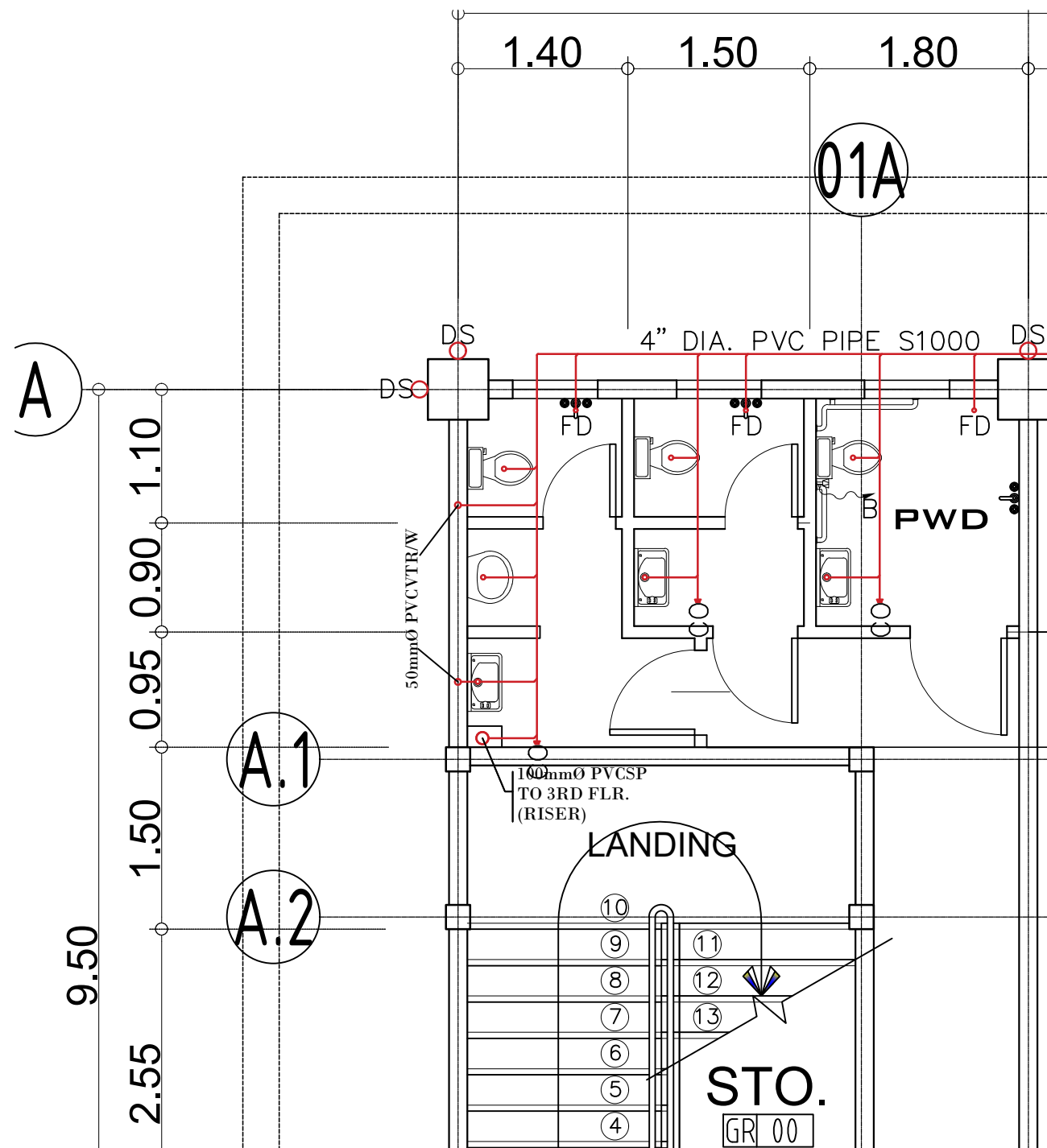
F	FAUCET
FD	FLOOR DRAIN
WC	WATER CLOSET
CO	CLEAN-OUT
DS	DOWNSPOUT
M	WATER METER
ST	SEPTIC TANK
MVTR	MAIN VENT THRU ROOF
URI	URINAL
WEP	WATER ENTRANCE PIPE
—	½" Ø WATER LINE (G.I. PIPE)
—	2" Ø MVTR & FLOOR DRAIN
—	3" Ø ROOF DRAIN PIPE
—	4" Ø SOIL PIPE (WASTE/SANITARY)



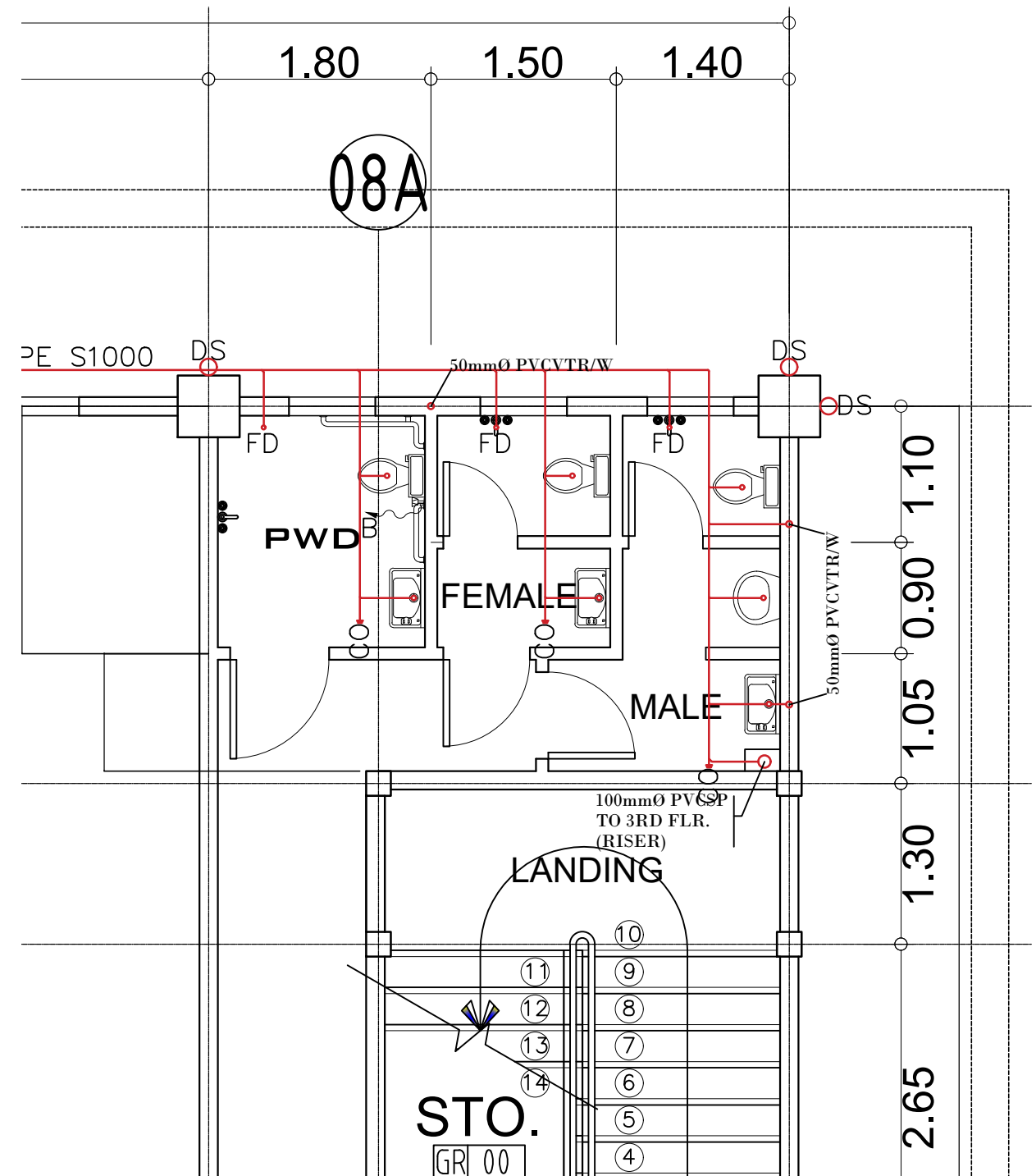


1
GROUND FLOOR SANITARY LAY - OUT
 P-2 SCALE 1:125M

	PROJECT TITLE: COMPLETION OF ACADEMIC BUILDING, JHSCS PAGADIAN CAMPUS	PREPARED BY:  AIVY B. GAROL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY:  PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL:  RODRIGO P. MILLARES JR., REE. ENP. PLANNING OFFICER	APPROVED:  EDGARDO H. ROSALES, Ed.D. JHSCS - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO: P-2 214
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY		DATE :		DATE :		DATE :	

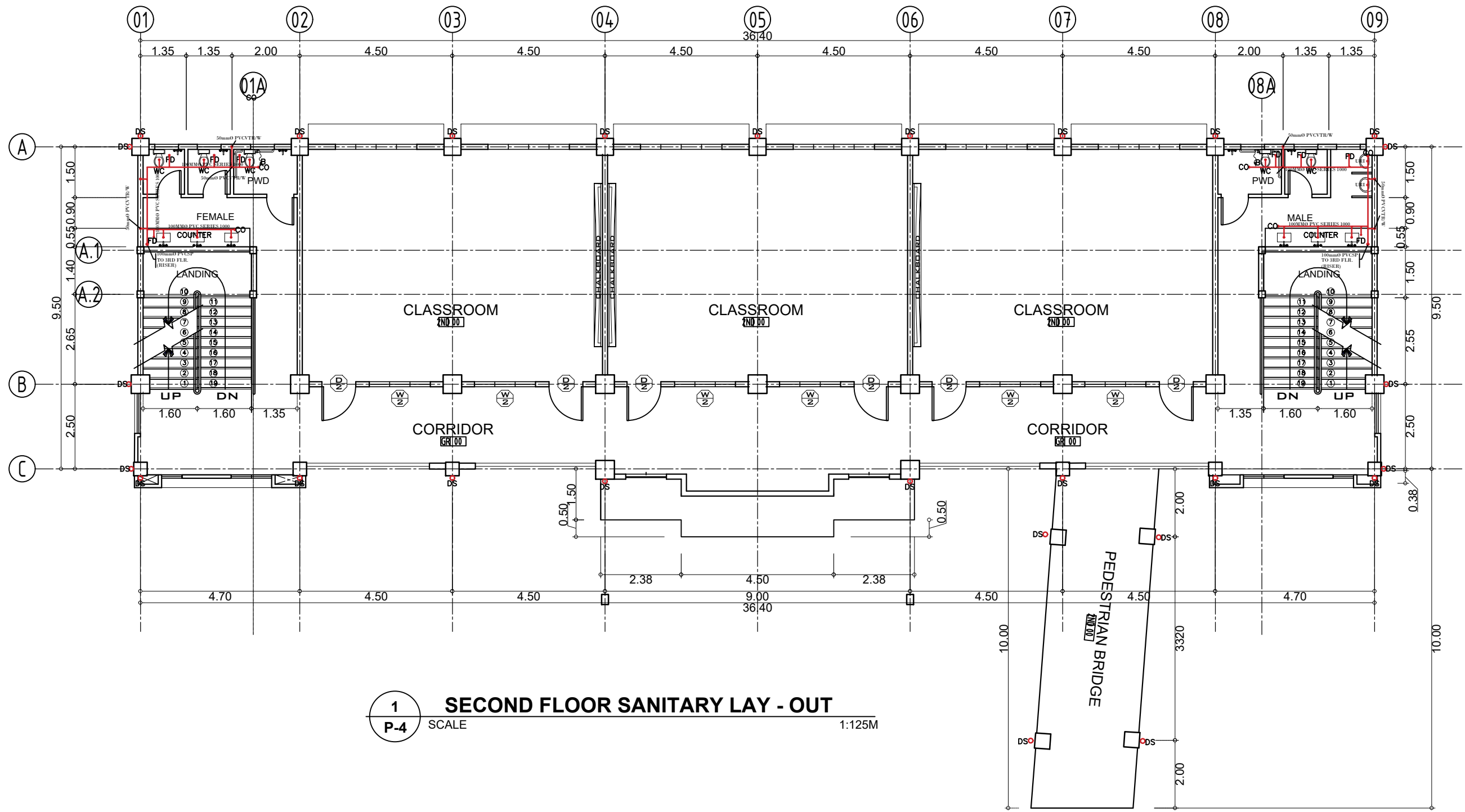


1 BLOW-UP GROUND FLOOR FEMALE CR SANITARY LAY - OUT
 P-3 SCALE 1:50M






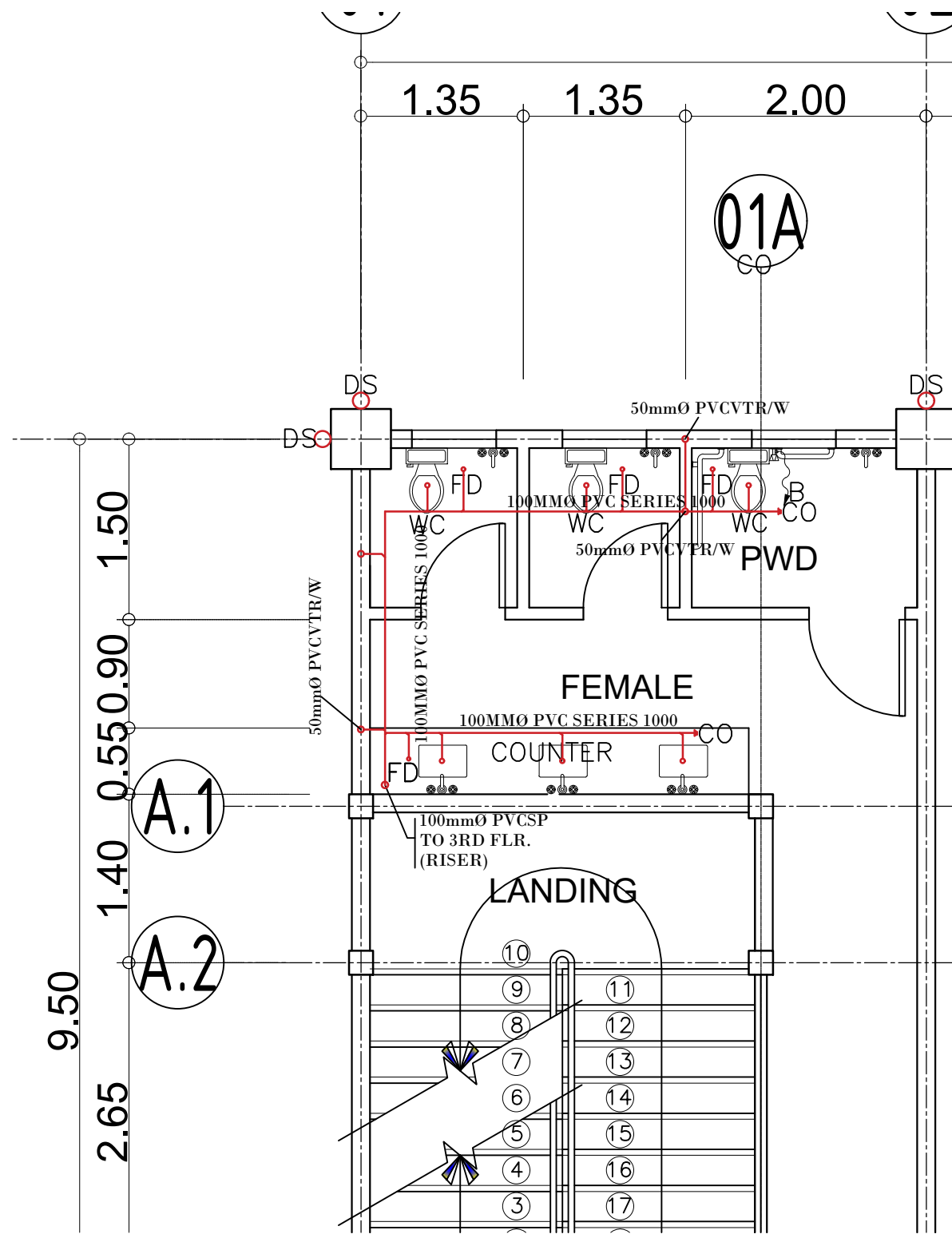
2 BLOW-UP GROUND FLOOR MALE CR SANITARY LAY - OUT
 P-3 SCALE 1:50M

	PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET NO.:
	COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	 AIVY B. GAPOL, CE ENGINEERING ASSISTANT	 PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	 RODRIGO P. MILLARES JR., REE. ENP. PLANNING OFFICER	 EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	AS SHOWN	P-3 3 14
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE:	DATE:	DATE:	DATE:	DATE:		

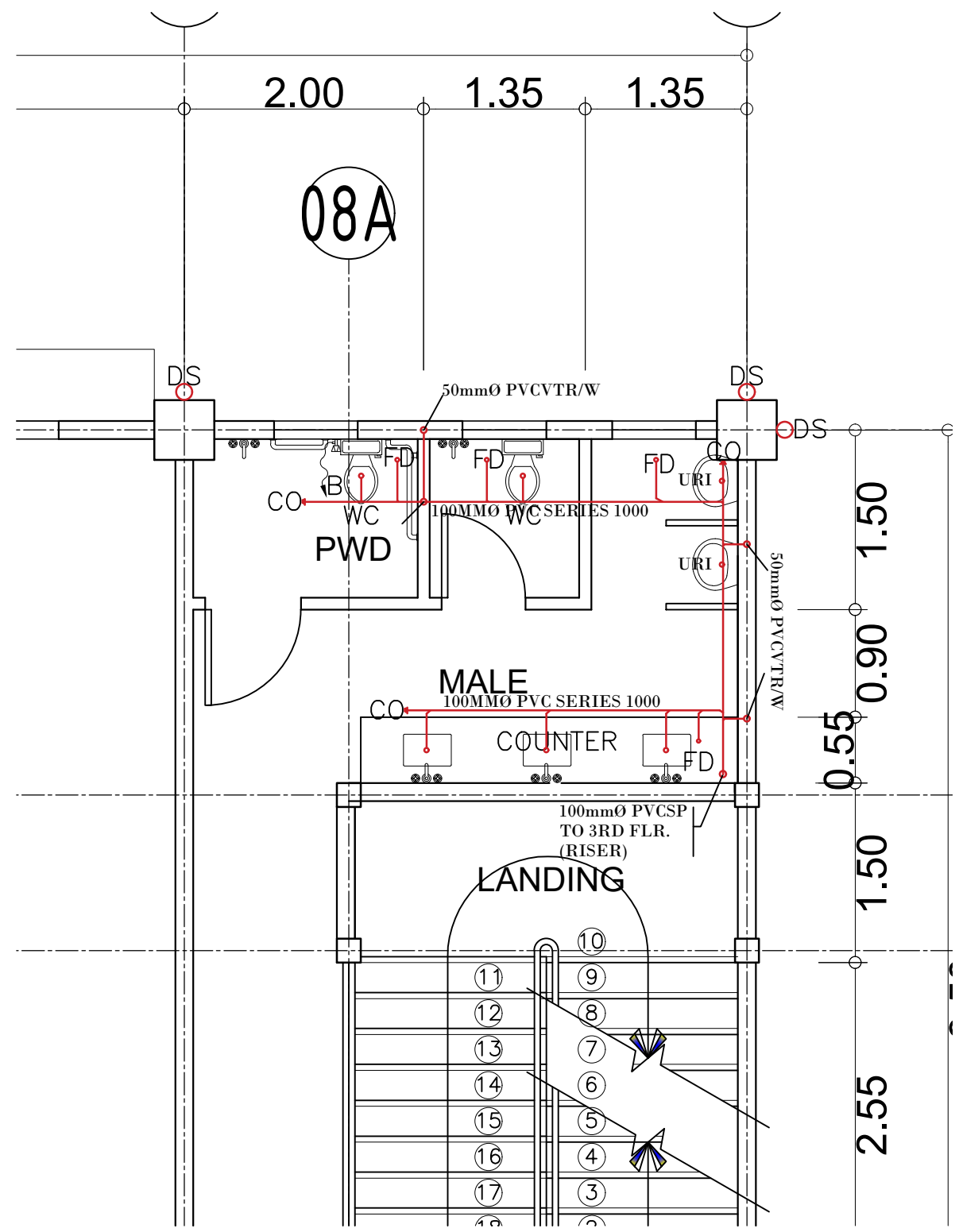


1 SECOND FLOOR SANITARY LAY - OUT
 P-4 SCALE 1:125M

	PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET NO.:
	COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	 AIVY B. GAPOL, CE ENGINEERING ASSISTANT	 PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	 RODRIGO P. MILLARES JR., REE. ENP. PLANNING OFFICER	 EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	AS SHOWN	<div style="border: 1px solid black; border-radius: 50%; width: 30px; height: 30px; display: flex; flex-direction: column; align-items: center; justify-content: center;"> P-4 4 14 </div>
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :	DATE :		



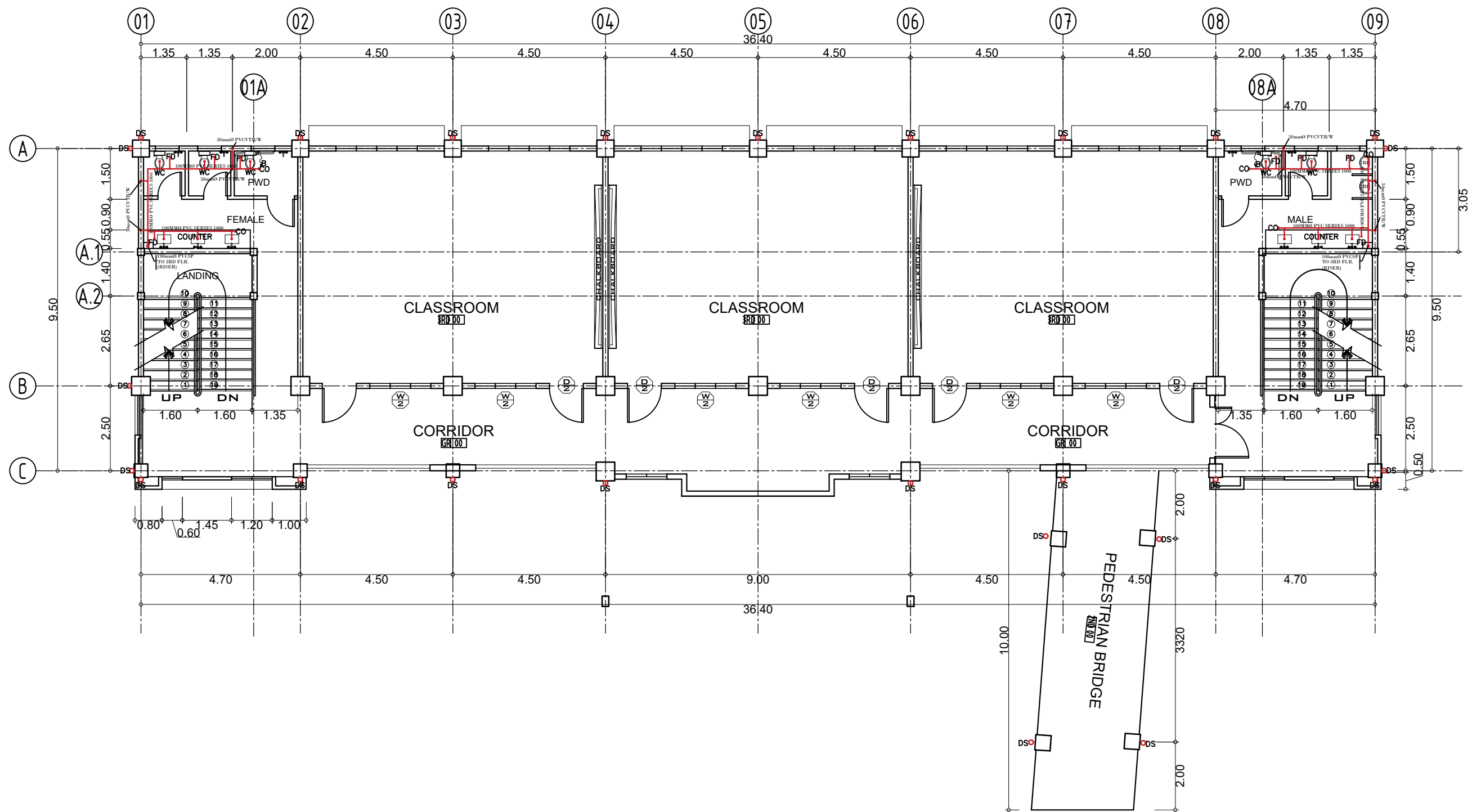
1 BLOW-UP SECOND FLOOR FEMALE CR SANITARY LAY - OUT
 P-5 SCALE 1:50M








2 BLOW-UP SECOND FLOOR MALE CR SANITARY LAY - OUT
 P-5 SCALE 1:50M

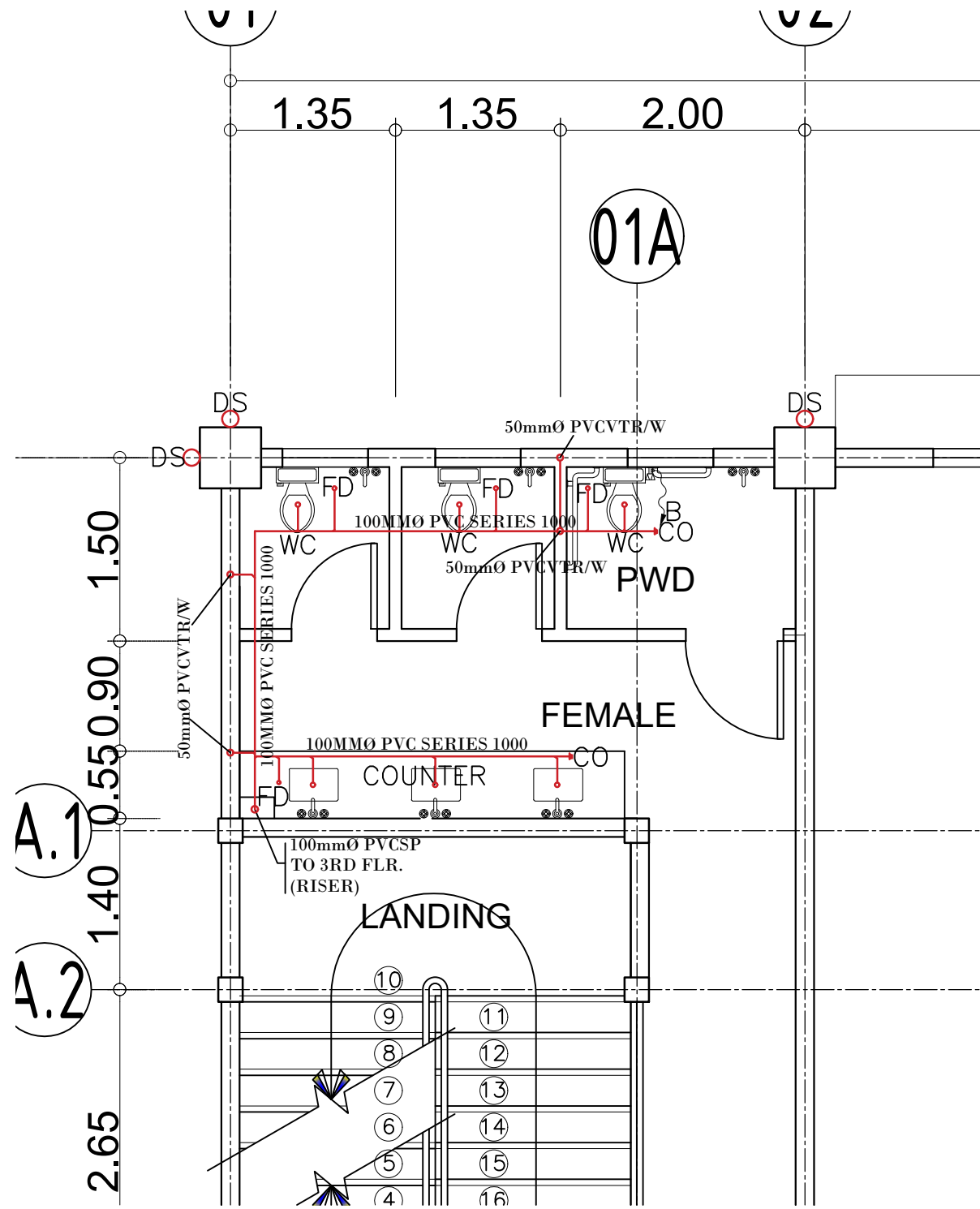


PROJECT TITLE: COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	PREPARED BY: <i>abapol</i> AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY: <i>[Signature]</i> PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL: <i>[Signature]</i> RODRIGO P. MILLARES JR., REE. ENP. PLANNING OFFICER	APPROVED: <i>[Signature]</i> EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: P-5 5 14
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE:	DATE:	DATE:	DATE:		

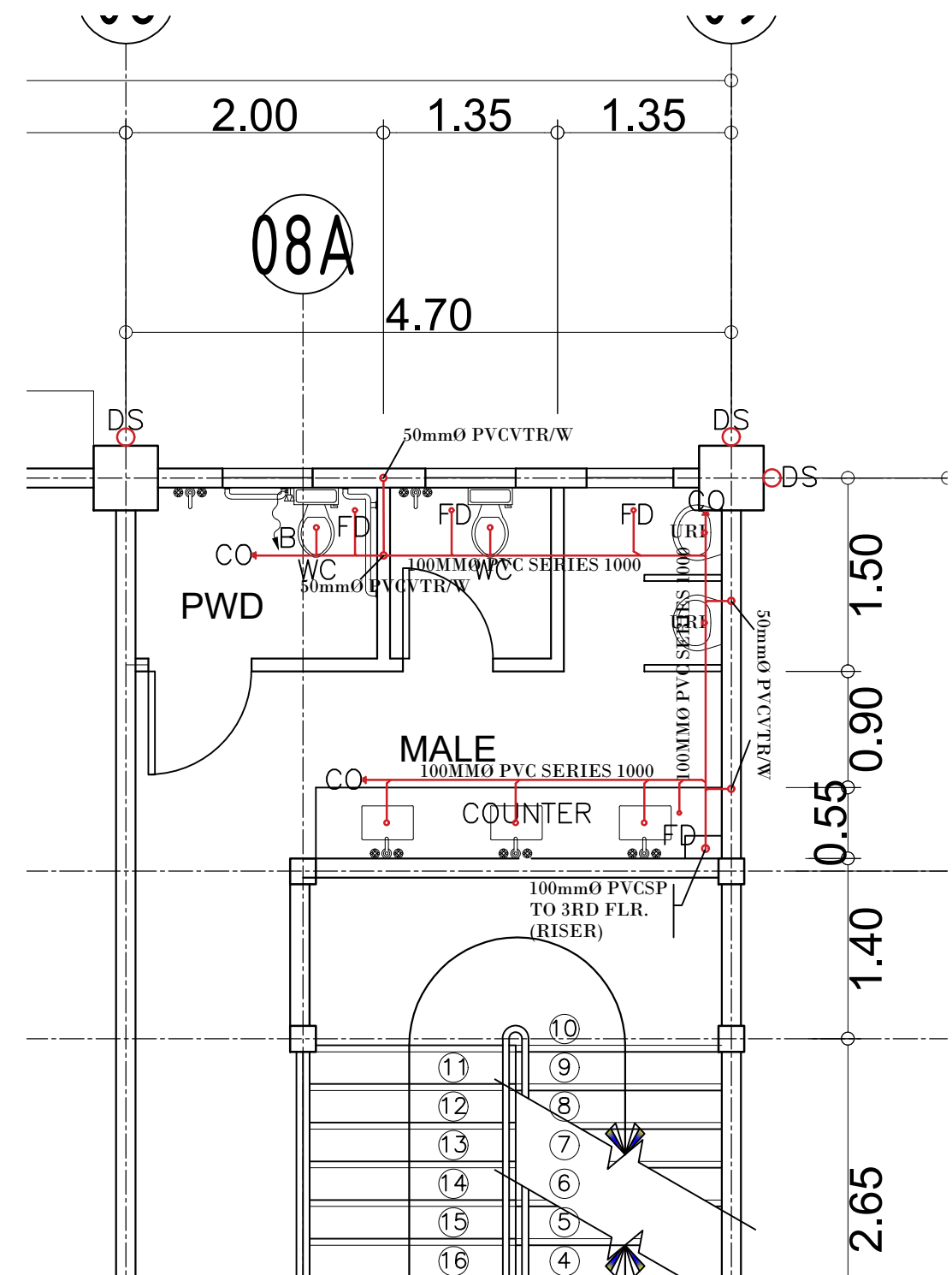


1
THIRD FLOOR SANITARY LAY - OUT
P-6 SCALE 1:125M


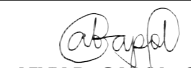



	PROJECT TITLE : COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	PREPARED BY:  AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY:  PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL:  RODRIGO P. MILLARES JR., REE. ENP. PLANNING OFFICER	APPROVED:  EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO: P-6 6 14
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY		DATE :		DATE :		DATE :	

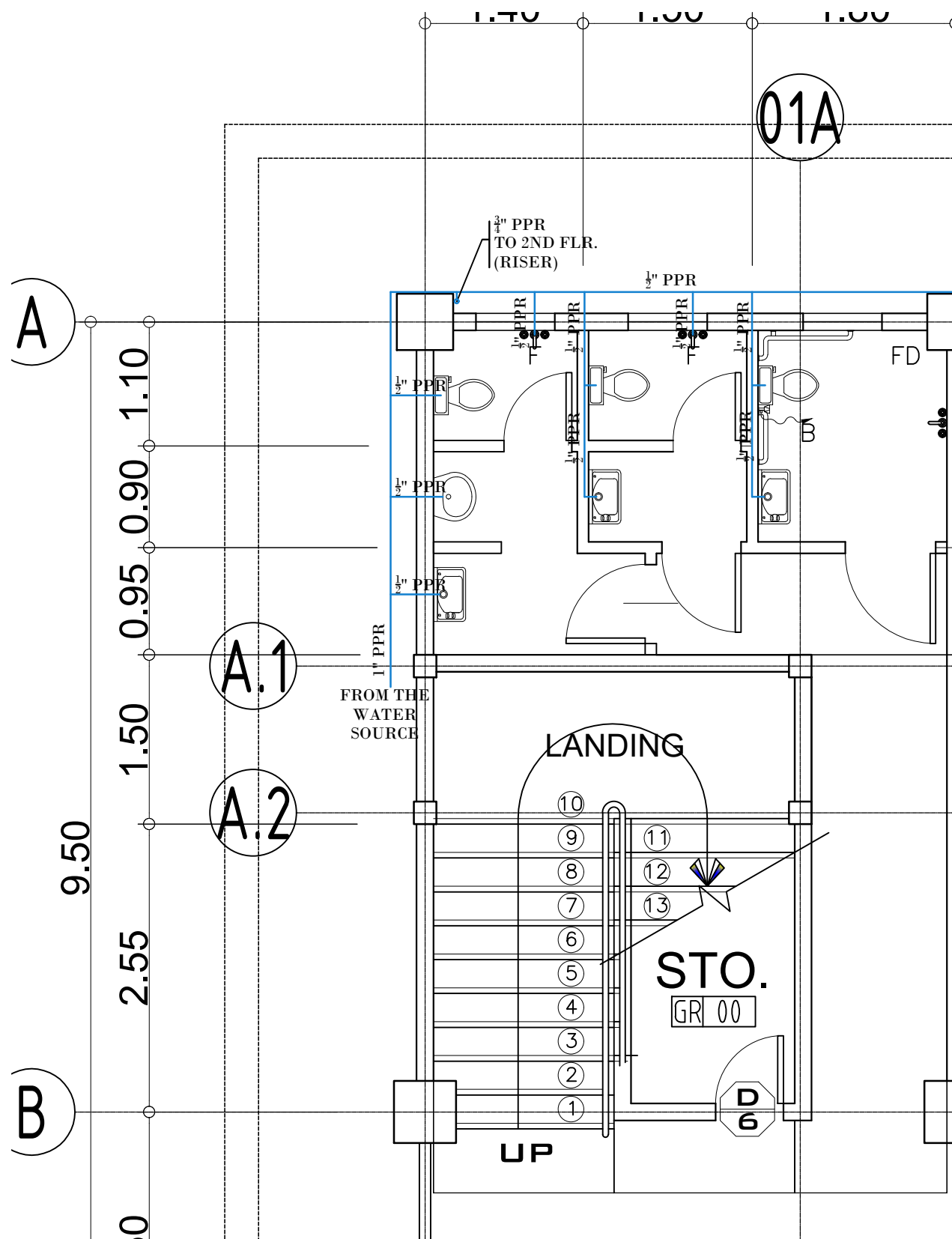


1 BLOW-UP THIRD FLOOR FEMALE SANITARY LAY - OUT
 SCALE 1:125M

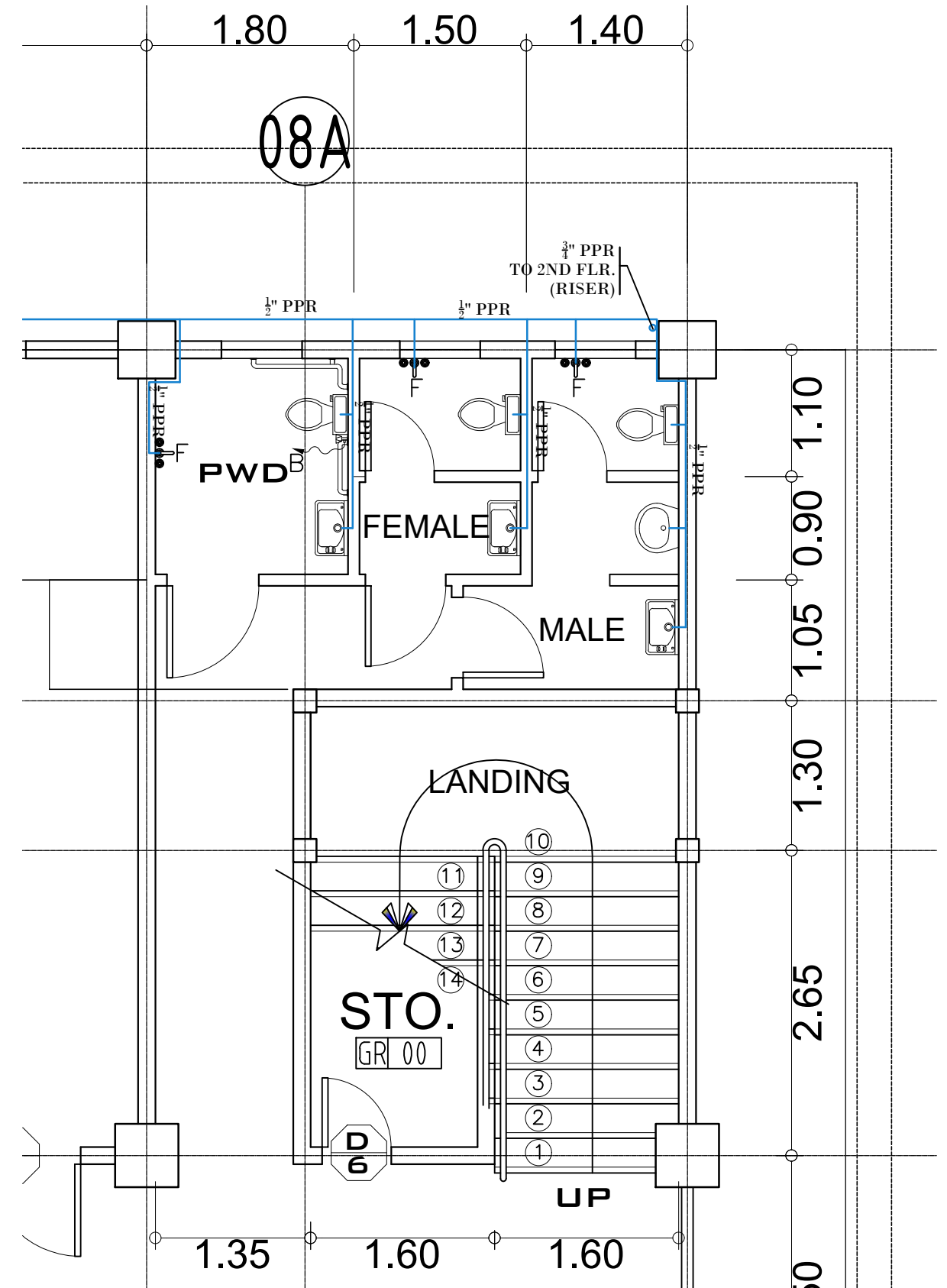


2 BLOW-UP THIRD FLOOR MALE SANITARY LAY - OUT
 SCALE 1:125M

	PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET NO:
	COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	 IVY B. GAPOL, CE ENGINEERING ASSISTANT	 PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	 RODRIGO P. MILLARES JR., REE. ENP. PLANNING OFFICER	 EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	AS SHOWN	P-7 7 14
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE:	DATE:	DATE:	DATE:	DATE:		



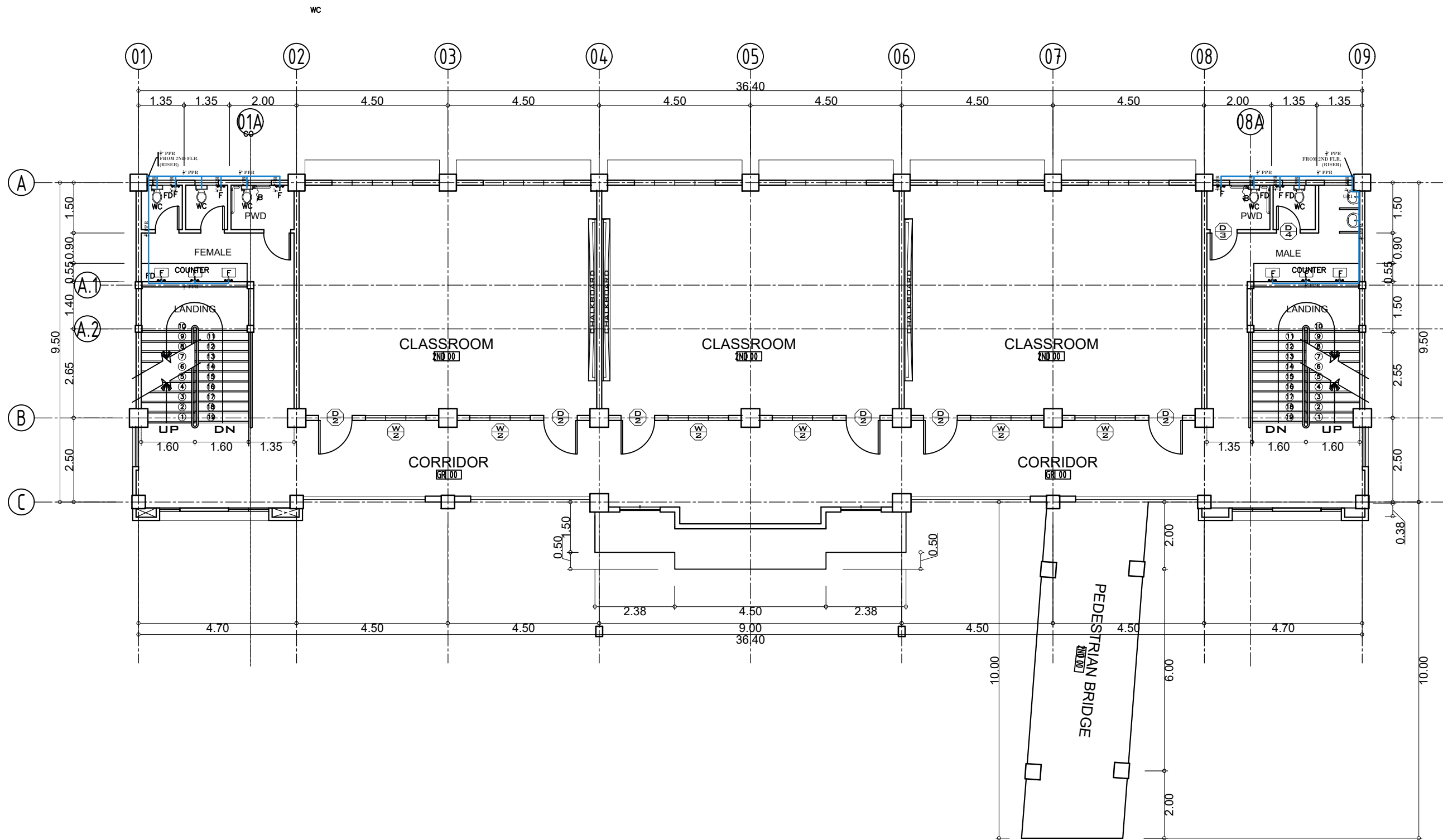
1 BLOW-UP GROUND FLOOR FEMALE WATER DISTRIBUTION LAY - OUT
 P-9 SCALE 1:125M



2 BLOW-UP GROUND FLOOR MALE WATER DISTRIBUTION LAY - OUT
 P-9 SCALE 1:125M



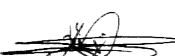



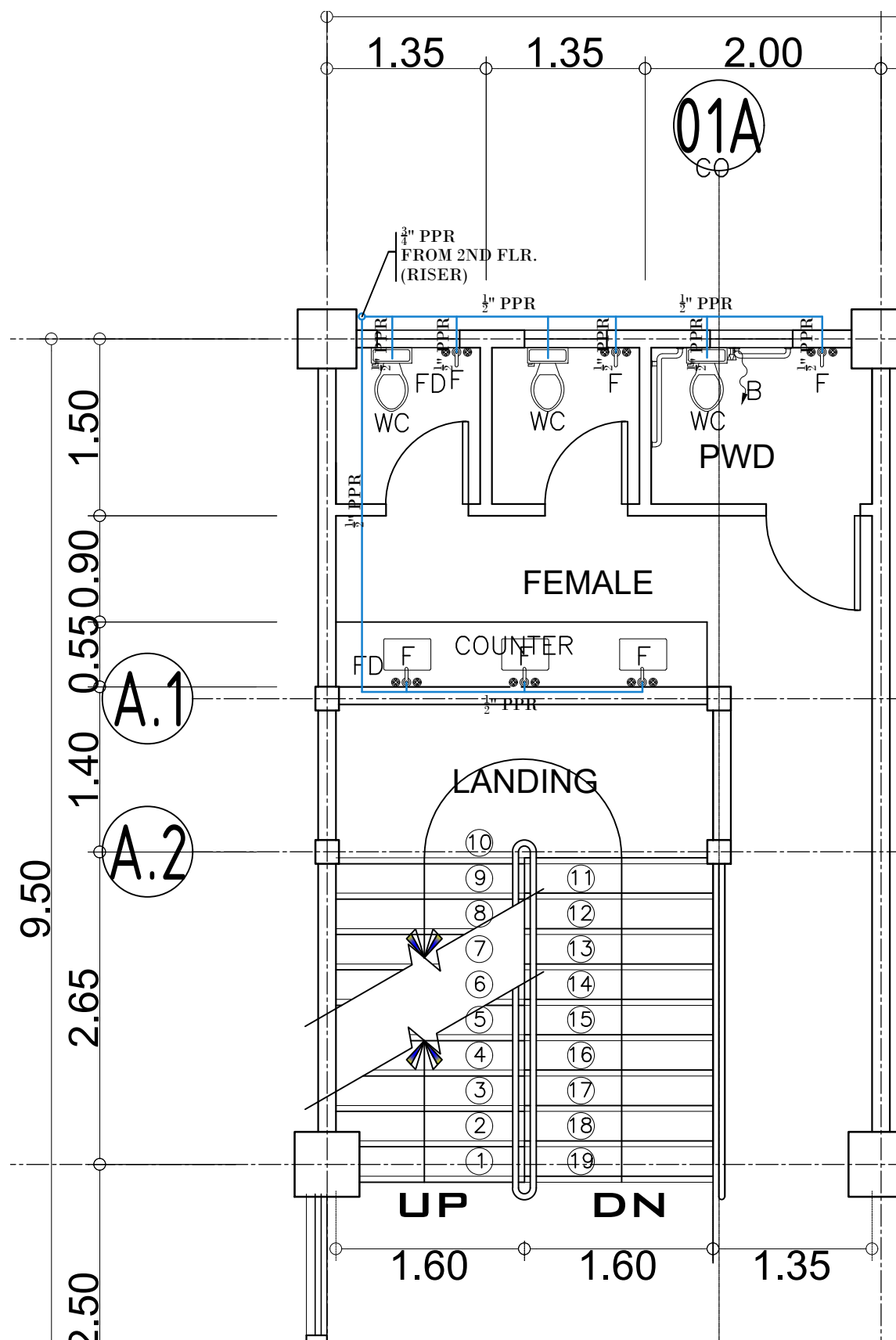
PROJECT TITLE: COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	PREPARED BY: <i>abapol</i> AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY: <i>[Signature]</i> PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL: <i>[Signature]</i> RODRIGO P. MILLARES JR., REE. ENP. PLANNING OFFICER	APPROVED: <i>[Signature]</i> EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: P-9 9 14
LOCATION: BALANGASAN DISTRICT, PAGADIAN CITY	DATE:	DATE:	DATE:	DATE:		



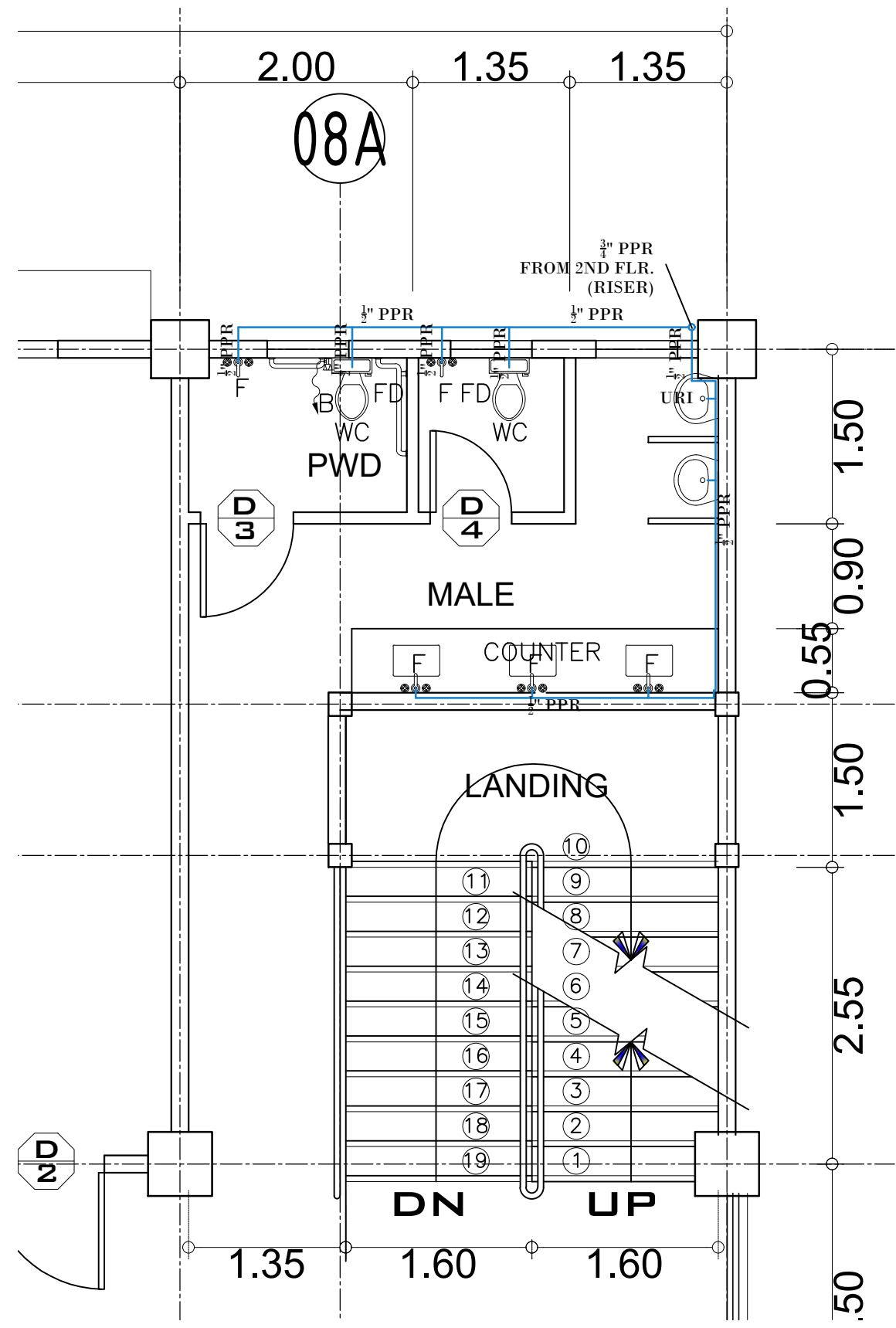
1
SECOND FLOOR WATER DISTRIBUTION LAY - OUT
P-10 SCALE 1:125M






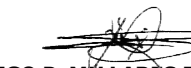

PROJECT TITLE : COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	PREPARED BY:  AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY:  PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL:  RODRIGO P. MILLARES JR., REE. ENP. PLANNING OFFICER	APPROVED:  EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: <div style="border: 2px solid black; border-radius: 50%; padding: 5px; text-align: center;"> P-10 1014 </div>
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	DATE :	DATE :	DATE :	DATE :		

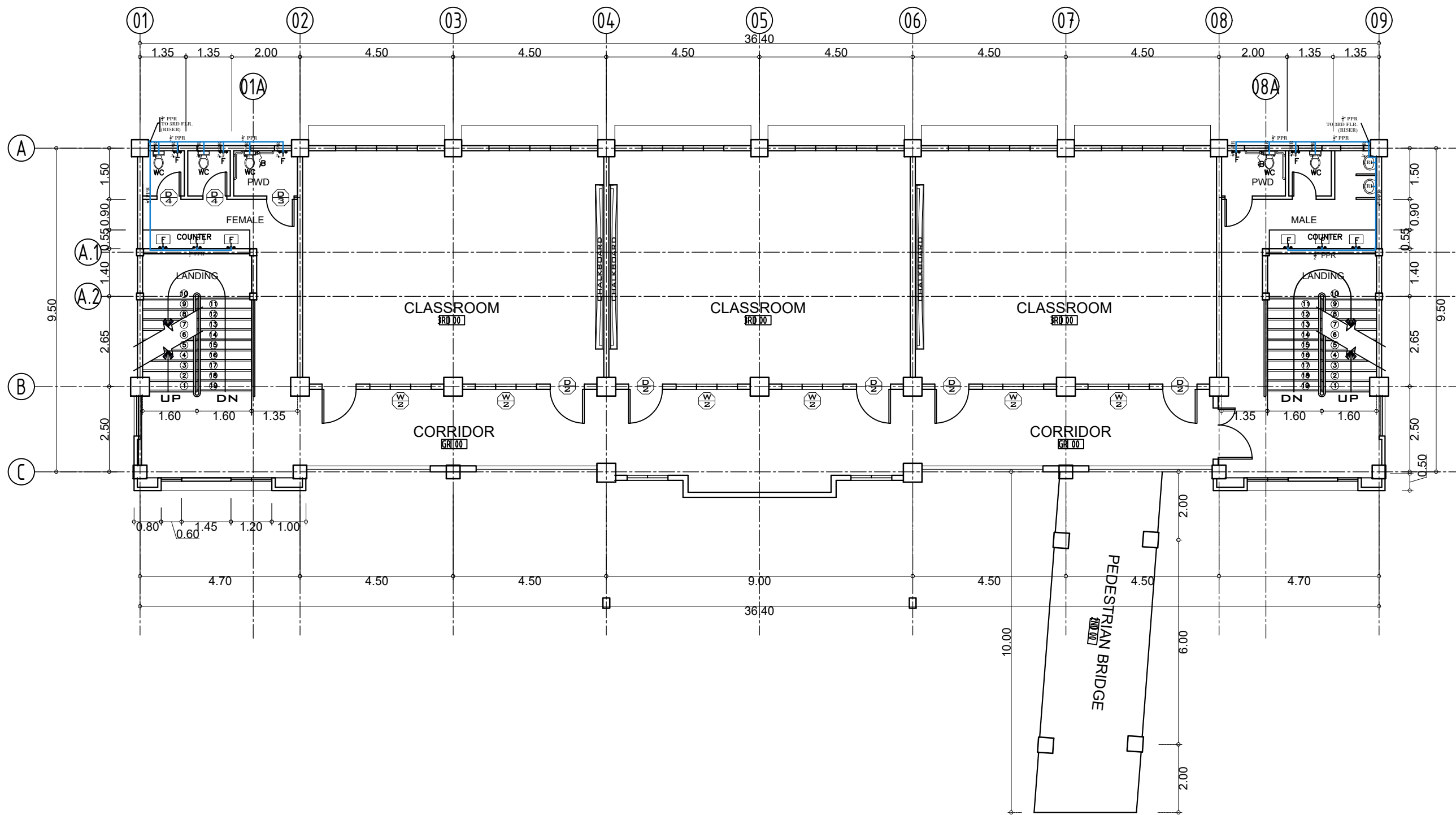


1 BLOW-UP SECOND FLOOR FEMALE WATER DISTRIBUTION LAY - OUT
 SCALE 1:125M



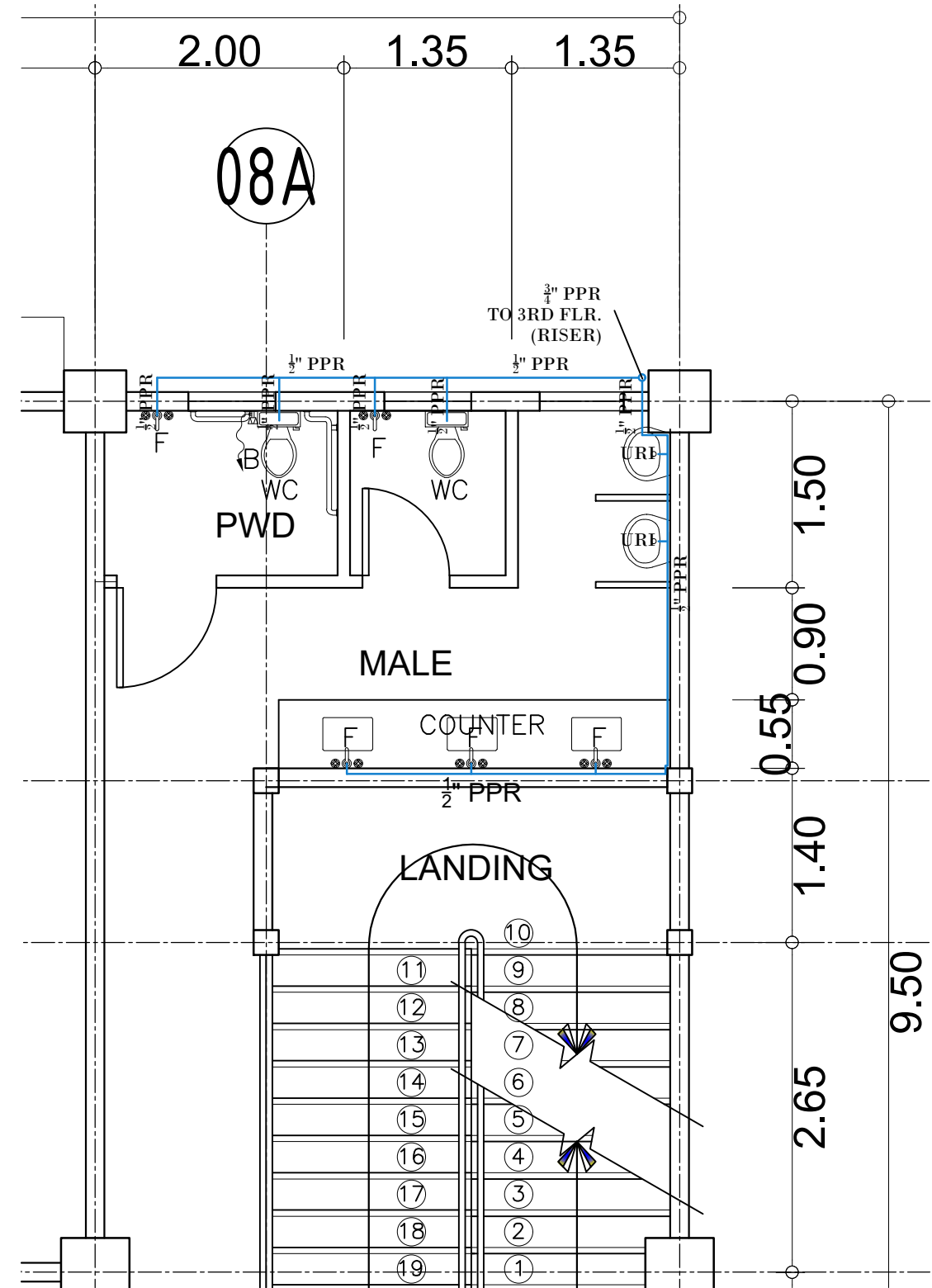
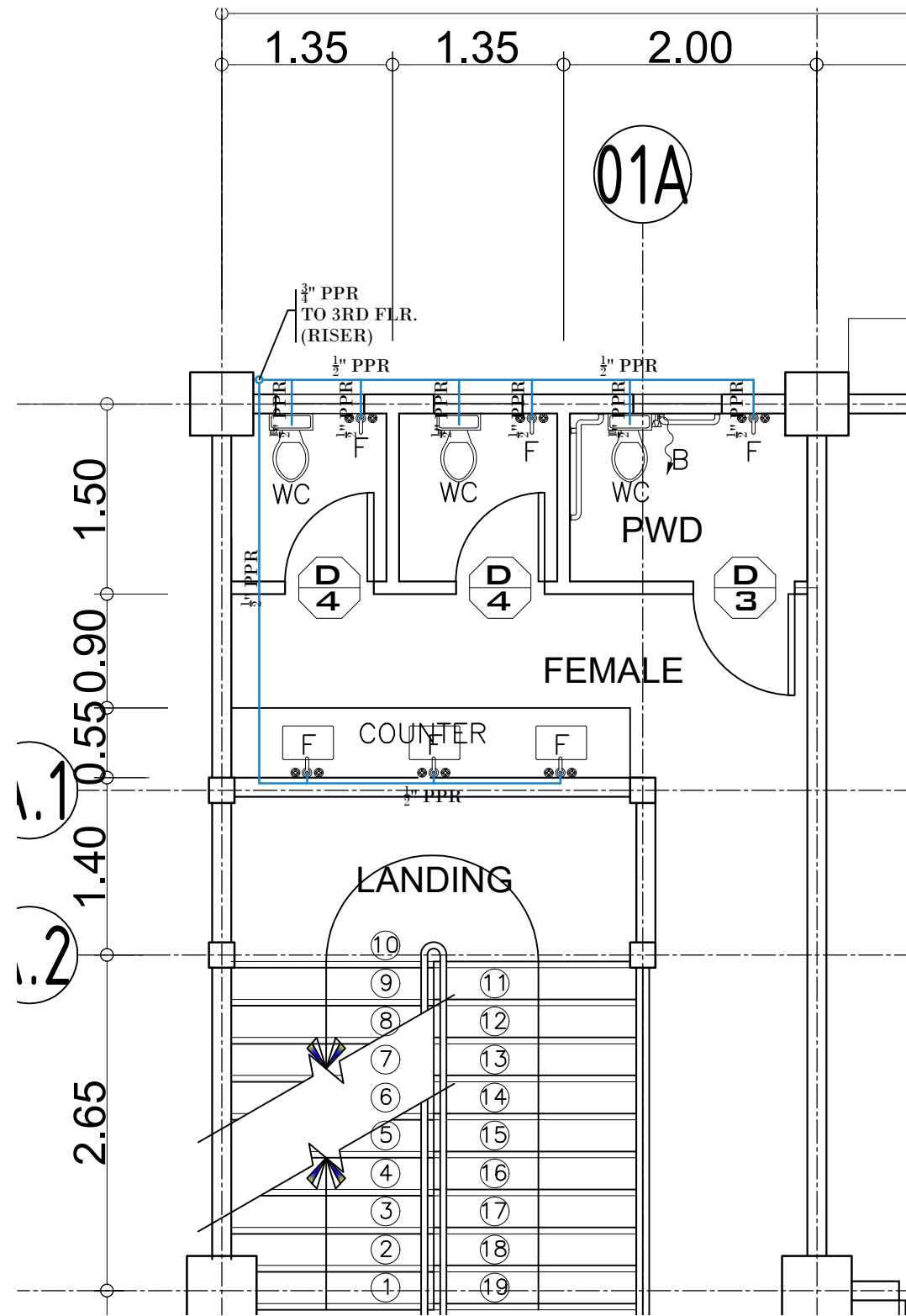
2 BLOW-UP SECOND FLOOR MALE WATER DISTRIBUTION LAY - OUT
 SCALE 1:125M

	PROJECT TITLE:	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET NO.:
	COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS <small>LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY</small>	 AVY B. GAPOL, CE <small>ENGINEERING ASSISTANT</small>	 PANGASIAN B. MAMINTAS, CE <small>COLLEGE ENGINEER</small>	 RODRIGO P. MILLARES JR., REE. ENP. <small>PLANNING OFFICER</small>	 EDGARDO H. ROSALES, Ed.D. <small>JHSC - PRESIDENT</small>	AS SHOWN	P-11 1114
	DATE:	DATE:	DATE:	DATE:	DATE:		




1 THIRD FLOOR WATER DISTRIBUTION LAY - OUT
 SCALE 1:125M

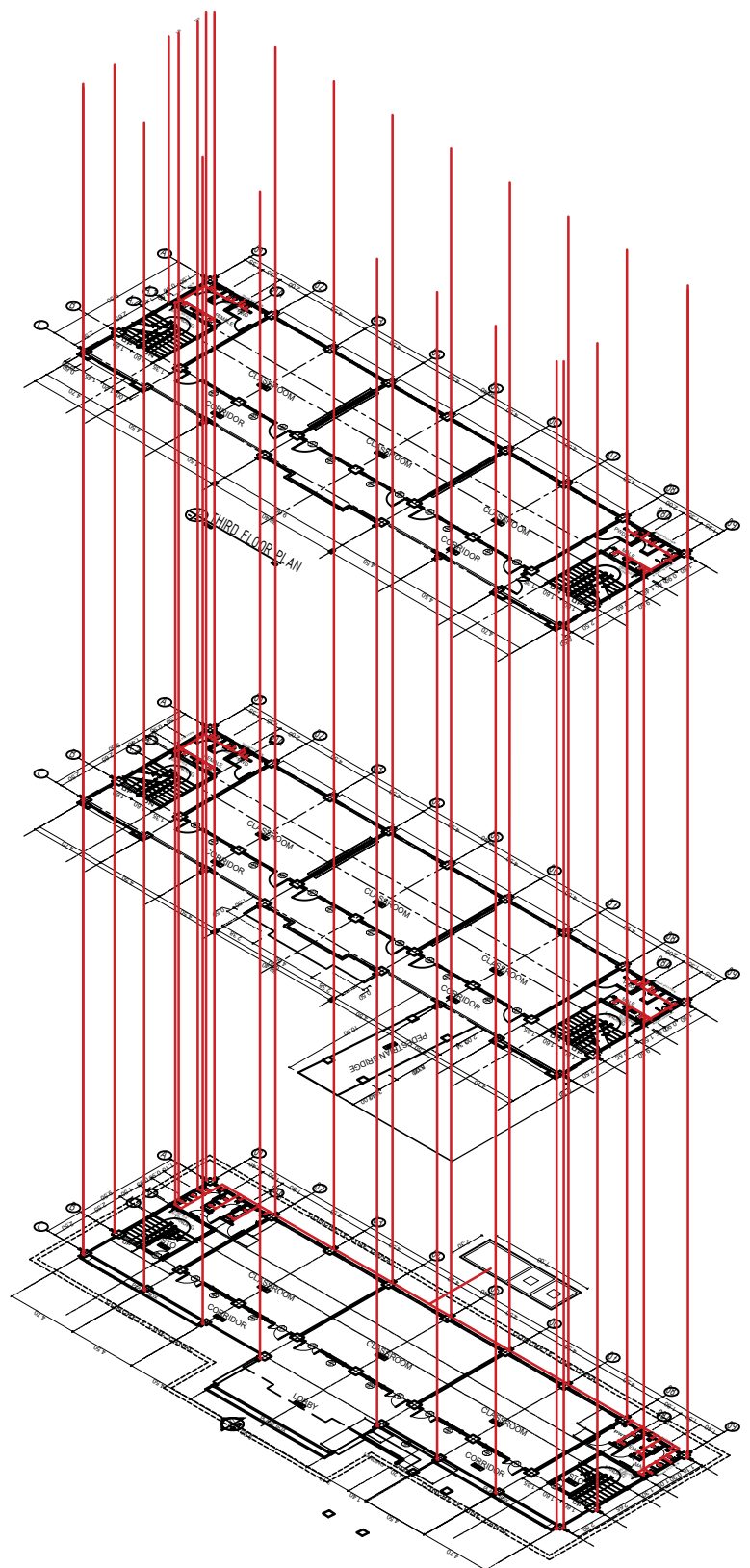
	PROJECT TITLE : COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS	PREPARED BY: AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY: PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL: RODRIGO P. MILLARES JR., REE. ENP. PLANNING OFFICER	APPROVED: EDGARDO H. ROSALES, Ed.D. JHSC - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: P-12 1214
LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY		DATE :		DATE :		DATE :	



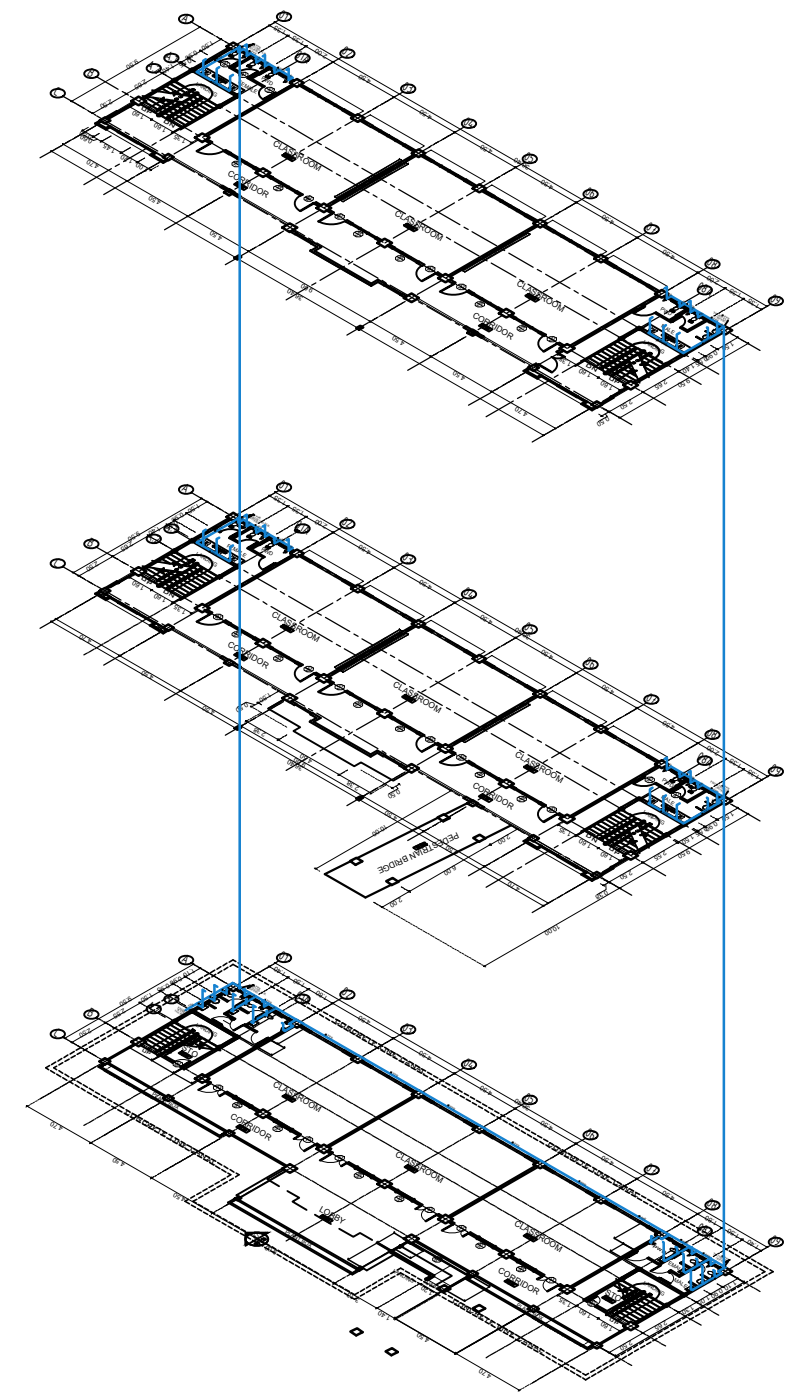
1 BLOW-UP THIRD FLOOR FEMALE WATER DISTRIBUTION LAY - OUT
 P-13 SCALE 1:125M

2 BLOW-UP THIRD FLOOR MALE WATER DISTRIBUTION LAY - OUT
 P-13 SCALE 1:125M





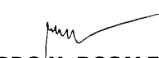
	PROJECT TITLE :	PREPARED BY:	CHECKED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	SHEET NO.:
	COMPLETION OF ACADEMIC BUILDING, JHSC PAGADIAN CAMPUS <small>LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY</small>	 AIVY B. GAPOL, CE <small>ENGINEERING ASSISTANT</small>	 PANGASIAN B. MAMINTAS, CE <small>COLLEGE ENGINEER</small>	 RODRIGO P. MILLARES JR., REE. ENP. <small>PLANNING OFFICER</small>	 EDGARDO H. ROSALES, Ed.D. <small>JHSC - PRESIDENT</small>	AS SHOWN	P-13 1314
	DATE:	DATE:	DATE:	DATE:	DATE:		



1
P-14 SCALE NTS
ISOMETRIC OF SANITARY LAY - OUT



2
P-14 SCALE NTS
ISOMETRIC OF WATER DISTRIBUTION LAY - OUT

	PROJECT TITLE : COMPLETION OF ACADEMIC BUILDING, JHSCS PAGADIAN CAMPUS LOCATION : BALANGASAN DISTRICT, PAGADIAN CITY	PREPARED BY:  AIVY B. GAPOL, CE ENGINEERING ASSISTANT	CHECKED & SUBMITTED BY:  PANGASIAN B. MAMINTAS, CE COLLEGE ENGINEER	RECOMMENDING APPROVAL:  RODRIGO P. MILLARES JR., REE. ENP. PLANNING OFFICER	APPROVED:  EDGARDO H. ROSALES, Ed.D. JHSCS - PRESIDENT	SHEET CONTENT: AS SHOWN	SHEET NO.: P-14 1414
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