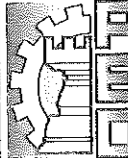


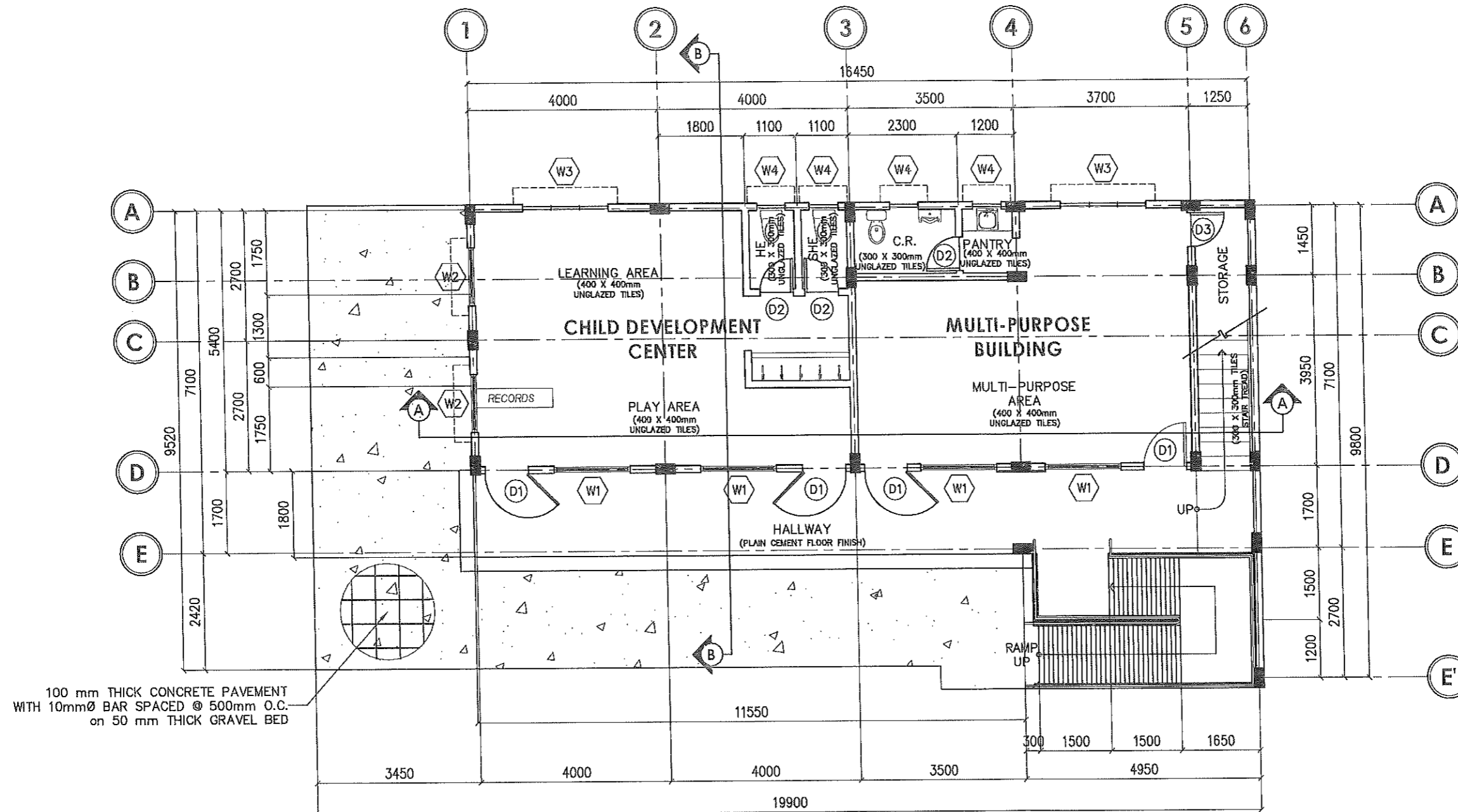
VICINITY MAP

PERSPECTIVE

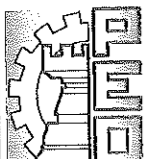
PROJECT TITLE & LOCATION :

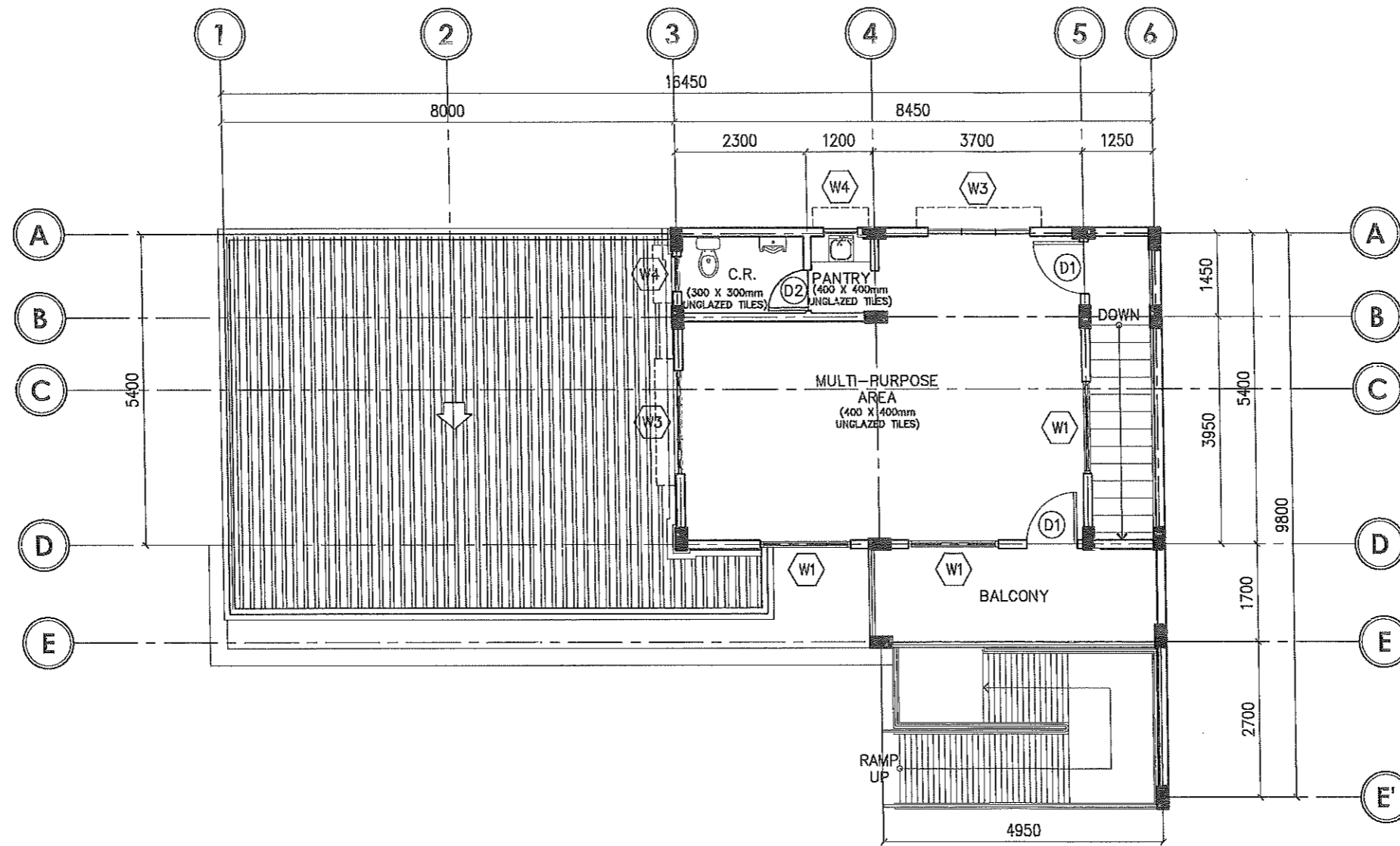
CONSTRUCTION/IMPROVEMENT OF MULTI-PURPOSE BUILDING AND CHILD DEVELOPMENT CENTER AT COLGANTE, APALIT, PAMPANGA

FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
 <p>REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)</p>	<p>CONSTRUCTION/IMPROVEMENT OF MULTI-PURPOSE BUILDING AND CHILD DEVELOPMENT CENTER</p> <p>LOCATION: COLGANTE, APALIT, PAMPANGA</p>	<p><i>Deanne Caguiat</i> DEANNE THERESA D. CAGUIAT ENGINEER I</p>	<p><i>Bryan Q. Alvarado</i> BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD</p>	<p><i>Wilfredo A. Manaliti</i> WILFREDO A. MANALITI ASSISTANT PROVINCIAL ENGINEER</p>	<p><i>Olimpio M. Pangan</i> OLIMPIO M. PANGAN PROVINCIAL ENGINEER</p>	<p>HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: <i>Atty. Charlie G. Chua</i> ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR</p>	<p>AS SHOWN</p> <p>ARCHITECTURAL</p>	<p>A - 1</p> <p>01 / 22</p>

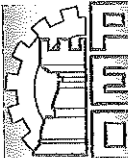


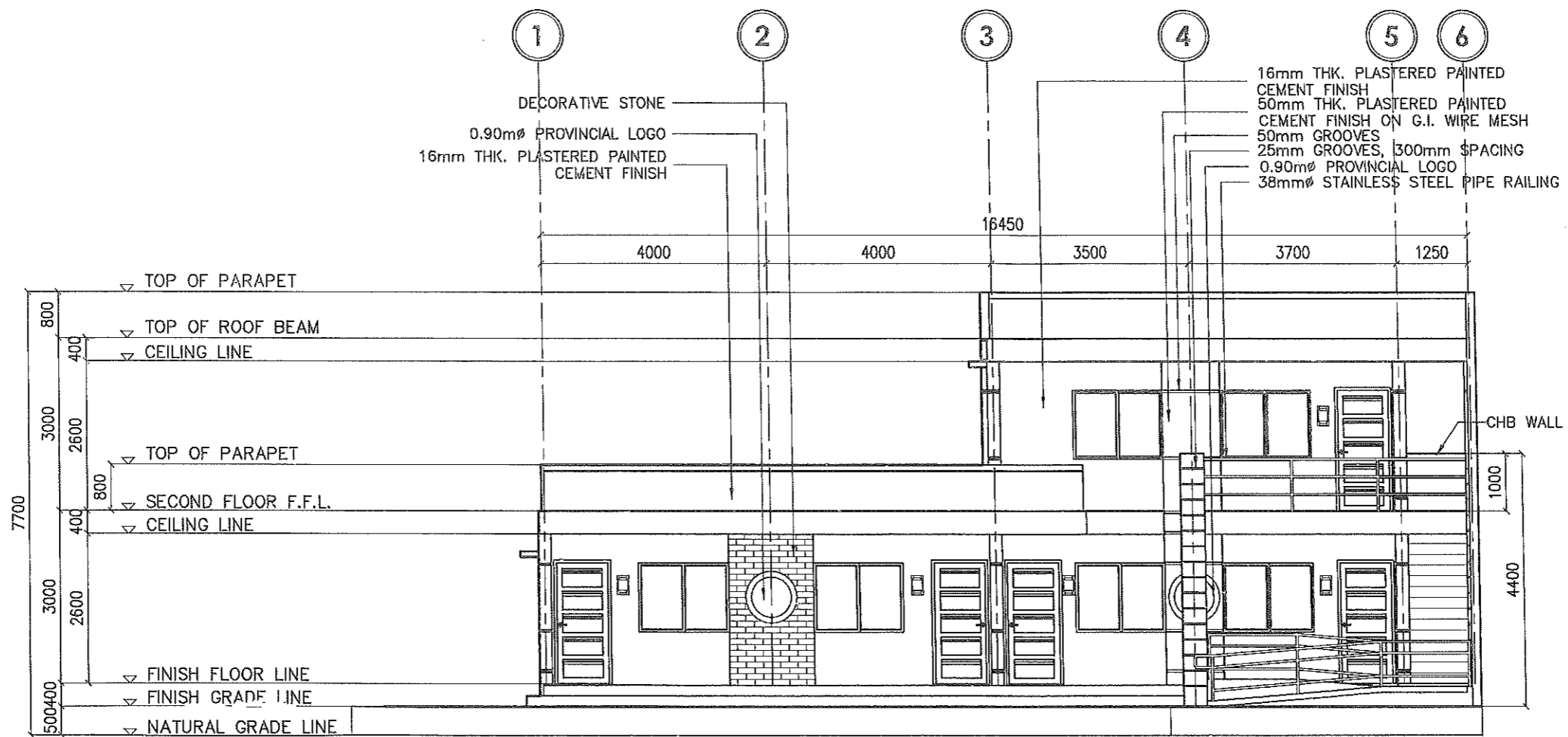
GROUND FLOOR PLAN
SCALE: 1:100 MTS.

	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION/IMPROVEMENT OF MULTI-PURPOSE BUILDING AND CHILD DEVELOPMENT CENTER LOCATION: COLGANTE, APALIT, PAMPANGA	DEANNE THERESA D. CAGUIAT ENGINEER I	BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN	A - 2 02 / 22



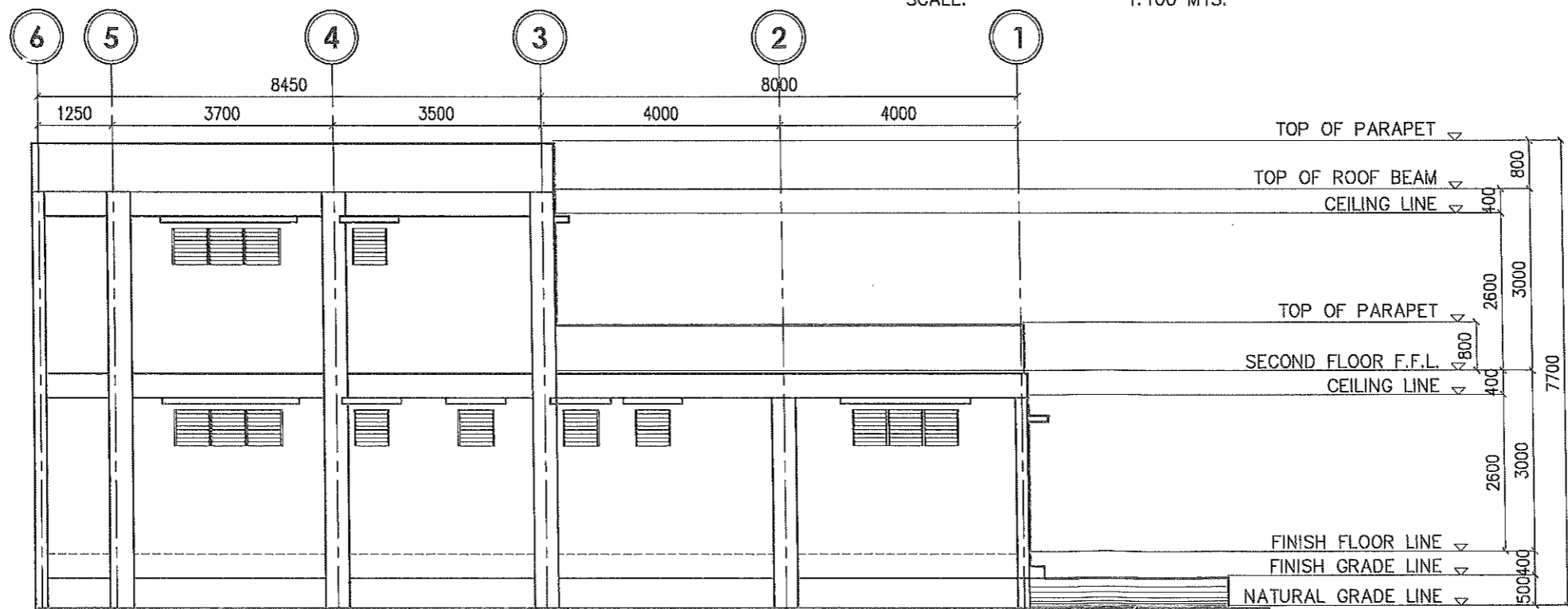
SECOND FLOOR PLAN
SCALE: 1:100 MTS.

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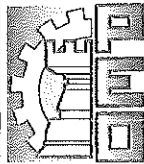
FRONT ELEVATION

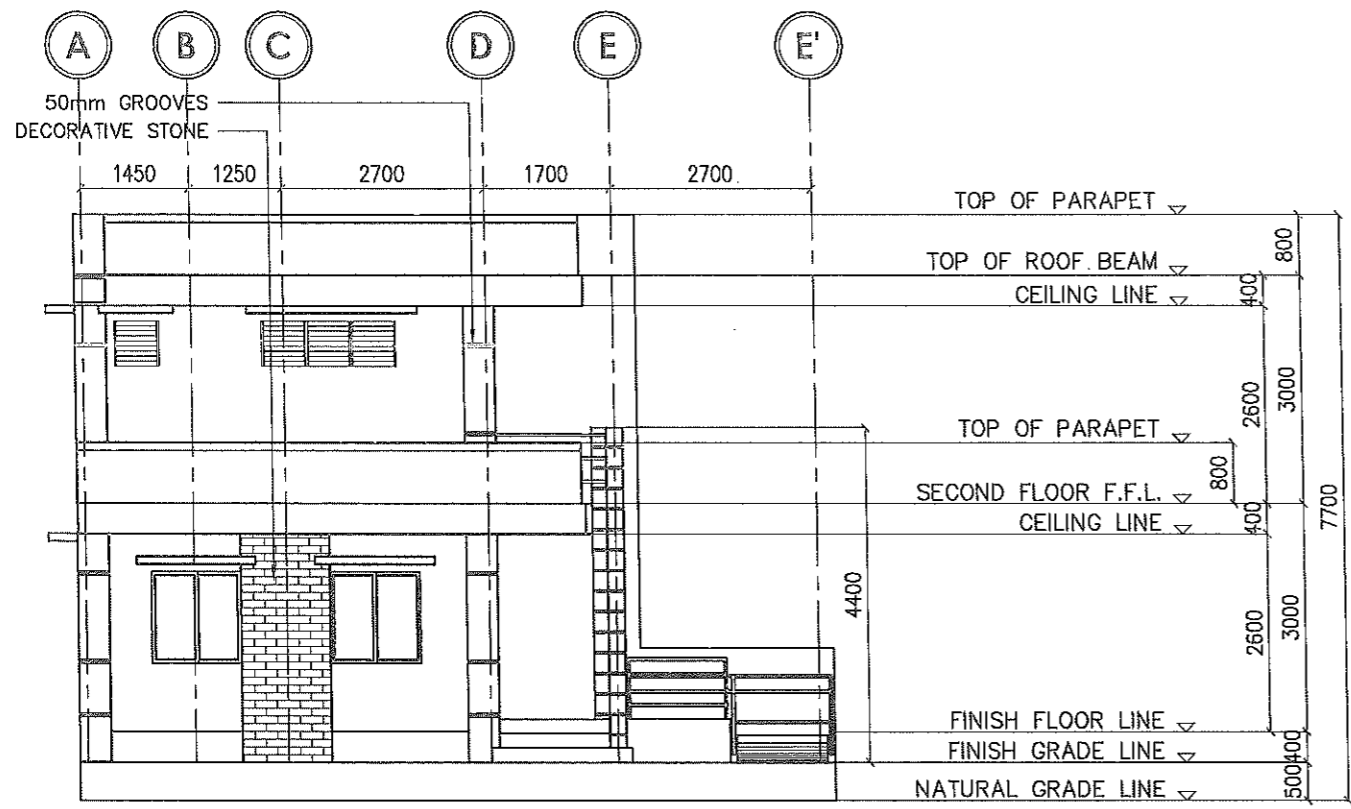
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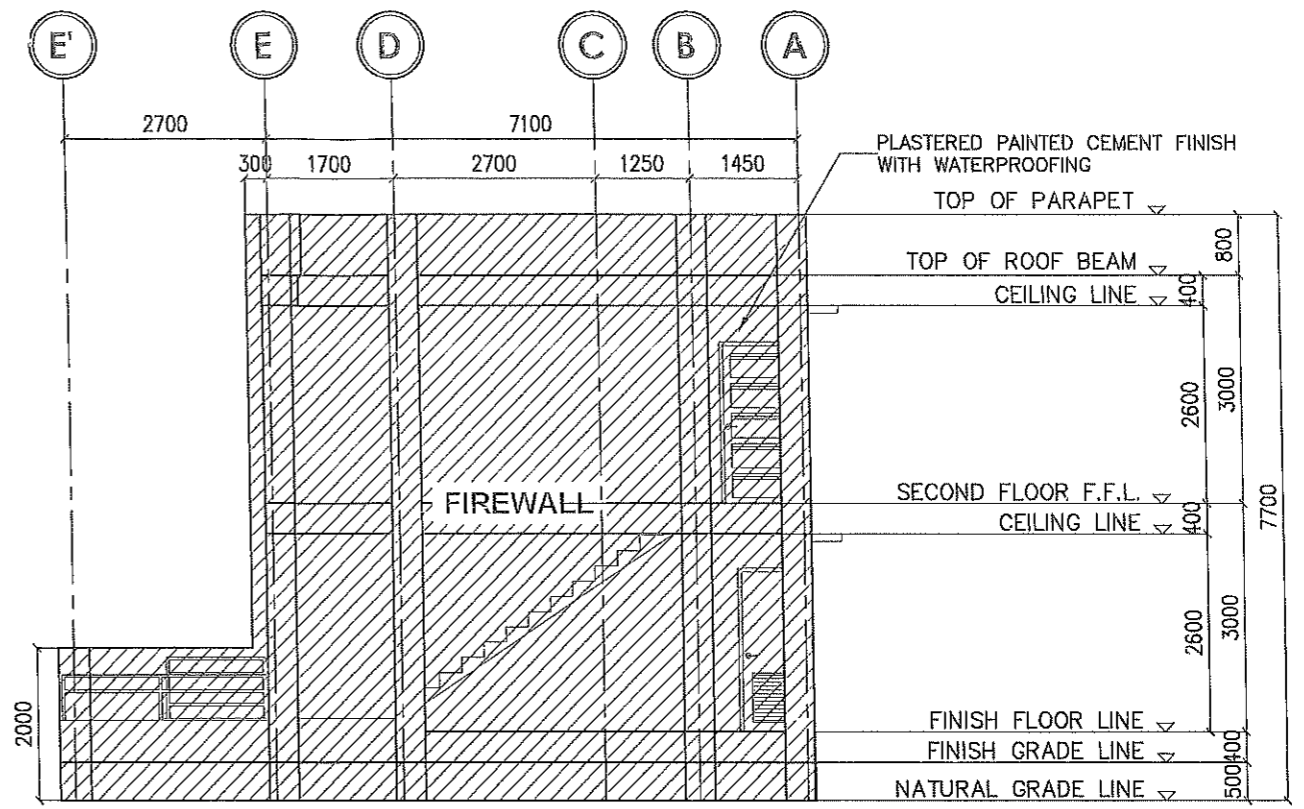
REAR ELEVATION

SCALE: 1:100 MTS.

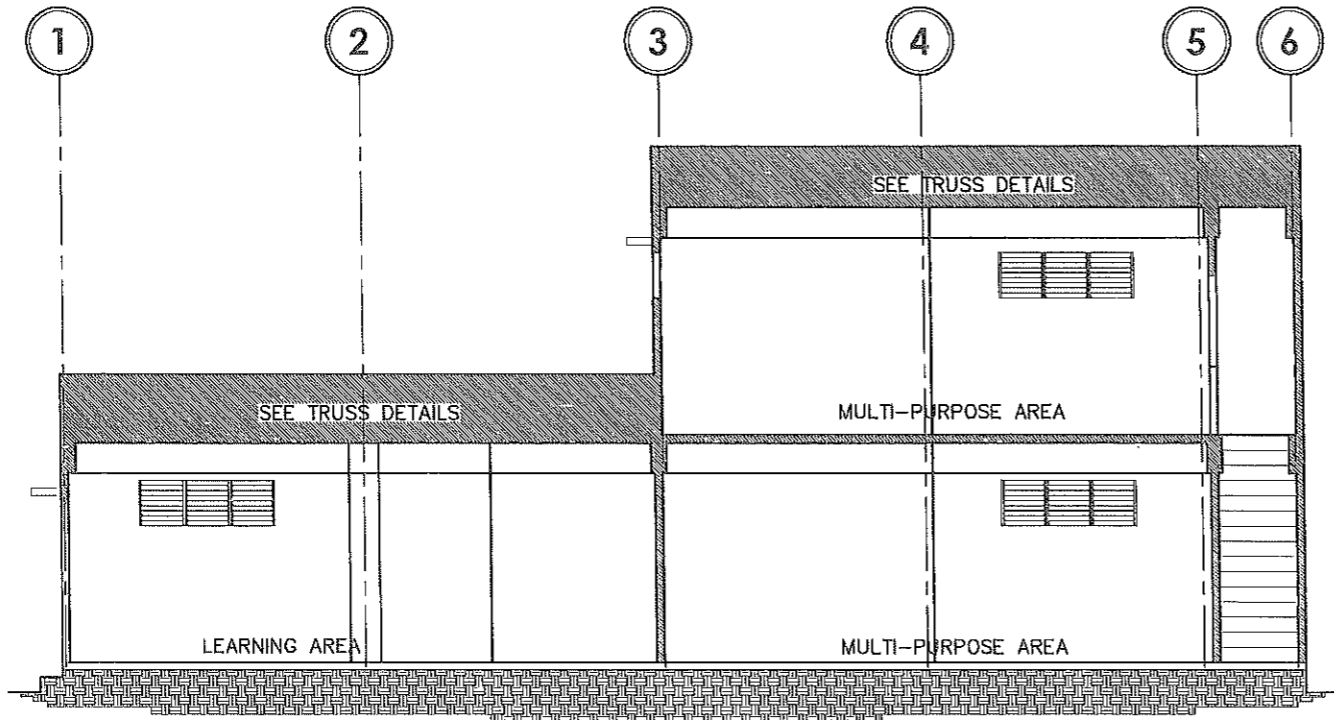
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION/IMPROVEMENT OF MULTI-PURPOSE BUILDING AND CHILD DEVELOPMENT CENTER LOCATION: COLGANTE, APALIT, PAMPANGA	DEANNE THERESA D. CAGUIAT ENGINEER I	BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	OLIMARIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN ARCHITECTURAL	A - 4 04 / 22



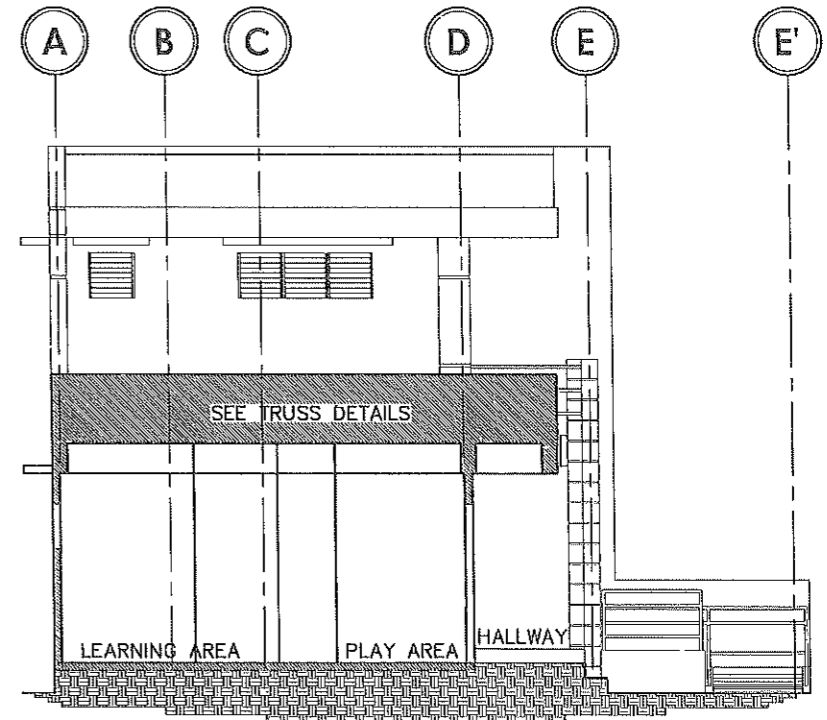
LEFT SIDE ELEVATION
SCALE: 1:100 MTS.



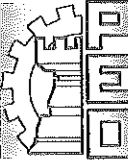
RIGHT SIDE ELEVATION
SCALE: 1:100 MTS.

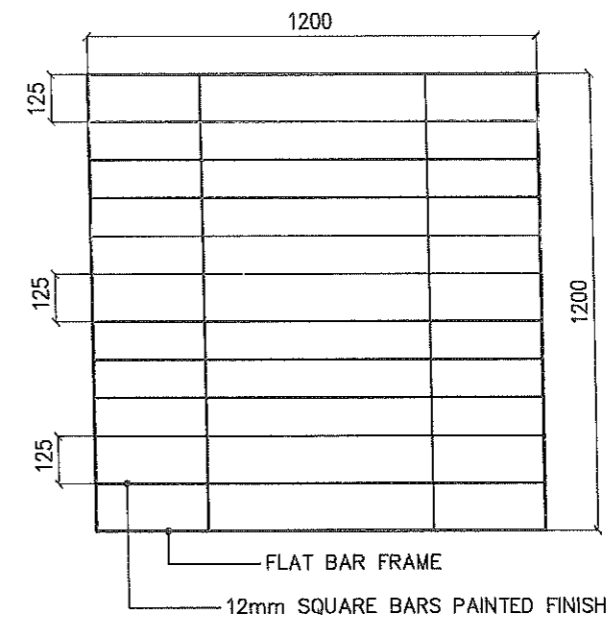
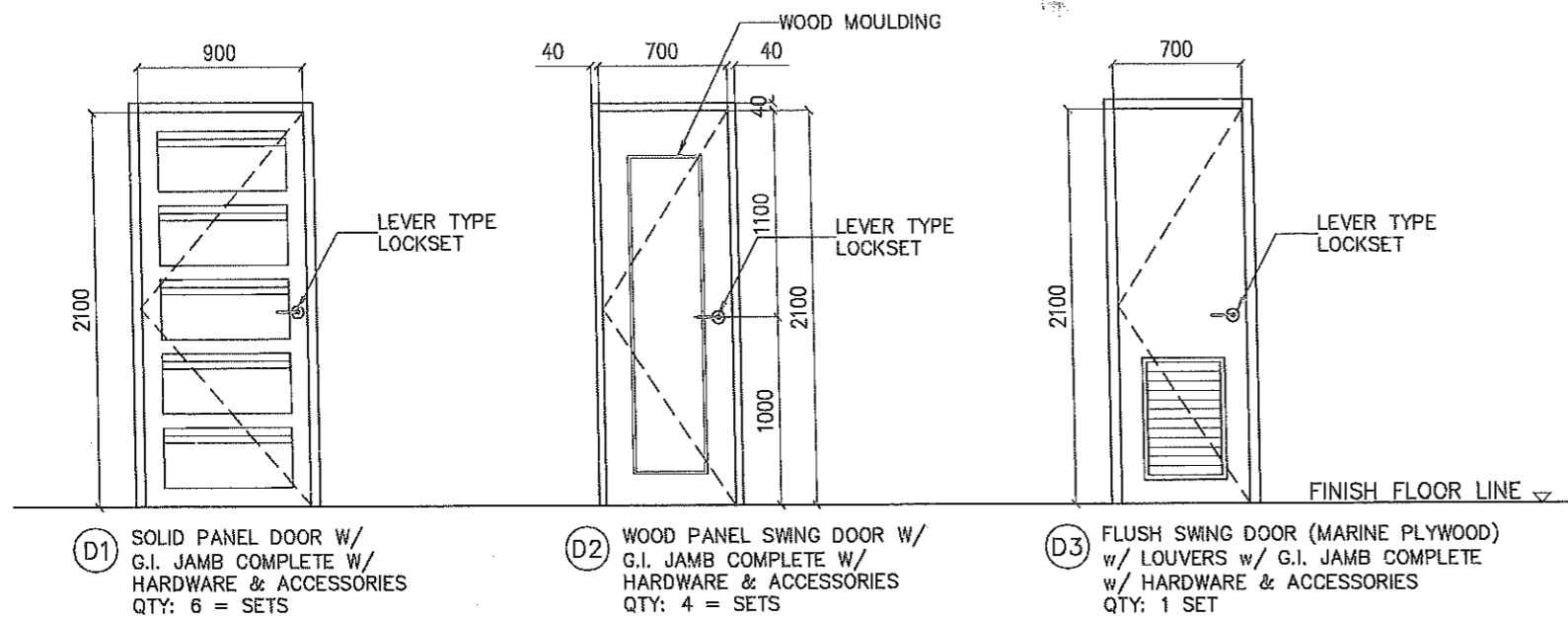


SECTION THRU "A-A"
SCALE: 1:100 MTS.

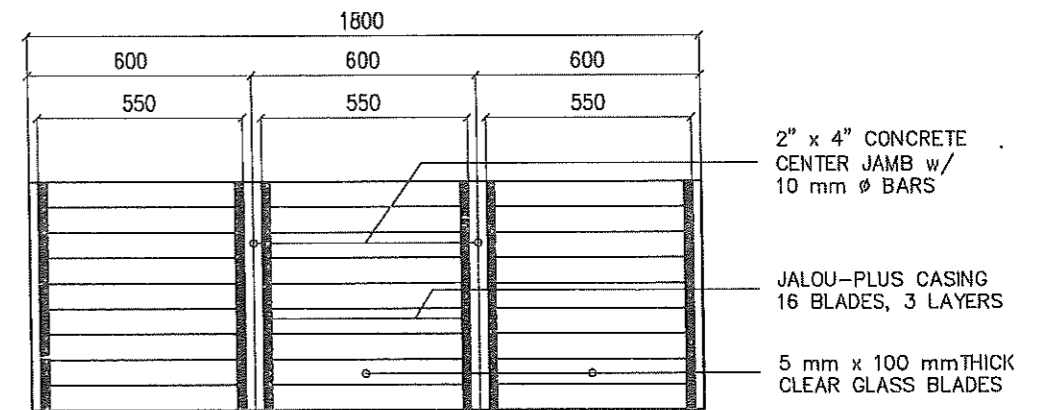
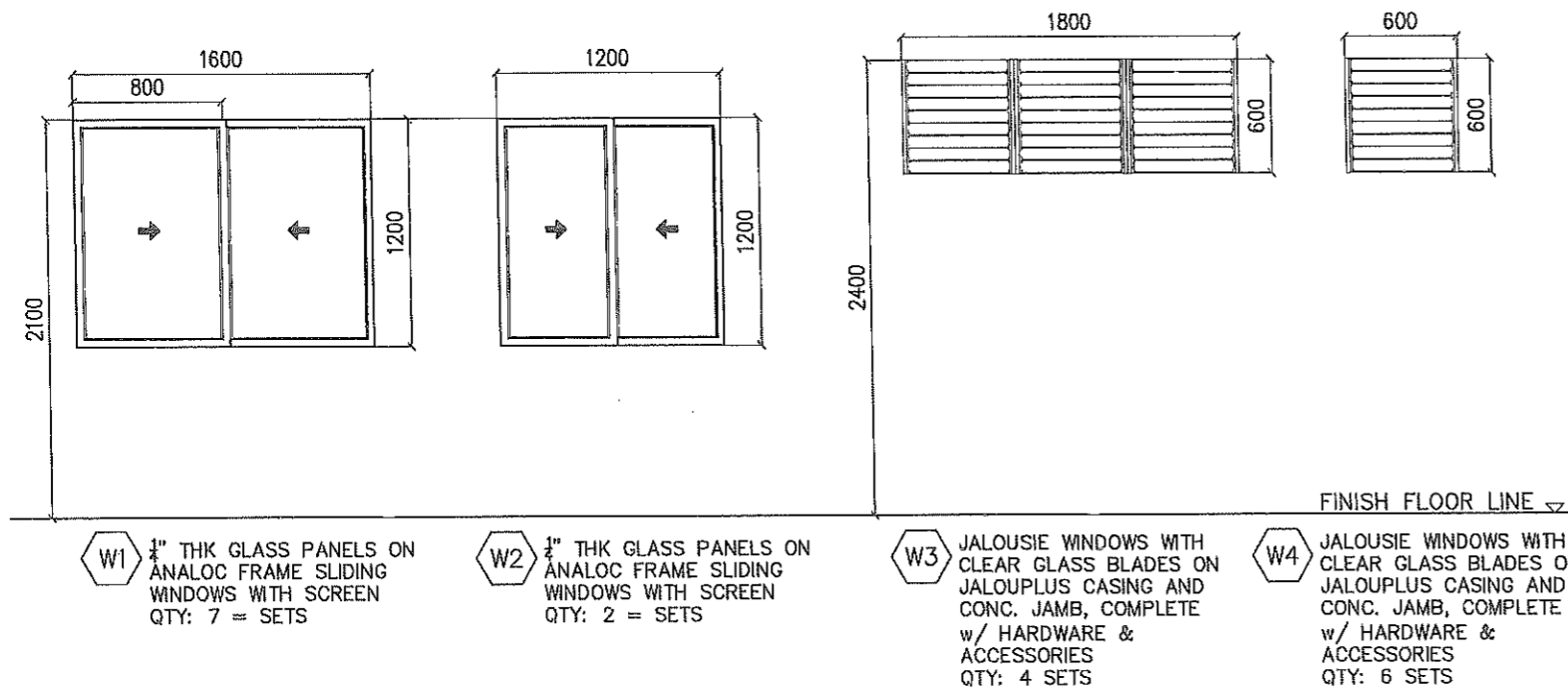


SECTION THRU "B-B"
SCALE: 1:100 MTS.

	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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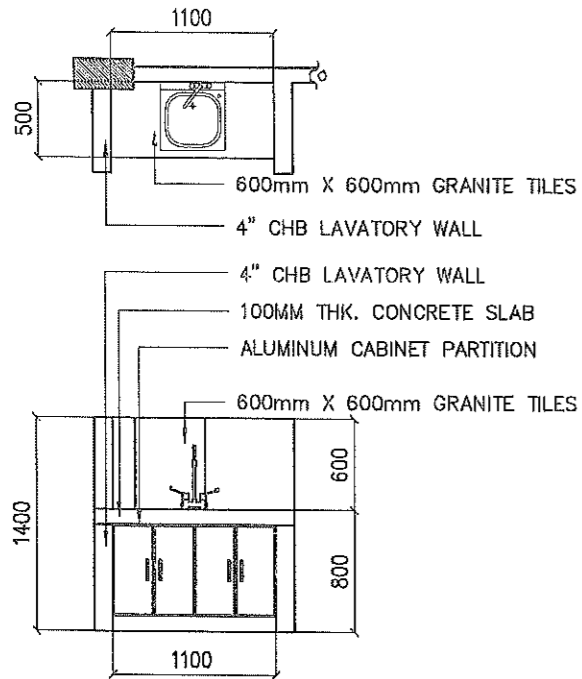
TYP. WINDOW GRILLES DETAIL
SCALE: 1:20 MTS.



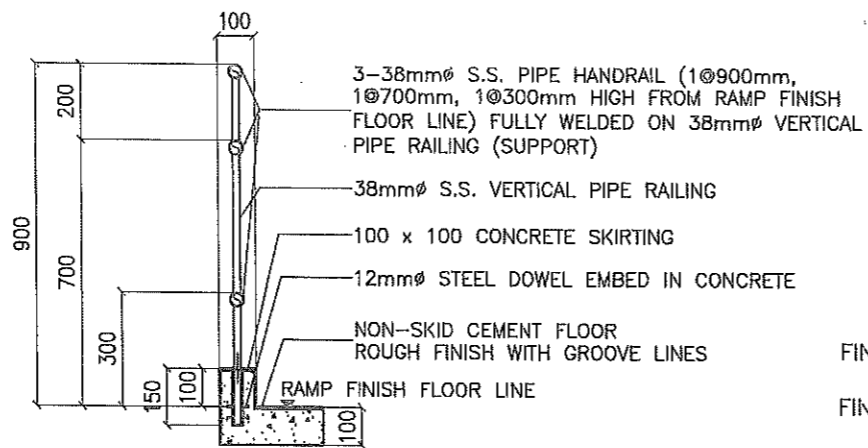
TYP. JALOUSIE WINDOW DETAIL
SCALE: 1:20 MTS.

SCHEDULE OF DOORS AND WINDOWS
SCALE: 1:40 MTS.

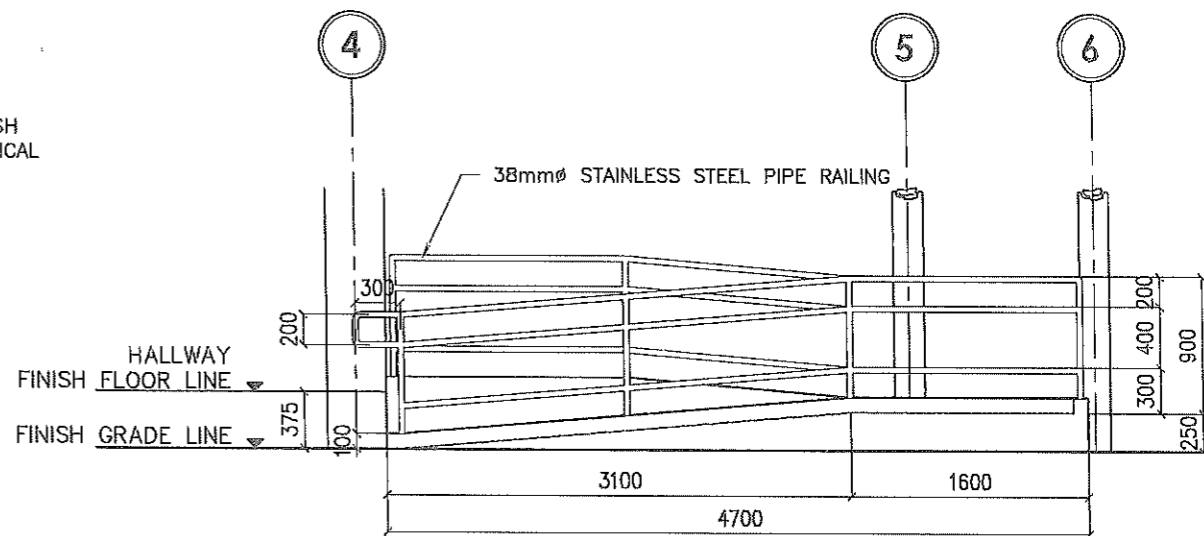
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION/IMPROVEMENT OF MULTI-PURPOSE BUILDING AND CHILD DEVELOPMENT CENTER LOCATION: COLGANTE, APALIT, PAMPANGA	DEANNE THERESA D. CAGUIAT ENGINEER I	BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN	A - 6 06 / 22



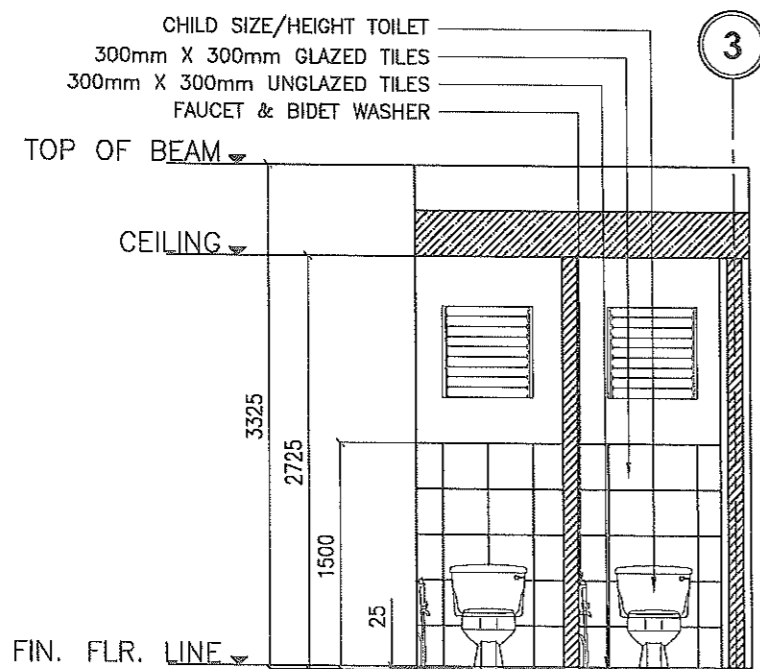
MULTI-PURPOSE BUILDING
DETAIL OF LAVATORY COUNTER
SCALE: 1:50 MTS.



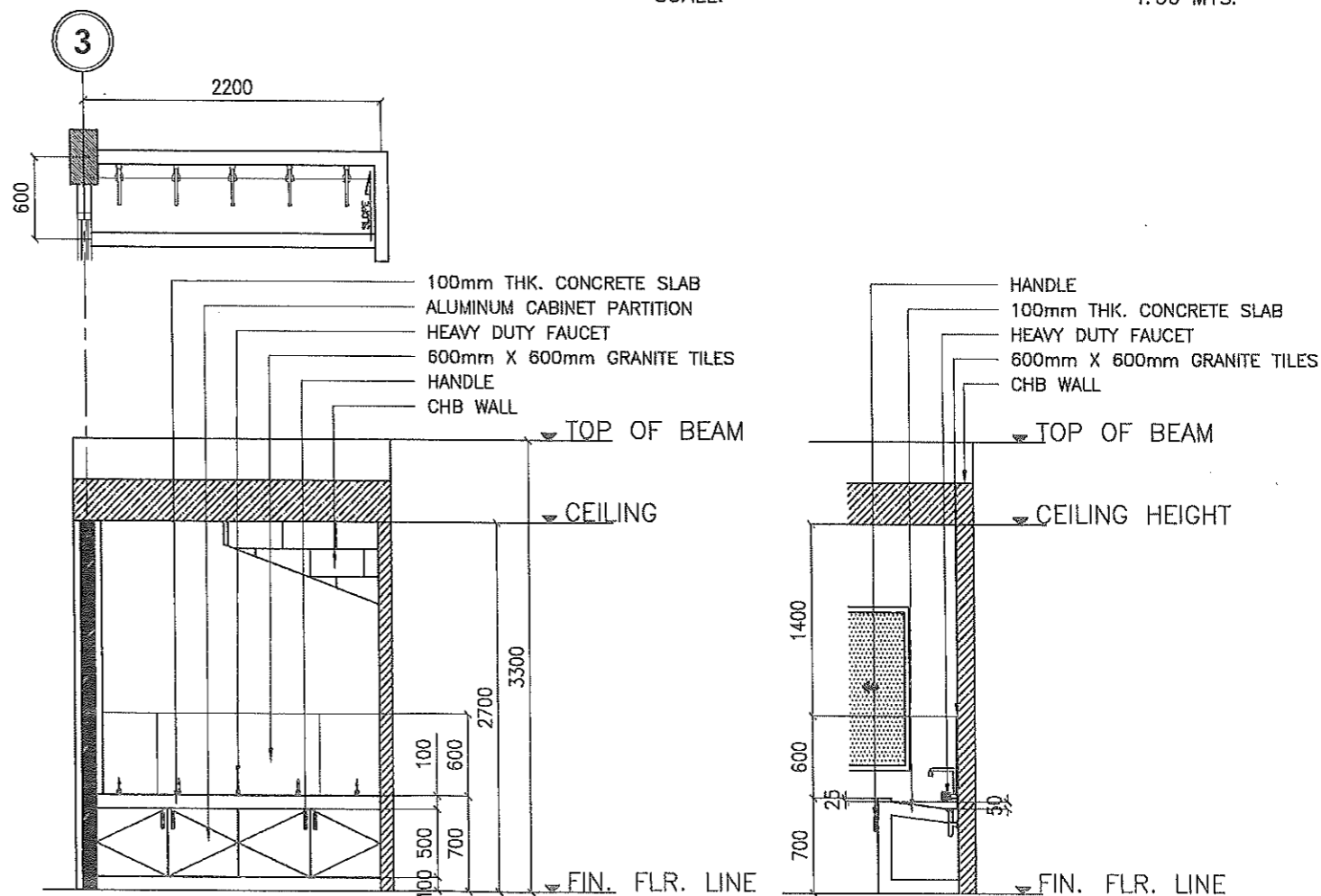
DETAIL SECTION OF RAILINGS
SCALE: 1:20 MTS.



DETAIL ELEVATION OF RAMPS
SCALE: 1:50 MTS.

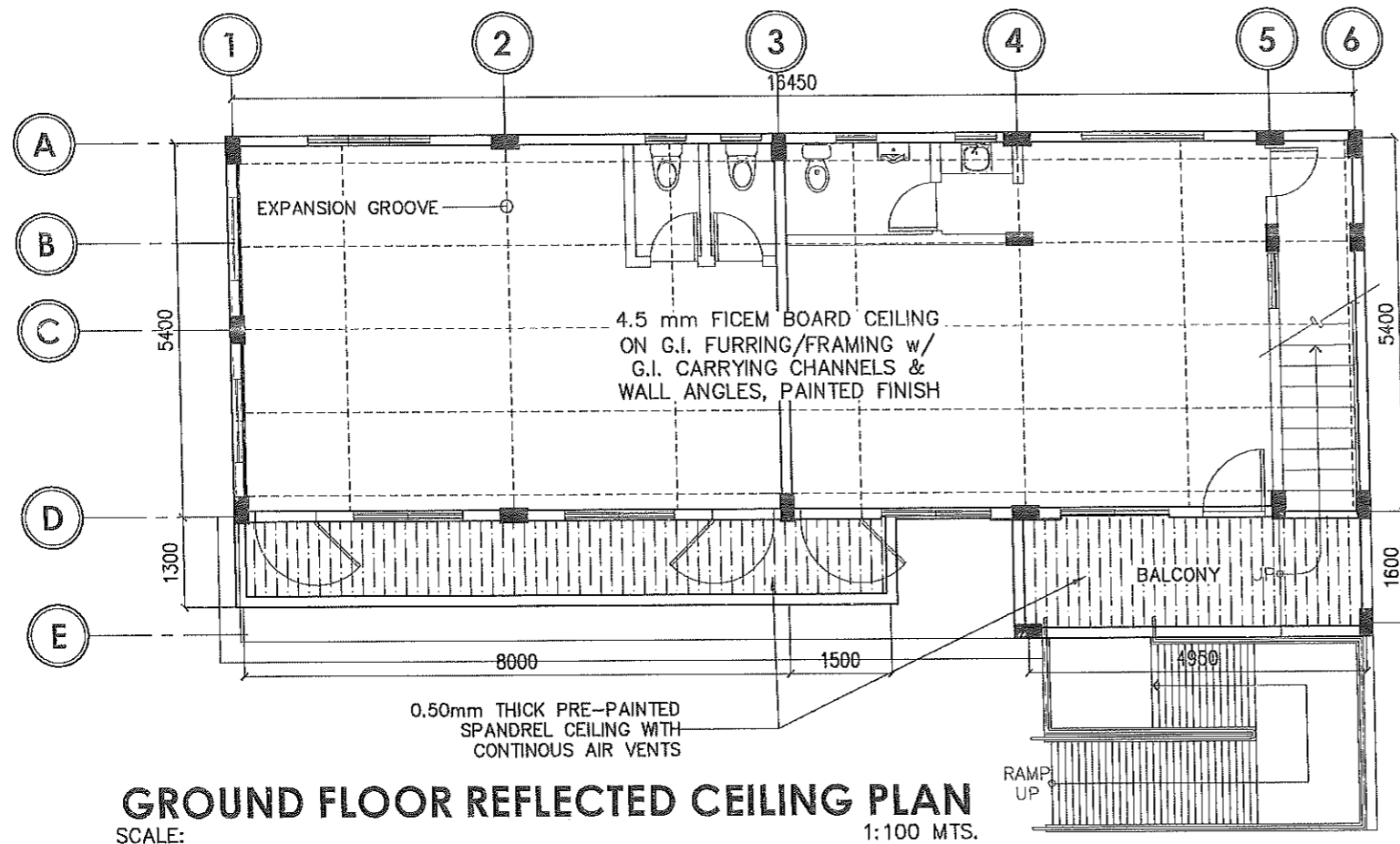


CHILD DEVELOPMENT CENTER
ELEVATION OF HE & SHE TOILET
SCALE: 1:50 MTS.

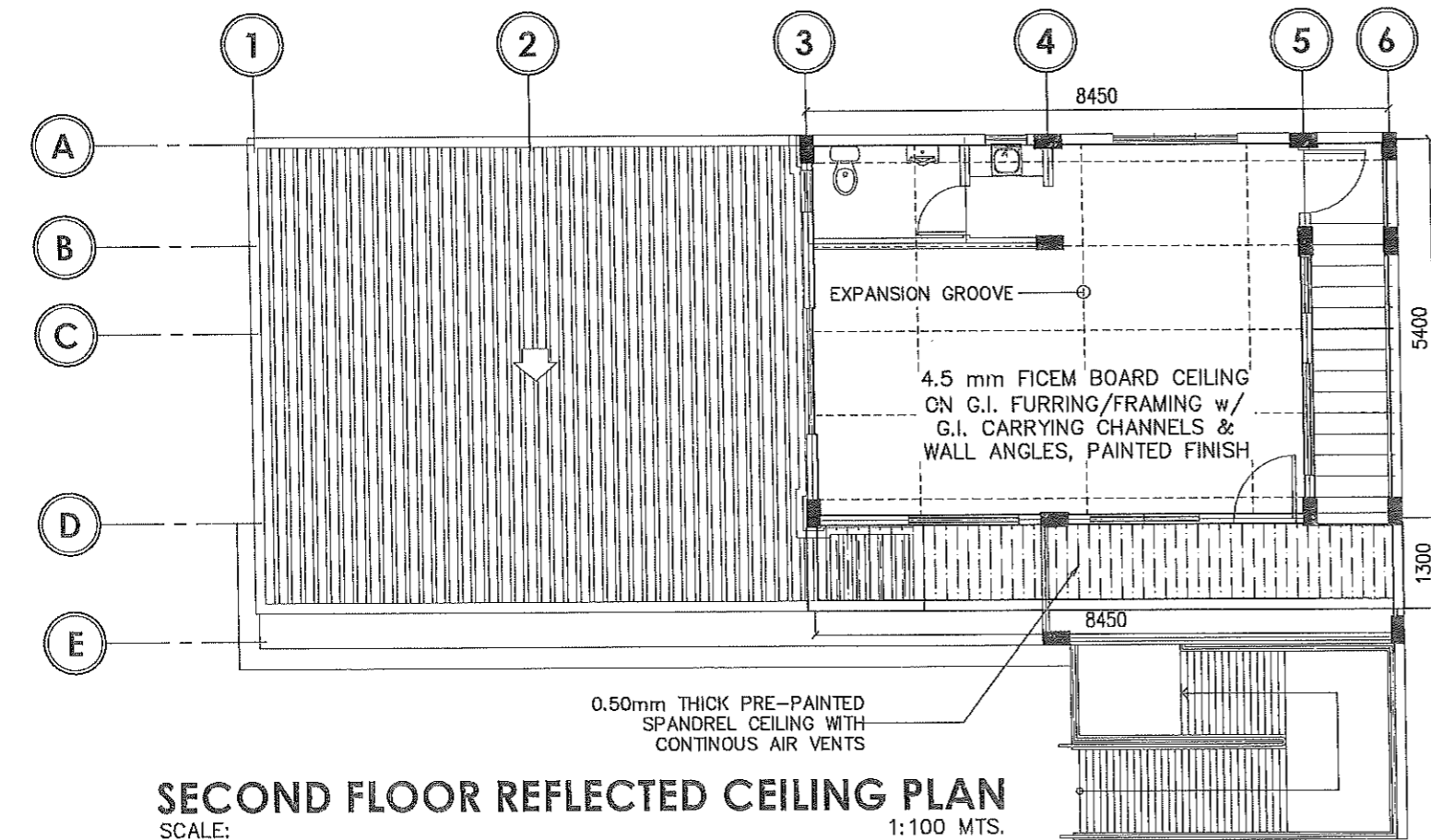


CHILD DEVELOPMENT CENTER
HAND WASHING AREA DETAILS
SCALE: 1:50 MTS.

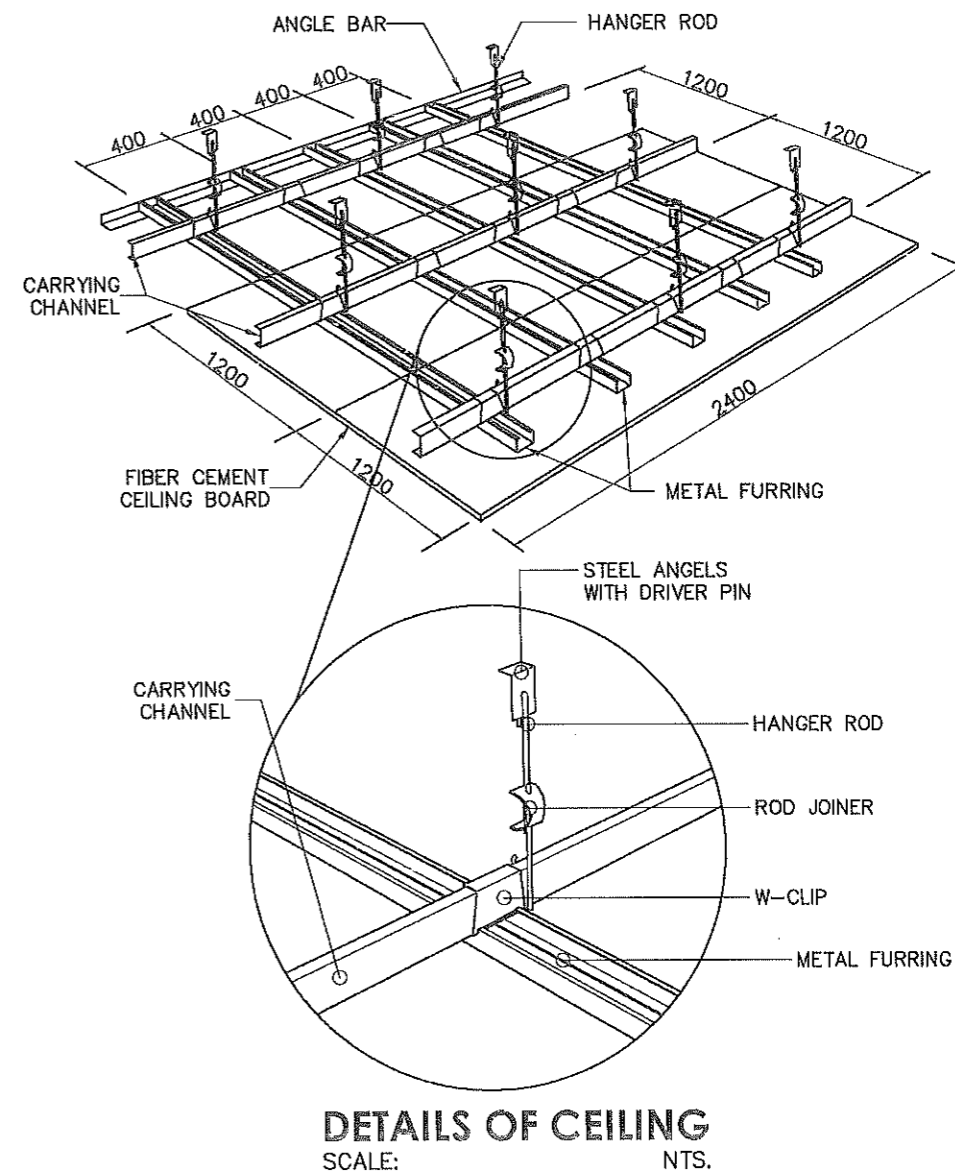
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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GROUND FLOOR REFLECTED CEILING PLAN
SCALE: 1:100 MTS.

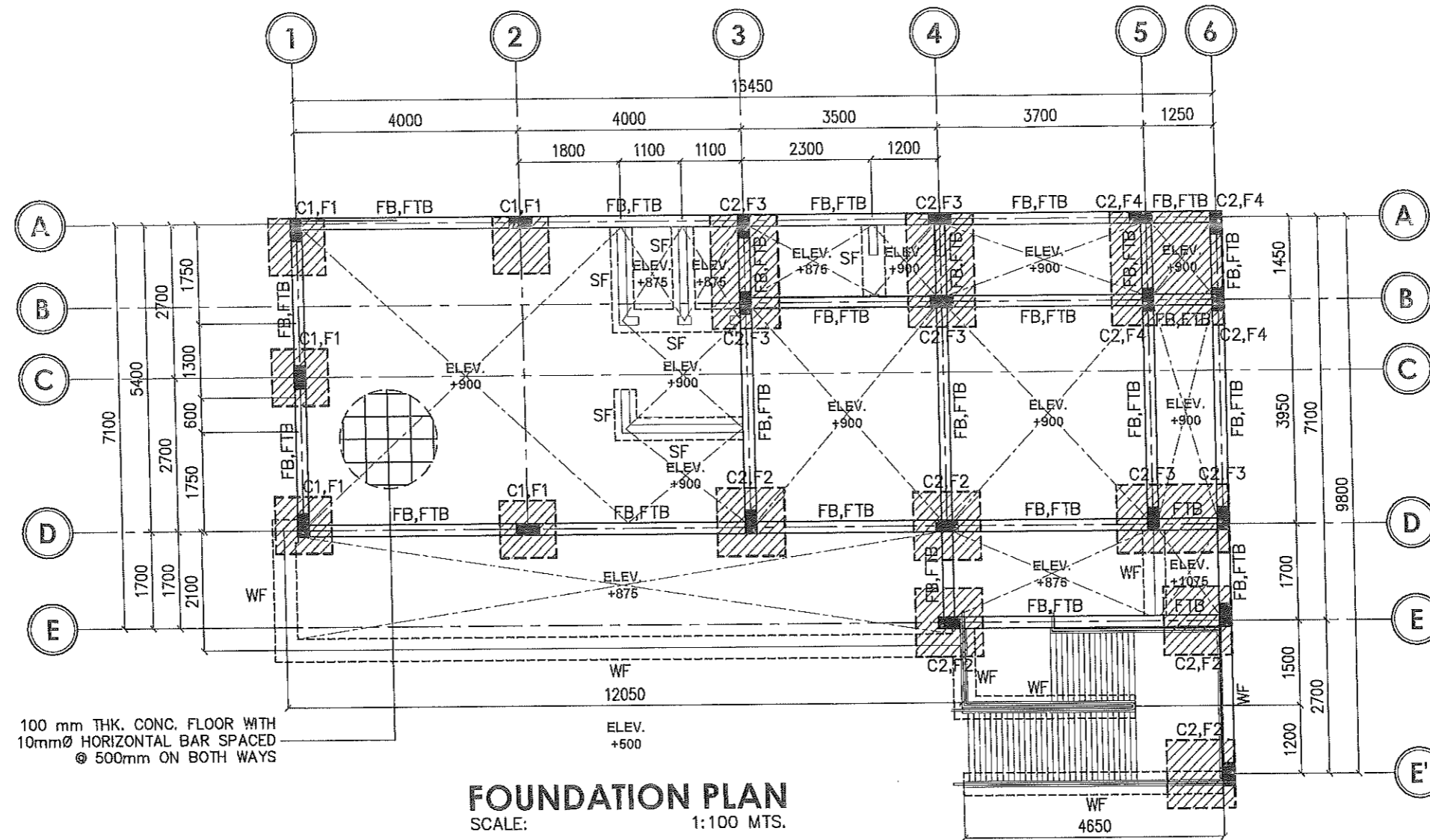


SECOND FLOOR REFLECTED CEILING PLAN
SCALE: 1:100 MTS.



DETAILS OF CEILING
SCALE: NTS.

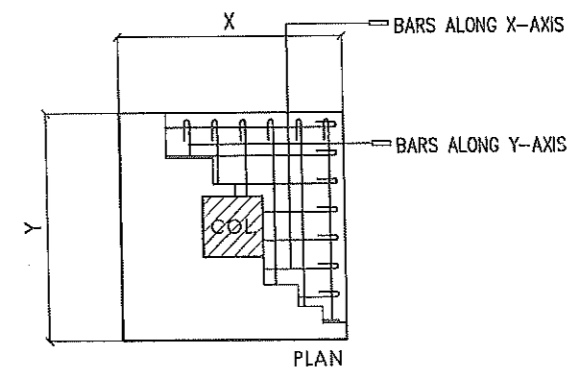
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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	LOCATION: COLGANTE, APALIT, PAMPANGA							ARCHITECTURAL	08 / 22



FOUNDATION PLAN
SCALE: 1:100 MTS.

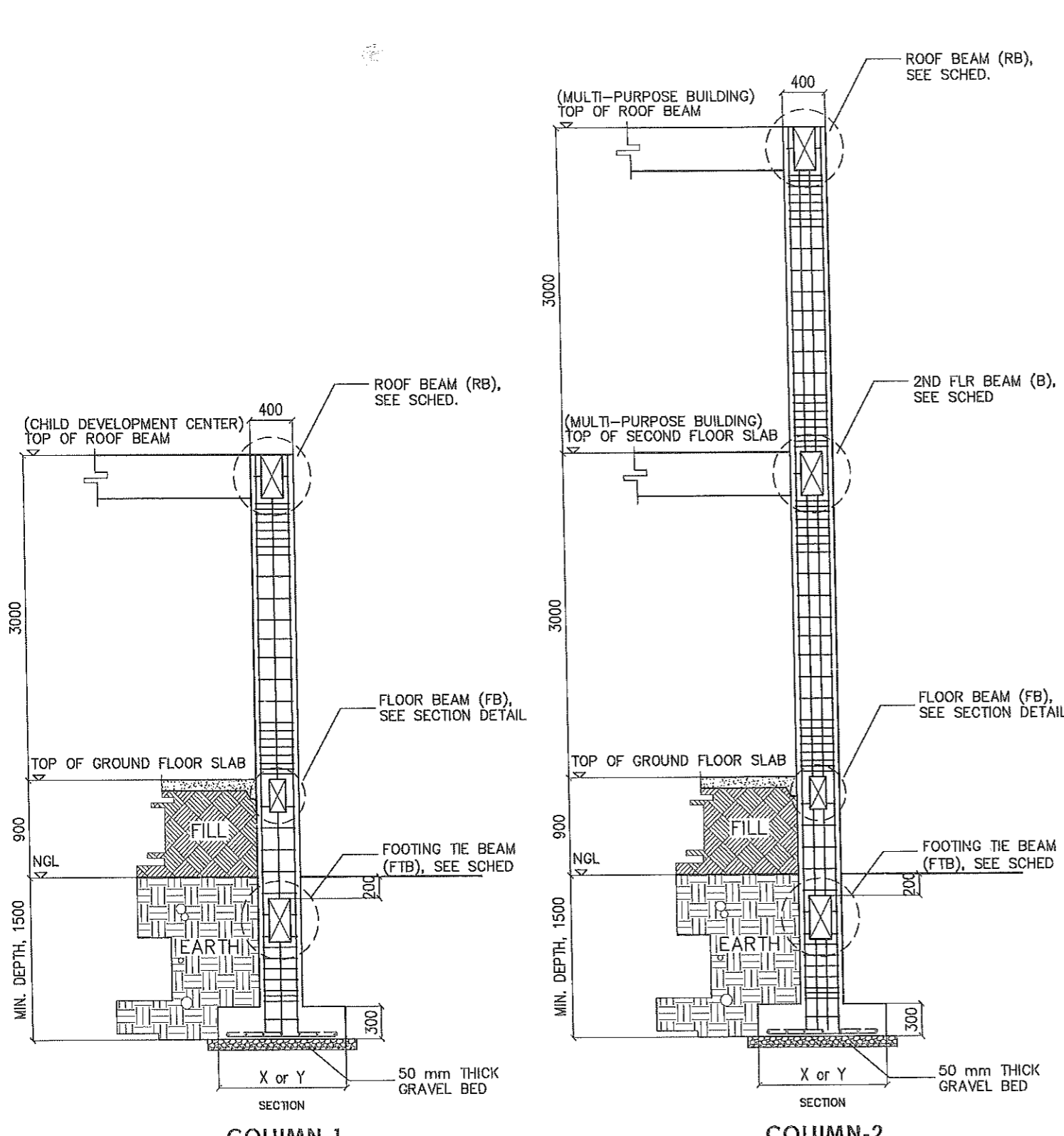
SCHEDULE OF COLUMNS	
C1 = 5 UNITS	C2 = 15 UNITS
<p>MAIN BARS : 6 - 16 mm Ø TIE BARS : 10 mm Ø 3 @ 50 mm, 5 @ 100 mm, & REST @ 200 mm</p>	<p>MAIN BARS : 8 - 16 mm Ø TIE BARS : 10 mm Ø 3 @ 50 mm, 5 @ 100 mm, & REST @ 200 mm</p>

SCHEDULE OF FOOTINGS							
FOOTING MARK	DIMENSION(mm)			DEPTH	REINFORCEMENT (GR.40)		
	x	y	z		BARS Ø (mm)	NUMBER ALONG x	NUMBER ALONG y
F1	1000	1000	300	1500	16	6	6
F2	1200	1200	300	1500	16	7	7
F3	1200	2000	300	1500	16	7	11
F4	2000	2000	300	1500	16	11	11

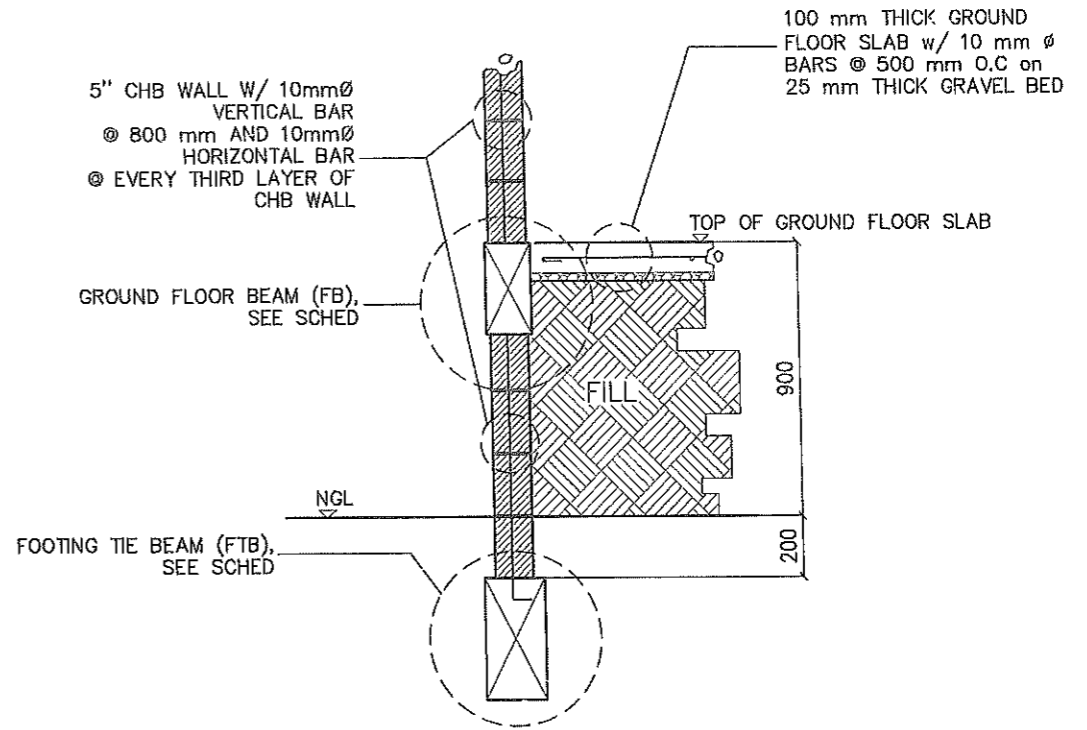


COL. FTG. DETAIL
SCALE: NTS.

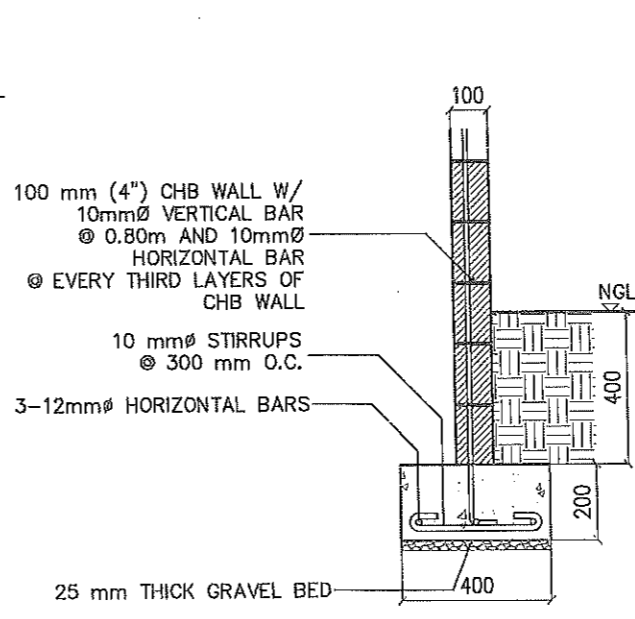
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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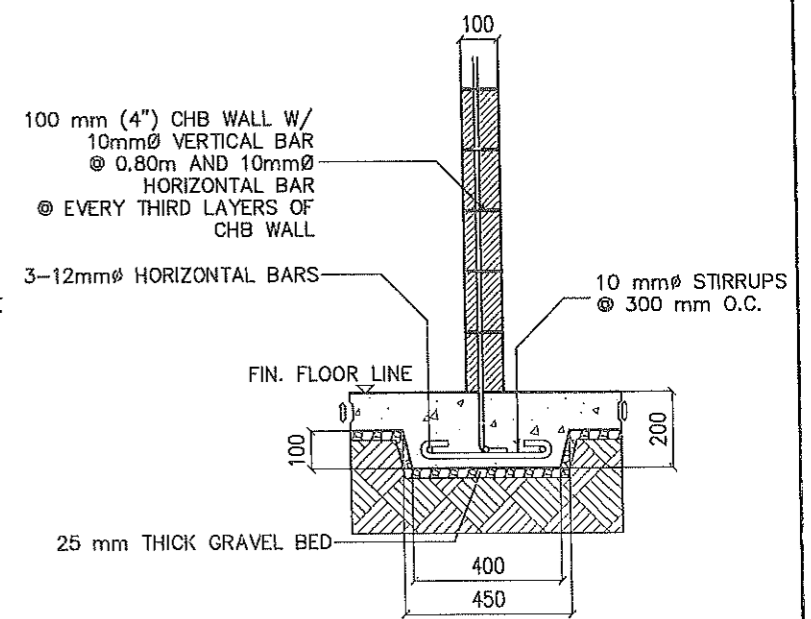
FULL BAY SECTION
SCALE: 1:50 MTS.



SECTION DETAIL OF GROUND FLOOR SLAB
SCALE: 1:25 MTS.



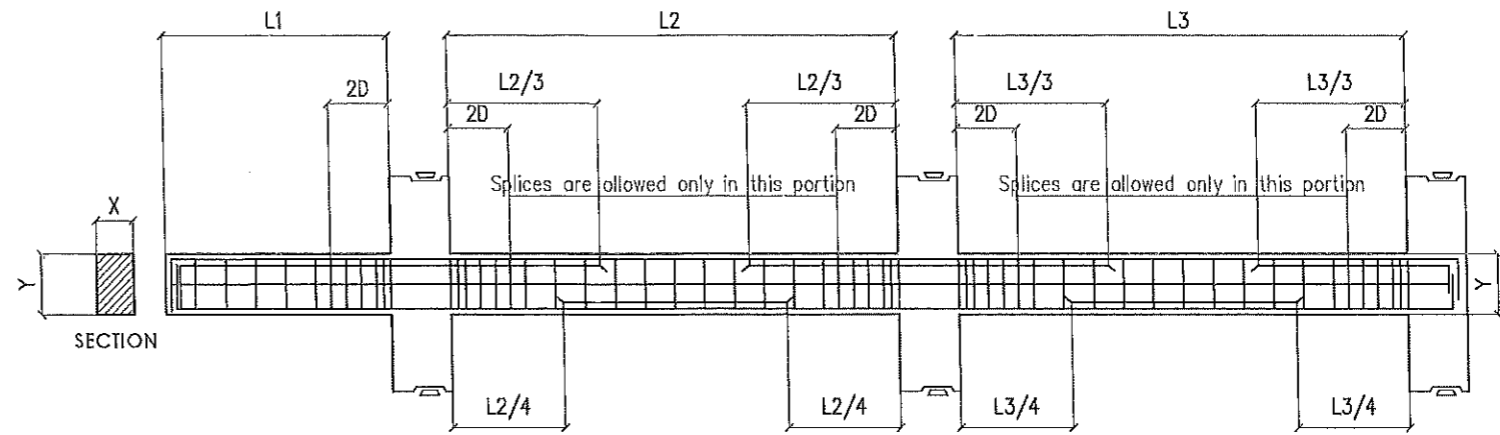
WALL FOOTING DETAIL
SCALE: 1:20 MTS.



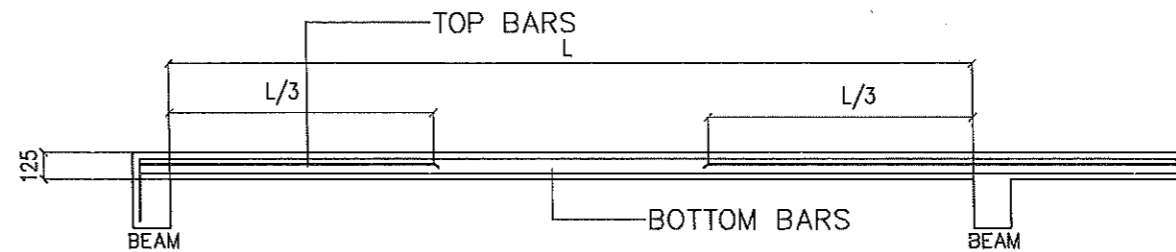
SLAB FOOTING DETAIL
SCALE: 1:20 MTS.

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	LOCATION: COLGANTE, APALIT, PAMPANGA							STRUCTURAL	10 / 22

SCHEDULE OF BEAMS									
BEAM MARK	SIZE		MAIN REINFORCEMENTS (GR.40)						STIRRUPS
	X(mm)	Y(mm)	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		
			TOP BAR BOT. BAR	SECTION	TOP BAR BOT. BAR	SECTION	TOP BAR BOT. BAR	SECTION	
B-1	200	400	3-16mm Ø 2-16mm Ø		2-16mm Ø		3-16mm Ø 2-16mm Ø		2 @ 50 mm 4 @ 100 mm & REST @ 200 mm
B-2	200	400	2-16mm Ø 2-16mm Ø		2-16mm Ø		2-16mm Ø 2-16mm Ø		2 @ 50 mm 4 @ 100 mm & REST @ 200 mm
B-3	200	400	3-16mm Ø 2-16mm Ø		2-16mm Ø		3-16mm Ø		2 @ 50 mm 4 @ 100 mm & REST @ 200 mm
FTB	200	400	2-16mm Ø 2-16mm Ø		2-16mm Ø		2-16mm Ø		2 @ 50 mm 4 @ 100 mm & REST @ 200 mm
FB	150	300	2-12mm Ø 2-12mm Ø		2-12mm Ø		2-12mm Ø		2 @ 50 mm 4 @ 100 mm & REST @ 200 mm
RB1	200	400	2-12mm Ø 2-12mm Ø		2-12mm Ø		2-12mm Ø		2 @ 50 mm 4 @ 100 mm & REST @ 200 mm
RB2	200	400	2-12mm Ø 2-12mm Ø		2-12mm Ø		2-12mm Ø		2 @ 50 mm 4 @ 100 mm & REST @ 200 mm
CB-1	200	400	3-16mm Ø 2-16mm Ø 2-16mm Ø		3-16mm Ø 2-16mm Ø				2 @ 50 mm 4 @ 100 mm & REST @ 200 mm



TYPICAL BEAM ELEVATION
SCALE: NTS.

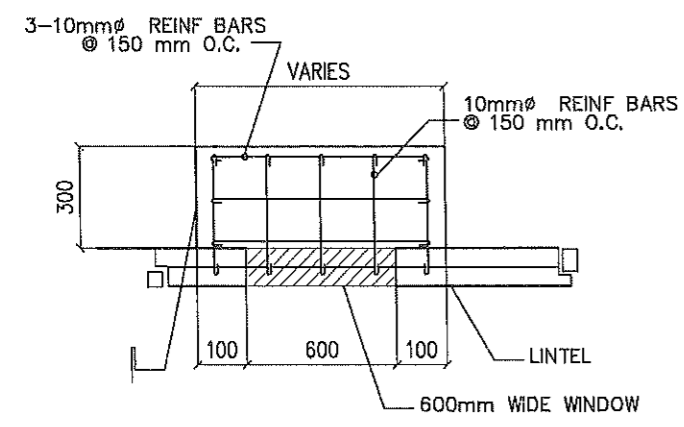
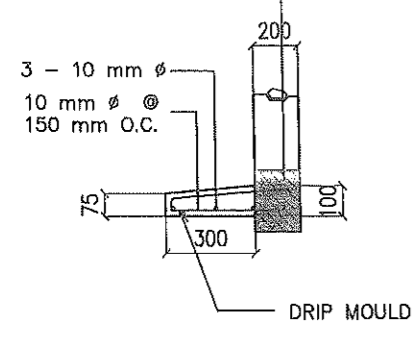


TYPICAL SLAB DETAIL
SCALE: NTS.

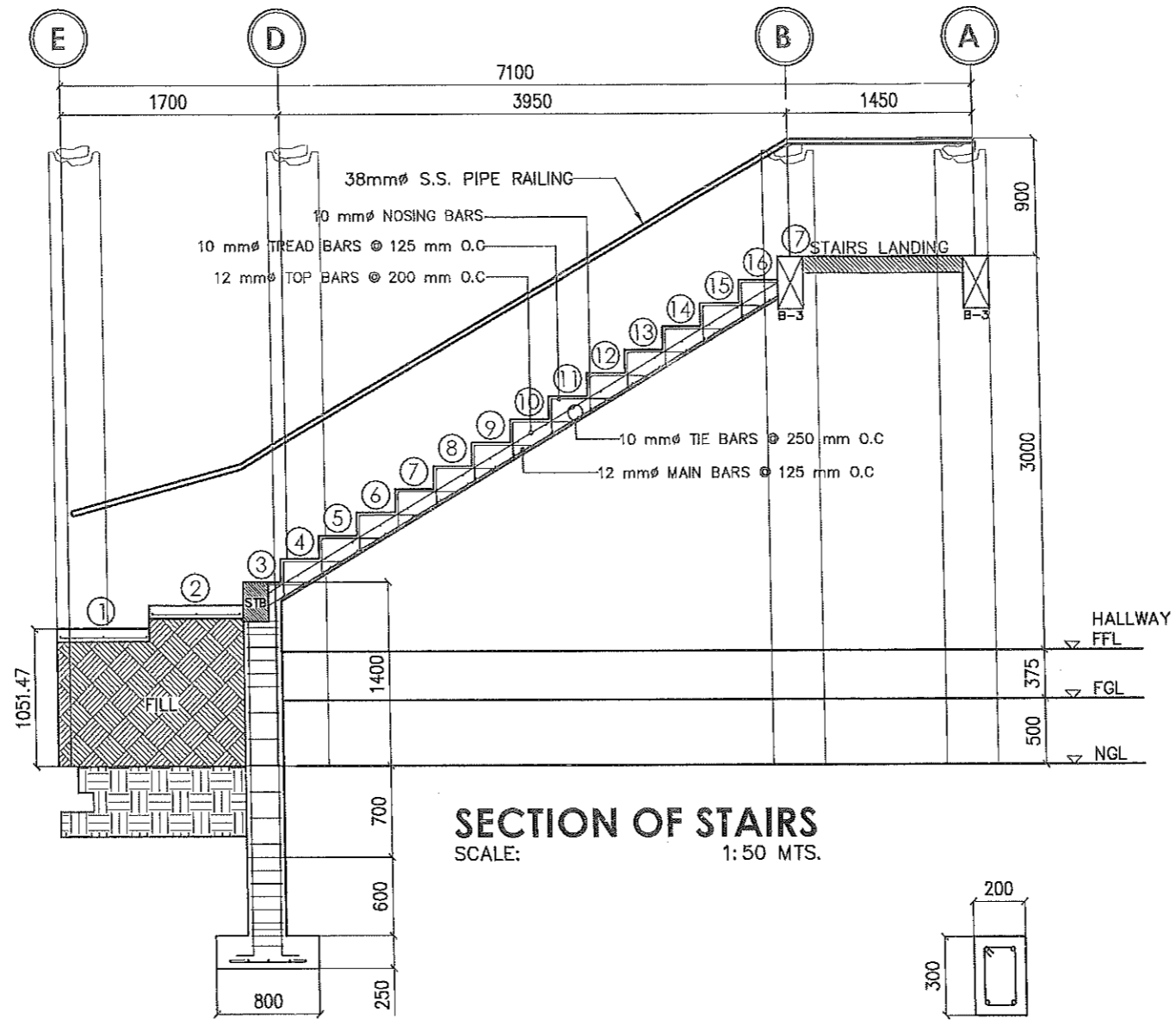
SCHEDULE OF SLABS																	
FLOOR LEVEL	SLAB MARK	THICKNESS in mm	REBAR SPACING ALONG SHORT DIRECTION in mm						REBAR SPACING ALONG LONG DIRECTION in mm						REMARKS		
			REBAR SIZE	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		REBAR SIZE	LEFT SUPPORT		MIDSPAN			RIGHT SUPPORT	
				TOP	BOT.	TOP	BOT.	TOP	BOT.		TOP	BOT.	TOP	BOT.		TOP	BOT.
SECOND LEVEL	S2	125	12 Ø	200	250	-	250	200	250	12 Ø	250	250	-	250	250	250	2-WAY
	S1	125	12 Ø	250	250	-	250	250	250	12 Ø	250	250	-	250	250	250	1-WAY

	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION/IMPROVEMENT OF MULTI-PURPOSE BUILDING AND CHILD DEVELOPMENT CENTER LOCATION: COLGANTE, APALIT, PAMPANGA	DEANNE THERESE D. ACQUIAT ENGINEER I	BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN	S - 3 11 / 22

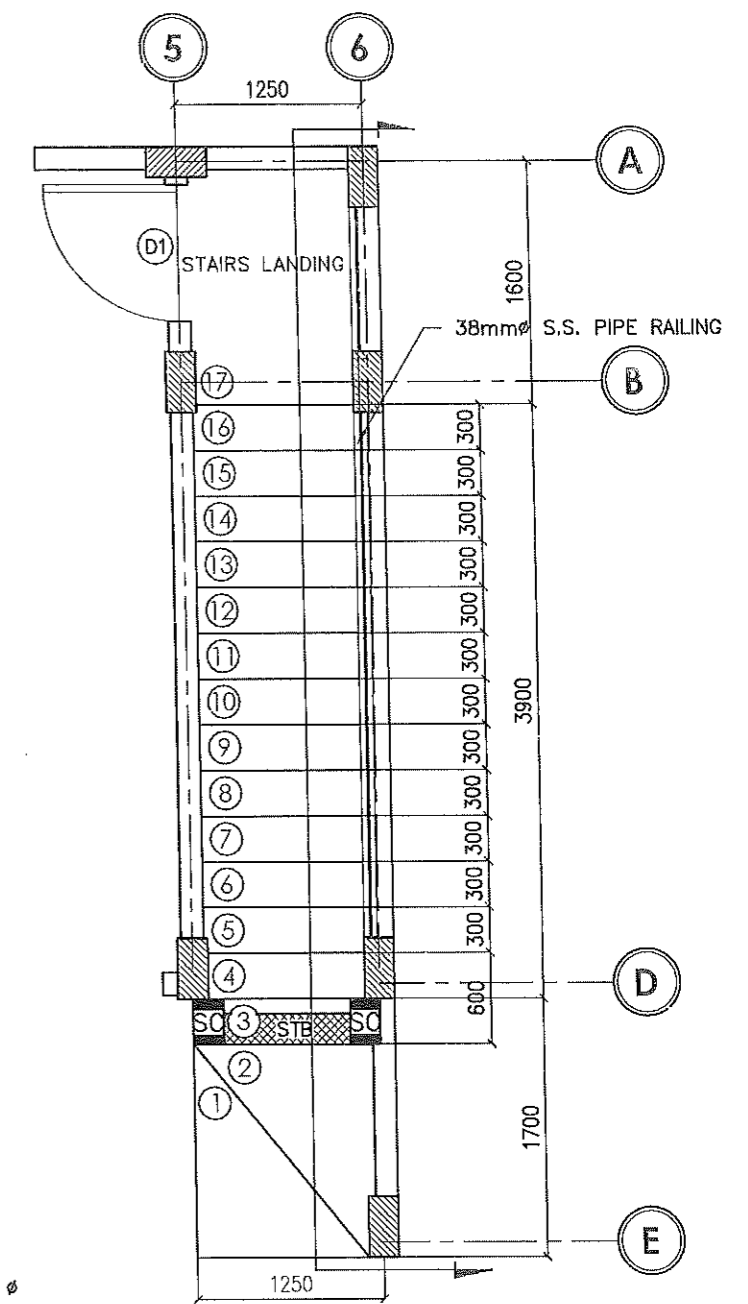
LINTEL BEAM 4 - 12 mm ϕ
w/ 10 mm ϕ STIRRUPS @
0.20 m O.C.



CANOPY DETAIL
SCALE: 1:20 MTS.

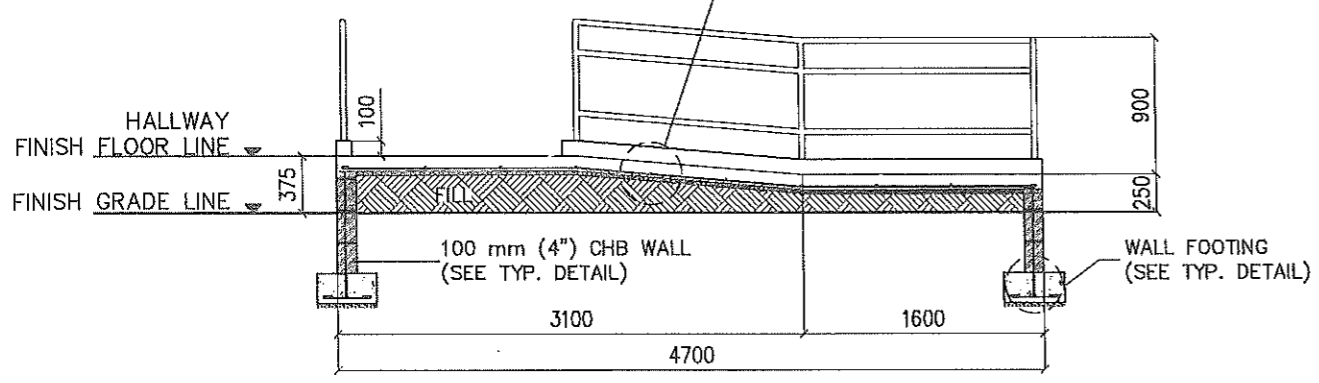


SECTION OF STAIRS
SCALE: 1:50 MTS.



PLAN OF STAIRS
SCALE: 1:50 MTS.

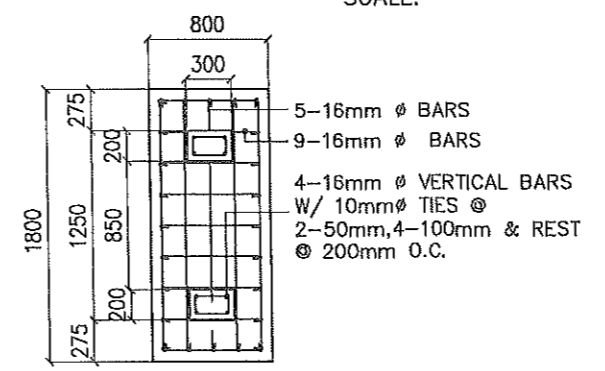
100 mm THICK CONCRETE SLAB w/
GROOVE REINFORCED w/ 10 mm ϕ
BARS @ 500 mm O.C. on
25 mm THICK GRAVEL BED



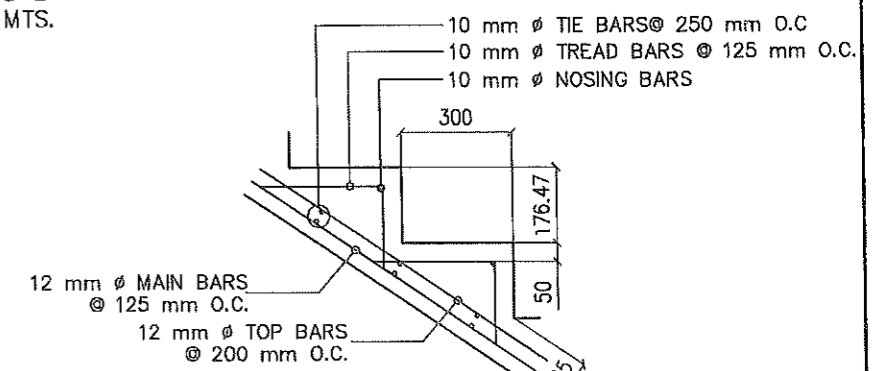
DETAIL ELEVATION OF RAMPS
SCALE: 1:50 MTS.

4 - 16 mm ϕ MAIN BARS w/ 10 mm ϕ
STIRRUPS/LATERAL TIES @ 2 - 50 mm,
4 - 100 mm & REST @ 200 mm O.C.

DETAIL OF STB/SC
SCALE: 1:25 MTS.

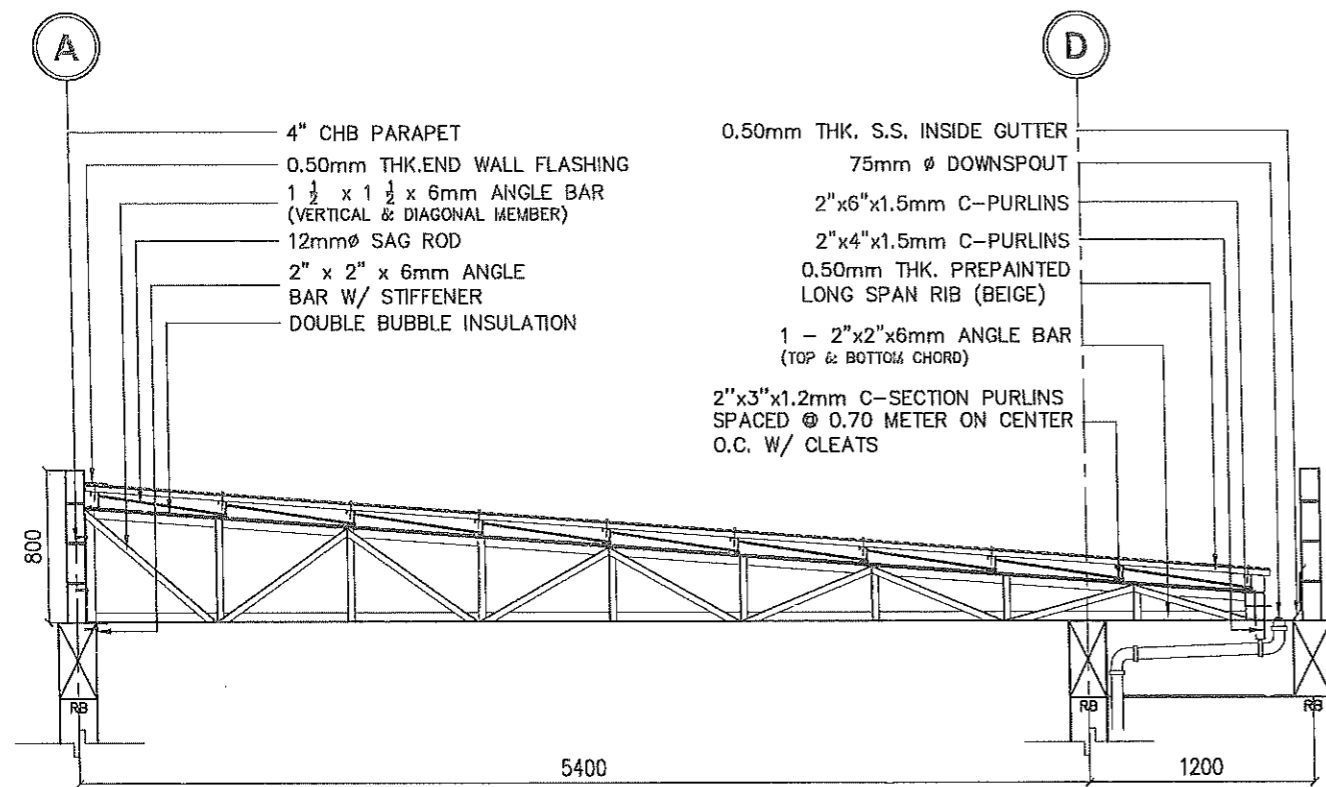


PLAN OF STAIRS FOOTING
SCALE: 1:50 MTS.

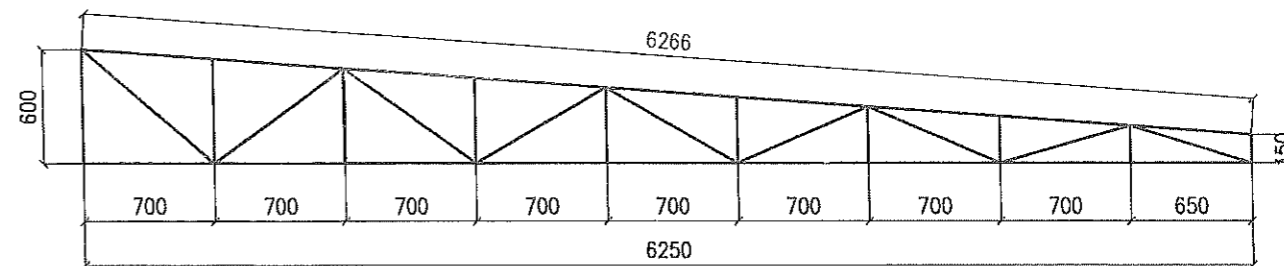


TYPICAL RISER DETAIL
SCALE: 1:20 MTS.

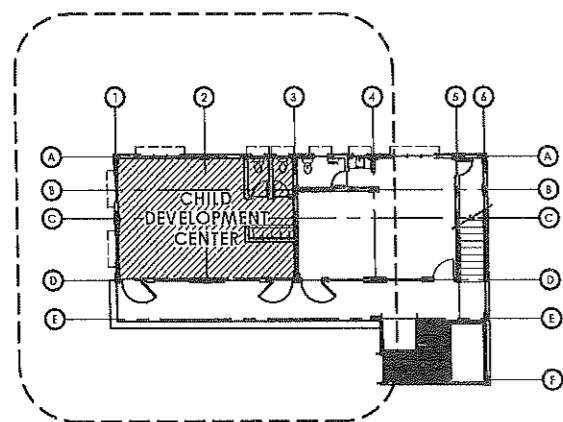
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
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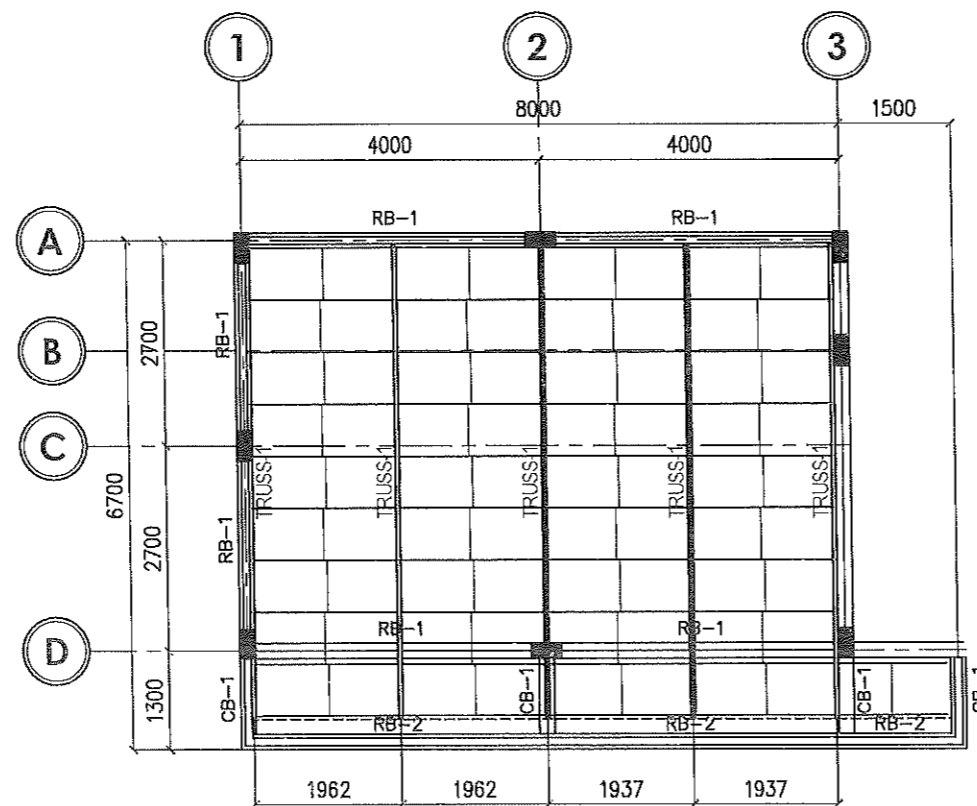
TYPICAL TRUSS DETAIL
SCALE: 1:40 MTS.



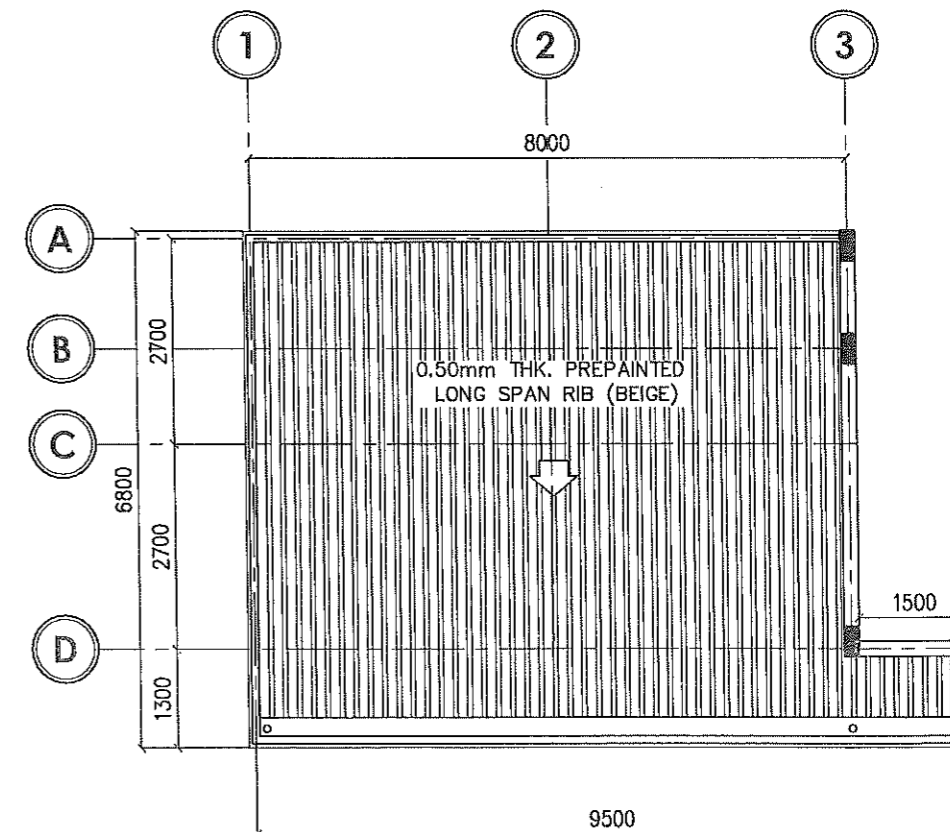
11 UNITS TRUSS-1 DIAGRAM
SCALE: 1:40 MTS.



KEY PLAN

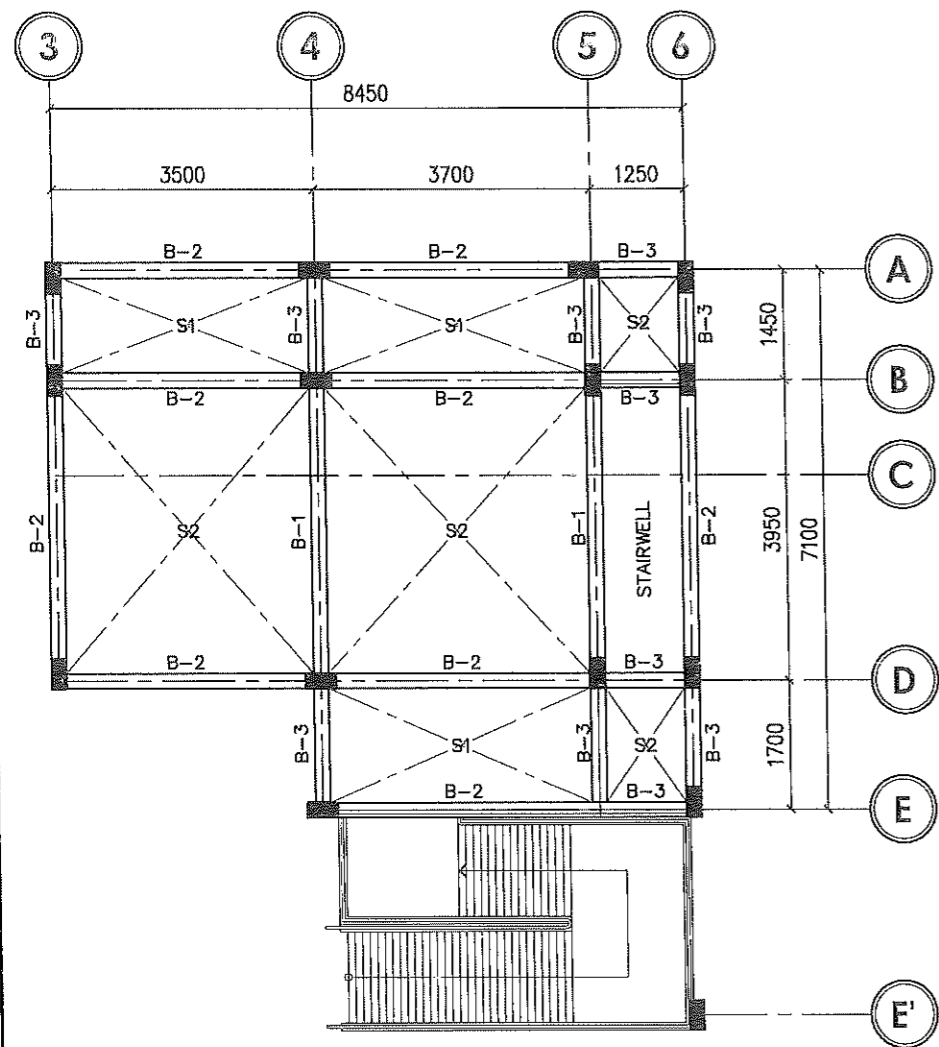


CHILD DEVELOPMENT CENTER ROOF FRAMING PLAN
SCALE: 1:100 MTS.

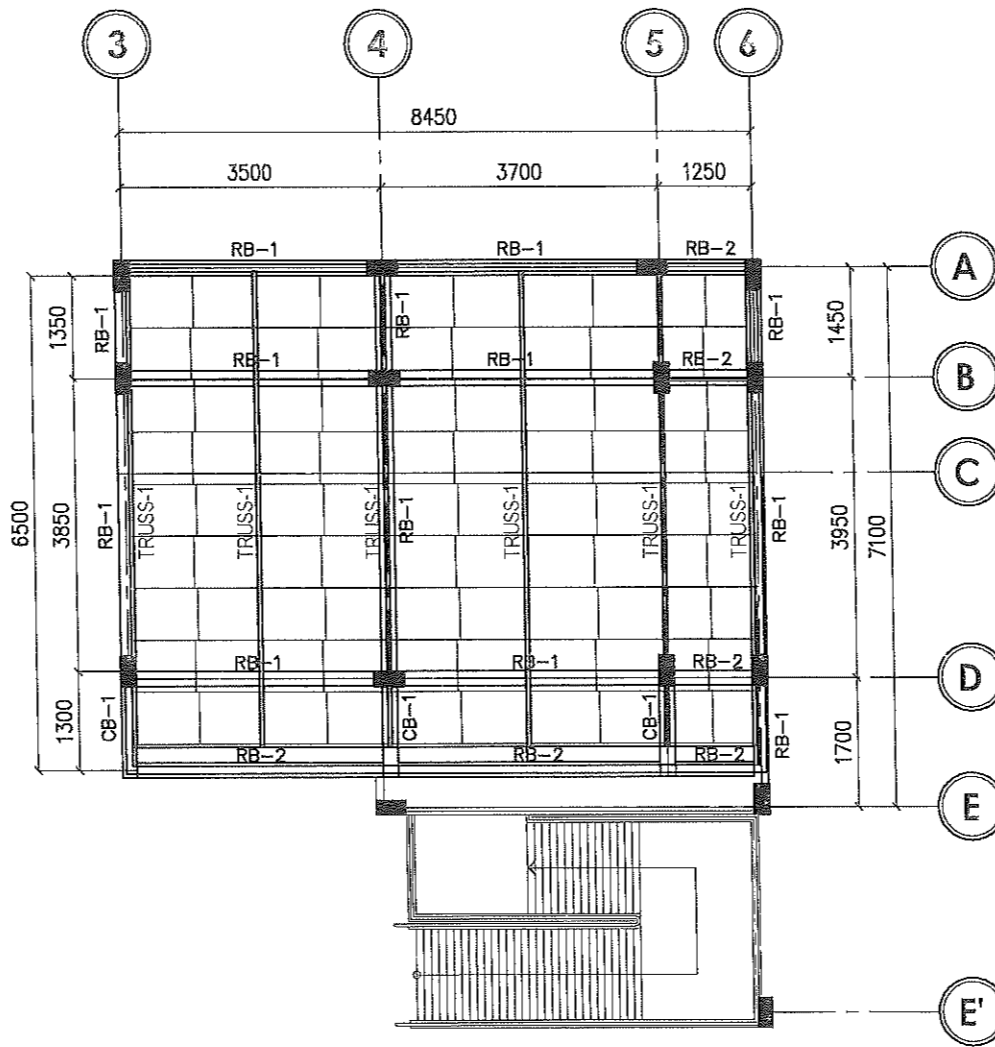


CHILD DEVELOPMENT CENTER ROOF PLAN
SCALE: 1:100 MTS.

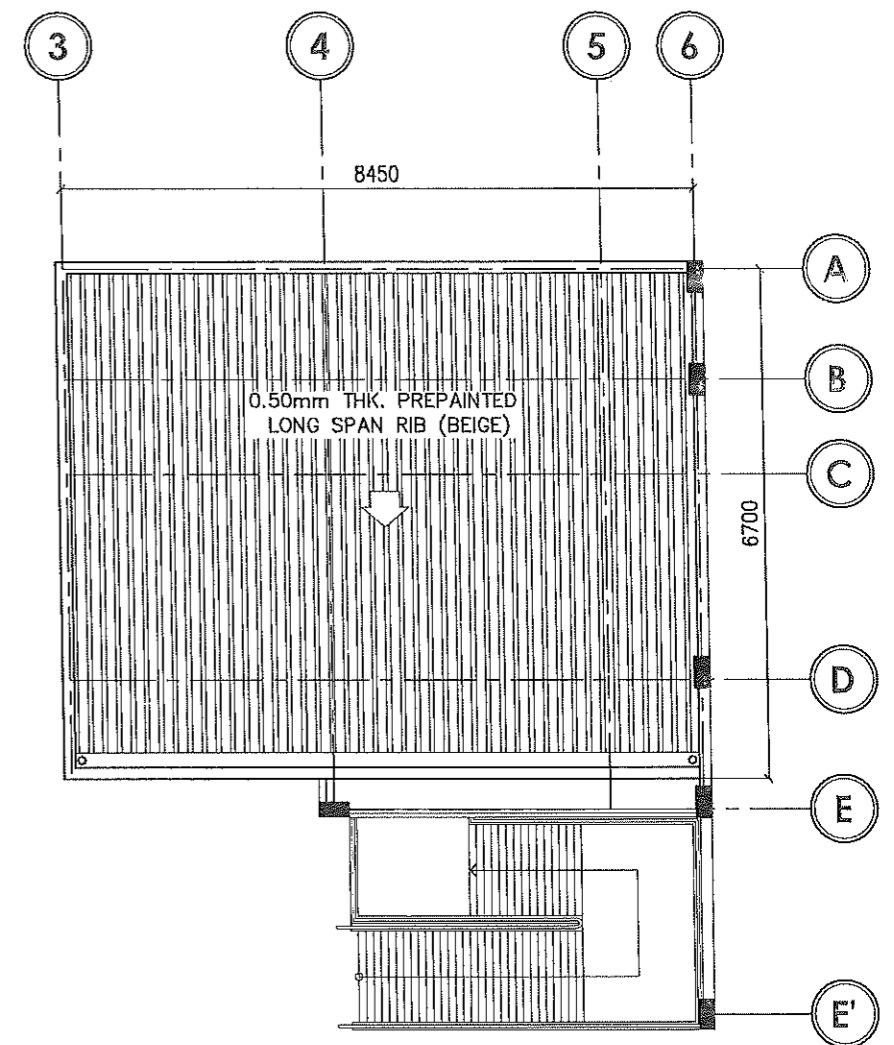
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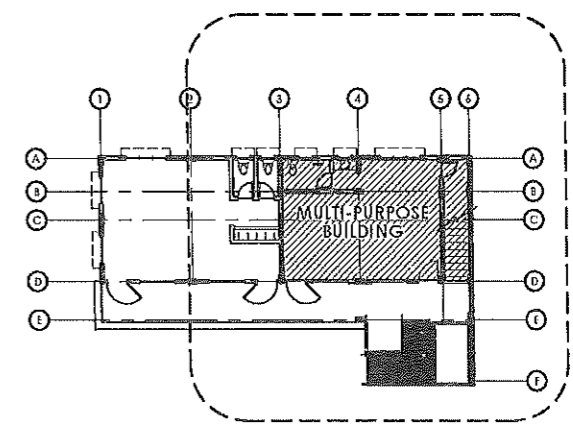
MULTI-PURPOSE BUILDING
SECOND FLOOR FRAMING PLAN
 SCALE: 1:100 MTS.



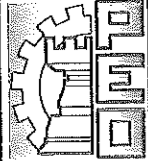
MULTI-PURPOSE BUILDING
ROOF FRAMING PLAN
 SCALE: 1:100 MTS.



MULTI-PURPOSE BUILDING
ROOF PLAN
 SCALE: 1:100 MTS.



KEY PLAN

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GENERAL NOTES & STANDARDS

1. DESIGN STRESS

- A. CONCRETE :
 COMPRESSIVE STRENGTH @ 28 DAYS = 3,000 PSI / 20.7 MPa
- B. REINFORCING BARS :
 a. 12 mm ϕ & GREATER = GR. 40 / 275 MPa
 b. 10 mm ϕ & BELOW = GR. 33 / 230 MPa
- C. STRUCTURAL STEEL, ASTM-A36:
 FOR TRUSSES, BRACINGS, ETC. = GR. 36 / 248 MPa
- D. PURLINS
 COLD FORMED LIGHT GAGE SHAPES = GR. 36 / 248 MPa
- E. MASONRY UNIT (CHB)
 NON-LOAD BEARING CHB WALLS = GR. 05 / 3.45 MPa
- G. STRUCTURAL BOLTS, ASTM-A307
 a. FT = GR. 14 / 96.60 MPa
 b. FV = GR. 10 / 69.00 MPa

2. MATERIALS

A. CONCRETE :

1. CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS :
- | | |
|--------------------------------|-------|
| a. FOOTINGS, FOOTING-TIE BEAMS | 75 mm |
| b. BEAMS & COLUMNS | 40 mm |
| c. SUSPENDED SLAB | 20 mm |
2. BEFORE CONCRETE IS POURED, CHECK WITH ALL TRADES TO ENSURE PROPER PLACEMENT OF ALL OPENINGS, SLEEVES, CURBS, CONDUITS, ETC. RELATING TO THE WORK.

B. REINFORCING BARS

- ALL REINFORCING BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIALS THAT WILL IMPAIR BOND.
- ALL REINFORCING BARS SHALL BE ACCURATELY & SECURELY PLACED BEFORE POURING CONCRETE OR APPLYING MORTAR OR GROUT
- LAPPED SPLICES SHALL BE STAGGERED WHERE POSSIBLE.
- UNLESS OTHERWISE INDICATED, SPlicing OF REINFORCEMENT SHALL BE IN ACCORDANCE WITH ACI-318M, EXCEPT THE MINIMUM LAP SPLICE SHALL BE 40 BAR DIAMETER BUT NOT LESS THAN 600 mm.
- UNLESS SHOWN OTHERWISE ON PLANS, SPLICES SHALL BE FOLLOWS :
 - INTERMEDIATE BEAMS : TOP BARS SHALL BE SPLICED MID-SPAN & BOTTOM BARS AT THE SUPPORT.
 - BEAMS FRAMING TO COLUMNS : TOP BARS SHALL BE SPLICED AT MID-SPAN & BOTTOM BARS SHALL NOT BE SPLICED W/IN THE COLUMN W/IN A DISTANCE OF TWICE THE MEMBER DEPTH FROM THE FACE OF THE COLUMN. THE SPLICED LENGTH SHALL NOT BE LESS THAN 1.4 TIMES THE DEVELOPMENT LENGTH (L_d) BUT NOT LESS THAN 600 mm.
 - COLUMNS : LAP SPLICES SHALL BE MADE WITHIN THE CENTER HALF OF HEIGHT AND THE SPLICE SHALL NOT BE LESS THAN 30 BAR DIAMETER. WELDING OR THE USED OF APPROVED MECHANICAL DEVICES MAY BE PERMITTED PROVIDED NOT MORE THAN ALTERNATE BARS ARE WELDED OR SPLICED AT ANY LEVEL AND THE MINIMUM VERTICAL DISTANCE BETWEEN TWO ADJACENT BAR SPLICES SHALL BE 600 mm.
 - CHB WALLS : VERTICAL BARS SHALL BE SPLICED AT THE TOP OF THE WALL FOOTINGS OR FOOTING-TIE BEAMS AND AT THE BOTTOM OF REINFORCED CONCRETE LINTEL BEAMS OR BEAMS.
- UNLESS OTHERWISE INDICATED, ALL BEAMS TERMINATING AT A COLUMN SHALL HAVE TOP AND BOTTOM BARS EXTENDING TO THE FAR FACE OF THE COLUMN, TERMINATING IN A STANDARD 90° HOOK LENGTH OF ANCHORAGE AND SHALL NOT BE LESS THAN 600 mm.
- SHOP DRAWING FOR REINFORCEMENT SHALL BE SUBMITTED FOR APPROVAL OF THE ENGINEER PRIOR TO FABRICATION & INSTALLATION.

C. STRUCTURAL STEEL

- ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36 AND SHALL HAVE A MINIMUM YIELD STRESS, $F_y = 248 \text{ MPa}$ (36,000 psi).
- ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE AS AMMENDED TO DATE.
- ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE INDICATED.
- SHOP AND FIELD WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 AND PERFORMED BY QUALIFIED WELDERS.
- UNLESS OTHERWISE INDICATED, WELDING ELECTRODES SHALL BE E60.
- NO STEEL SHALL BE FABRICATED OR ERECTED UNTIL SHOP DRAWINGS HAVE BEEN APPROVED BY THE STRUCTURAL ENGINEER.
- ANCHOR BOLTS CONFORM WITH ASTM A-307

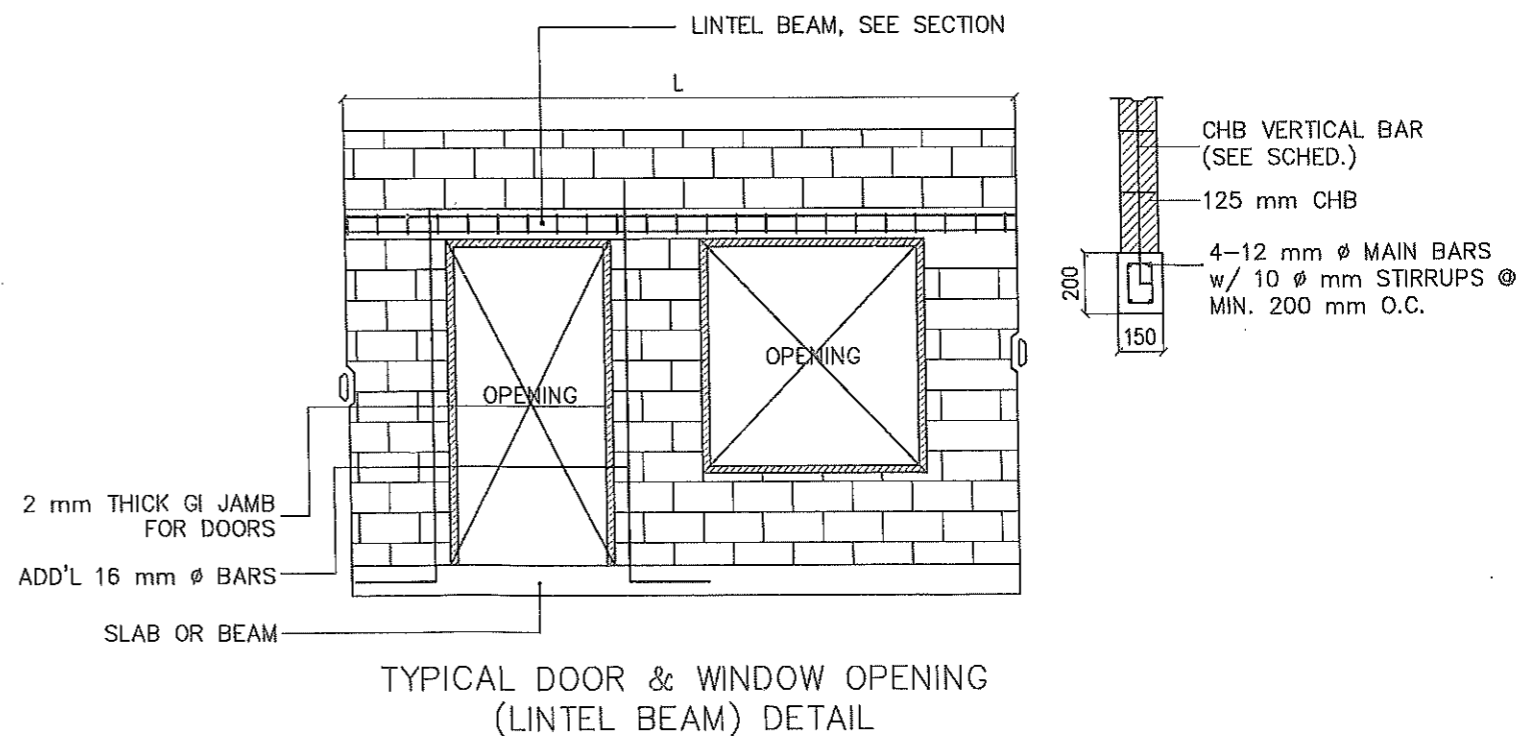
D. CONCRETE HOLLOW BLOCKS (CHB)

- UNLESS OTHERWISE INDICATED, CHB USED IN THIS WORK SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH, $F'_m = 3.45 \text{ MPa}$ (500 psi).
- ALL CHB CELLS SHALL BE FILLED SOLIDLY WITH GROUT
- SCHEDULE OF HOLLOW BLOCK REINFORCEMENT

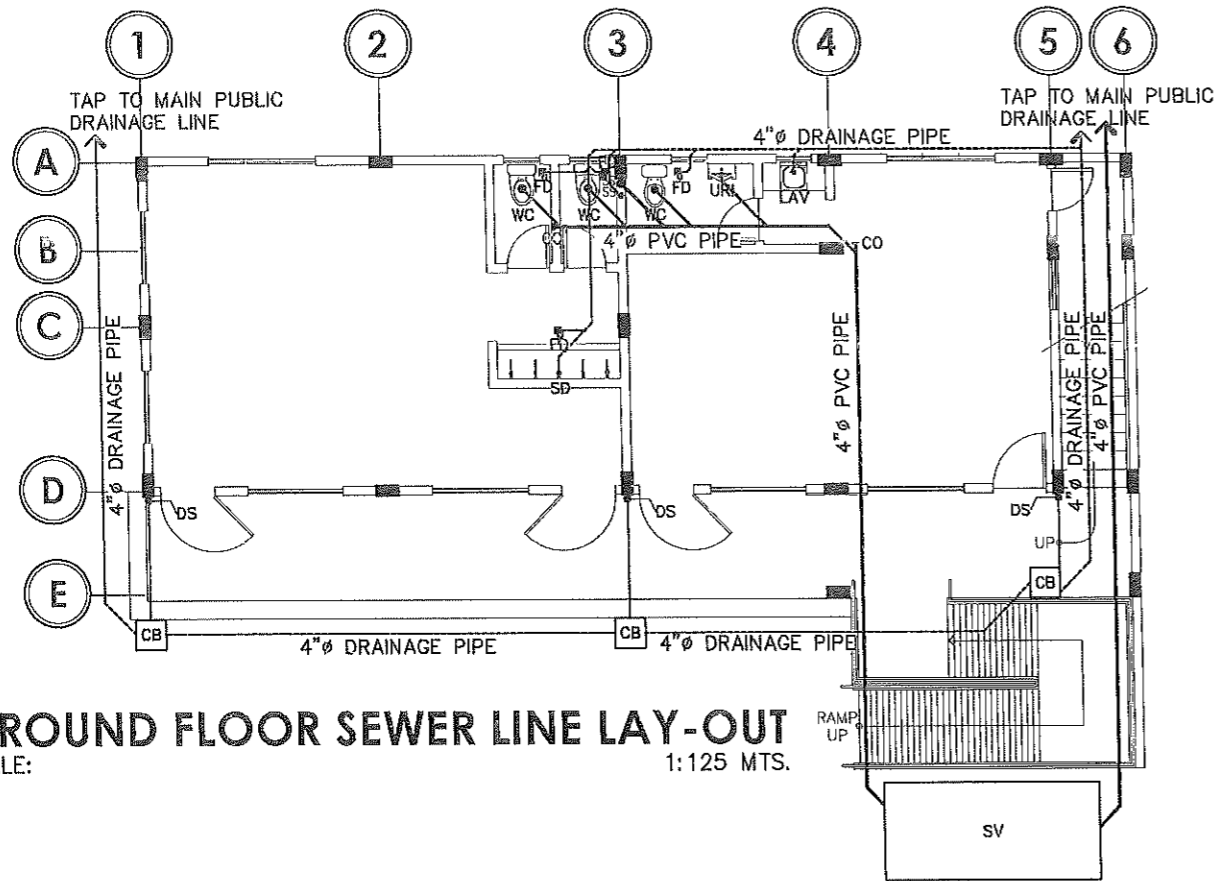
BLOCK THICKNESS	VERTICAL	HORIZONTAL
100 mm	800 mm	600 mm
125 mm	800 mm	600 mm
- SEE BELOW FOR DOOR & WINDOW OPENING DETAIL.

E. CONSTRUCTION JOINTS

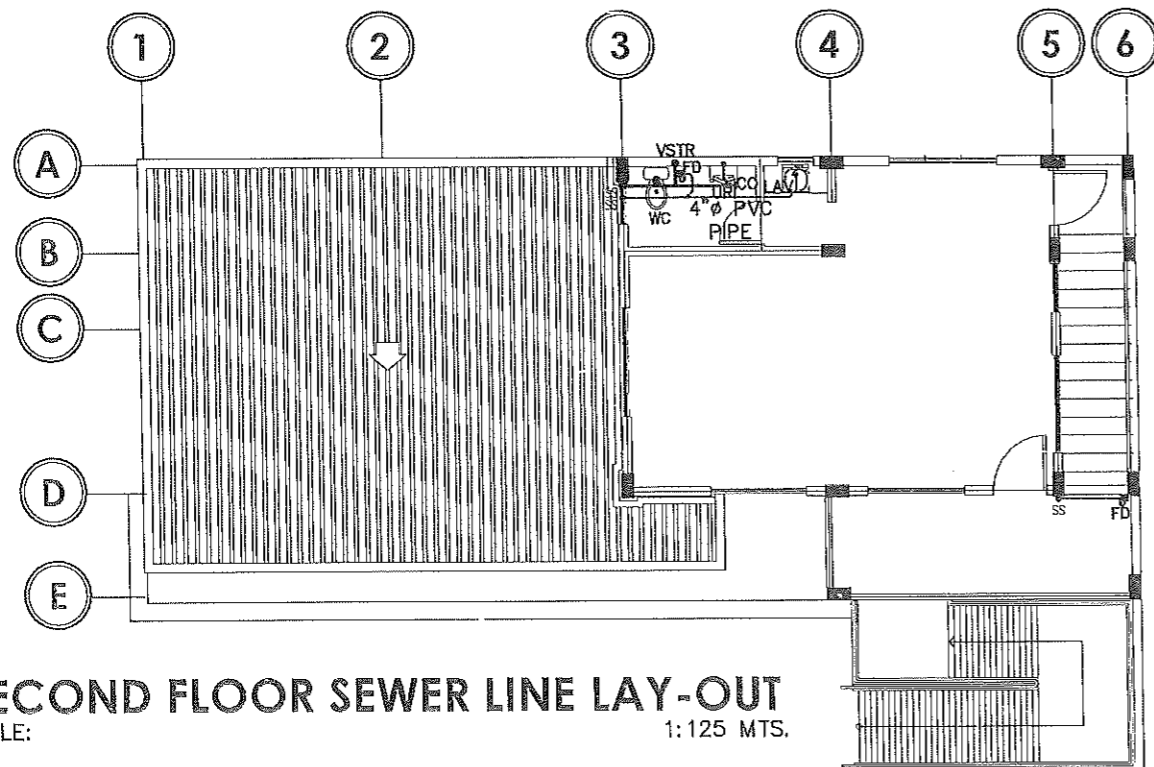
- CONSTRUCTION JOINT NOT INDICATED ON THE PLANS SHALL BE MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER EXCEPT SLAB ON GRADE.
- UNLESS SHOWN OTHERWISE, SLAB ON GRADE SHALL HAVE CONTROL JOINTS SPACED AT 2000 mm MAXIMUM, CENTER TO CENTER.
- BEAMS CONSTRUCTION JOINT SHALL BE LOCATED WITHIN THE MIDDLE THIRD OF THE SPAN. IT SHALL BE PROVIDED WITH 3 EXTRA STIRRUPS @ 75mm O.C. ON EACH SIDE OF THE JOINT.



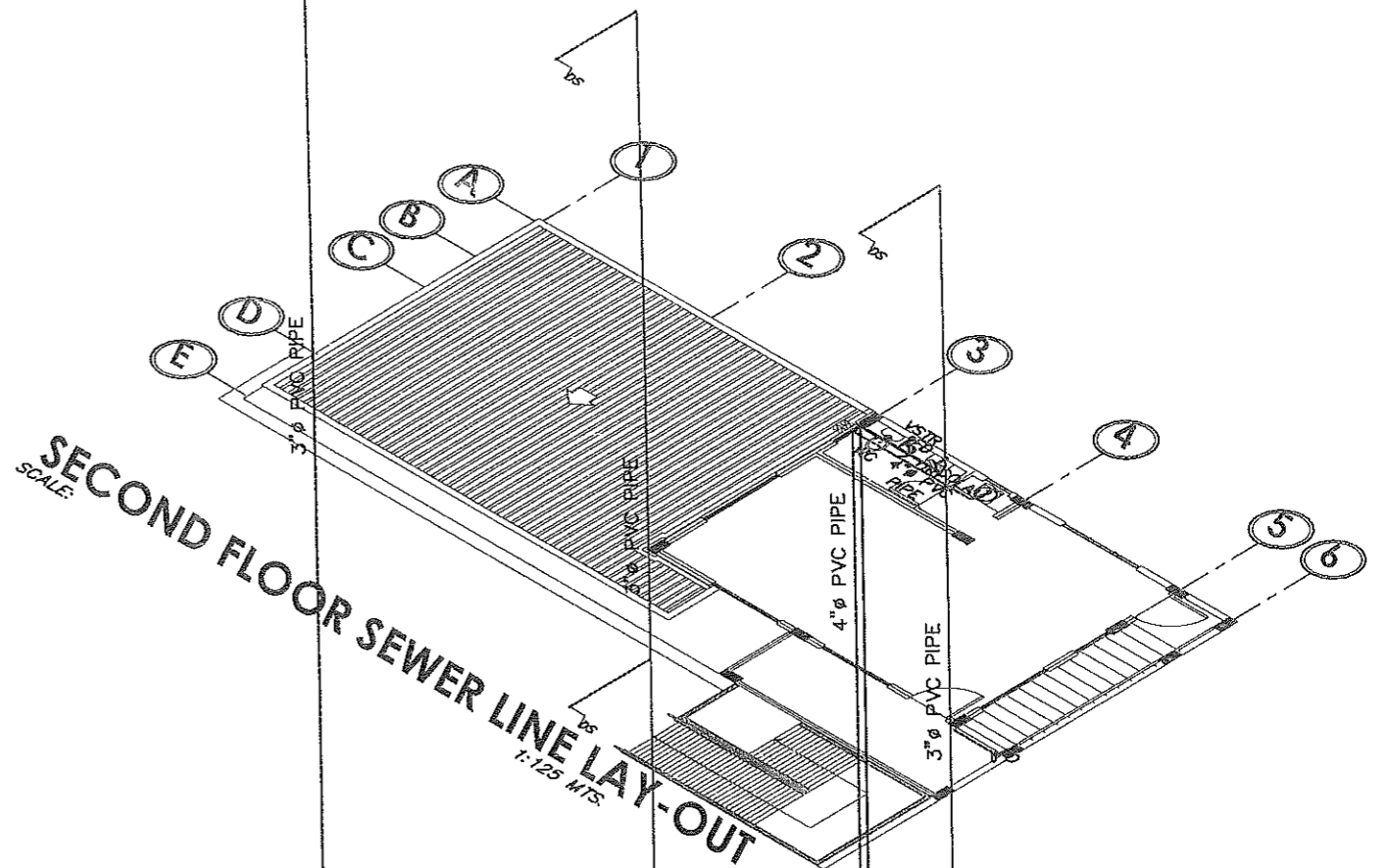
 FROM THE OFFICE OF:	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: CONSTRUCTION/IMPROVEMENT OF MULTI-PURPOSE BUILDING AND CHILD DEVELOPMENT CENTER	PREPARED BY: DEANNE THERESE D'ACAGUIAT ENGINEER I	CHECKED BY: BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	VERIFIED & SUBMITTED BY: WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	RECOMMENDING APPROVAL: OLIMPIO M. PANGAN PROVINCIAL ENGINEER	APPROVED BY: HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: AS SHOWN	SHEET NO.: S - 7 15 / 22	
			LOCATION: COLGANTE, APALIT, PAMPANGA							



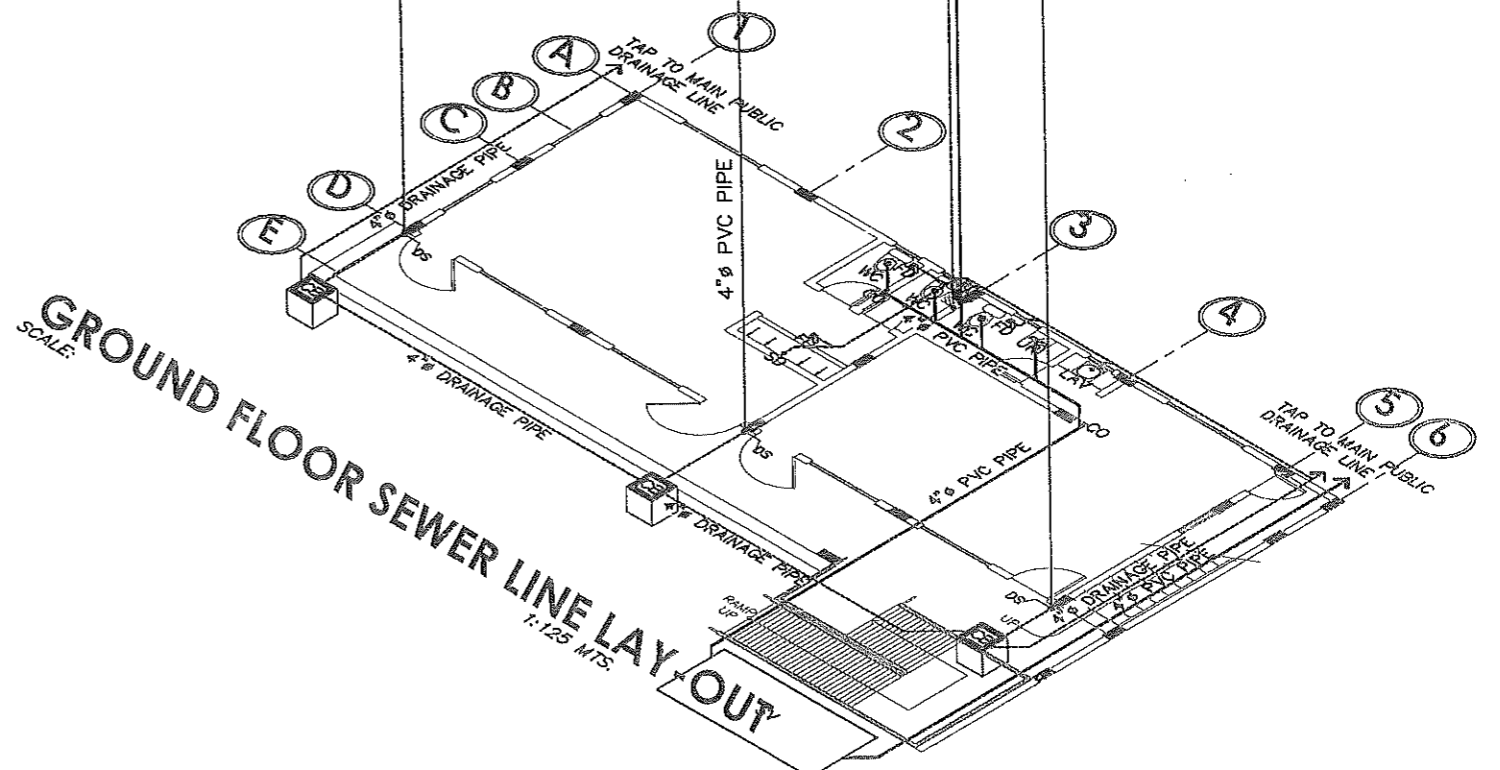
GROUND FLOOR SEWER LINE LAY-OUT
SCALE: 1:125 MTS.




SECOND FLOOR SEWER LINE LAY-OUT
SCALE: 1:125 MTS.

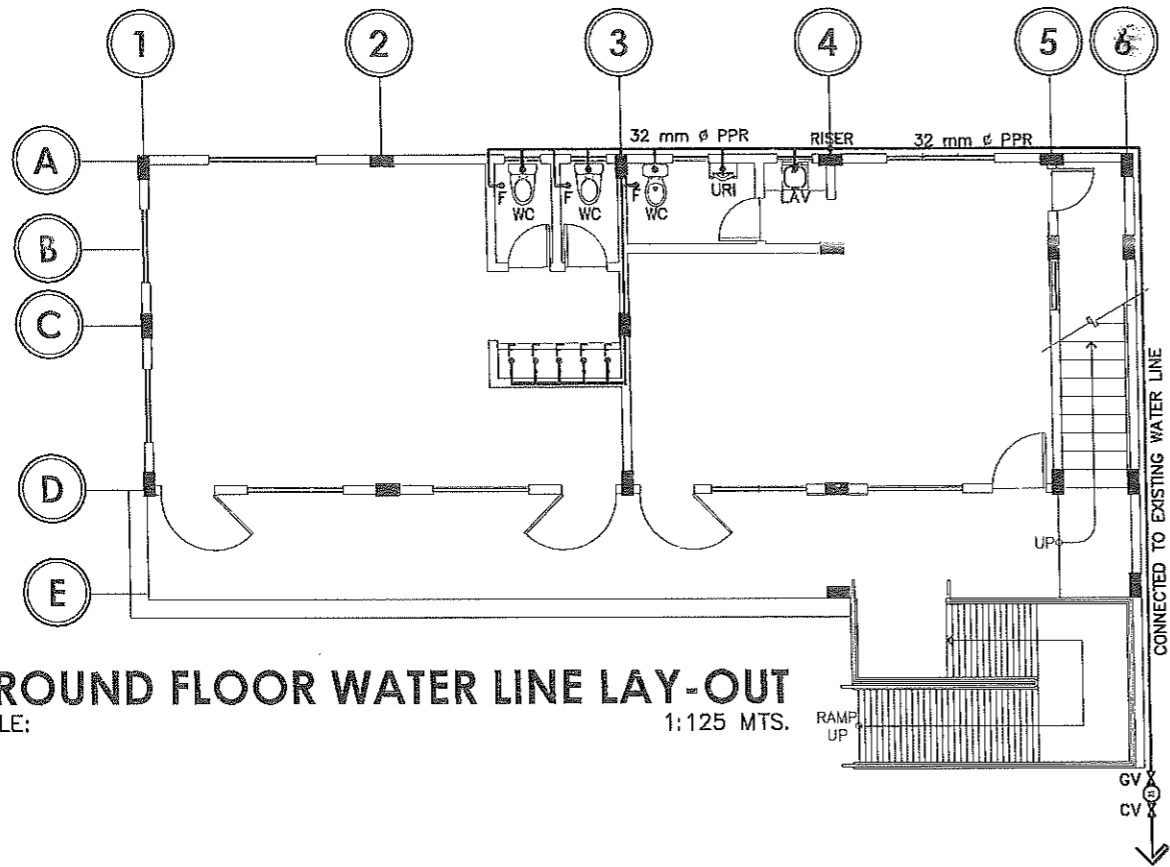


SECOND FLOOR SEWER LINE LAY-OUT
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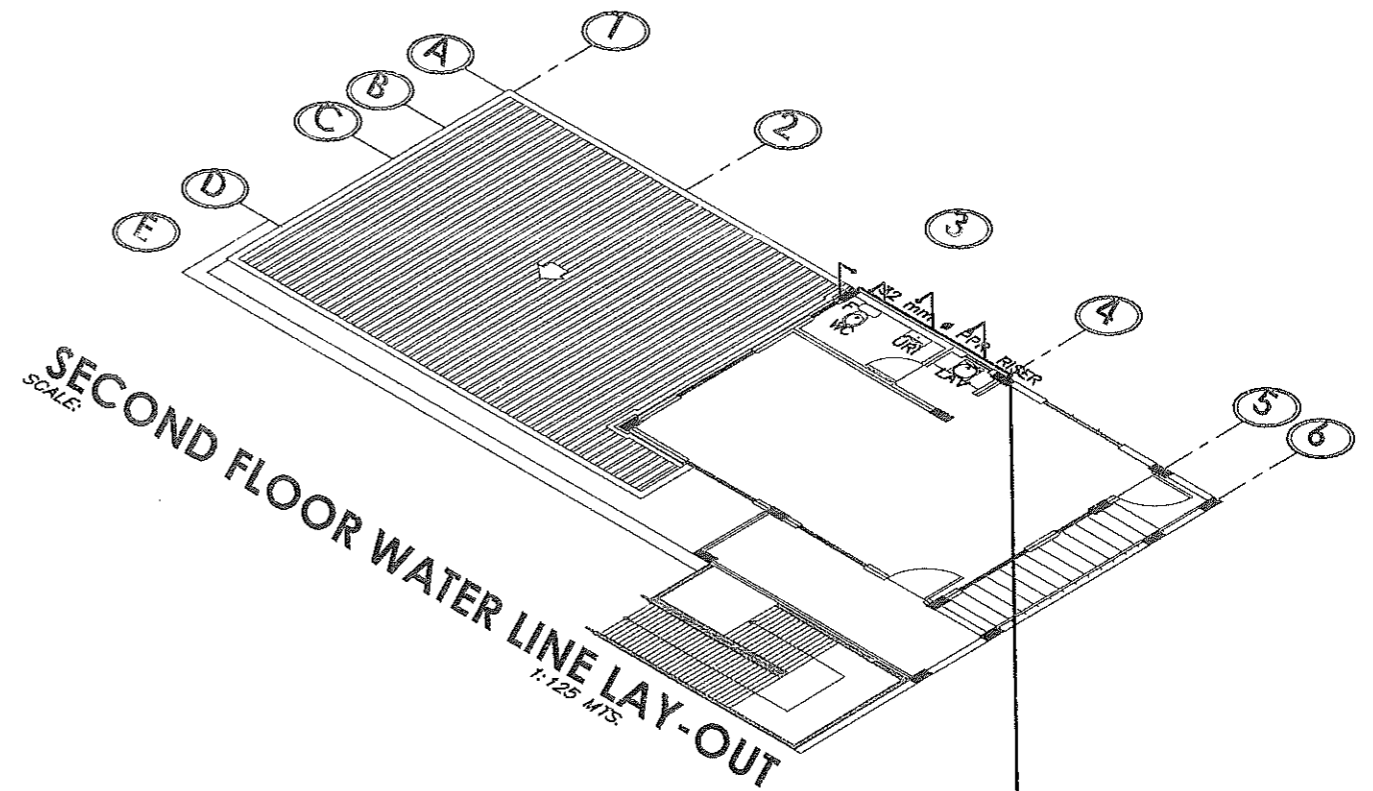


GROUND FLOOR SEWER LINE LAY-OUT
SCALE: 1:125 MTS.

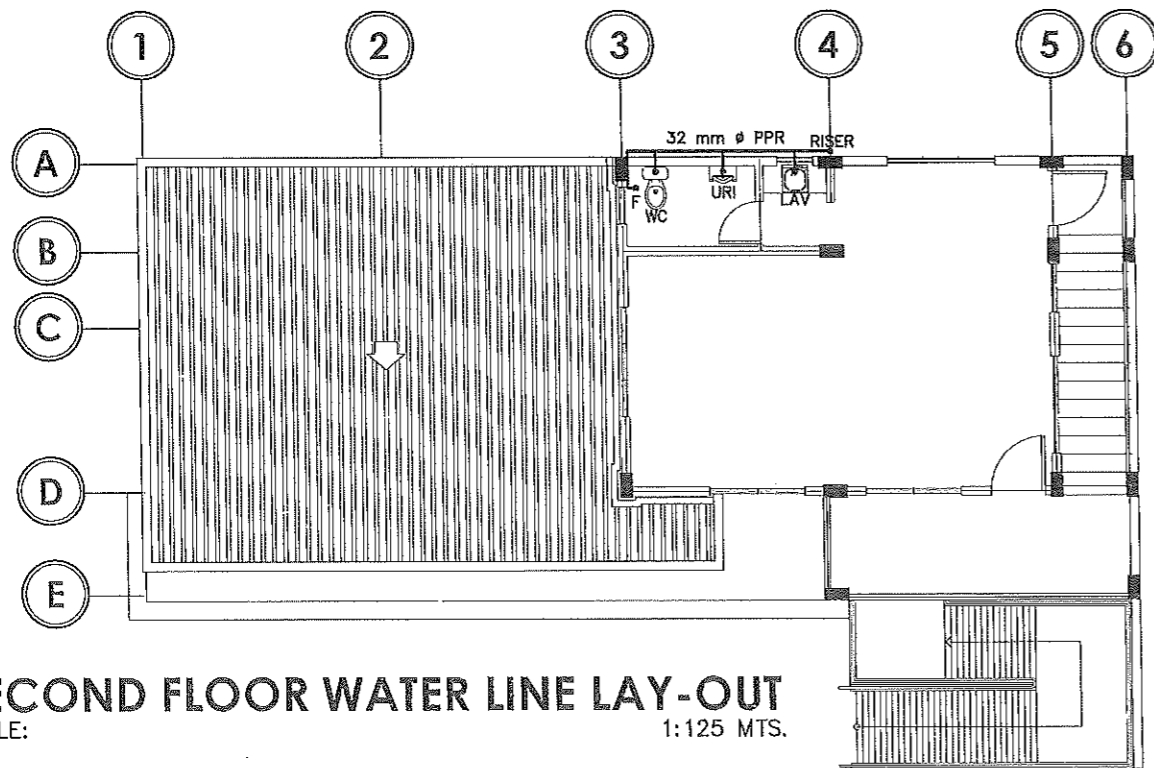
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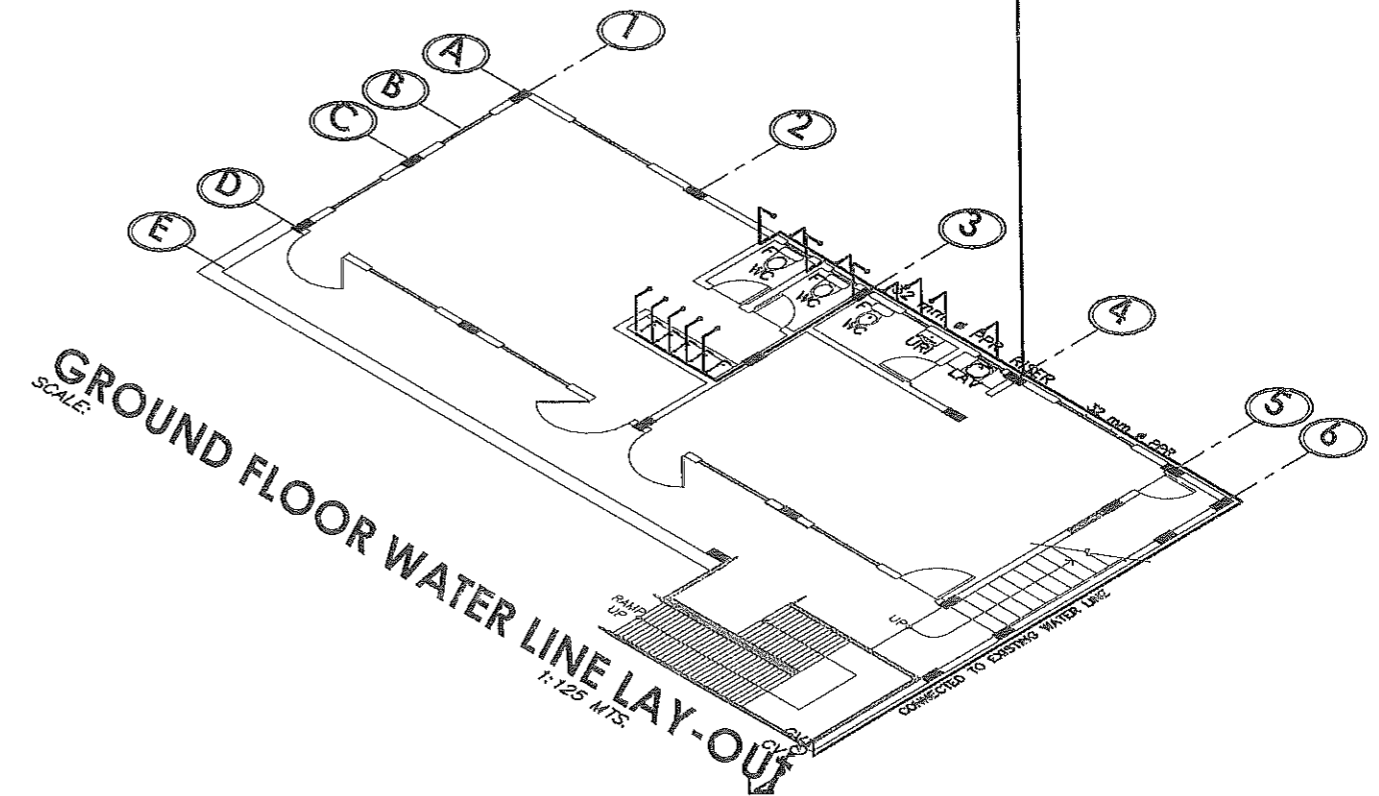
GROUND FLOOR WATER LINE LAY-OUT
SCALE: 1:125 MTS.



SECOND FLOOR WATER LINE LAY-OUT
SCALE: 1:125 MTS.

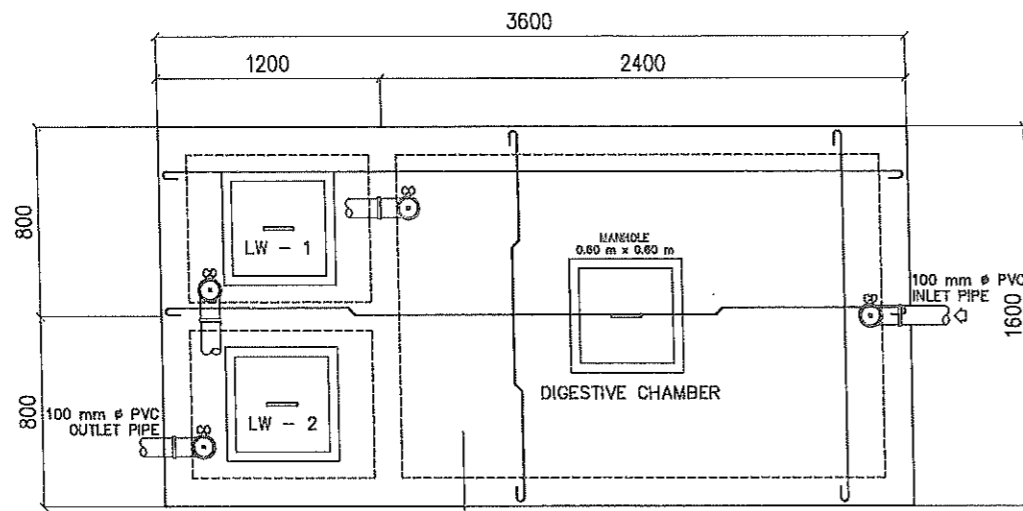


SECOND FLOOR WATER LINE LAY-OUT
SCALE: 1:125 MTS.



GROUND FLOOR WATER LINE LAY-OUT
SCALE: 1:125 MTS.

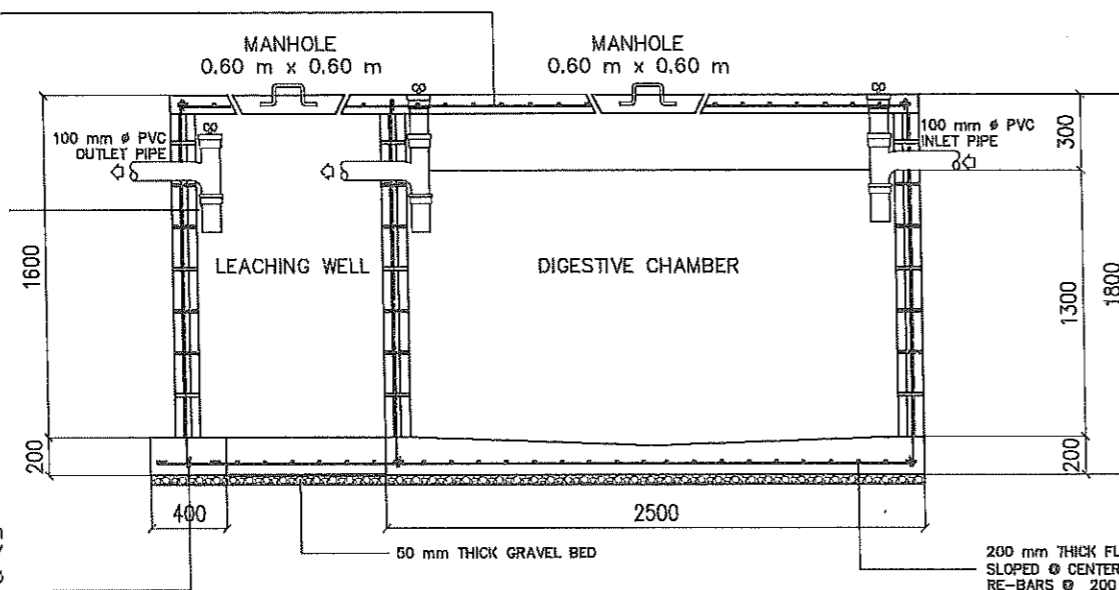
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	LOCATION: COLGANTE, APALIT, PAMPANGA							PLUMBING	17 / 22



100 mm THICK CONC. SLAB 10 mm ϕ REBARS @ 200 mm BOTHWAYS, BENDED @ MIDSPAN

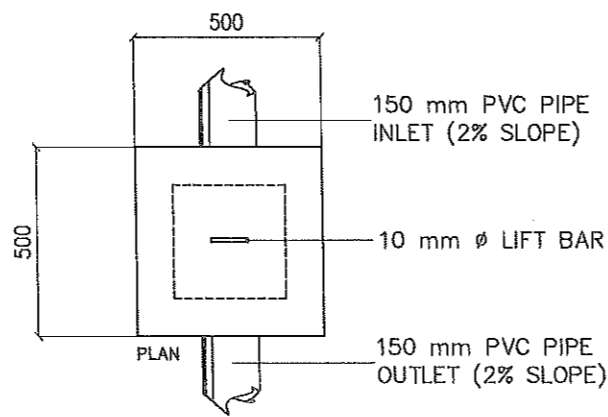
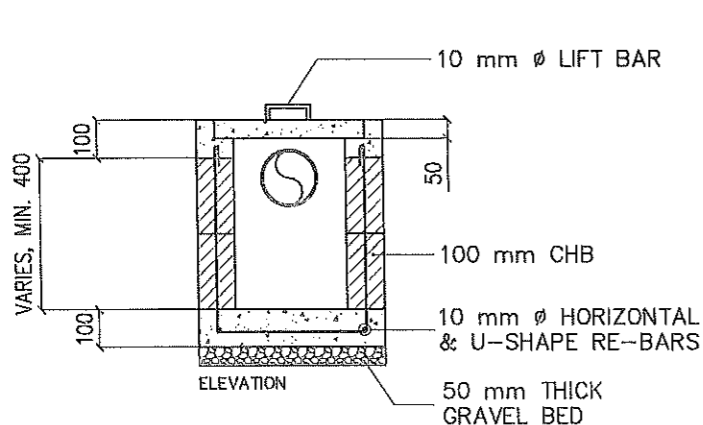
100 mm THICK CONC. SLAB 10 mm ϕ REBARS @ 200 mm BOTHWAYS, BENDED @ MIDSPAN

125 mm CHB WALL w/ 10 mm ϕ HORIZONTAL & VERTICAL RE-BARS SPACED @ 600 mm PLASTERED ON 1-SIDE



400 mm x 200 mm WALL FOOTING w/ 3 - 10 mm ϕ MAIN BARS & 10 mm ϕ STIRRUPS @ 300 mm O.C

SEPTIC VAULT DETAIL
SCALE: 1:40 MTS.



CATCH BASIN DETAIL
SCALE: 1:20 MTS.

GENERAL NOTES:

- ALL PLUMBING WORKS INCLUDED HEREIN SHALL BE EXECUTED IN ACCORDANCE TO THE PROVISIONS OF THE PHILIPPINE PLUMBING CODE, NATIONAL BUILDING CODE & ALL APPLICABLE RULES AND REGULATIONS
- COORDINATE THE DRAWING PLANS, SPECIFICATIONS & OTHER RELATED MATERIALS TO THE SUPERVISING ENGINEER/ARCHITECT FOR ANY DISCREPANCIES FOUND PRIOR TO THE EXECUTION OF WORK.
- ALL PIPES, FIXTURES AND OTHER UTILITIES SHALL CONFORM TO THE ACTUAL LOCATION, DEPTH, INVERT ELEVATIONS. ANY CHANGES TO BE MADE SHALL BE COORDINATED WITH THE SUPERVISING ENGINEER/ARCHITECT FOR THE NECESSARY ADJUSTMENT TO ENSURE PROPER EXECUTION OF WORK
- SEWER/DRAIN/WASTE PIPING REQUIREMENT :

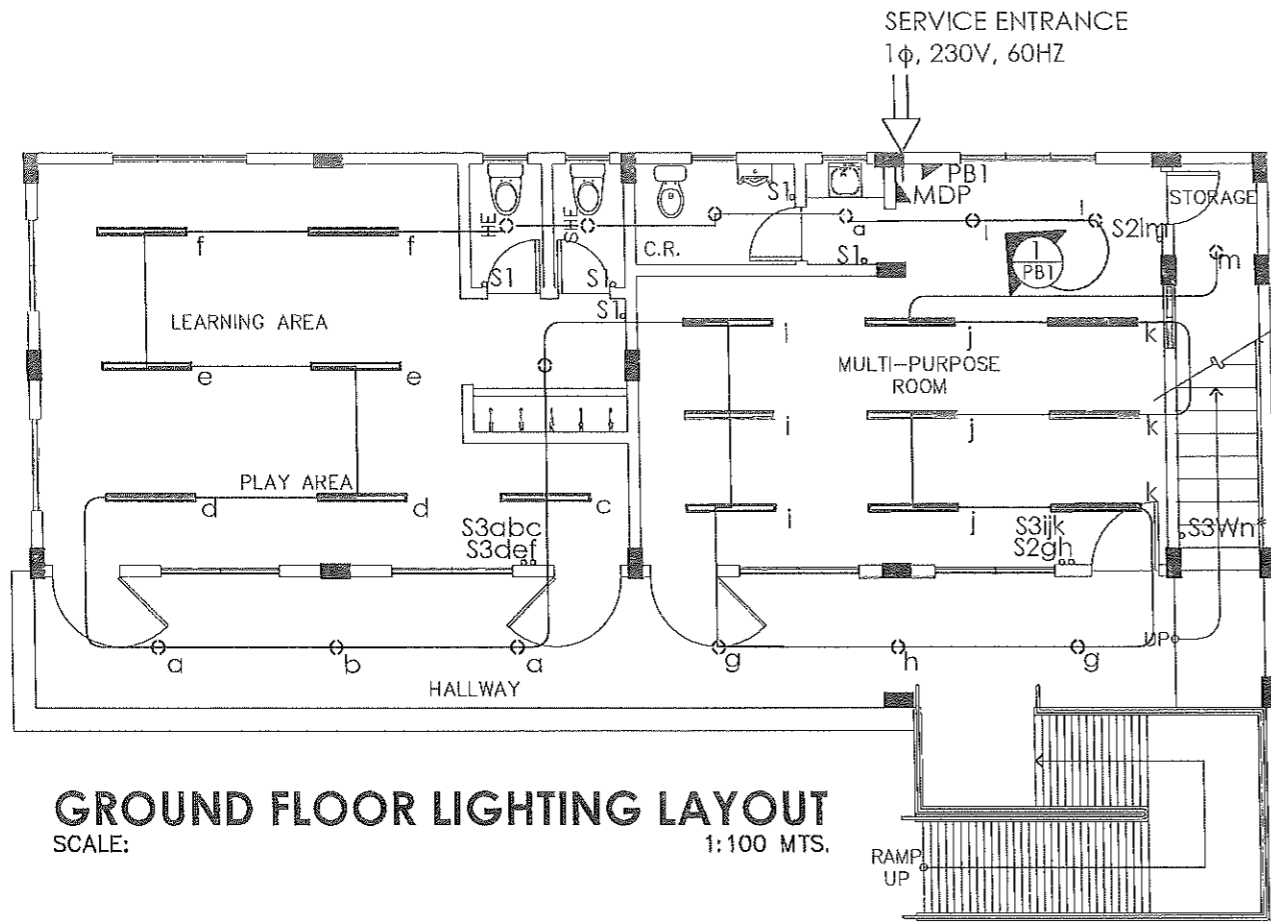
MAIN DRAINAGE	-	100 mm ϕ PVC PIPE
DOWNSPOUTS	-	75 mm ϕ PVC PIPE
MAIN SOIL STACK	-	100 mm ϕ PVC PIPE
SOIL BRANCH	-	100 mm ϕ PVC PIPE
BRANCH VENT	-	75 mm ϕ PVC PIPE
P-TRAP, FD & UR	-	50 mm ϕ P-TRAP
WASTE PIPE, WC	-	100 mm ϕ PVC PIPE
WASTE PIPE, LAV, FD & KS	-	50 mm ϕ PVC PIPE
- WATER LINE PIPING REQUIREMENT:

MAIN WATER LINE/RISER	-	32 mm ϕ PPR PIPE
BRANCH WATER LINE	-	20 mm ϕ PPR PIPE
- GRADES OF HORIZONTAL PIPINGS :
RUN ALL HORIZONTAL PIPINGS IN PERFECT ALIGNMENT & AT A FORM GRADE NOT LESS THAN TWO PERCENT (2%)
- CHANGE DIRECTION :
ALL CHANGE IN DIRECTION SHALL BE MADE BY APPROPRIATE USE OF FORTY FIVE DEGREES (45°) WYES, LONG SWEEP QUARTER BEND, SIXTH-EIGHT OR SIXTEENTH BEND. WHEN THE CHANGE OF FLOW IS FROM HORIZONTAL TO VERTICAL A SINGLE $\frac{1}{2}$ BEND COMBINATION MAY BE USED ON VERTICAL STACKS AND SHORT QUARTER BENDS MAYBE USED ON WASTE LINE, TEE AND CROSSES MAYBE USED IN BENT PIPES
- PIPE CLEAN-OUTS :
CLEAN-OUTS ARE REQUIRED UNDER THE FOLLOWING CONDITIONS :
 - EVERY CHANGE OF HORIZONTAL DIRECTION EXCEEDING 22-1/2'
 - 1.50 m INSIDE THE PROPERTY LINE BEFORE THE BUILDING DRAINAGE CONNECTION.
 - EVERY 15.0 m IN HORIZONTAL RUN OF PIPES
 - AT THE END OF HORIZONTAL PIPES
- THE DIGESTION CHAMBER OF SEPTIC VAULT MUST BE WATERPROOFED.
- NOT LESS THAN 0.30 m OF AIR SPACE MUST BE LEFT BETWEEN THE TOP OF THE SEWAGE AND THE UNDER PART OF THE VAULT ROOF SLAB.
- ALL PLUMBING WORKS SHALL BE UNDER THE DIRECT SUPERVISION OF A LICENSED MASTER PLUMBER AND LICENSE PLUMBING CONTRACTOR.

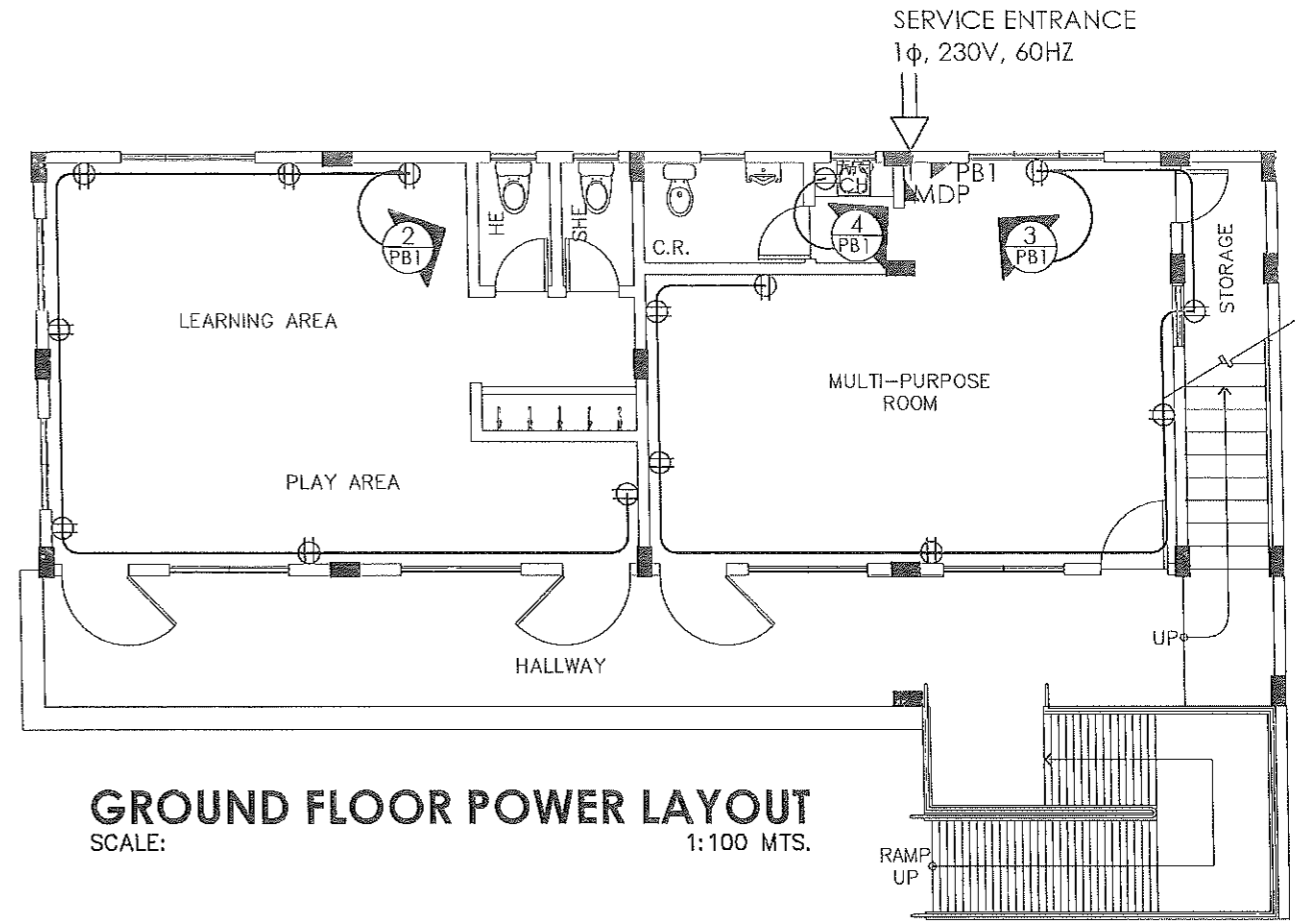
LEGEND & SYMBOLS

- | | |
|----------------|-------------------|
| F - FAUCET | WC - WATER CLOSET |
| URI - URINAL | FD - FLOOR DRAIN |
| DS - DOWNSPOUT | SD - SINK DRAIN |
| CO - CLEAN-OUT | RD - ROOF DRAIN |
| LAV - LAVATORY | CB - CATCH BASIN |

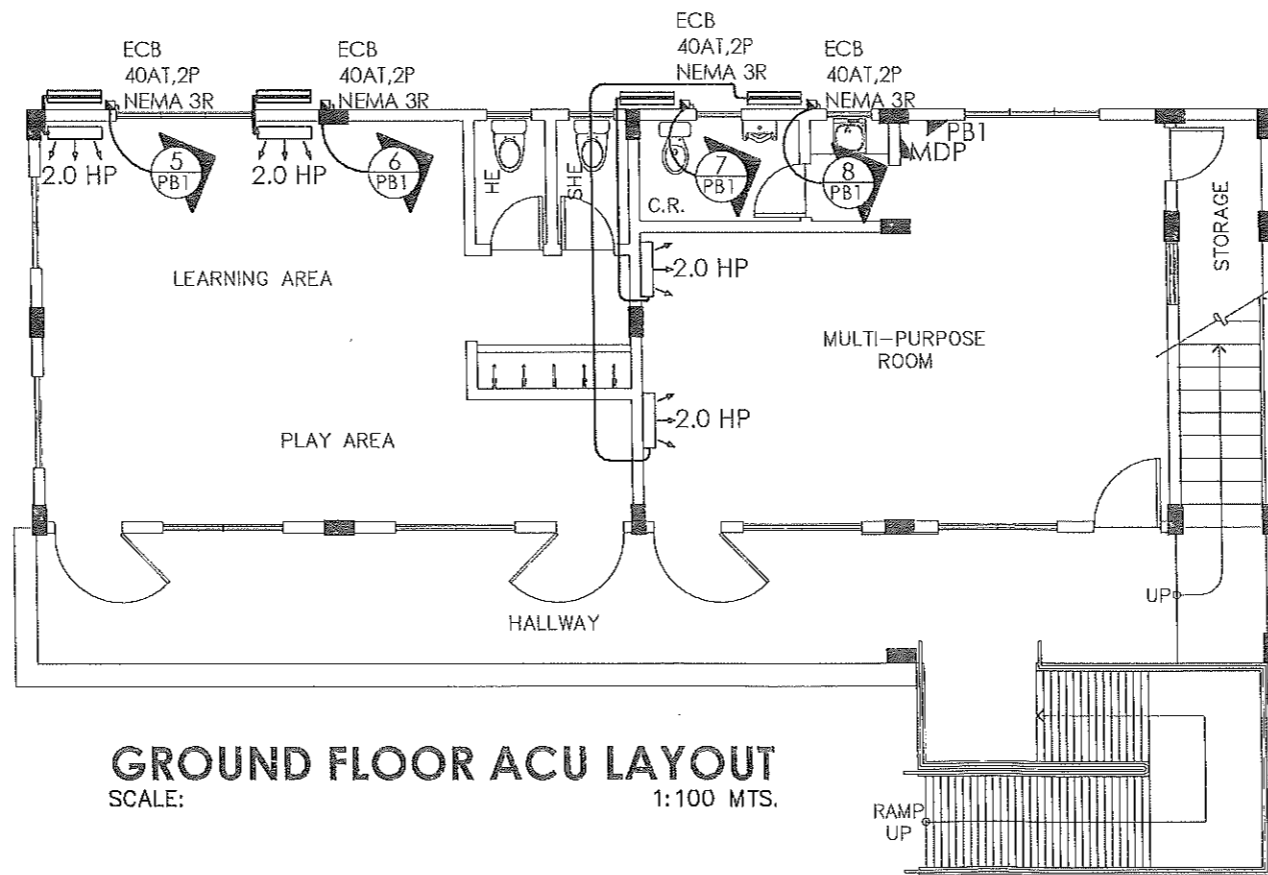
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION/IMPROVEMENT OF MULTI-PURPOSE BUILDING AND CHILD DEVELOPMENT CENTER LOCATION: COLGANTE, APALIT, PAMPANGA	DEANNE THERESE D. CAGUIAT ENGINEER I	BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	WILFREDO A. MANALLIL ASSISTANT PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN PLUMBING	P - 3 18 / 22



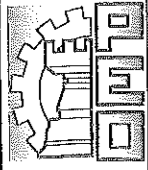
GROUND FLOOR LIGHTING LAYOUT
SCALE: 1:100 MTS.

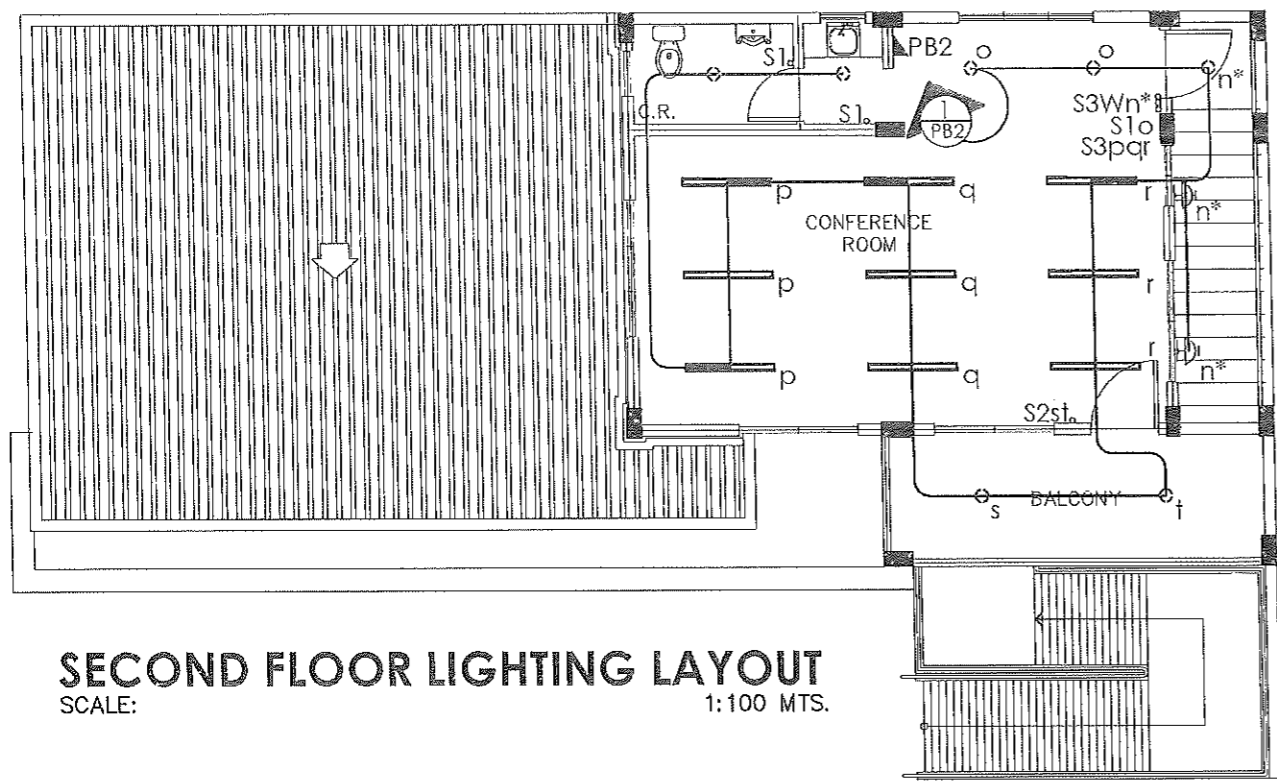


GROUND FLOOR POWER LAYOUT
SCALE: 1:100 MTS.

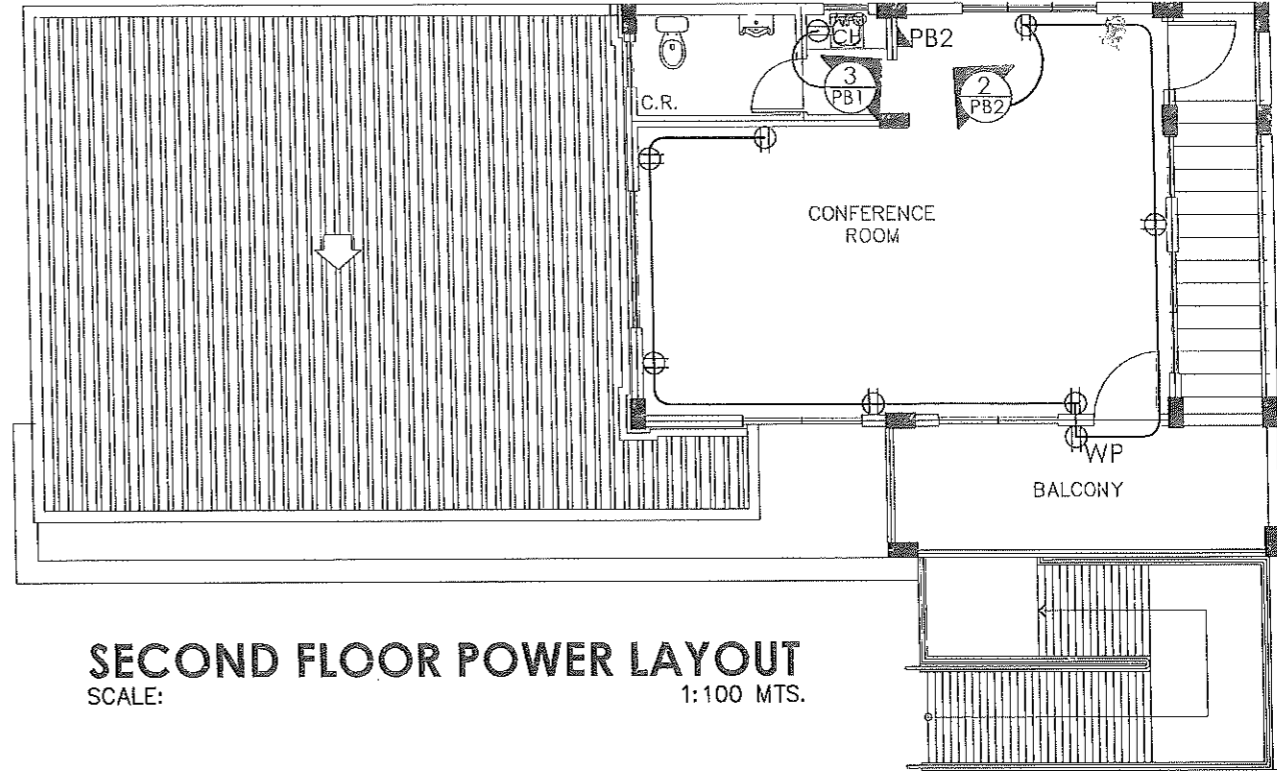


GROUND FLOOR ACU LAYOUT
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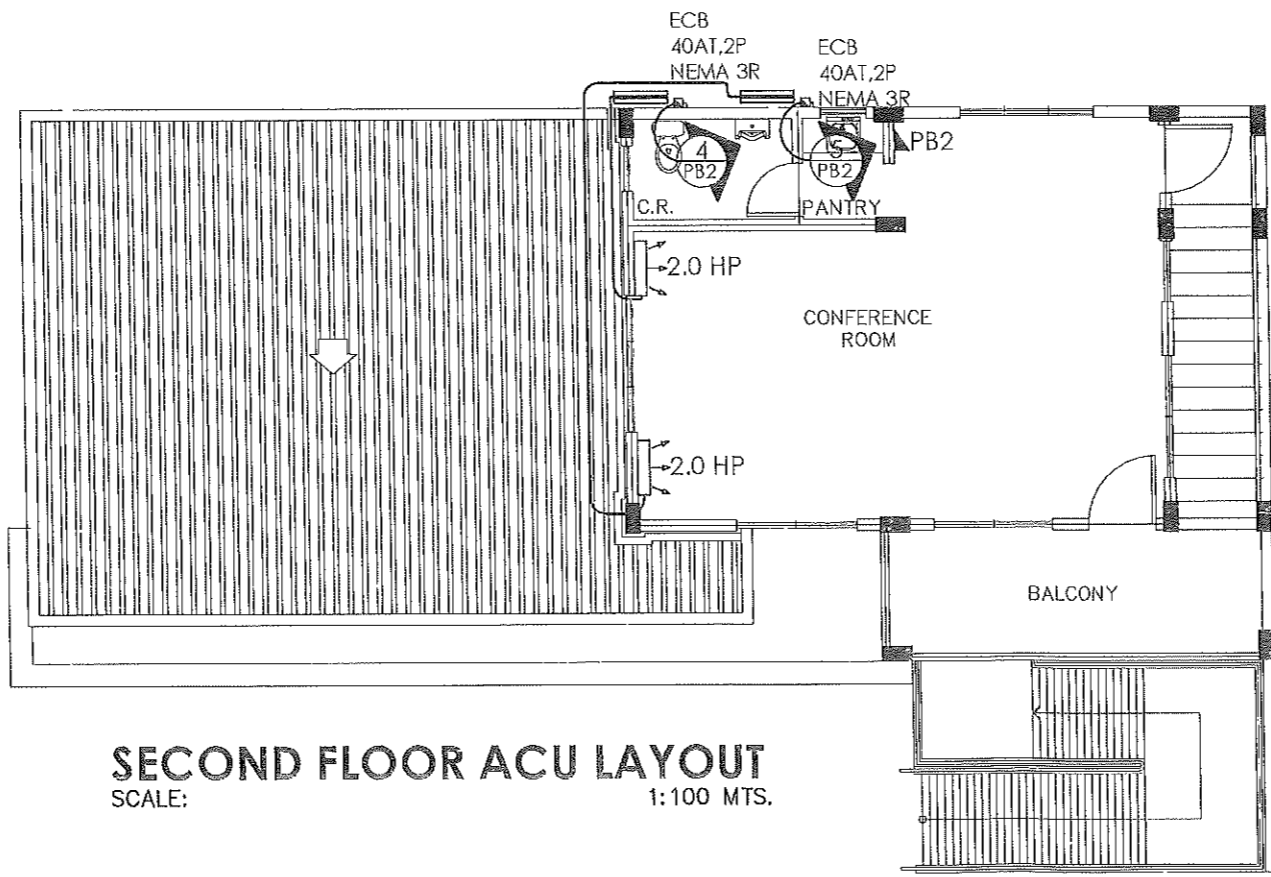
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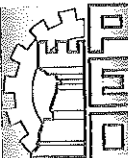

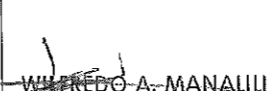




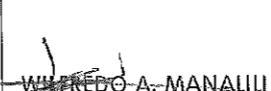


SECOND FLOOR LIGHTING LAYOUT
SCALE: 1:100 MTS.



SECOND FLOOR POWER LAYOUT
SCALE: 1:100 MTS.

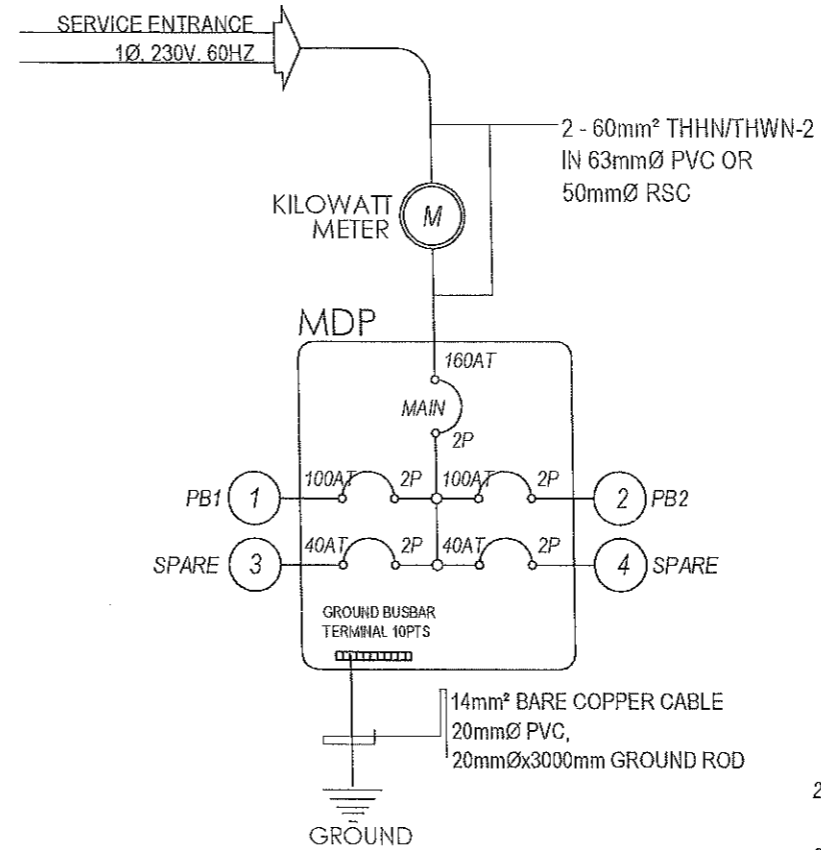


SECOND FLOOR ACU LAYOUT
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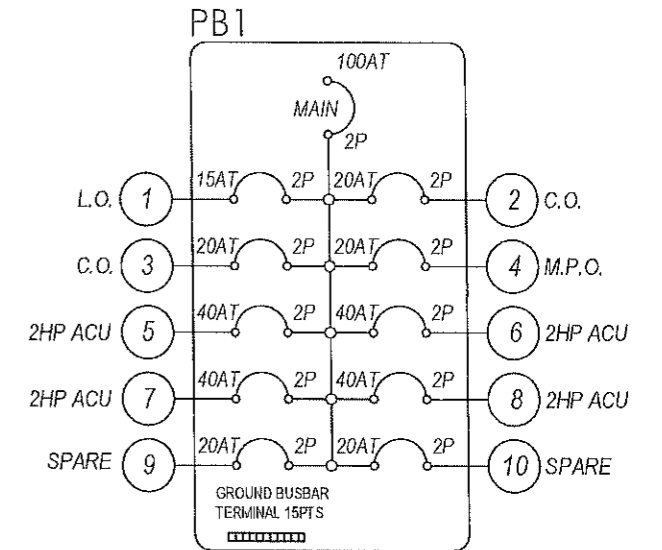
 FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: CONSTRUCTION/IMPROVEMENT OF MULTI-PURPOSE BUILDING AND CHILD DEVELOPMENT CENTER	PREPARED BY: MICHAEL V. MONTEMAYOR ENGINEER III	CHECKED BY:  BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	VERIFIED & SUBMITTED BY:  WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	RECOMMENDING APPROVAL:  OLIMPIO M. PANGAN PROVINCIAL ENGINEER	APPROVED BY: / HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR:  ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: AS SHOWN ELECTRICAL	SHEET NO.: E - 2 20 / 22
	LOCATION: COLGANTE, APALIT, PAMPANGA	PREPARED BY:  DEANNE THERESE D. CAGUIAT ENGINEER I	CHECKED BY:  BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	VERIFIED & SUBMITTED BY:  WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	RECOMMENDING APPROVAL:  OLIMPIO M. PANGAN PROVINCIAL ENGINEER	APPROVED BY: / HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR:  ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: AS SHOWN ELECTRICAL	SHEET NO.: E - 2 20 / 22

GENERAL ELECTRICAL NOTES:

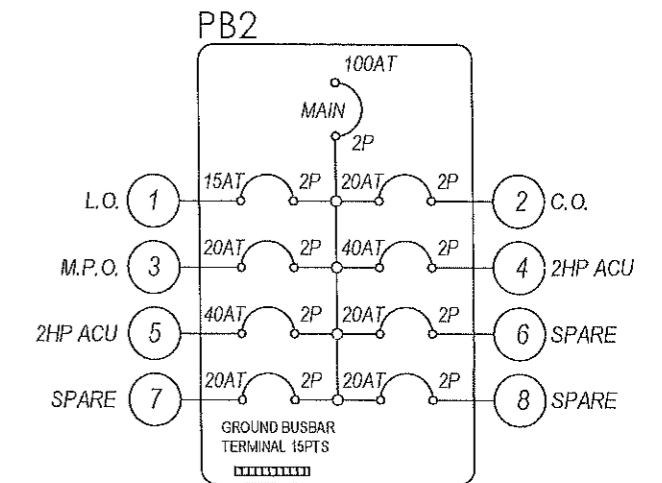
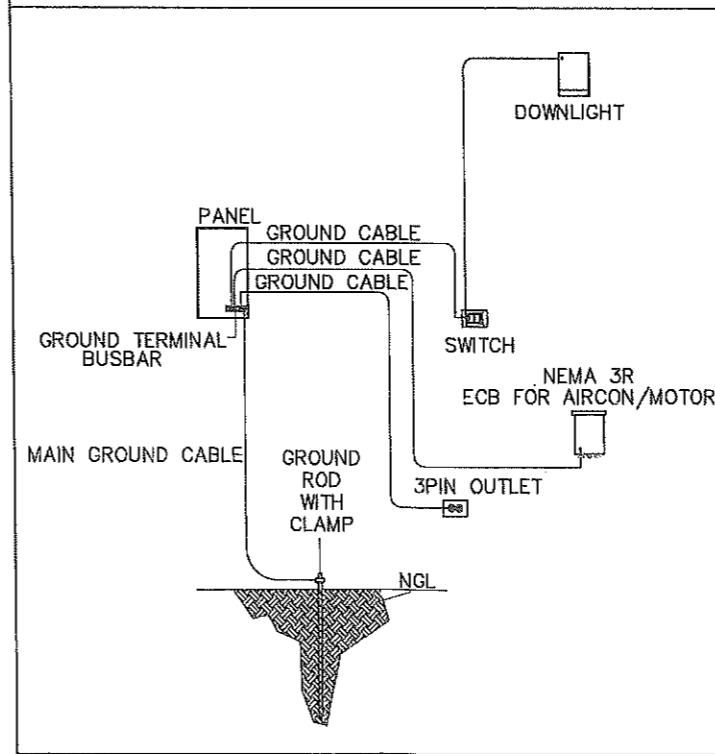
1. ALL ELECTRICAL INSTALLATION WORKS HEREIN SHALL BE DONE IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. THE APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE RULES AND REGULATIONS OF THE LOCAL ENFORCING AUTHORITY, AND THE REQUIREMENTS OF THE LOCAL POWER AND TELEPHONE COMPANIES. THE ELECTRICAL WORKS SHALL BE UNDER THE IMMEDIATE SUPERVISION OF A DULY LICENSED ELECTRICAL ENGINEER.
2. SERVICE FROM THE ELECTRIC POWER COMPANY SHALL BE 230V, 1PHASE, 60HZ
ALL INSTALLATIONS SHALL BE CONCEALED FROM VIEW BY INSTALLING CONDUCTORS IN PVC CONDUIT. POWER AND LIGHTING DISTRIBUTION EMBEDDED IN CONCRETE SHALL BE IN PVC CONDUITS. EXPOSED POWER AND LIGHTING DISTRIBUTION SHALL BE IN RSC CONDUITS, BY MEANS OF HANGERS
3. ALL WIRES SHALL BE COPPER AND THERMOPLASTIC INSULATED TYPE "THHN" UNLESS OTHERWISE INDICATED THE MINIMUM SIZE FOR POWER AND LIGHTING SHALL BE 3.5 sqmm WIRE
4. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF SERVICE ENTRANCE FOR CONNECTION TO THE POWER SUPPLY.
5. ALL RECEPTACLES SHALL BE OF THE GROUNDING TYPE.
6. ALL SERVICE ENTRANCE EQUIPMENT, SWITCHES, PANELBOARDS, LIGHTING FIXTURES AND ALL NON-CURRENT CARRYING METAL PARTS BE PROPERLY GROUNDING IN ACCORDANCE WITH THE PHILIPPINE ELECTRICAL CODE.
7. ALL PANELBOARDS SHALL BE PROVIDED WITH GROUNDING BUS. CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE AND OF THE THERMAL-MAGNETIC TYPE, COMMON TRIP WITH THE RATINGS AND NUMBER OF POLES AS INDICATED IN THE DRAWINGS.
8. THE MOUNTING HEIGHTS OF WIRING DEVICES SHALL BE AS FOLLOWS:
A) LIGHT SWITCHES 1.3M ABOVE FLOOR FINISH TO BOTTOM SWITCH.
B) CONVENIENCE OUTLETS 0.35M ABOVE FLOOR FINISH TO BOTTOM C.O.
C) TELEPHONE OUTLETS 0.35M ABOVE FLOOR FINISH TO BOTTOM T.O..
D) PANELBOARDS & CABINETS 1.8M ABOVE FLOOR FINISH AT TOP OF PANEL
9. ALL MOUNTING HEIGHTS SHALL BE SUBJECT TO ARCHITECTS APPROVAL PRIOR TO INSTALLATION.
10. WHENEVER NECESSARY PULL BOXES SHALL BE PROVIDED EVEN IF NOT INDICATED IN THE PLANS.
11. ALL ELECTRICAL WORKS SHALL BE DONE UNDER THE DIRECT AND IMMEDIATE SUPERVISION OF A DULY QUALIFIED LICENSED ELECTRICAL ENGINEER.
12. PROVIDE LIGHTNING ELECTRODE AND ARRESTER TO GROUND.
13. ONLY POWER SUPPLY SHALL BE PROVIDED FOR THE PROVISION OF AIRCON
14. THE 3 PHASE WIRE COLOR CODING SHALL BE AS FOLLOWS:
A) LINE 1 - RED
B) LINE 2 - YELLOW
C) LINE 3 - BLUE
D) GROUND - GREEN
15. THE FOLLOWING TEST SHALL BE DONE BEFORE ENERGIZATION THE ELECTRICAL SYSTEM
A) CONTINUITY TEST
B) INSULATION RESISTANCE TEST
C) EARTH RESISTANCE TEST
D) PHASE SEQUENCE TEST
E) FUNCTIONALITY TEST



SINGLE LINE DIAGRAM



DEDICATED GROUNDING SYSTEM (GROUND CABLE SIZE SEE LOAD SCHEDULE)



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LOAD CALCULATION

PANEL NAME: PB1 FEED FROM : UTILITY COMPANY SYSTEM : 230V, 1Ø, 2WIRE + GROUND, 60HZ		LIGHTING AND POWER LOAD CALCULATION									
CKT. NO.	DESCRIPTION	CONNECTED LOAD			OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS		
		V	VA	A	AT	AF	P	KA			
1	16-1 x 18W LED T8 LINEAR LIGHT, 14-1 x 12W LED DOWNLIGHT	230	456	1.98	15	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
2	7-1 x 180W DUPLEX CONVENIENCE OUTLET	230	1260	5.48	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
3	7-1 x 180W DUPLEX CONVENIENCE OUTLET	230	1260	5.48	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
4	MULTI-PURPOSE OUTLET	230	1000	4.35	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
5	2.0HP SPLIT TYPE ACU	230	2760	12.00	40	50	2	10	2-5.5mm ² THHN/THWN-2 LINE + 3.5mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
6	2.0HP SPLIT TYPE ACU	230	2760	12.00	40	50	2	10	2-5.5mm ² THHN/THWN-2 LINE + 3.5mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
7	2.0HP SPLIT TYPE ACU	230	2760	12.00	40	50	2	10	2-5.5mm ² THHN/THWN-2 LINE + 3.5mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
8	2.0HP SPLIT TYPE ACU	230	2760	12.00	40	50	2	10	2-5.5mm ² THHN/THWN-2 LINE + 3.5mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
9	SPARE	230	1500	6.52	20	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
10	SPARE	230	1500	6.52	20	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
TOTAL CONNECTED LOAD :		18016	78.33								
FEEDER LINE COMPUTATION: $I = (78.331 + (12 \times 0.25)) 100\% DF$ $I = 81.34 \text{ Amps}$		MAIN CIRCUIT BREAKER COMPUTATION: $I = (78.331 + (12 \times 1.5)) 100\% DF$ $I = 96.34 \text{ Amps}$		USE : 100AT/100AF, 2P, MCCB, 65KAIC 2-30mm ² THHN/THWN-2 (L) + 8.0mm ² THHN/THWN-2 (G) IN 40 mmØ PVC CONDUIT OR IN 32mmØ RSC CONDUIT							

LEGEND:

	1 x 18W LED T8 LINEAR LIGHT
	1 x 12W LED DOWNLIGHT
	1 x 12W LED OUTDOOR WALL LAMP
	DUPLEX CONVENIENCE OUTLET
	DUPLEX CONVENIENCE OUTLET (WEATHERPROOF)
	MULTI-PURPOSE OUTLET, COUNTERHEIGHT
	AIR CONDITIONING UNIT
	PANELBOARD
	HOME RUN
	S1, S2, S3 ONE GANG, TWO GANG AND THREE GANG SWITCH
	S3W THREE WAY SWITCH
	ECB, NEMA 3R

PANEL NAME: PB2 FEED FROM : UTILITY COMPANY SYSTEM : 230V, 1Ø, 2WIRE + GROUND, 60HZ		LIGHTING AND POWER LOAD CALCULATION									
CKT. NO.	DESCRIPTION	CONNECTED LOAD			OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS		
		V	VA	A	AT	AF	P	KA			
1	9-1 x 18W LED T8 LINEAR LIGHT, 7-1 x 12W LED DOWNLIGHT, 2-1 x 12W LED OUTDOOR WALL LAMP	230	270	1.17	15	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
2	8-1 x 180W DUPLEX CONVENIENCE OUTLET	230	1440	6.26	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
3	MULTI-PURPOSE OUTLET	230	1000	4.35	20	50	2	10	2-3.5mm ² THHN/THWN-2 LINE + 2.0mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
4	2.0HP SPLIT TYPE ACU	230	2760	12.00	40	50	2	10	2-5.5mm ² THHN/THWN-2 LINE + 3.5mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
5	2.0HP SPLIT TYPE ACU	230	2760	12.00	40	50	2	10	2-5.5mm ² THHN/THWN-2 LINE + 3.5mm ² THHN/THWN-2 GROUND IN 20 mm DIA. PVC CONDUIT or 15mm dia. EMT Conduit		
6	SPARE	230	1500	6.52	20	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
7	SPARE	230	1500	6.52	20	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
8	SPARE	230	1500	6.52	20	50	2	10	20mmØ PVC CONDUIT STUB-OUT		
TOTAL CONNECTED LOAD :		12730	55.35								
FEEDER LINE COMPUTATION: $I = (55.348 + (12 \times 0.25)) 100\% DF$ $I = 58.35 \text{ Amps}$		MAIN CIRCUIT BREAKER COMPUTATION: $I = (55.348 + (12 \times 1.5)) 100\% DF$ $I = 73.35 \text{ Amps}$		USE : 100AT/100AF, 2P, MCCB, 65KAIC 2-30mm ² THHN/THWN-2 (L) + 8.0mm ² THHN/THWN-2 (G) IN 40 mmØ PVC CONDUIT OR IN 32mmØ RSC CONDUIT							

PANEL NAME: MDP FEED FROM : UTILITY COMPANY SYSTEM : 230V, 1Ø, 2WIRE + GROUND, 60HZ		LIGHTING AND POWER LOAD CALCULATION									
CKT. NO.	DESCRIPTION	CONNECTED LOAD			OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS		
		V	VA	A	AT	AF	P	KA			
1	PB1	230	18016	78.33	100	100	2	65	2-30mm ² THHN/THWN-2 LINE + 8mm ² THHN/THWN-2 GROUND IN 40 mm DIA. PVC CONDUIT or 32mm dia. EMT Conduit		
2	PB2	230	12730	55.35	100	100	2	65	2-30mm ² THHN/THWN-2 LINE + 8mm ² THHN/THWN-2 GROUND IN 40 mm DIA. PVC CONDUIT or 32mm dia. EMT Conduit		
3	SPARE	230	3000	13.04	40	50	2	65	25mmØ PVC CONDUIT STUB-OUT		
4	SPARE	230	3000	13.04	40	50	2	65	25mmØ PVC CONDUIT STUB-OUT		
TOTAL CONNECTED LOAD :		36746	159.77								
FEEDER LINE COMPUTATION: $I = (159.766 + (12 \times 0.25)) 90\% DF$ $I = 146.49 \text{ Amps}$		MAIN CIRCUIT BREAKER COMPUTATION: $I = (159.766 + (12 \times 1.5)) 90\% DF$ $I = 159.99 \text{ Amps}$		USE : 160AT/225AF, 2P, MCCB, 85KAIC 2-60mm ² THHN/THWN-2 (L) + 14mm ² THHN/THWN-2 (G) IN 63 mmØ PVC CONDUIT OR IN 50mmØ RSC CONDUIT							

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