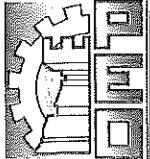
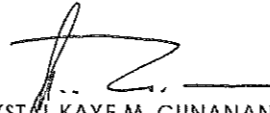
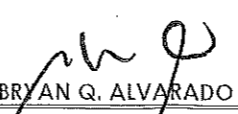


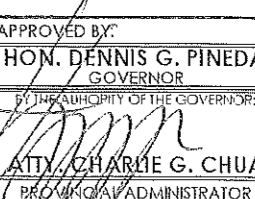
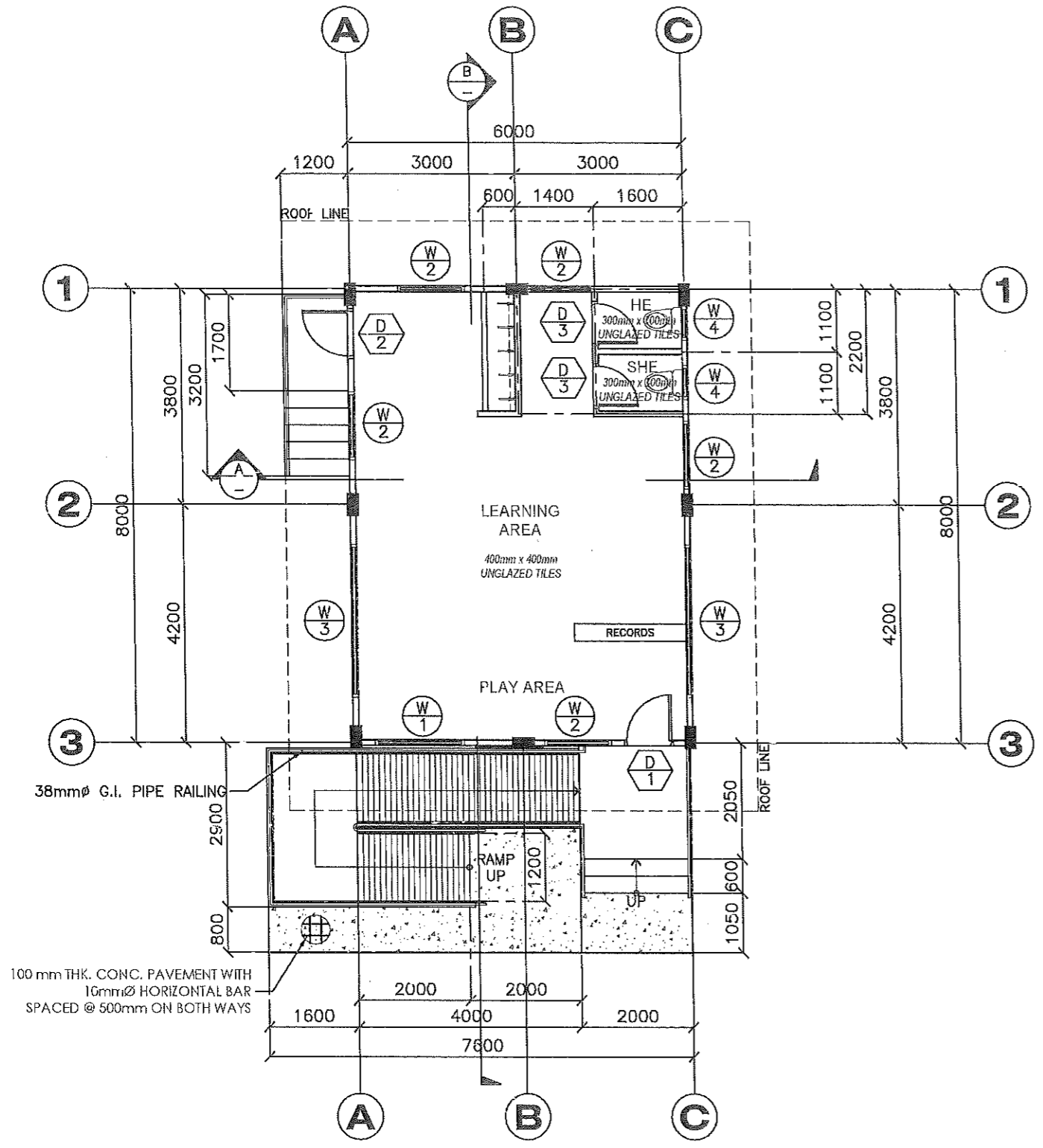


PERSPECTIVE

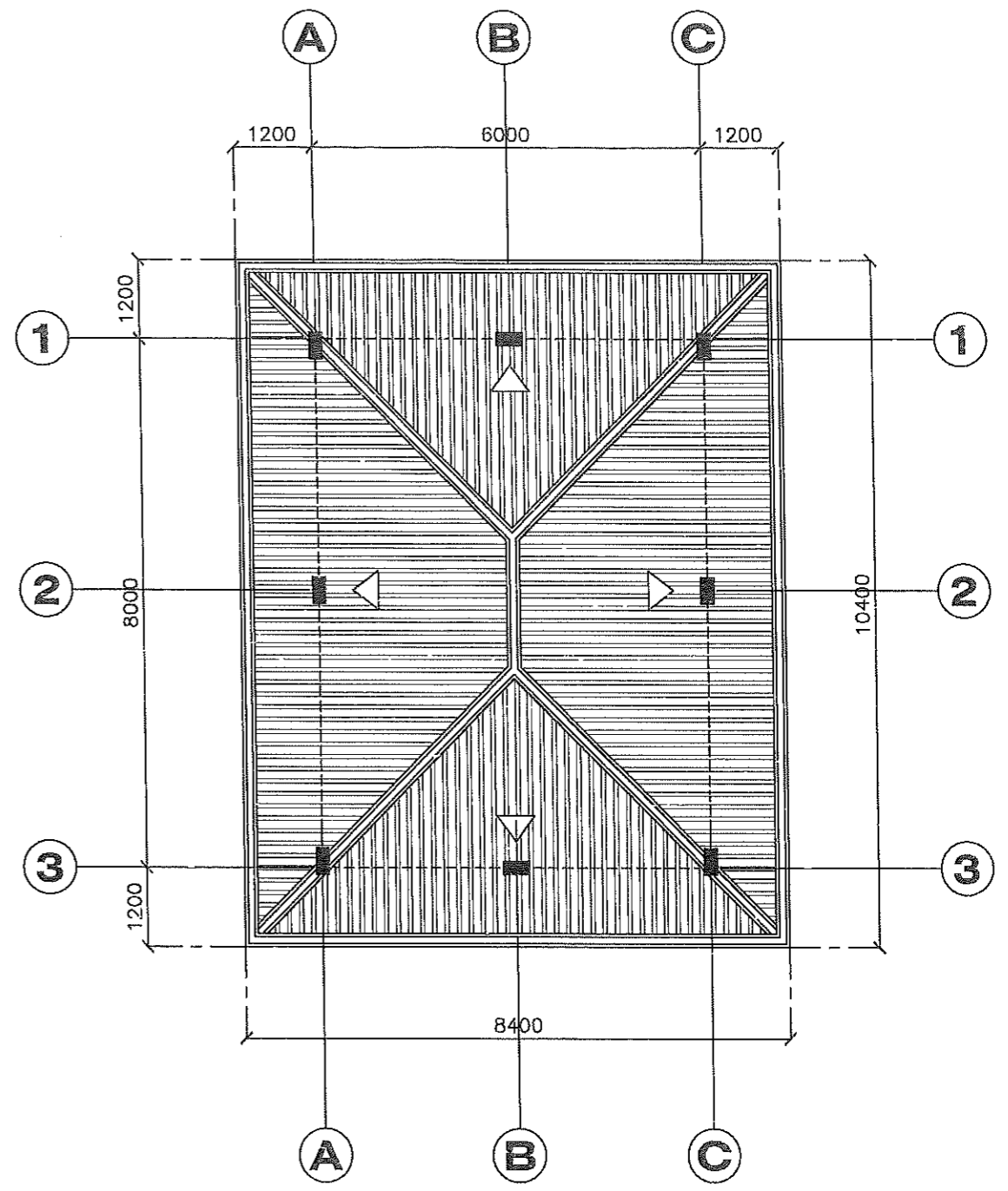


VICINITY MAP

	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 OF CHILD DEVELOPMENT CENTER LOCATION: SAN ROQUE, GUAGUA, PAMPANGA	 CRYSTAL KAYE M. CUNANAN ENGINEER II	 BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	 WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	 OLIMPIO M. FANGAN PROVINCIAL ENGINEER	 HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN ARCHITECTURAL	A - 1 01 / 13

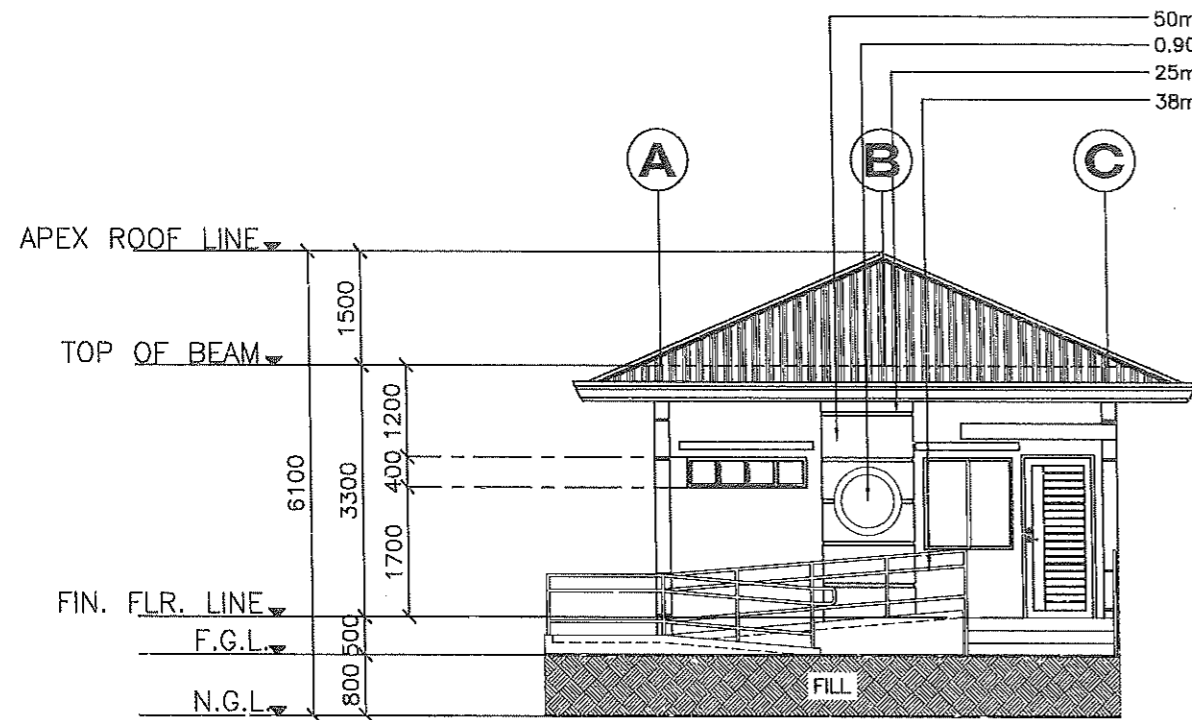


FLOOR PLAN
SCALE: 1:100 MTS.

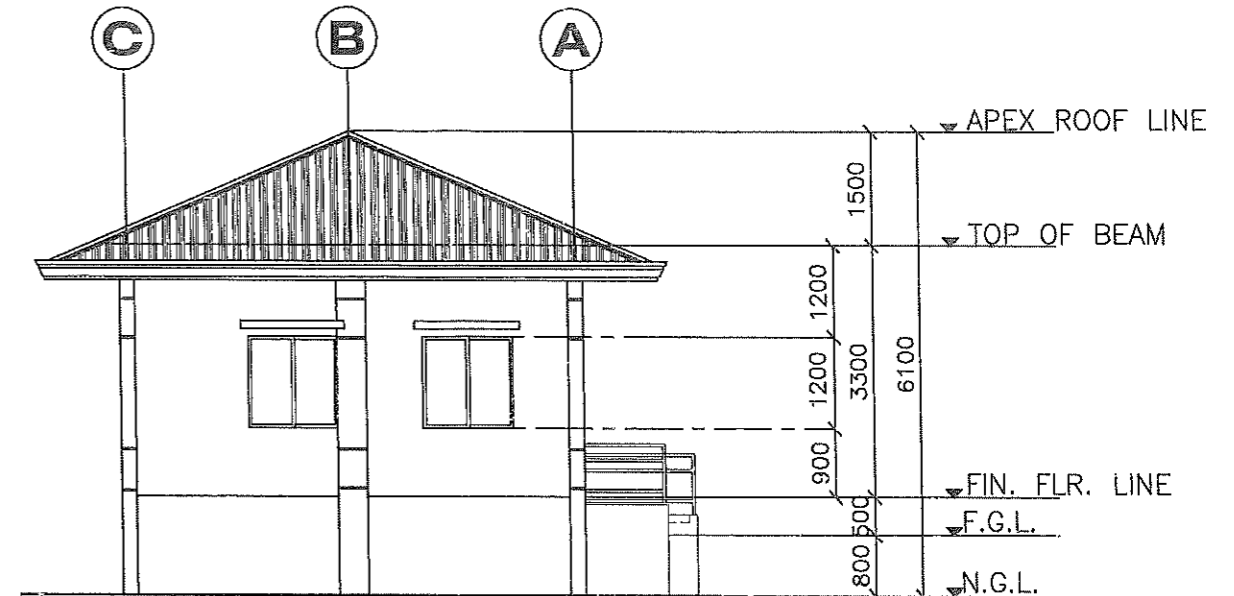


ROOF PLAN
SCALE: 1:100 MTS.

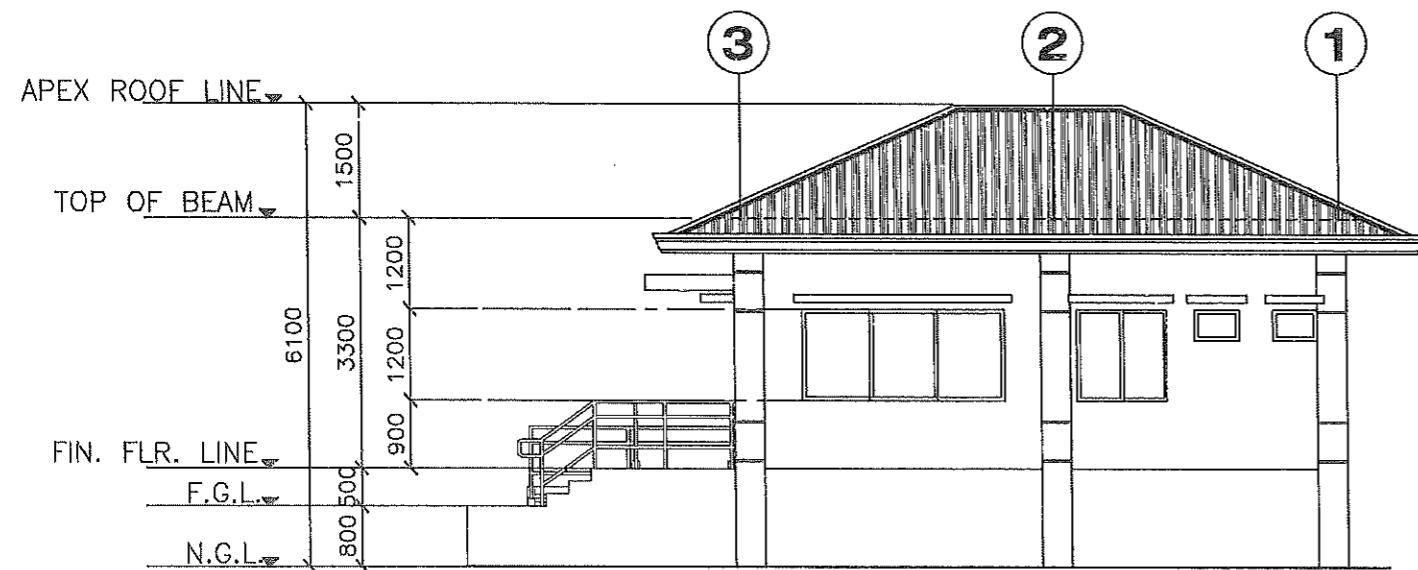
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF CHILD DEVELOPMENT CENTER	 CRYSTAL KAYE M. CUNANAN ENGINEER II	 BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	 WENCESLAO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	 OLIMPIO M. PANGAN PROVINCIAL ENGINEER	 HON. DENNIS G. PINEDA GOVERNOR BY THE ASSISTANT PROVINCIAL ENGINEER: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN	A - 2
	LOCATION: SAN ROQUE, GUAGUA, PAMPANGA							ARCHITECTURAL	02 / 13



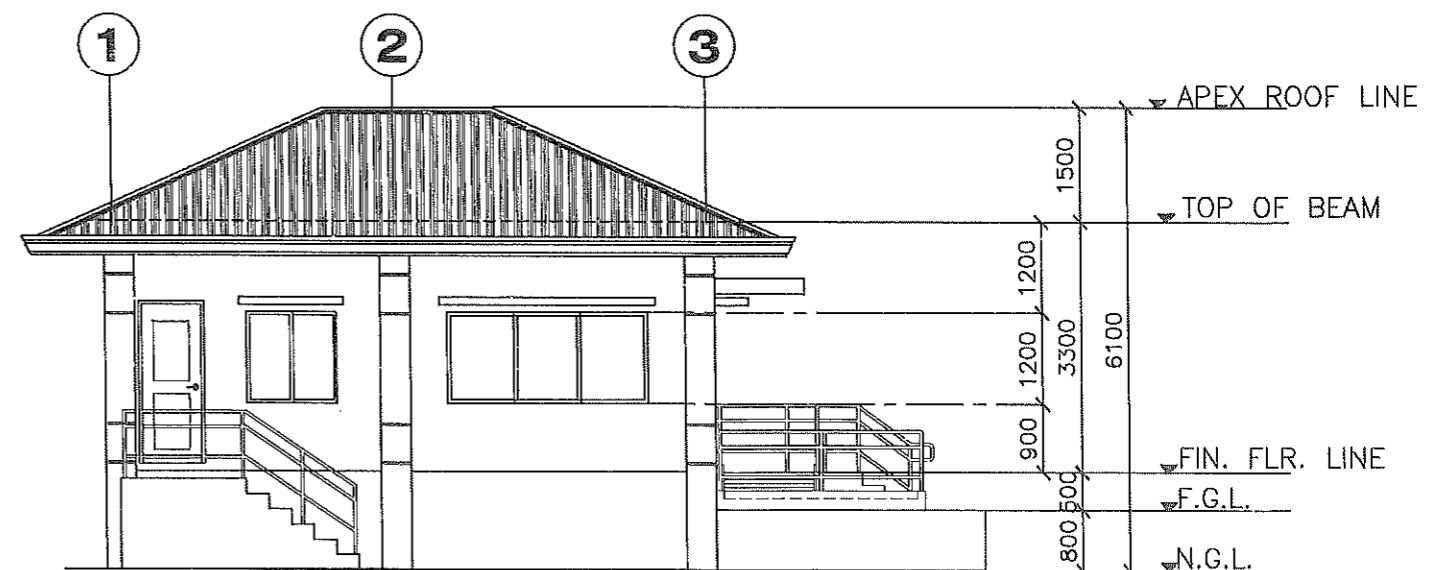
FRONT ELEVATION
SCALE: 1:100 MTS.



REAR ELEVATION
SCALE: 1:100 MTS.

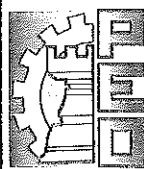




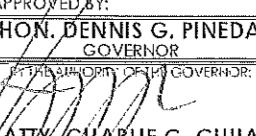


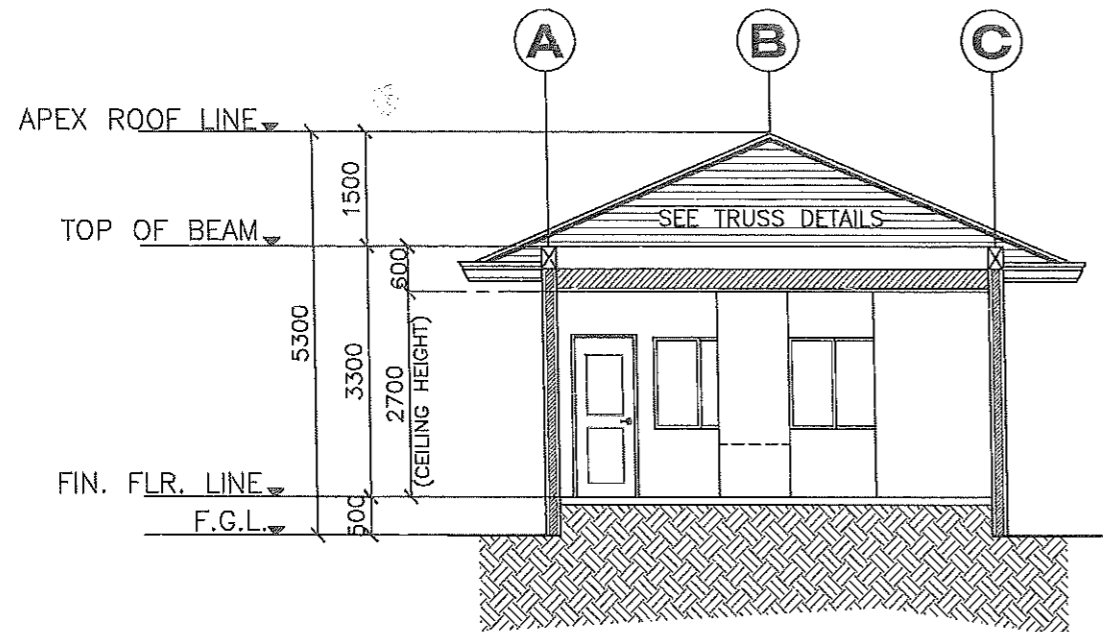
RIGHT SIDE ELEVATION
SCALE: 1:100 MTS.



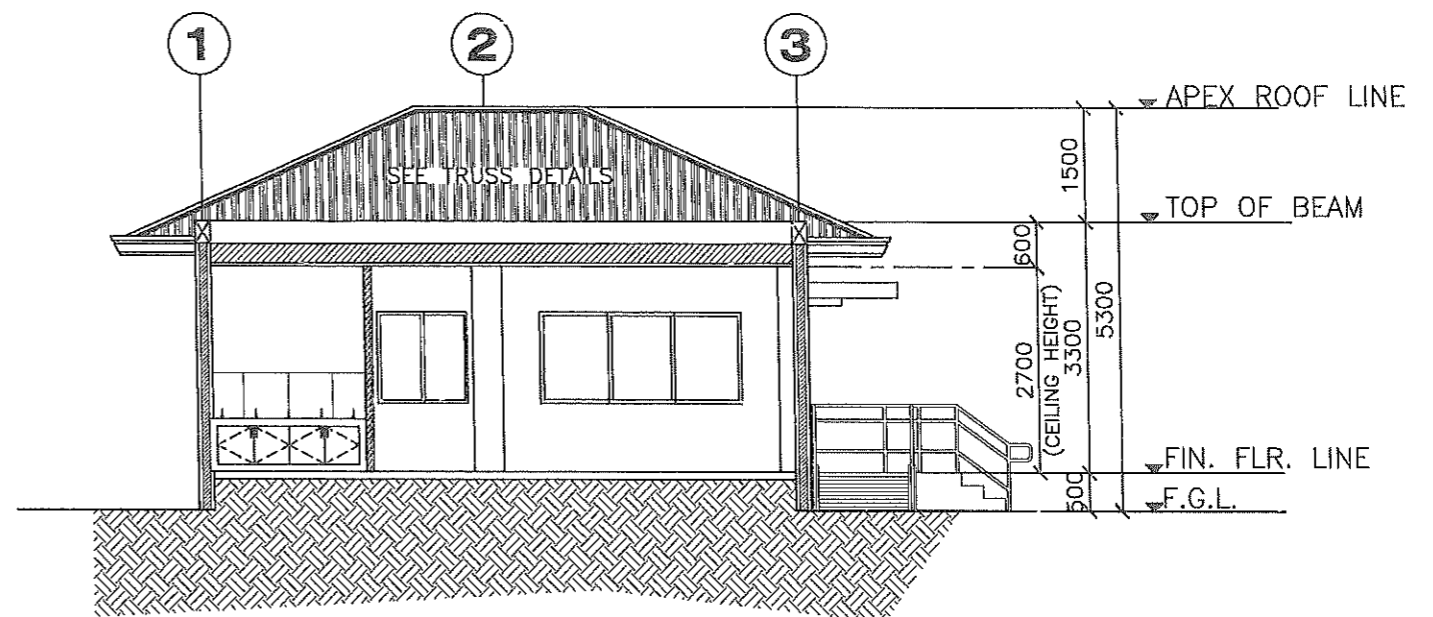
LEFT SIDE ELEVATION
SCALE: 1:100 MTS.

- 50mm THK. PLASTERED PAINTED CEMENT FINISH ON G.I. WIRE MESH
- 0.90m ϕ PROVINCIAL LOGO
- 25mm GROOVES
- 38mm ϕ G.I. PIPE RAILING PAINTED FINISH

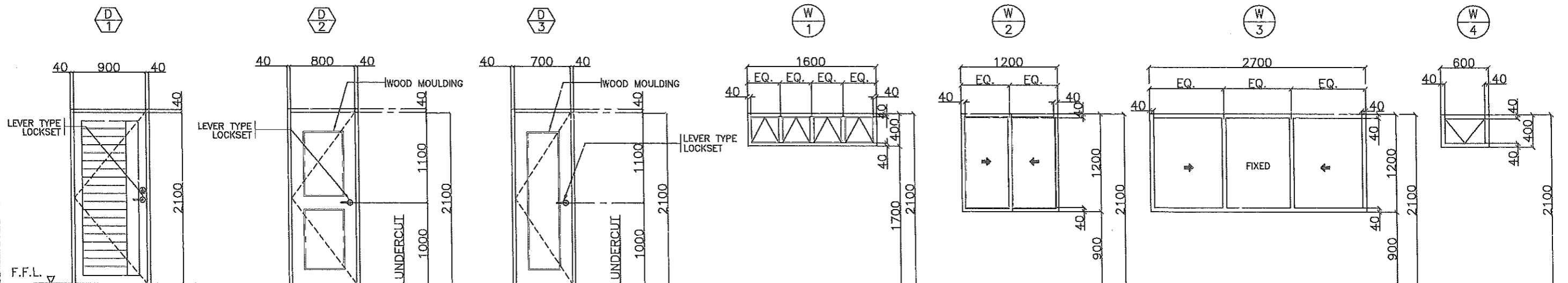
FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
 REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF CHILD DEVELOPMENT CENTER LOCATION: SAN ROQUE, GUAGUA, PAMPANGA	 CRYSTAL KAYE M. CUNANAN ENGINEER II	 BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	 WILFREDO A. MANAHI ASSISTANT PROVINCIAL ENGINEER	 OLIMPIO M. PANGAN PROVINCIAL ENGINEER	 HON. DENNIS G. PINEDA GOVERNOR <small>OFFICE OF THE GOVERNOR</small> ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN	A - 3 03 / 13



CROSS SECTION
SCALE: 1:100 MTS.



LONGITUDINAL SECTION
SCALE: 1:100 MTS.



D1: DECORATIVE SINGLE SWING
PANEL DOOR W/ G.I. JAMB
COMPLETE W/ HARDWARE &
ACCESSORIES
(1 = SET)

D2: WOOD PANEL SWING DOOR W/
G.I. JAMB COMPLETE W/ HARDWARE
& ACCESSORIES
(1 = SET)

D3: WOOD PANEL SWING DOOR W/
G.I. JAMB COMPLETE W/ HARDWARE
& ACCESSORIES
(2 = SETS)

W1: 1/4" THK GLASS PANELS
ON ANALOC FRAME
AWNING WINDOWS WITH
SCREEN
(1 = SET)

W2: 1/4" THK GLASS PANELS ON
ANALOC FRAME SLIDING
WINDOWS WITH SCREEN
(4 = SETS)

W3: 1/4" THK GLASS PANELS ON
ANALOC FRAME SLIDING
WINDOWS WITH SCREEN
(3 = SETS)

W4: 1/4" THK GLASS PANELS
ON ANALOC FRAME
AWNING WINDOWS WITH
SCREEN
(2 = SETS)

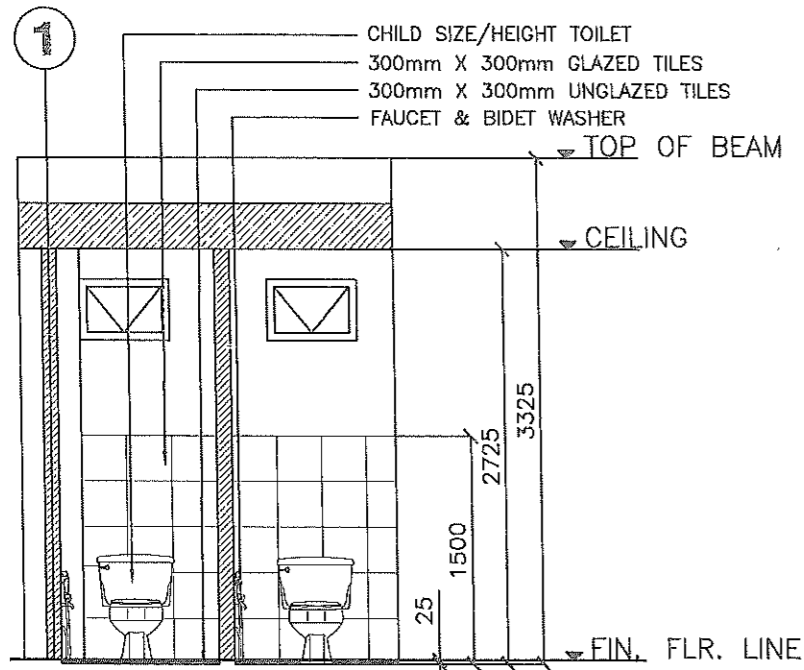
NOTE: PROVIDE SCREEN

NOTE: PROVIDE SCREEN

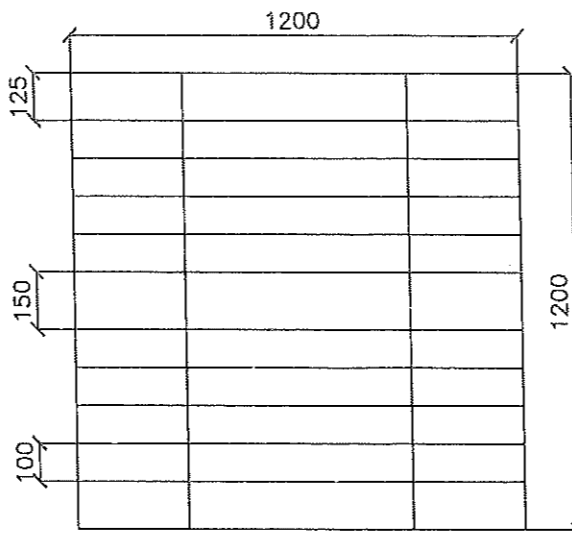
SCHEDULE OF DOORS AND WINDOWS

SCALE: 1:50 MTS.

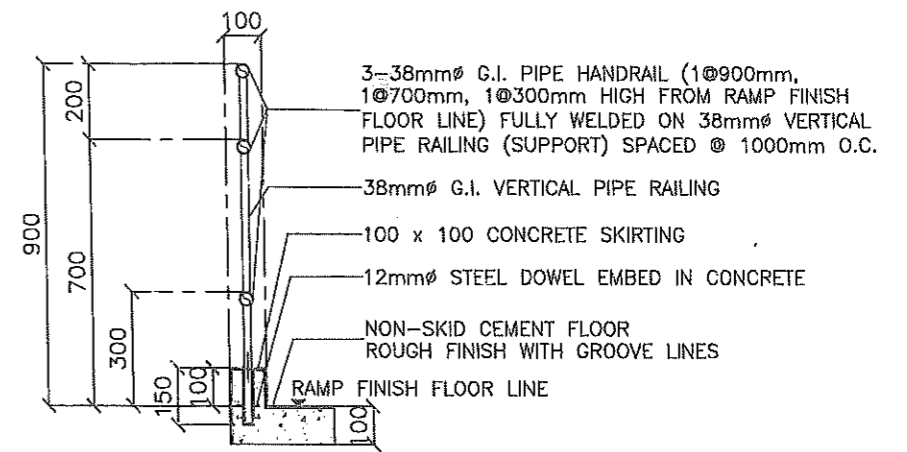
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF CHILD DEVELOPMENT CENTER LOCATION: SAN ROQUE, GUAGUA, PAMPANGA	CRYSTAL KAYE M. CUNANAN ENGINEER II	BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR <small>BY THE AUTHORITY OF THE GOVERNOR:</small> ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN	A - 4 04 / 13



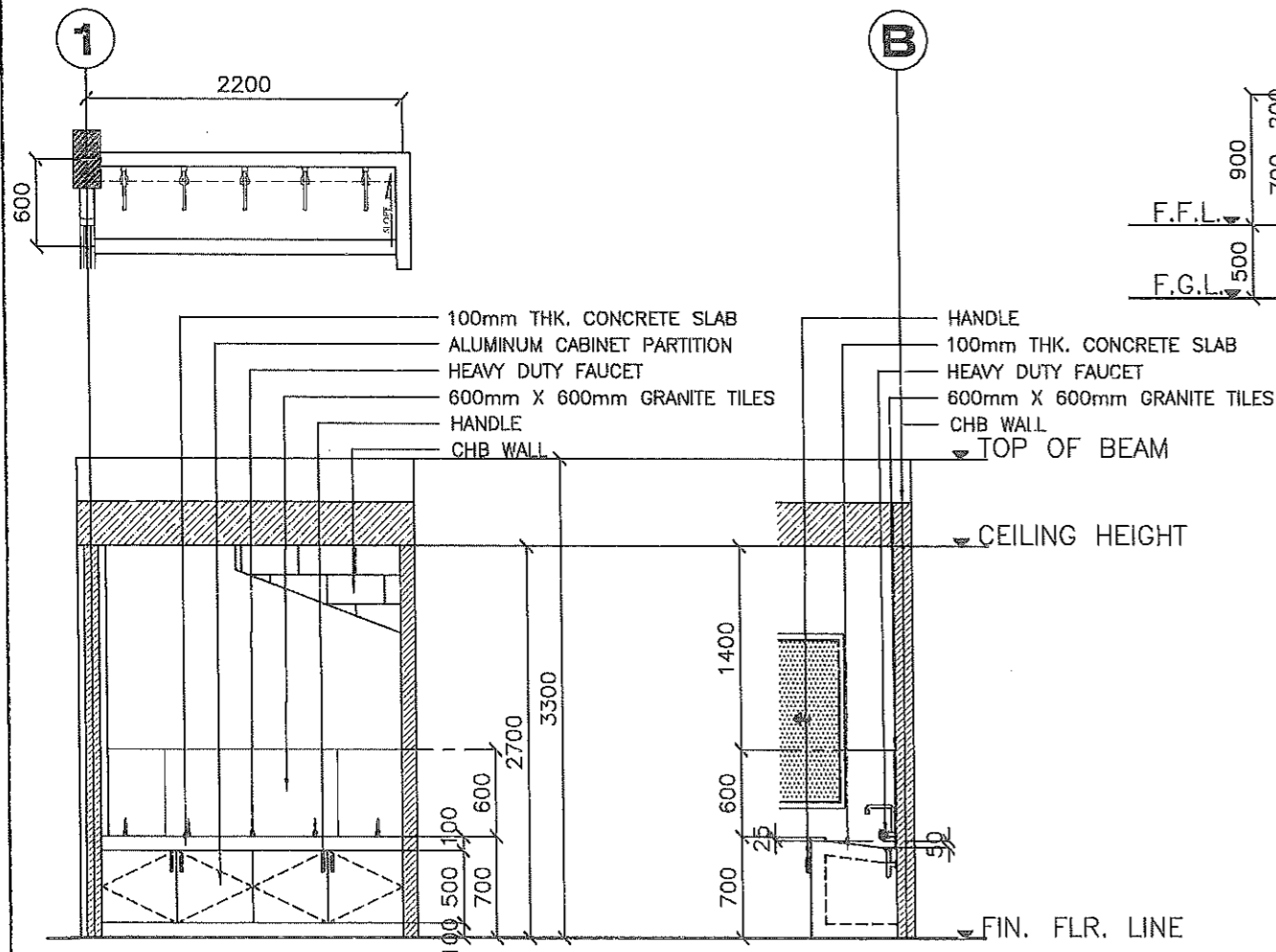
ELEVATION OF HE & SHE TOILET
SCALE: 1:50 MTS.



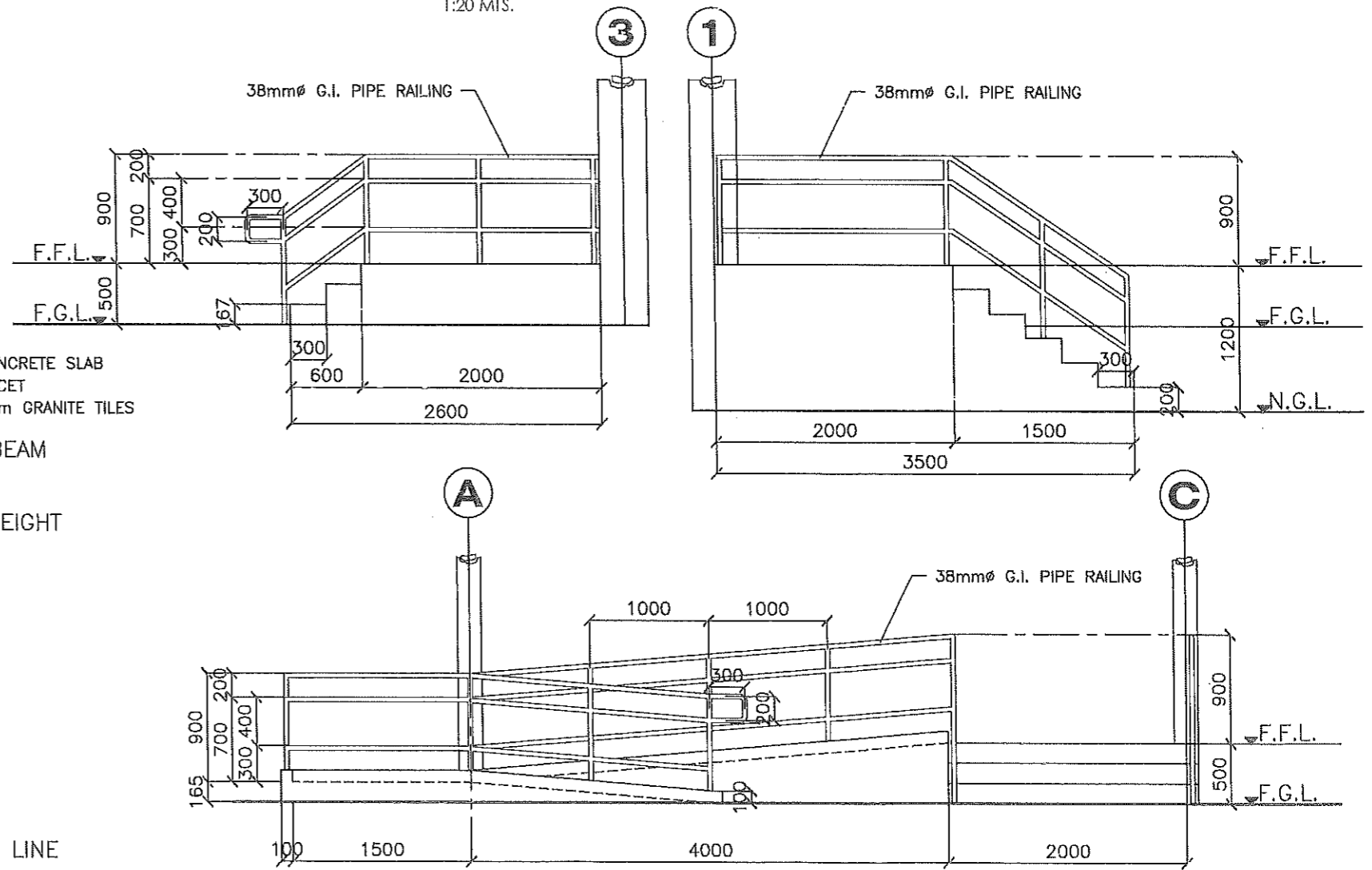
12mm SQUARE BARS ON 37.5mm x 4.5mm THICK FLATBAR FRAME
TYPICAL WINDOW GRILLES DETAILS
SCALE: 1:20 MTS.



DETAIL SECTION OF RAILINGS
SCALE: 1:20 MTS.

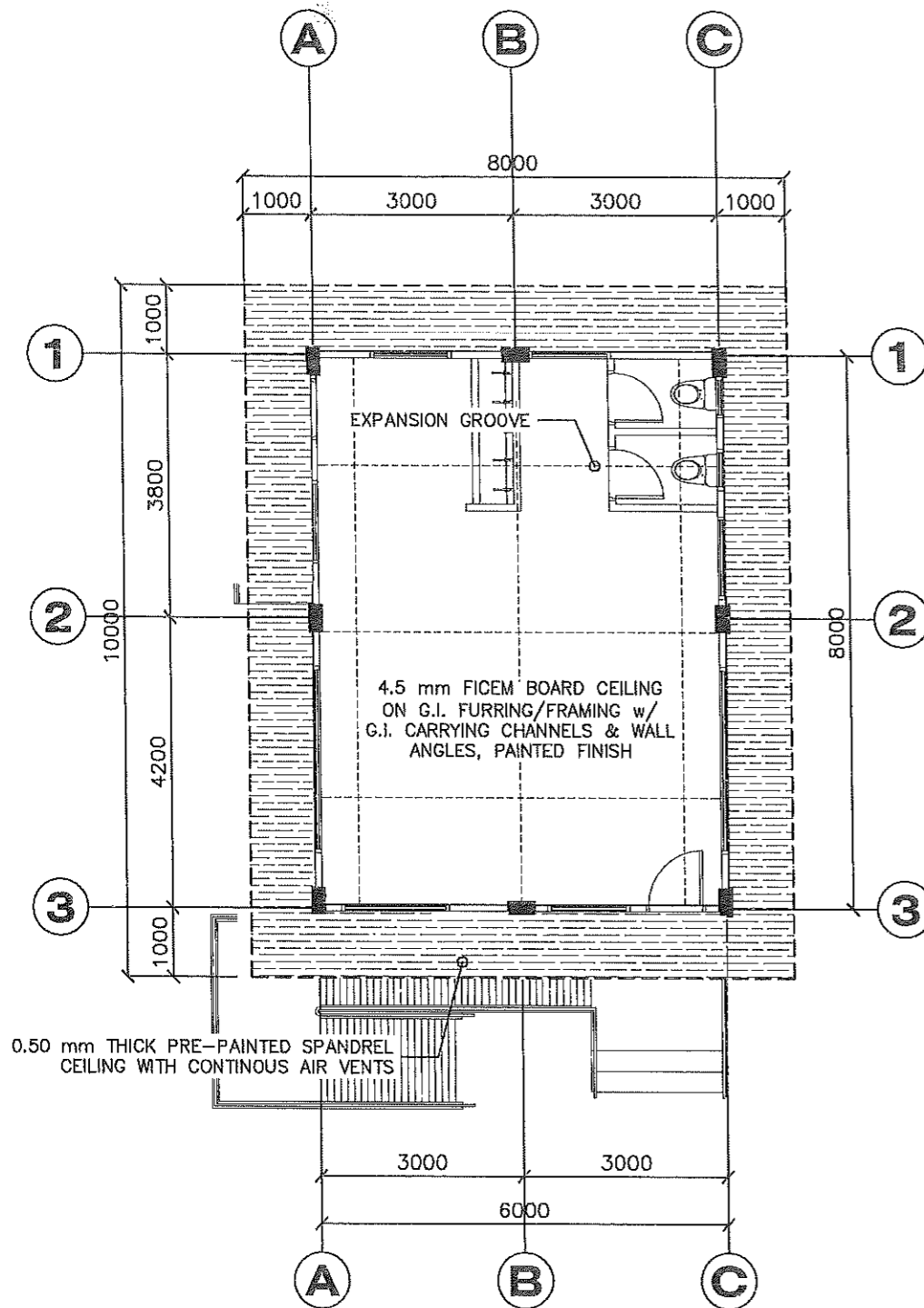


HAND WASHING AREA DETAILS
SCALE: 1:50 MTS.

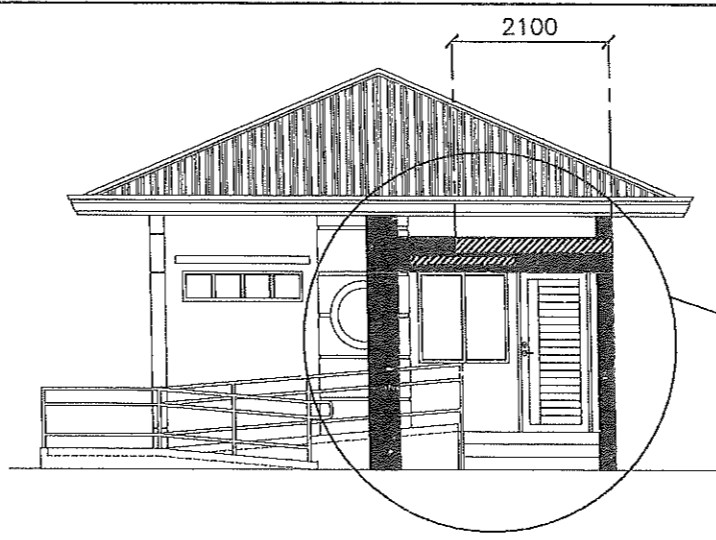


DETAIL ELEVATION OF RAMP AND STAIRS
SCALE: 1:50 MTS.

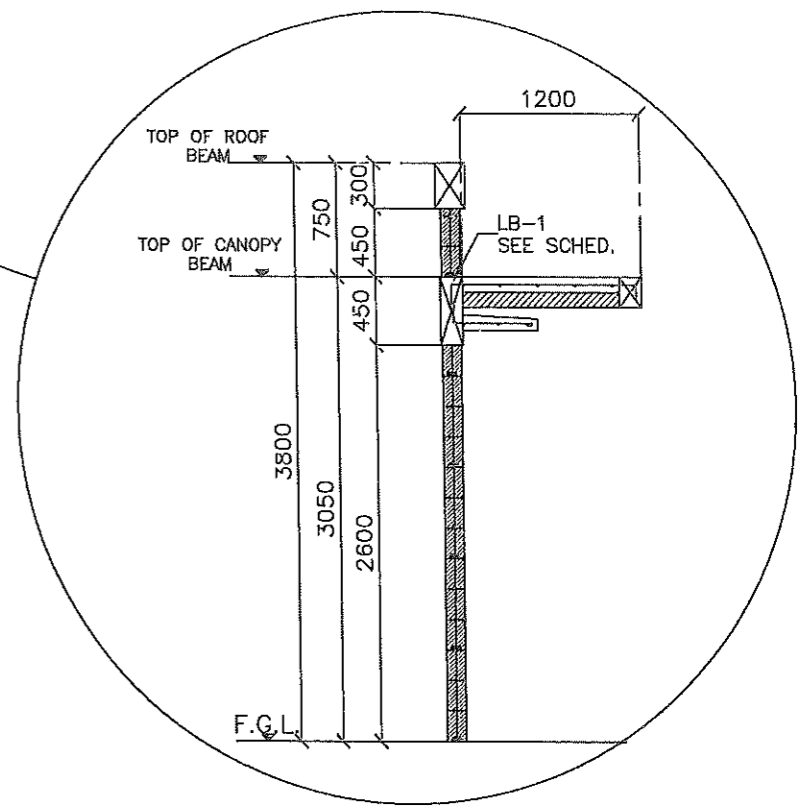
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF CHILD DEVELOPMENT CENTER LOCATION: SAN ROQUE, GUAGUA, PAMPANGA	CRYSTAL KAYE M. CUNANAN ENGINEER II	BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	OLAMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN ARCHITECTURAL	A - 5 05 / 13



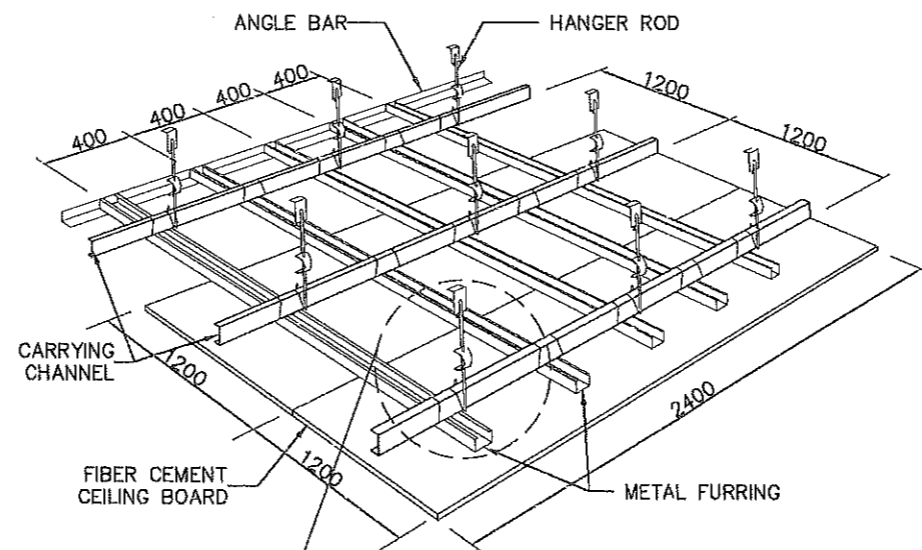
CEILING PLAN
SCALE: 1:100 MTS.



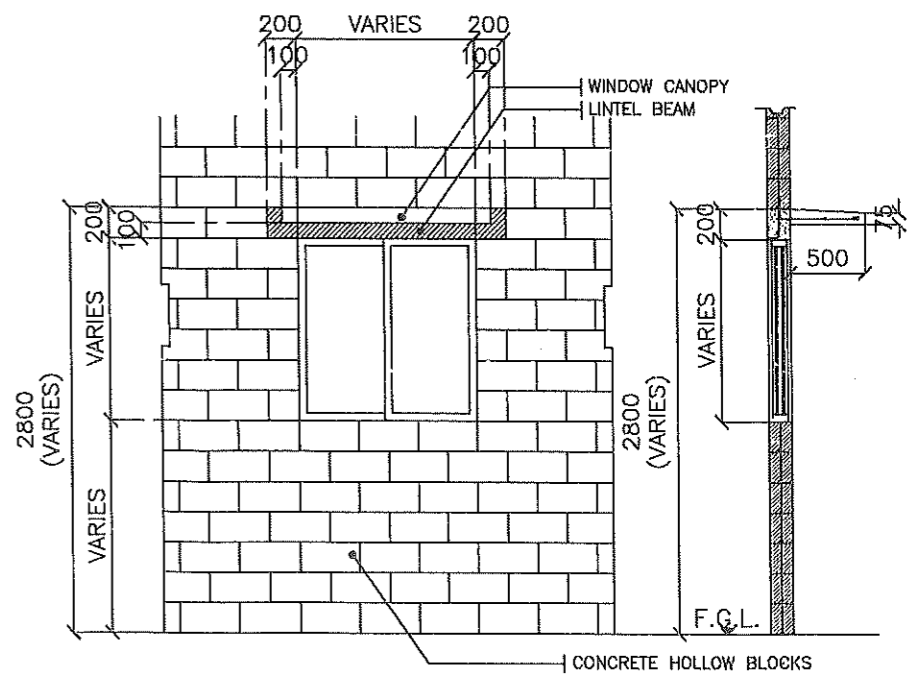
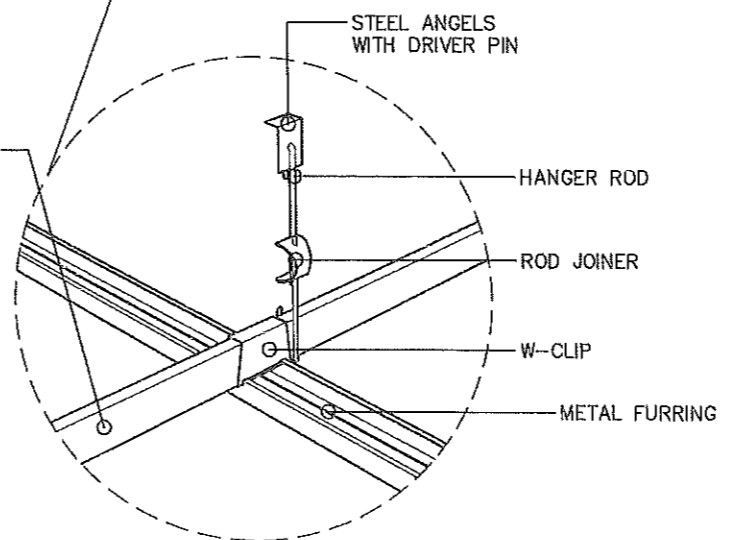
FRONT ELEVATION (KEY PLAN)
SCALE: NTS.



FRONT CANOPY DETAIL
SCALE: 1:50 MTS.

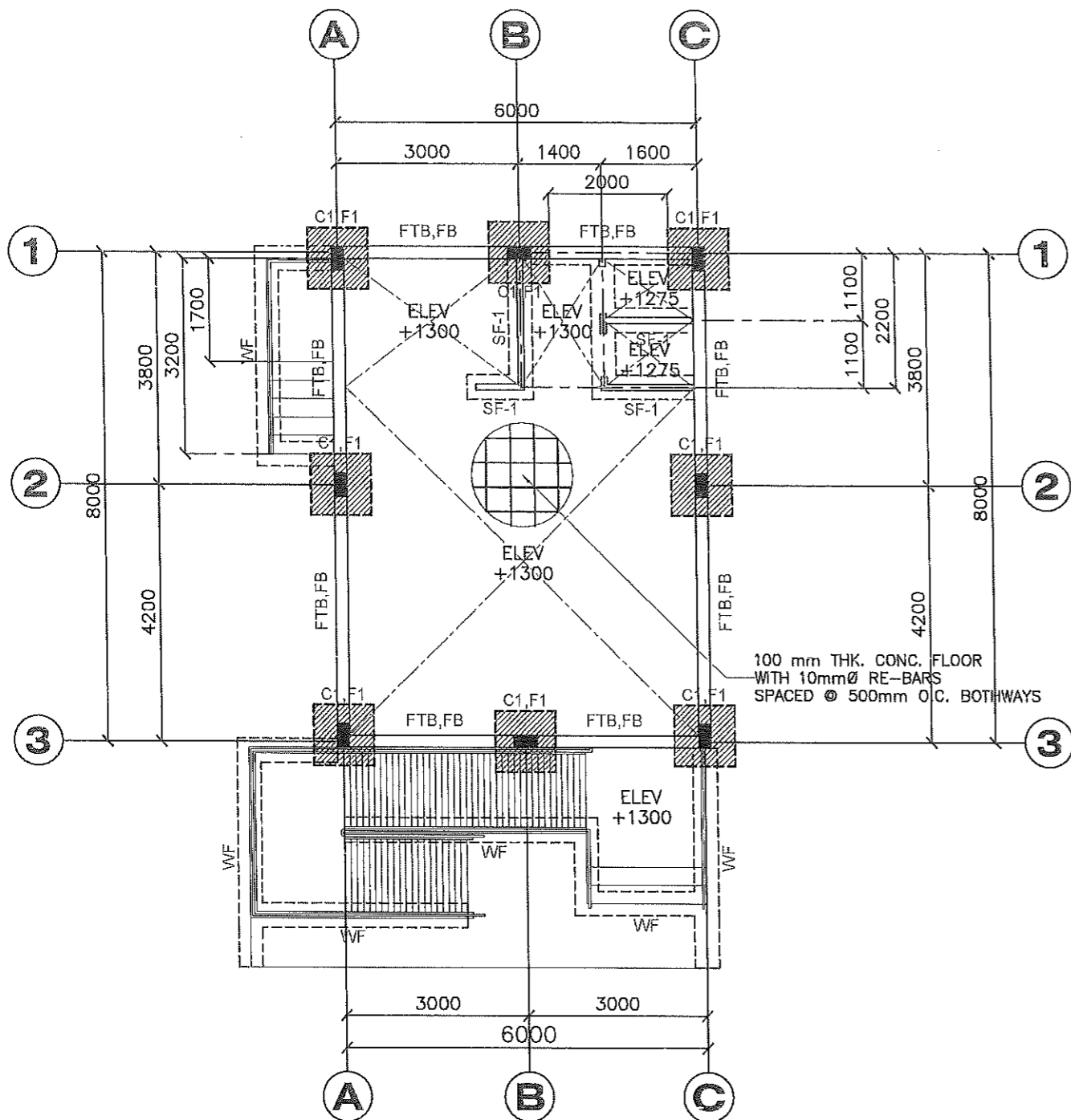


DETAILS OF CEILING
SCALE: NTS.

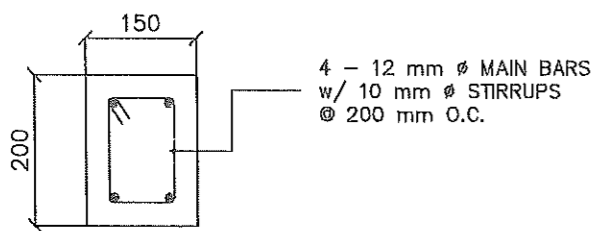


WINDOW CANOPY DETAIL
SCALE: 1:50 MTS.

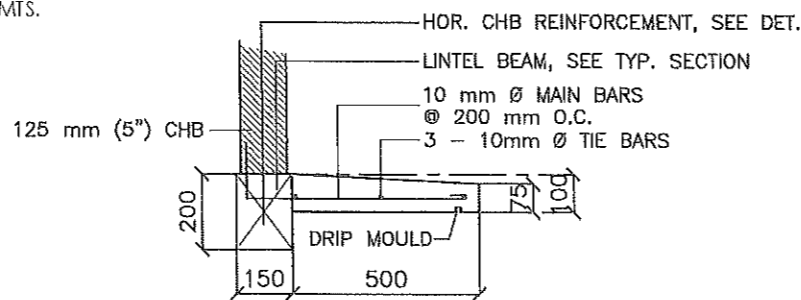
	FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF CHILD DEVELOPMENT CENTER	 CRYSTAL KAYE M. CUNANAN ENGINEER II	 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
	LOCATION: SAN ROQUE, GUAGUA, PAMPANGA							ARCHITECTURAL	06 / 13



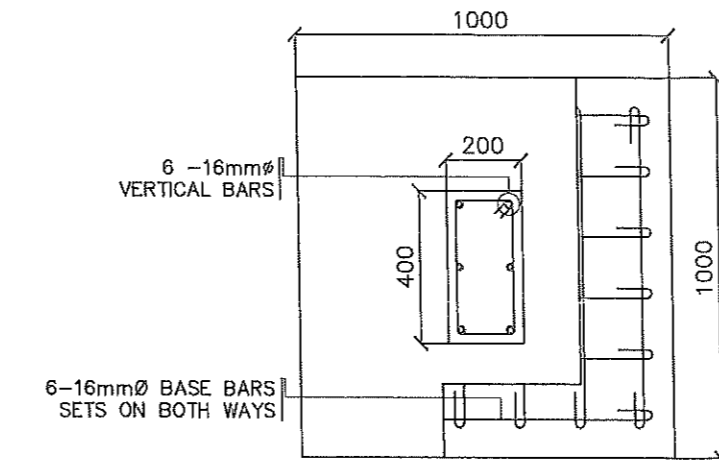
FOUNDATION PLAN
SCALE: 1:100 MTS.



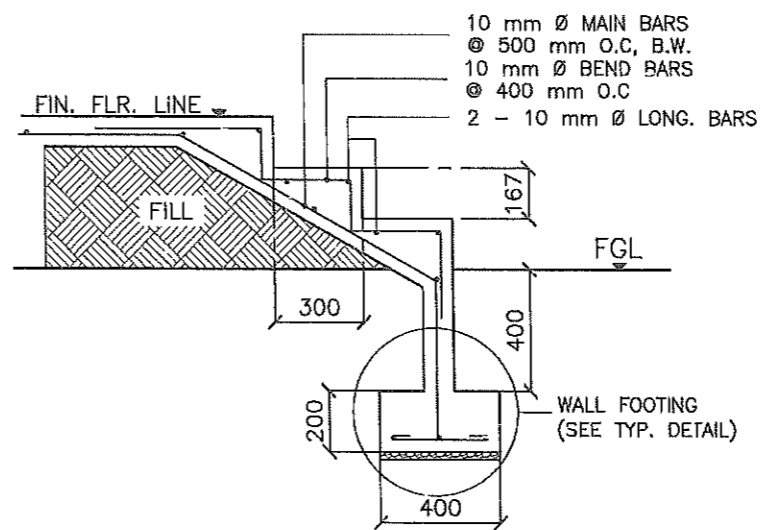
LINTEL BEAM DETAIL (TYP.)
SCALE: 1:10 MTS.



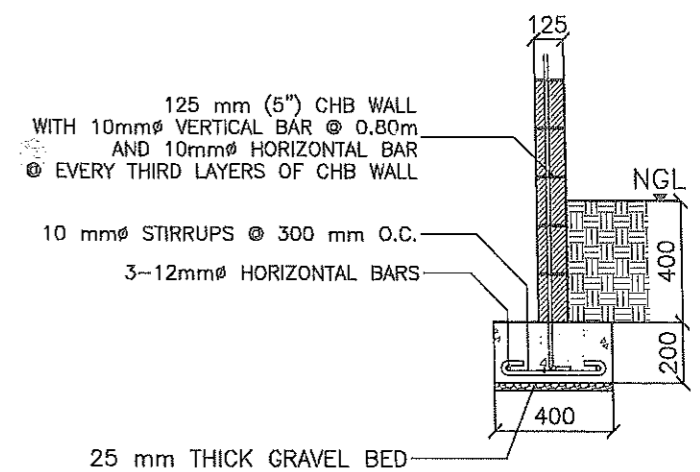
WINDOW CANOPY DETAIL (TYP.)
SCALE: 1:20 MTS.



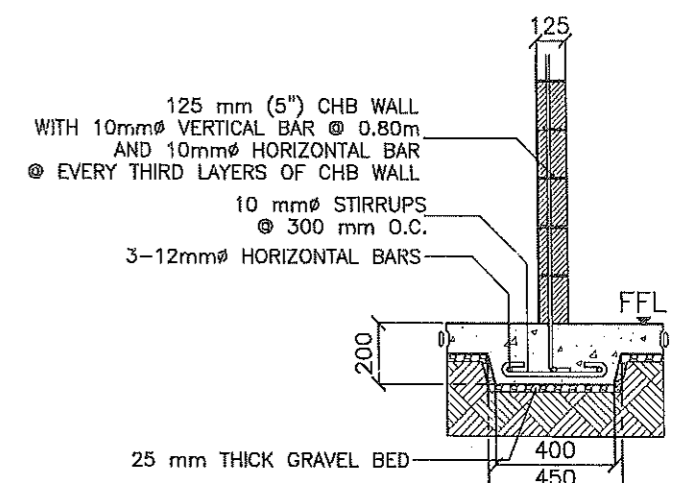
C1F1 PLAN
SCALE: 1:20 MTS.



GROUND STAIRS DETAIL
SCALE: 1:25 MTS.

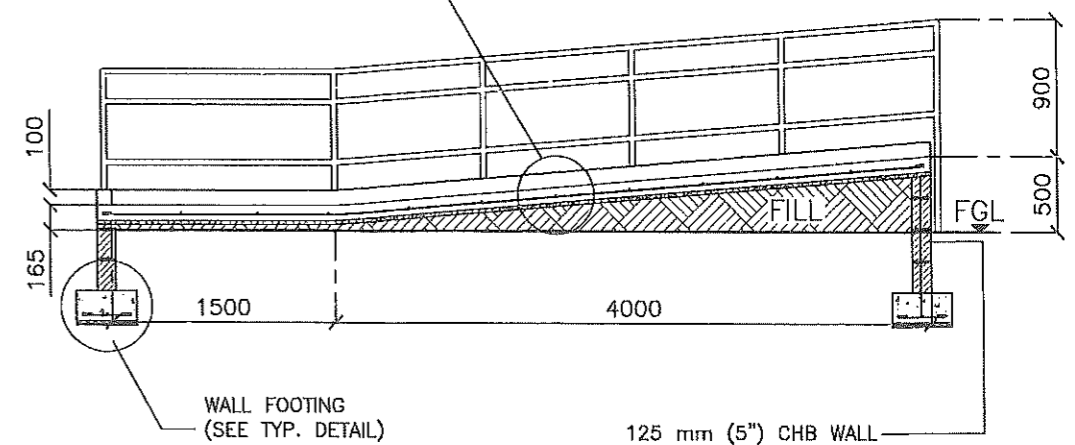


WALL FOOTING DETAIL
SCALE: 1:25 MTS.



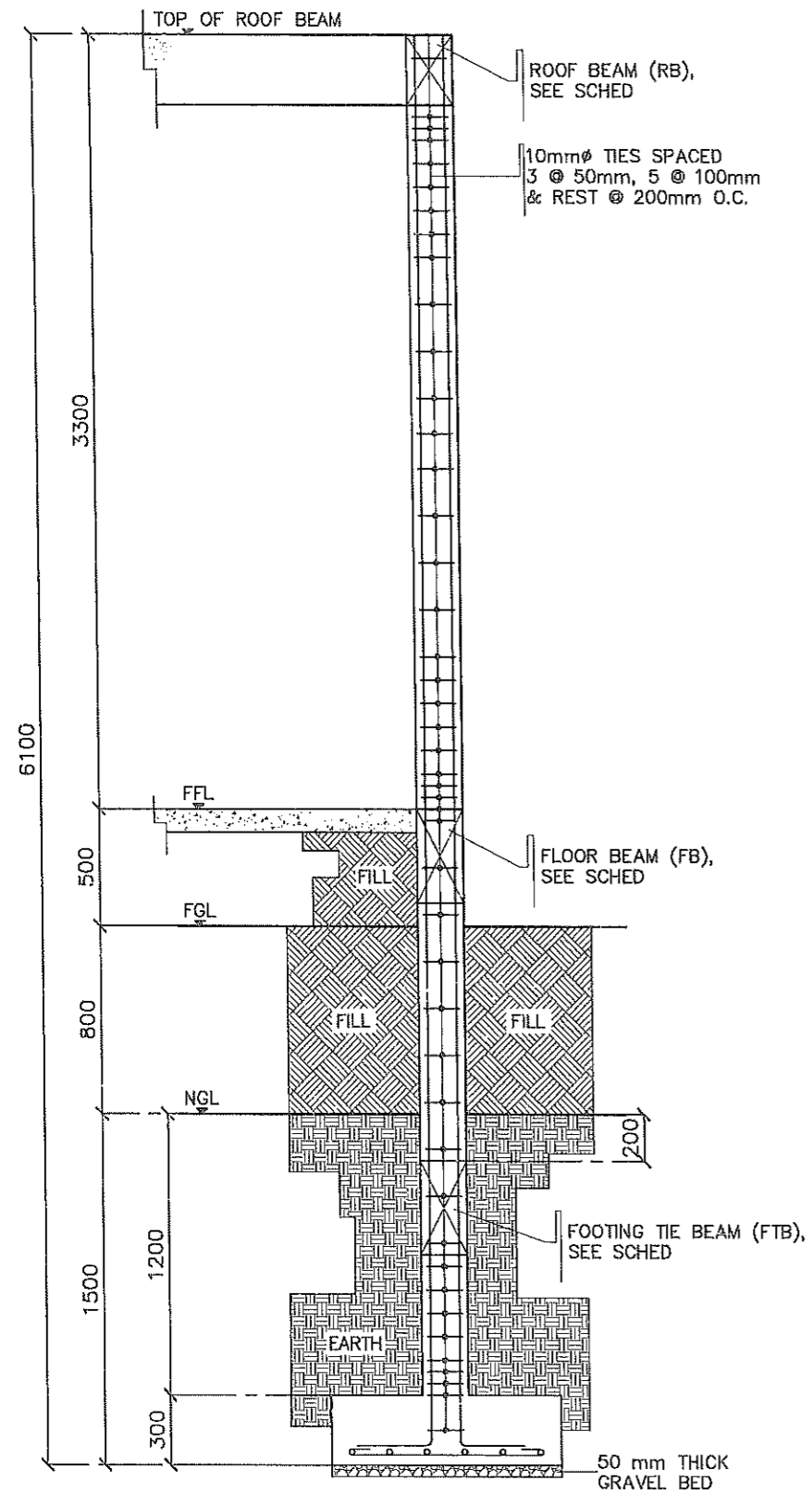
SLAB FOOTING DETAIL
SCALE: 1:25 MTS.

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



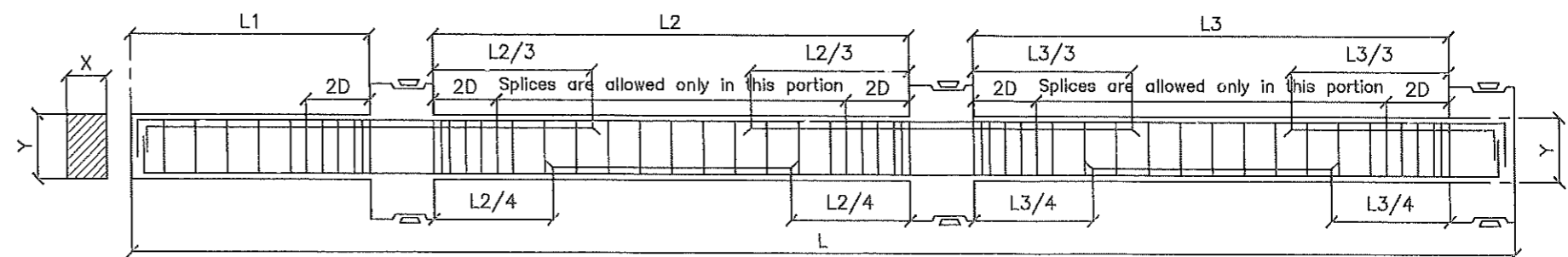
DETAIL SECTION OF RAMP
SCALE: 1:50 MTS.

FROM THE OFFICE OF:	PROJECT TITLE:	PREPARED BY:	CHECKED BY:	VERIFIED & SUBMITTED BY:	RECOMMENDING APPROVAL:	APPROVED BY:	SHEET CONTENTS:	SHEET NO.:
<p>REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)</p>	<p>CONSTRUCTION OF CHILD DEVELOPMENT CENTER LOCATION: SAN ROQUE, GUAGUA, PAMPANGA</p>	<p>CRYSTAL KAYE M. CUNANAN ENGINEER II</p>	<p>BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD</p>	<p>WILFREDO A. MANALIT ASSISTANT PROVINCIAL ENGINEER</p>	<p>OLIMPIO M. PANGAN PROVINCIAL ENGINEER</p>	<p>HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR</p>	AS SHOWN	S - 1
							STRUCTURAL	07 / 13



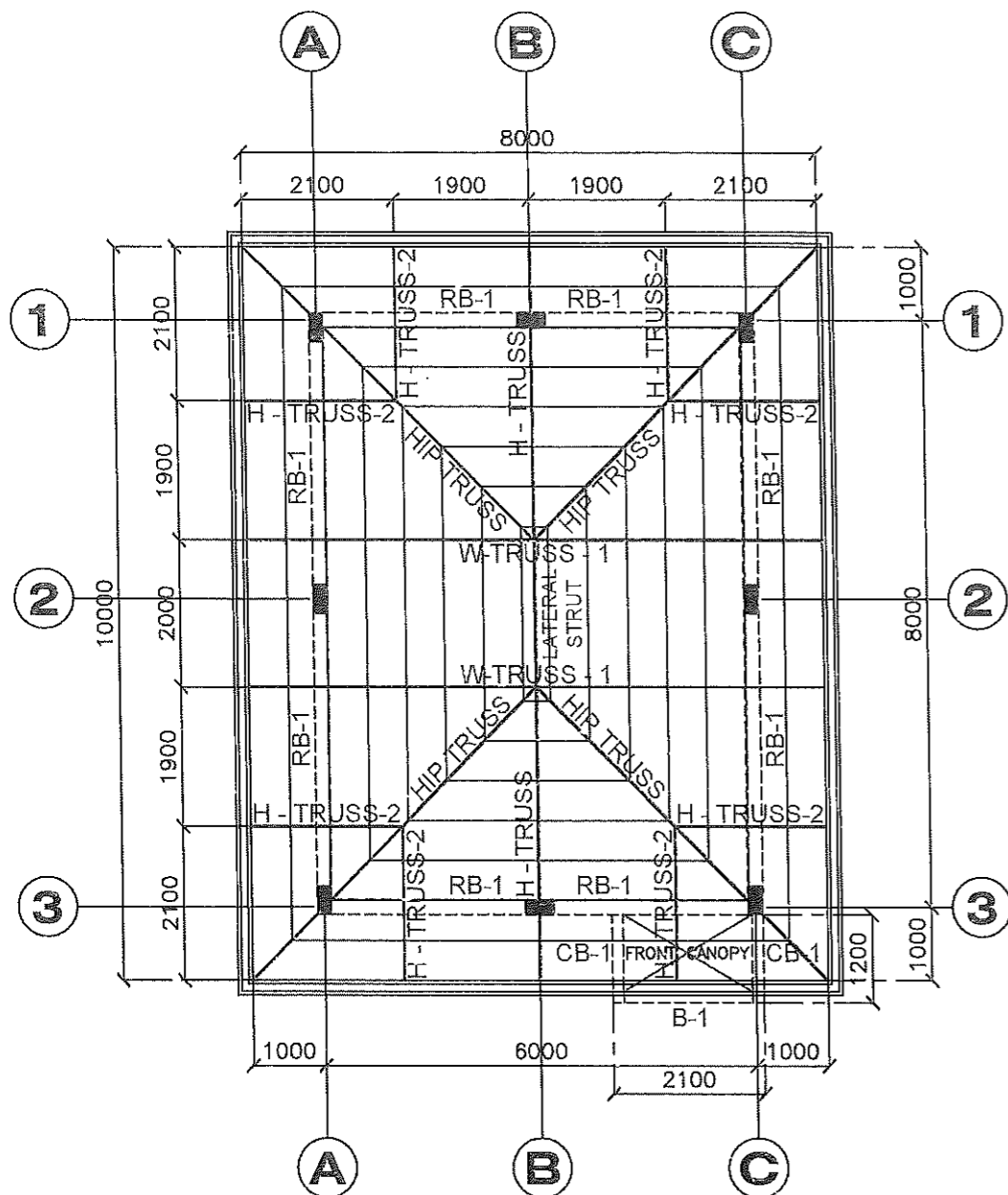
FULL BAY SECTION
SCALE: 1:30 MTS.

SCHEDULE OF BEAMS									
BEAM MARK	SIZE		MAIN REINFORCEMENTS (GR.40)						10 mm Ø STIRRUPS SPACING
	X(mm)	Y(mm)	LEFT SUPPORT		MIDSPAN		RIGHT SUPPORT		
			TOP BAR BOT. BAR	SECTION	TOP BAR BOT. BAR	SECTION	TOP BAR BOT. BAR	SECTION	
FTB	200	400	3-16mm Ø 3-16mm Ø		3-16mm Ø 3-16mm Ø		3-16mm Ø 3-16mm Ø		2 @ 50 mm 4 @ 100 mm & REST @ 200 mm
FB	200	400	2-16mm Ø 2-16mm Ø		2-16mm Ø 2-16mm Ø		2-16mm Ø 2-16mm Ø		2 @ 50 mm 4 @ 100 mm & REST @ 200 mm
RB-1	200	300	3-12mm Ø 2-12mm Ø		2-12mm Ø 3-12mm Ø		3-12mm Ø 2-12mm Ø		2 @ 50 mm 4 @ 100 mm & REST @ 200 mm
B-1	150	200	2-12mm Ø 2-12mm Ø		2-12mm Ø 2-12mm Ø		2-12mm Ø 2-12mm Ø		2 @ 50 mm 4 @ 100 mm & REST @ 200 mm
CB-1	150	200	2-12mm Ø 2-12mm Ø		2-12mm Ø 2-12mm Ø				2 @ 50 mm 4 @ 100 mm & REST @ 200 mm
LB-1	175	450	2-16mm Ø 2-16mm Ø 2-16mm Ø		2-16mm Ø 2-16mm Ø 2-16mm Ø		2-16mm Ø 2-16mm Ø 2-16mm Ø		2 @ 50 mm 4 @ 100 mm & REST @ 200 mm

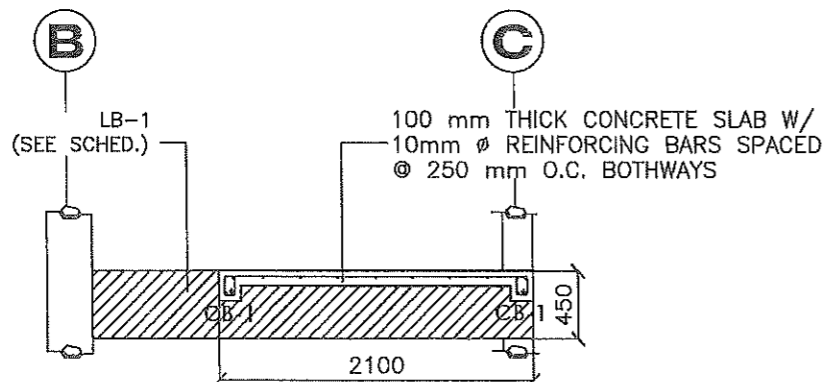


TYPICAL BEAM DETAIL
SCALE: NTS

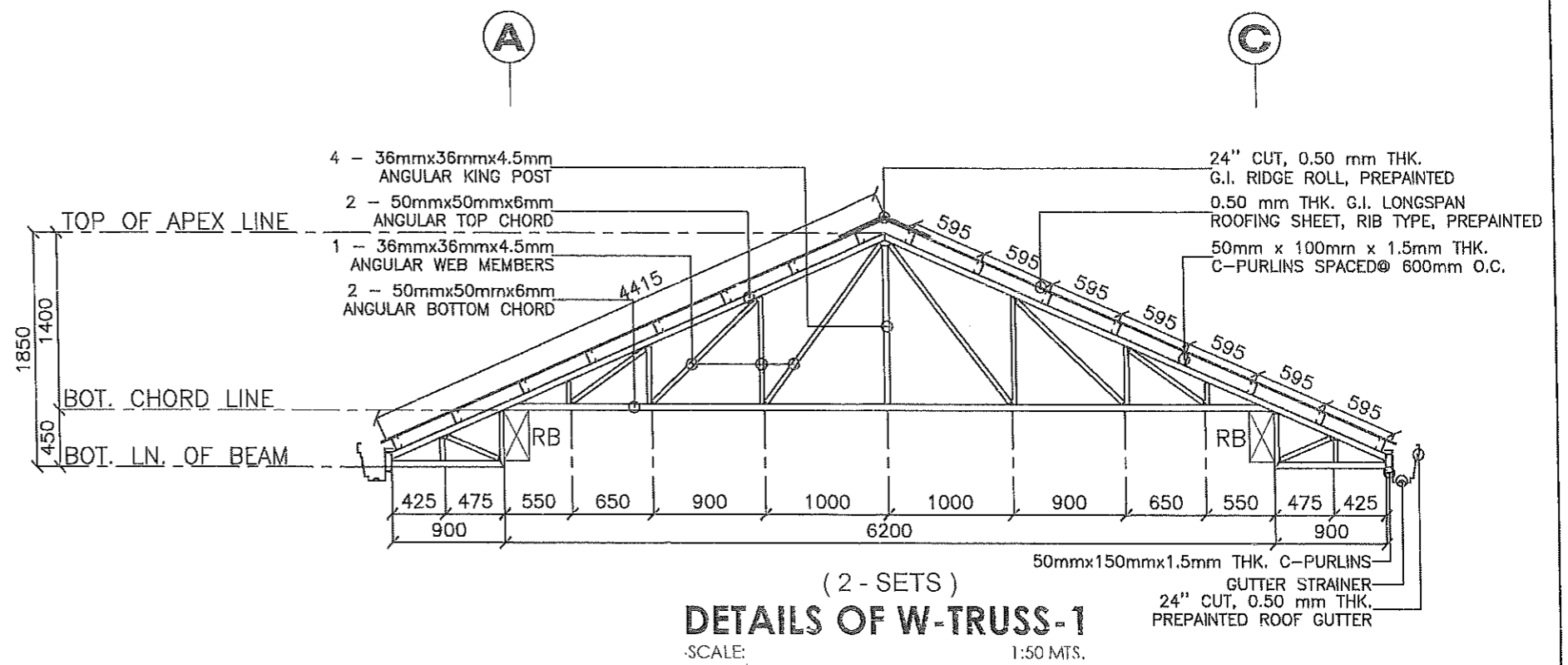
 FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	PROJECT TITLE: CONSTRUCTION OF CHILD DEVELOPMENT CENTER	PREPARED BY: CRYSTAL KAYE M. CUNANAN ENGINEER II	CHECKED BY: BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	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 - 2 08 / 13
	LOCATION: SAN ROQUE, GUAGUA, PAMPANGA	ENGINEER II	MAINTENANCE DIVISION HEAD	ASSISTANT PROVINCIAL ENGINEER	PROVINCIAL ENGINEER	PROVINCIAL ADMINISTRATOR	STRUCTURAL	



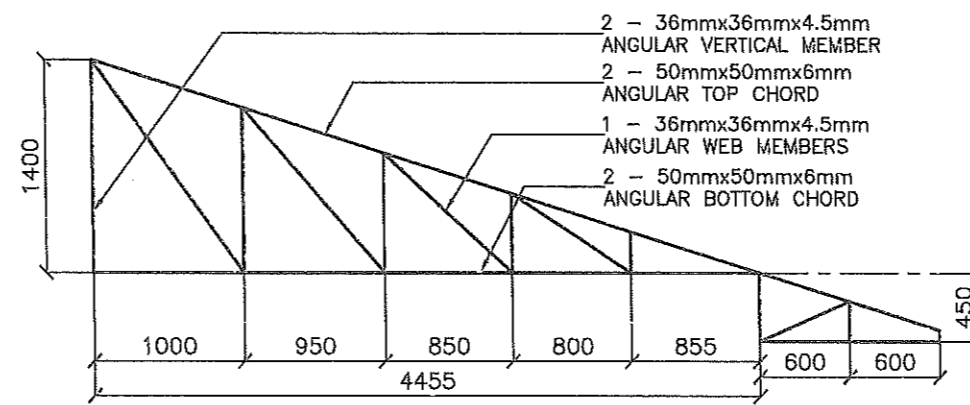
ROOF FRAMING PLAN
SCALE: 1:100 MTS.



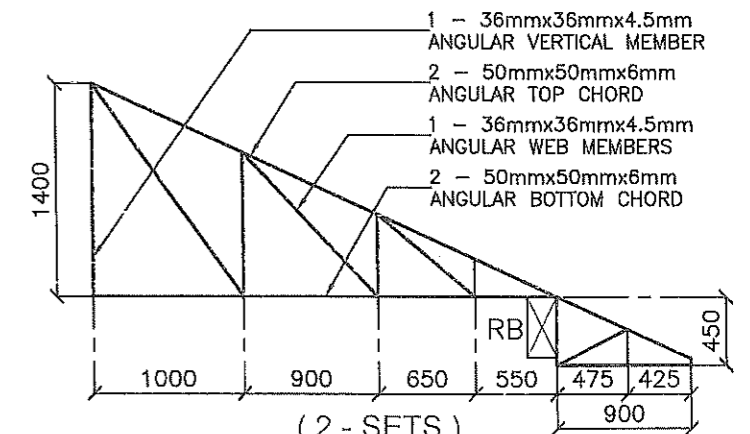
FRONT CANOPY SECTION
SCALE: 1:50 MTS.



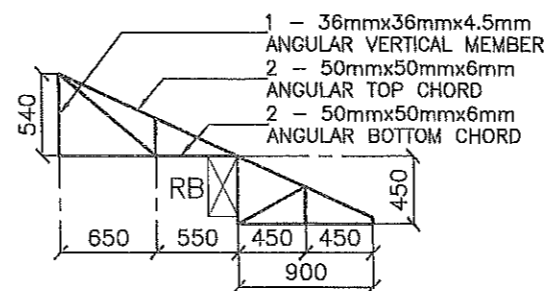
DETAILS OF W-TRUSS-1
SCALE: 1:50 MTS.



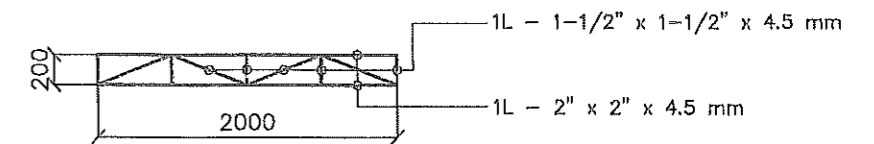
HIP TRUSS
SCALE: 1:50 MTS.



H-TRUSS
SCALE: 1:50 MTS.



H-TRUSS-2
SCALE: 1:50 MTS.



LATERAL STRUT
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.:
	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF CHILD DEVELOPMENT CENTER LOCATION: SAN ROQUE, GUAGUA, PAMPANGA	CRYSTAL KAYE M. CUNANAN ENGINEER II	BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	WILBERTO A. MANAHIL ASSISTANT PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE SANITARY DEPARTMENT ATTY. CHARUE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN	S - 3 09 / 13

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

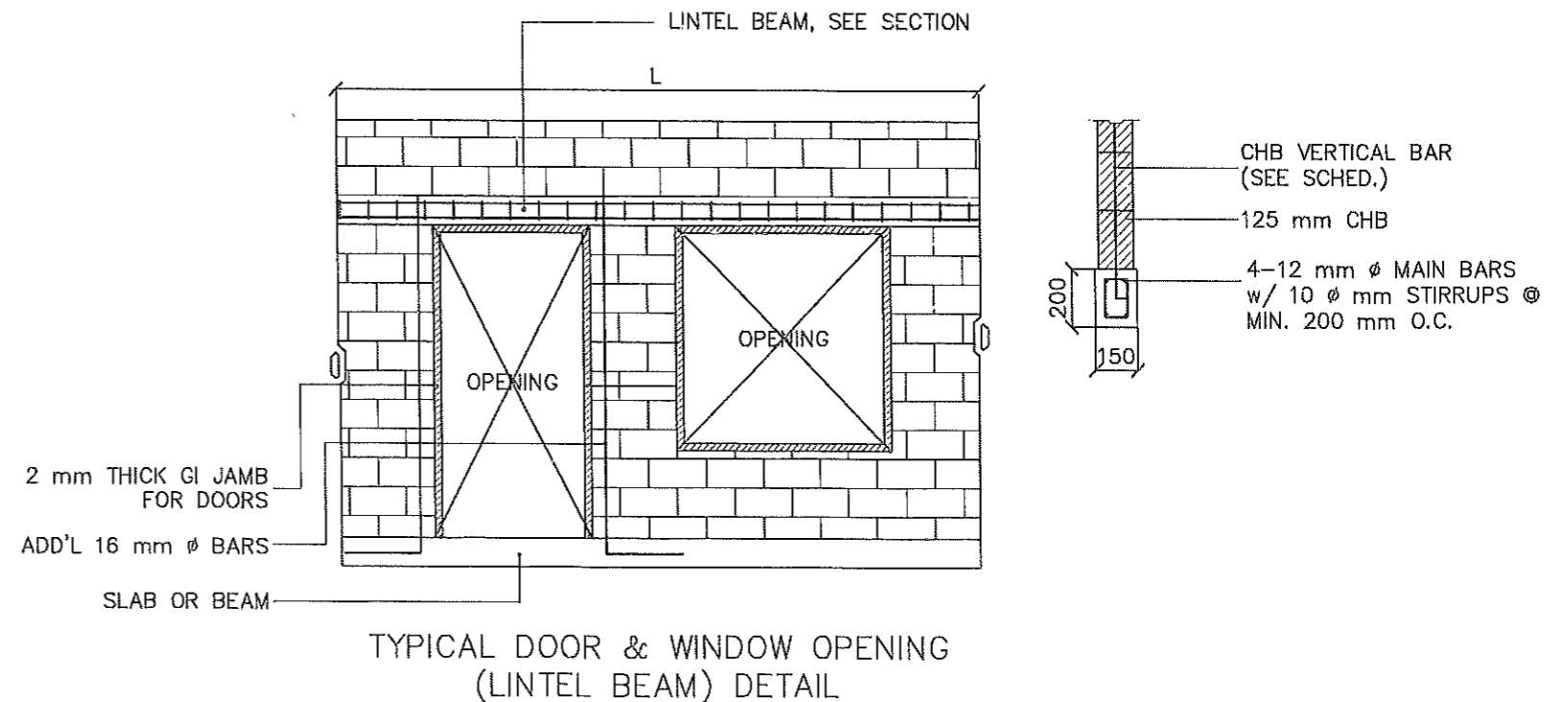
D. CONCRETE HOLLOW BLOCKS (CHB)

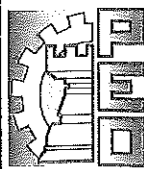
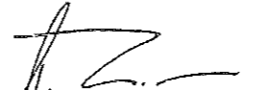

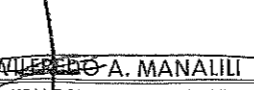
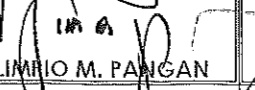

- UNLESS OTHERWISE INDICATED, CHB USED IN THIS WORK SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH, $F'_m = 3.45 \text{ MPa}$ (500 psi).
- ALL CHB CELLS SHALL BE FILLED SOLIDLY WITH GROUT
- SCHEDULE OF HOLLOW BLOCK REINFORCEMENT

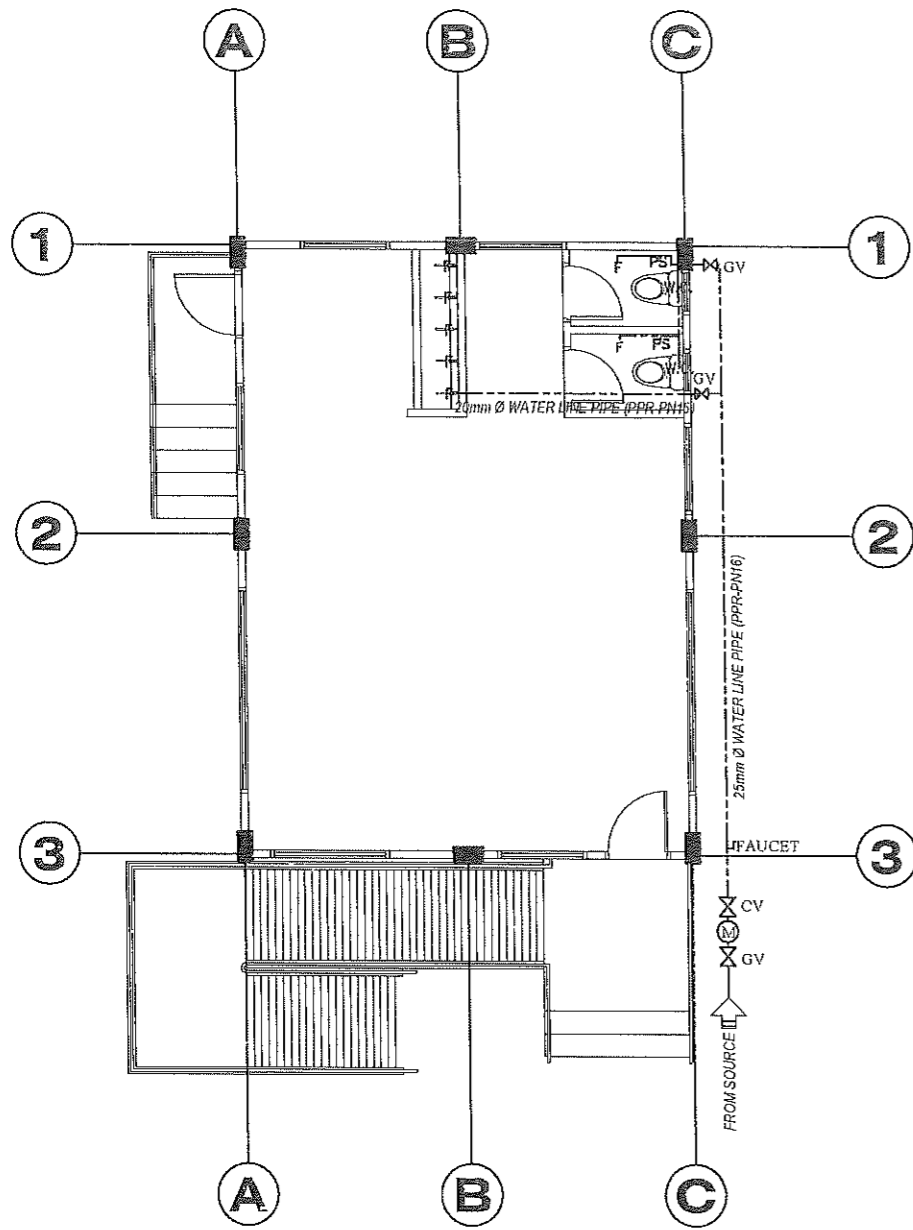
BLOCK THICKNESS	VERTICAL	HORIZONTAL
100 mm	800 mm	600 mm
125 mm	800 mm	600 mm
- SEE BELOW FOR DOOR & WINDOW OPENING DETAIL.

E. CONSTRUCTION JOINTS

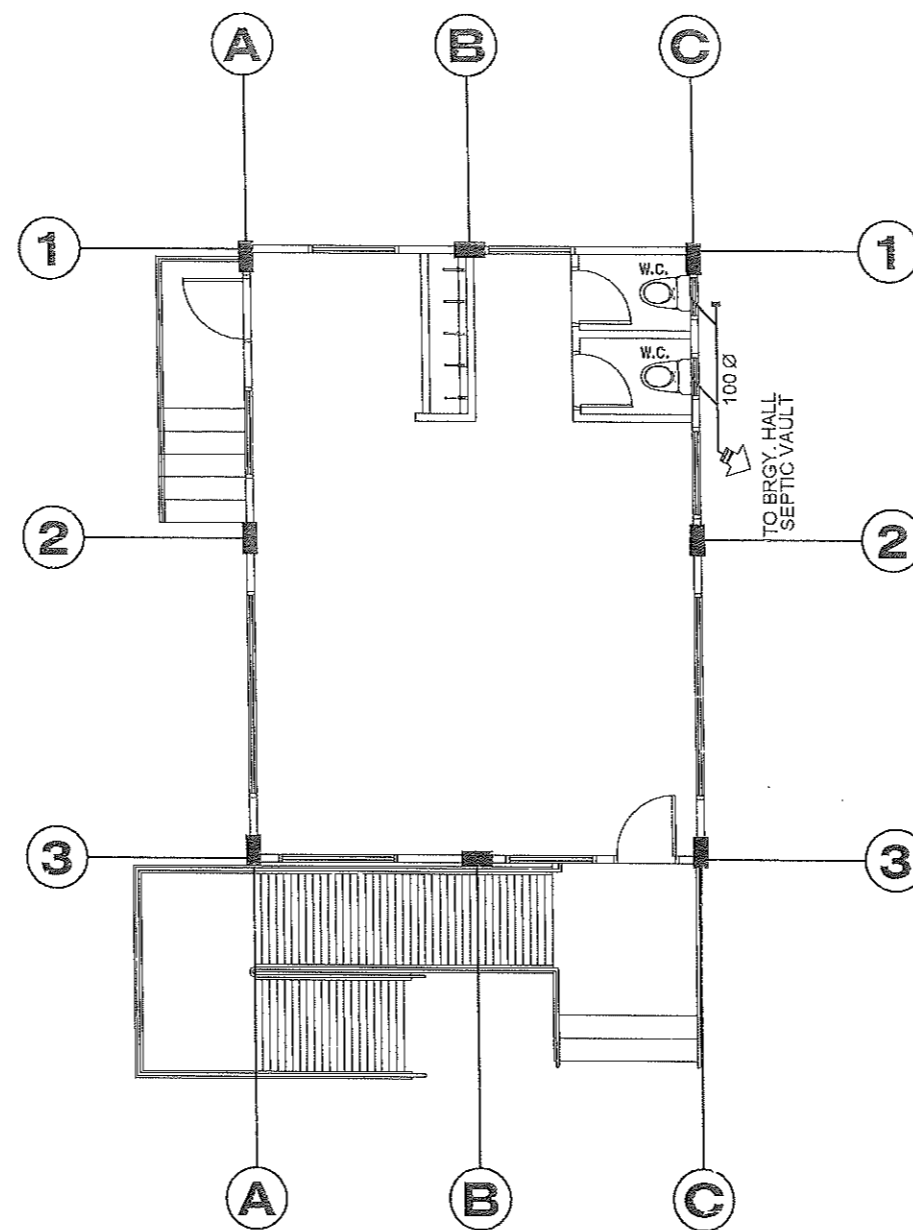
- CONSTRUCTION JOINT NOT INDICATED ON THE PLANS SHALL BE MADE SO AS TO LEAST IMPAIR THE STRENGTH OF THE STRUCTURE AND SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER EXCEPT SLAB ON GRADE.
- UNLESS SHOWN OTHERWISE, SLAB ON GRADE SHALL HAVE CONTROL JOINTS SPACED AT 2000 mm MAXIMUM, CENTER TO CENTER.
- 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.



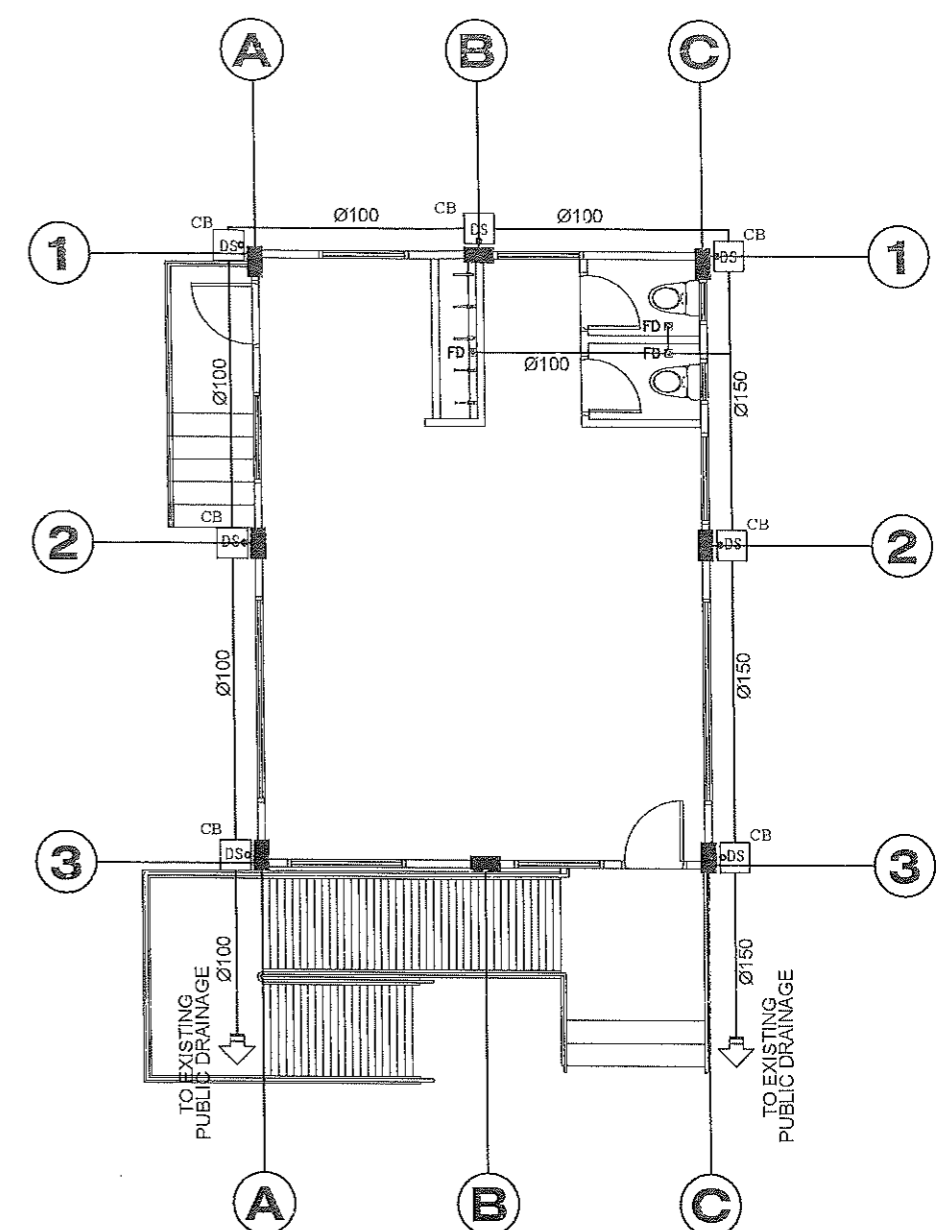
 FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, [P]	PROJECT TITLE: CONSTRUCTION OF CHILD DEVELOPMENT CENTER LOCATION: SAN ROQUE, GUAGUA, PAMPANGA	PREPARED BY:  CRYSTAL KAYE M. CUNANAN ENGINEER II	CHECKED BY:  BRYAN 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. CHARIE G. CHUA PROVINCIAL ADMINISTRATOR	SHEET CONTENTS: AS SHOWN	SHEET NO.: S - 4 10 / 13
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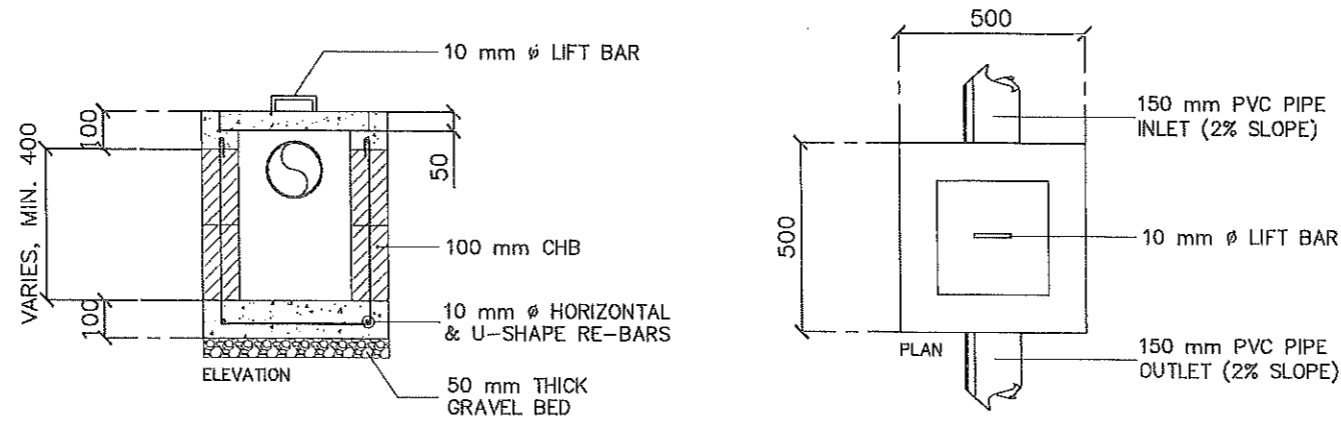
WATER LINE LAYOUT
SCALE: 1:100 MTS.



SEWER LINE LAYOUT
SCALE: 1:100 MTS.

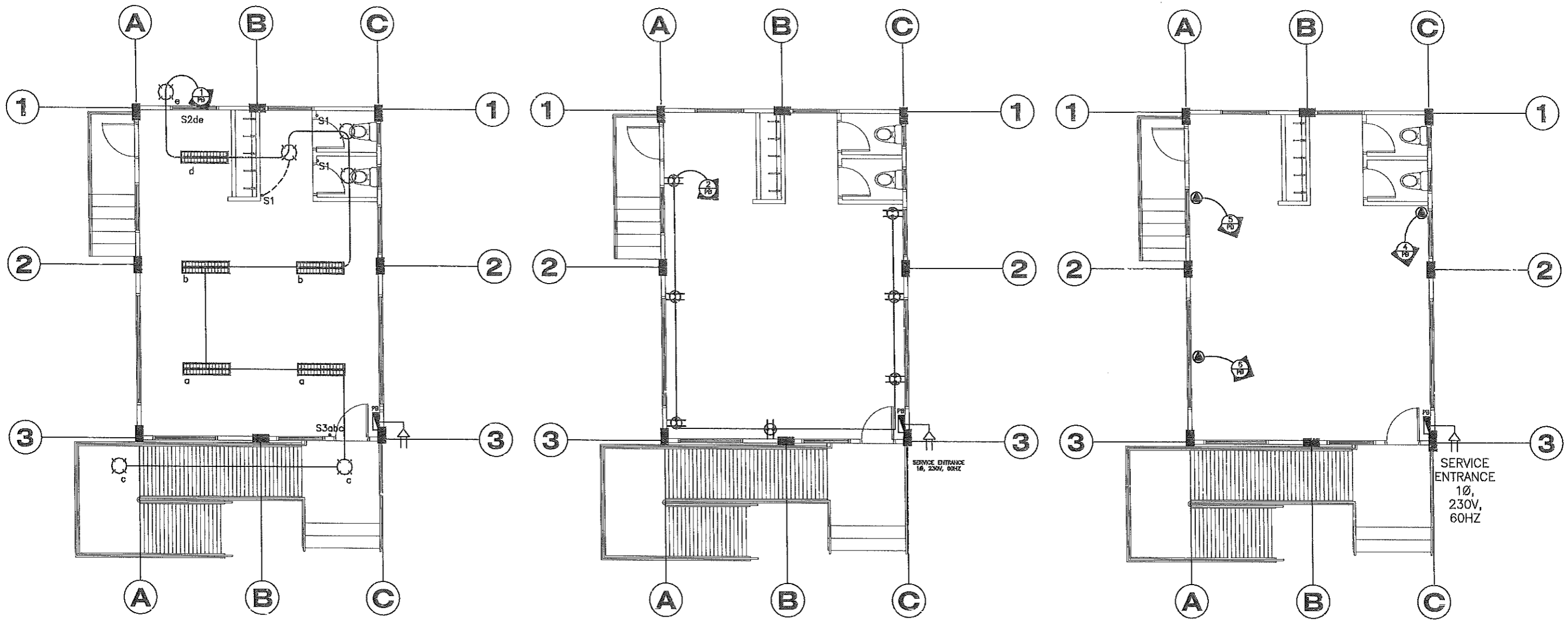


STORM DRAINAGE LAYOUT
SCALE: 1:100 MTS.



CATCH BASIN DETAIL
SCALE: NTS.

	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 OF CHILD DEVELOPMENT CENTER	 CRYSTAL KAYE M. CUNANAN ENGINEER II	 BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	 WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER	 OLIMPIO M. PANGAN PROVINCIAL ENGINEER	 ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN	P - 1
		LOCATION: SAN ROQUE, GUAGUA, PAMPANGA							PLUMBING	11 / 13



LIGHTING LAYOUT
SCALE: 1:100 MTS.

POWER LAYOUT
SCALE: 1:100 MTS.







ACU LAYOUT
SCALE: 1:100 MTS.

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	REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)	CONSTRUCTION OF CHILD DEVELOPMENT CENTER LOCATION: SAN ROQUE, GUAGUA, PAMPANGA	MICHAEL T. MONTENAYOR ENGINEER II CRYSTAL KAYE M. CUNANAN ENGINEER II	BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD	WILFREDO A. MANALI ASSISTANT PROVINCIAL ENGINEER	OLIMPIO M. PANGAN PROVINCIAL ENGINEER	HON. DENNIS G. PINEDA GOVERNOR BY THE AUTHORITY OF THE GOVERNOR: ATTY. CHARLIE C. CHUA PROVINCIAL ADMINISTRATOR	AS SHOWN ELECTRICAL	E - 1 12 / 13

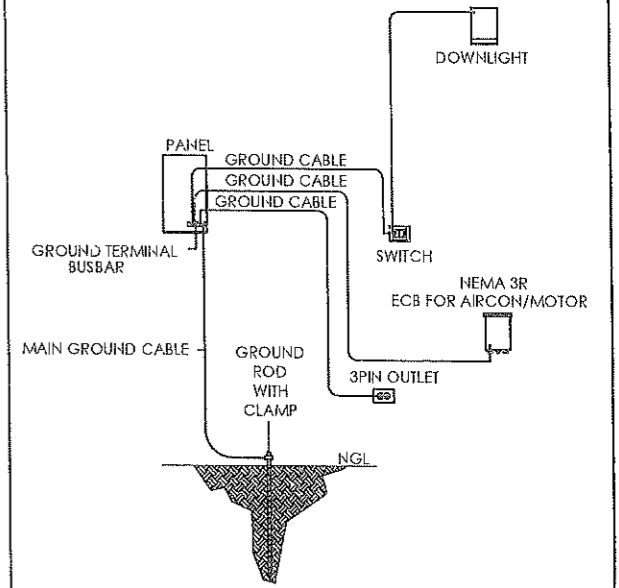
GENERAL NOTES:

- ALL ELECTRICAL WORKS SHALL COMPLY IN ACCORDANCE 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 WORKS SHALL BE UNDER IMMEDIATE SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
- THE ELECTRICAL SERVICE POWER IS 1-PHASE, 2-WIRES, 230V AC, 60Hz.
- WIRING METHOD SHALL BE AS FOLLOWS:
 - FEEDERS AND RISERS - RIGID STEEL CONDUIT
 - LIGHTING POWER RECEPTACLE - POLYVINYL CHLORIDE CONDUIT BRANCH CKT. & AUXILIARY, SCH. 40.
- ALL WIRES SHALL BE THERMOPLASTIC HIGH HEAT-RESISTANT NYLON-COATED TYPE "THHN" UNLESS OTHERWISE INDICATED IN THE PLAN. THE MINIMUM SIZE OF WIRE FOR POWER AND LIGHTING CIRCUIT HOMERUN SHALL BE 3.5mm² AND INSULATED FOR 600 VOLTS. SMALLEST RACEWAY SHALL BE 15mm \varnothing TRADE/NORMAL SIZE.
- EARTH RESISTANCE TO GROUND SHALL NOT BE GREATER THAN 25 OHMS.
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND APPROVED TYPE FOR THE PARTICULAR LOCATION AND PURPOSE OF USAGE.
- GROUNDING SYSTEM SHALL BE PROVIDED TO ALL LIGHTING AND POWER CIRCUIT AS PER PHILIPPINE ELECTRICAL CODE REQUIREMENT.
- MOUNTING HEIGHT OF WIRING DEVICES SHALL BE AS FOLLOWS:
 - LIGHTING SWITCH - 1.20 m ABOVE FIN FLR. @ CENTER
 - CONVENIENCE OUTLET - 0.30 m ABOVE FIN FLR. @ CENTER
 - WALL FAN OUTLET - 1.80 m ABOVE FIN FLR. @ CENTER
 - PANEL BOARD - 1.80 m FINISHED FLOOR LEVEL TO TOP OF PANEL
 - A/C Outlet - 1.30 m ABOVE FLOOR @ CENTER
- TESTING SHALL BE THAN BY MEANS OF FOLLOWING.
 - INSULATION RESISTANCE TEST
 - CONTINUITY TEST
 - EARTH RESISTANCE TEST
 - FUNCTIONALITY TEST
- CABLE COLOR CODING FOR SINGLE PHASE SHALL BE AS BE FOR LINE "BLACK" & "RED" AND FOR GROUND "GREEN"

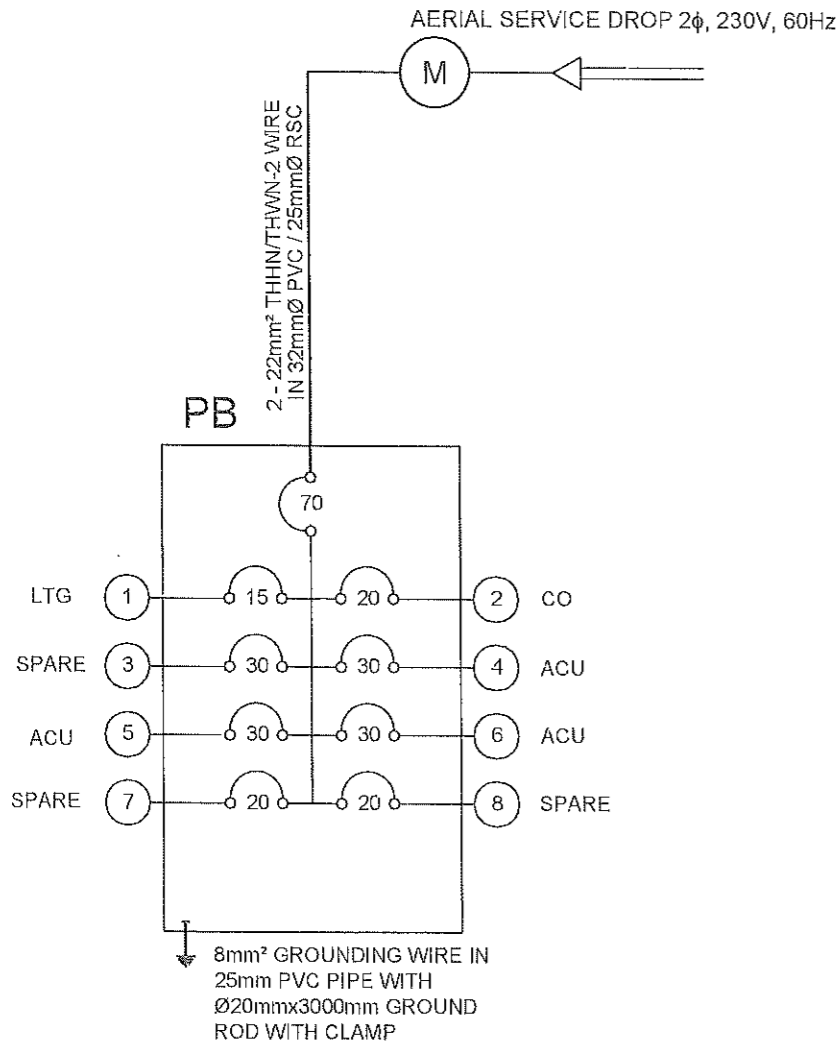
LEGEND:

-  1-18W T8 LED Fluorescent Lamp (Dustproof, recessed mount)
-  9W LED DWNLIGHT
-  DUPLEX CONVENIENCE OUTLET WITH SAFETY SHUTTER
-  ACU OUTLET
-  CIRCUIT HOMERUN
-  PANELBOARD

DEDICATED GROUNDING SYSTEM
(GROUND CABLE SIZE SEE LOAD SCHEDULE)



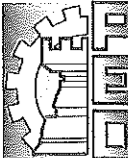
SINGLE LINE DIAGRAM



LOAD CALCULATION

CKT. NO.	DESCRIPTION	CONNECTED LOAD			OVER CURRENT PROTECTION				SIZE OF WIRE AND PVC CONDUITS
		V	VA	A	AT	AF	P	KA	
1	5-1 x 9W DOWNLIGHT, 5-1 x 16W T8 FLUORESCENT LIGHT	230	125	0.54	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 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	SPARE	230	1500	6.52	30	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	1.5HP SPLIT TYPE ACU UNIT	230	2300	10.00	30	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	1.5HP SPLIT TYPE ACU UNIT	230	2300	10.00	30	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	1.5HP SPLIT TYPE ACU UNIT	230	2300	10.00	30	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	SPARE	230	1000	4.35	20	50	2	10	20mm \varnothing PVC CONDUIT STUB-OUT
8	SPARE	230	1000	4.35	20	50	2	10	20mm \varnothing PVC CONDUIT STUB-OUT
TOTAL CONNECTED LOAD :			11785	51.24					

<p>FEEDER LINE COMPUTATION:</p> $I = (51.24 + (10 \times 0.25)) 100\% DF$ $I = 53.74 \text{ Amps}$	<p>MAIN CIRCUIT BREAKER COMPUTATION:</p> $I = (51.24 + (10 \times 1.5)) 100\% DF$ $I = 66.24 \text{ Amps}$	<p>USE :</p> <p>70AT/100AF, 2P, 22KAIC, MCCB</p> <p>2-22mm² THHN/THWN-2 (L) + 8.0mm² THHN/THWN-2 (G) IN 32 mm\varnothing PVC CONDUIT OR IN 25mm\varnothing RSC CONDUIT</p>
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 <p>FROM THE OFFICE OF: REPUBLIC OF THE PHILIPPINES PROVINCE OF PAMPANGA PROVINCIAL ENGINEER'S OFFICE CAPITOL COMPOUND, CITY OF SAN FERNANDO, (P)</p>	<p>PROJECT TITLE: CONSTRUCTION OF CHILD DEVELOPMENT CENTER</p>	<p>PREPARED BY: MICHAEL I. MONTEMAYOR ENGINEER III</p>	<p>CHECKED BY: CRYSTAL KAYE M. CUNANAN ENGINEER II</p>	<p>VERIFIED & SUBMITTED BY: BRYAN Q. ALVARADO MAINTENANCE DIVISION HEAD</p>	<p>RECOMMENDING APPROVAL: WILFREDO A. MANALILI ASSISTANT PROVINCIAL ENGINEER</p>	<p>APPROVED BY: HON. DENNIS G. PINEDA GOVERNOR BY THE UNIVERSITY OF THE GOVERNOR: ATTY. CHARLIE G. CHUA PROVINCIAL ADMINISTRATOR</p>	<p>SHEET CONTENTS: AS SHOWN</p>	<p>SHEET NO.: E - 2</p>
	<p>LOCATION: SAN ROQUE, GUAGUA, PAMPANGA</p>	<p>MAINTENANCE DIVISION HEAD</p>	<p>PROVINCIAL ENGINEER</p>	<p>PROVINCIAL ADMINISTRATOR</p>	<p>ELECTRICAL</p>	<p>13 / 13</p>		