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Unit-I has two master bedrooms, one kitchen, one dining, one drawing, and three bathrooms, two attached and one common bathroom. Two master bedroom is the same size. The length of the master bedroom is 11 feet and width 11 feet. Square size master bedroom. M.bedroom balcony width 3 feet. And attached bathroom length 6 feet, width 4 feet. Common bathroom length 6 feet and width 4 feet. Drawing room length 10 feet 11 inches. Kitchen length 8 feet and width 5 feet 6 inches. The kitchen has only one big window but no balcony. Ground floor planUnit-II is staying on the front side of the first-floor plan. Here also two master bedrooms, one drawing, one kitchen, one dining, and three bathrooms. Unit-II master bedroom and attached bathroom and balconies area are some to Unit-I. Dining length 14 feet 9.5 inches and width 10 feet 11 inches. The kitchen, drawing, and common bathroom are the same as Unit-I. Unit-III is staying at the south-wast corner. Here plan in one master bedroom, one common bedroom, one kitchen, and one dining, and one drawing on this floor plan. The drawing room area is 121 square feet. The dining room area is 155 square feet. M.bedroom area 121 square feet. Common bedroom area 121 square. The master bedroom balcony area 18 square feet and attached bathroom area 24 square feet in this first-floor plan. The common bedroom attached balcony and bathroom areas are 17 sq ft and 32 sq ft. The kitchen area is 45 square feet. Unit-IV plan as the same as unit-III.Youcan viewinAutocad file here4800sq ft floor plan(.dwg file) If your needed 3200 square feet area and three floors. Also, view3200 Sq Ft Commercial Building floor plans and elevation designs with free autocad dwg file.50%(2)50% found this document useful (2 votes)6K viewsThe document contains floor plans for a proposed commercial building with two levels. The ground floor plan shows an entry, transformer room, parking area and carpet area of 1350 sqft. The fAI-enhanced title and descriptionSaveSave 40 X60 COMMERCIAL PLAN FINAL For Later50%50% found this document useful, undefinedA B 5.00 D C 4.50 4.00 F E 6.00 4.00 G H 4.50 A 5.00 1 B 5.00 D C 4.50 4.00 F E 6.00 4.00 G H 4.50 5.00 1 D 9 3.50 D 9 3.50 2 2 3.00 3.00 3 STORAGE 4.00 HARDWARE 3 4.00 4 STORAGE BAKERY STORAGE RESTAURANT ICE CREAM PARLOUR STORAGE EAT ALL YOU CAN STORAGE 4 STORAGE SUPER MARKET 6.00 5 6.00 5 DEPARTMENT STORE 6.00 CLERK DESK 6.00 6 CLERK DESK 6 4.50 METROBANK NATIONAL BOOKSTORE CHIMES GUESS FULLY BOOKED CHINABANK 7 4.50 PIZZAPLACE BURGER JOINT KOREAN BBQ LUTONG BAHAY STEAK NACHOS AND TACOS 7 GROUND FLOOR PLAN SECOND FLOOR PLAN SCALE NTS. PROJECT ENGINEERS: TRIUMVIRATE CONSTRUCTIONS INC. SCALE PROFESSOR PROJECT TITLE Engr. Ernesto Lim Jr. PROPOSED 4 MULTI-STOREY BUILDING Nicor, Nerrizza Rei SCHOOL LOCATION Tatoy,Shem Adrian University Of Mindanao ISLAND GARDEN CITY OF SAMAL NTS. DESCRIPTION GROUND & SECOND FLOOR PLAN SHEET NO.Page 2 Please wait until the download start. DOWNLOAD PDF BY VIEWER 30 seconds download finish. DOWNLOAD PDF (Mirror Link) Formats for download DOWNLOAD WORD DOWNLOAD POWERPOINT Republic of the Philippines PANGASINAN STATE UNIVERSITY Urdaneta City Campus TWO STOREY COMMERCIAL BUILDING (RESTAURANT) ELECTRICAL LAYOUT PLAN Submitted By: JHAYSON M. ONZA BSEE V Submitted To: ENGR. MELIZZA JOY MAZON Instructor CONTENTS I. FLOOR PLAN a. Ground Floor b. Second Floor II. ELECTRICAL LAYOUT PLAN a. Ground Floor Lighting and Switch Layout b. Second Floor Lighting and Switch Layout c. Ground Floor Convenience Outlet Layout d. Second Floor Convenience Outlet Layout III. LOAD SCHEDULE AND COMPUTATIONS IV. ONE LINE DIAGRAM V. SYMBOLS VI. ELECTRICAL SPECIFICATIONS GROUND FLOOR PLAN SECOND FLOOR PLAN GROUND FLOOR LIGHTING AND SWITCH LAYOUT SECOND FLOOR LIGHTING AND SWITCH LAYOUT GROUND FLOOR CONVENIENCE OUTLET LAYOUT SECOND FLOOR CONVENIENCE OUTLET LAYOUT LOAD SCHEDULE AND COMPUTATIONS Ground Floor CKT NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 NO. OF OUTLETS L.O. C.O. OTHERS 7 8 8 REF RANGE DISHWASING MACHINE FREEZER SPARE ACU ACU ACU ACU SPARE WATTS 700 800 2880 1000 1500 1500 400 1500 1000 1000 1000 1000 1000 COMPUTED AMPERE 3.04 3.48 12.52 4.35 6.52 6.52 1.74 6.52 4.35 4.35 4.35 4.35 4.35 BREAKER RATING 15 AT 15 AT 20 AT 20 AT 20 AT 30 AT 20 AT 30 AT 30 AT 30 AT 30 AT 30 AT 30 AT SIZE OF WIRE SIZE OF CONDUIT 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE For Circuit Number 1 and 2: Lighting Loads The Philippine Electrical Code provides that 100 Watts be the maximum load per light outlet. Circuit Number 1: P = 7 outlets X 100 W = 700 W I = 700/230 = 3.04 A Circuit Number 2: P = 8 outlets X 100 W = 800 W I = 800/230 = 3.48 A The National Electrical Code provides that ampacity of the connected load shall not exceed 80% of the amperage capacity of the conductor and the fuse. The maximum ampacity load of a 3.5 mm 2 copper wire and 15 AT breaker are 30 A and 15 A respectively. 80% of 30 A and 15 A are 24 A and 12 A respectively. Therefore, for Circuit Number 1 to 6, the use of 3.5 mm2 wire and 15 AT breaker is safe. Also, for 2 pieces of 3.5 mm2 wire, use 13 mm diameter of conduit pipe. For Circuit Number 3: Small Appliance Loads Section 3.3.1.2 of the Philippine Electrical Code specify 180 Watts load limit per convenience outlet. It simply mean that, each convenience outlet, is considered to have a maximum load of not less than 180 Watts per plug or gang. Circuit Number 3: P = 8 outlets X 2 gangs X 100 W = 2880 W I = 2880/230 = 12.52 A The National Electrical Code provides that ampacity of the connected load shall not exceed 80% of the amperage capacity of the conductor and the fuse. The maximum ampacity load of a 3.5 mm2 copper wire and 20 AT breaker are 30 A and 20 A respectively. 80% of 30 A and 15 A are 24 A and 16 A respectively. Therefore, for Circuit Number 7 to 3, the use of 3.5 mm2 wire and 20 AT breaker is safe. Also, for 2 pieces of 3.5 mm2 wire, use 13 mm diameter of conduit pipe. For Circuit Number 4 to 8: Other Loads Circuit Number 4: Refrigerator P = 1000 W I = 1000/230 = 4.35 A Circuit Number 5: Range P = 1500 W I = 1500/230 = 6.52A Circuit Number 6: DISHWASHING MACHINE P = 1500 W I = 1500/230 = 6.52 A For the sizing of wire, I = 6.52 X 125% = 8.15 A For the sizing of breaker, I = 6.52 X 250% = 16.30A Circuit Number 7: FREEZER P = 400 W I = 400/230 = 1.74 A For Circuit Number 9 to 13: Air-Conditioning Units Article 6.7 of the Philippine Electrical Code provides that: Branch circuit conductor supplying a motor shall have an ampacity not less than 125% of the full load current. Also, the code on branch circuit protection for a single motor provides that: It shall be increased by 250% of the full load current of the motor. Circuit Number 9 to 13 P = 1000 W I = 1000/230 = 4.35 A For the sizing of wire, I = 4.35 X 125% = 5.43 A For the sizing of breaker, I = 4.35 X 250% = 10.87 A Calculation for the Ampacity of the Sub-Feeder Conductor and the Disconnecting Means Lighting Loads = 1500 W Small Appliance Loads = 2880 W Other Loads = 5900 W Total Load (Except the Air-Conditioning Units) = 10280W For the first 10000 W at 100% DF = 10000 W Subtract: 10280 10000 = 280 W For the remaining load, apply 40% DF 280 X 40% = 112 W Air-Conditioning Units at 100% DF 5 units X 1000 W X 100% = 5000 W Total = 15112 W Total Connected Load plus 25% of the Largest Motor I = (15112 W + 25% of 1500w)/230 = 67.33 A Sub-Feeder: Overcurrent Protection: Use 90 AT Breaker Size of Wire: Use 2 30.0 mm2 THW conductor with 25 mm Rigid Steel Conduit Second Floor CKT NO. 1 2 3 4 5 6 7 8 9 10 11 12 13 NO. OF OUTLETS L.O. C.O. OTHERS 11 10 8 REF RANGE DISHWASING MACHINE FREEZER SPARE ACU ACU ACU ACU SPARE WATTS 1100 1000 2880 1000 1500 1500 400 1500 1000 1000 1000 1000 1000 COMPUTED AMPERE 4.78 4.35 12.52 4.35 6.52 6.52 1.74 6.52 4.35 4.35 4.35 4.35 4.35 BREAKER RATING 15 AT 15 AT 20 AT 20 AT 20 AT 30 AT 20 AT 30 AT 30 AT 30 AT 30 AT 30 AT 30 AT SIZE OF WIRE SIZE OF CONDUIT 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 2 3.5 mm2 TW 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE 13 mm PVC PIPE For Circuit Number 1 and 2: Lighting Loads The Philippine Electrical Code provides that 100 Watts be the maximum load per light outlet. Circuit Number 1: P = 11 outlets X 100 W = 1100 W I = 1100/230 = 4.78 A Circuit Number 2: P = 10 outlets X 100 W = 1000 W I = 1000/230 = 4.35 A For Circuit Number 3: Small Appliance Loads Circuit Number 3: P = 8 outlets X 2 gangs X 100 W = 2880 W I = 2880/230 = 12.52 A . For Circuit Number 4 to 8: Other Loads Circuit Number 4: Refrigerator P = 1000 W I = 1000/230 = 4.35 A Circuit Number 5: Range P = 1500 W I = 1500/230 = 6.52A Circuit Number 6: DISHWASHING MACHINE P = 1500 W I = 1500/230 = 6.52 A For the sizing of wire, I = 6.52 X 125% = 8.15 A For the sizing of breaker, I = 6.52 X 250% = 16.30A Circuit Number 7: FREEZER P = 400 W I = 400/230 = 1.74 A For Circuit Number 9 to 13: Air-Conditioning Units Circuit Number 9 to 13 P = 1000 W I = 1000/230 = 4.35 A For the sizing of wire, I = 4.35 X 125% = 5.43 A For the sizing of breaker, I = 4.35 X 250% = 10.87 A Calculation for the Ampacity of the Sub-Feeder Conductor and the Disconnecting Means Lighting Loads = 2100 W Small Appliance Loads = 2880 W Other Loads = 5900 W Total Load (Except the Air-Conditioning Units) = 10880W For the first 10000 W at 100% DF = 10000 W Subtract: 10280 10000 = 880 W For the remaining load, apply 40% DF 880 X 40% = 352 W Air-Conditioning Units at 100% DF 5 units X 1000 W X 100% = 5000 W Total = 15352 W Total Connected Load plus 25% of the Largest Motor I = (15352 W + 25% of 1500w)/230 = 68.39 A Sub-Feeder: Overcurrent Protection: Use 90 AT Breaker Size of Wire: Use 2 30.0 mm2 THW conductor with 25 mm Rigid Steel Conduit Calculation for the Ampacity of the Service Entrance Conductor and the Main Disconnecting Means Lighting Loads = 3600 W Small Appliance Loads = 5760 W Other Loads = 11800 W Total Load (Except the Air-Conditioning Units) = 21160 W For the first 10000 W at 100% DF = 10000 W Subtract: 21160 10000 = 11160 W For the remaining load, apply 40% DF 11160 X 40% = 4464 W Air-Conditioning Units at 100% DF 10 units X 1000 W X 100% = 10000 W Total = 24464 W Total Connected Load plus 25% of the Largest Motor I = (24464 W + 25% of 1500w)/230 = 108 A Service Entrance: Overcurrent Protection: Use 150 AT Breaker Size of Wire: Use 2 50.0 mm2 THW conductor with 32 mm Rigid Steel Conduit ONE LINE DIAGRAM SYMBOLS ELECTRICAL SPECIFICATIONS 1. THE ELECTRICAL INSTALLATION SHALL BE DONE IN ACCORDANCE WITH THE APPROVED PLANS AND UNDER DIRECT SUPERVISION AND CONTROL OF A LICENSED PROFESSIONAL ELECTRICAL ENGINEER OR MASTER ELECTRICIAN. 2. THE ELECTRICAL INSTALLATION SHOWN ON THE PLANS SHALL BE CONFORM WITH THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE, RULES AND REGULATIONS OF THE COMPANY AND THE LOCAL GOVERNMENT. 3. ALL ELECTRICAL MATERIALS AND EQUIPMENT TO BE USED IN THIS PROJECT SHALL BE BRANDNEW AND OF APPROVED QUALITY AND BRAND. 4. THE WIRES TO BE USED SHALL NOT BE SMALLER THAN 3.5 mm2 TW, WITH 600 V INSULATION. 5. THE TYPE OF POWER SERVICE TO BE SUPPLIED SHALL BE SINGLE PHASE, 230 V AC.

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