

WALL - MATERIAL FINISHES

**WF-1** DRYWALL - USE 9mm GYPSUM BOARD ON GALVANIZE WALL FRAMING PAINTED WITH BOYSEN PERMACOAT FLAT LATEX # 701 (PRIMER) AND BOYSEN SEMI-GLOSS LATEX # 715

WF-2 EXISTING CHB PLASTERED - SEMI-GLOSS  
PAINT FINISH

**WF-3** DRYWALL - USE  $\frac{3}{4}$ " MARINE PLYWOOD ON GALVANIZE 2"X2"x1.5mm THK. SQUARE TUBE PAINTED WITH BOYSEN PERMACOAT FLAT LATEX # 701 (PRIMER) AND BOYSEN SEMI-GLOSS LATEX # 715

NOTES: # 715

- 1.) ALL PAINTS TO BE PAINTED WITH ROLLER - APPLY 2 COATS OF LOW-COLOR INTERIOR PAINT OVER PRIMER
- 2.) COLOR AS SELECTED BY THE ARCHITECT
- 3.) ALL PAINTS ARE FOR ARCHITECT'S APPROVAL ON SITE. CONTRACTOR SHOULD PROVIDE PAINT MOCK-UP FOR APPROVAL BEFORE MASS APPLICATION.

FLOOR - MATERIAL FINISHES

FF-1 500mm X 500mm CARPET TILE  
(PVC BACKING)  
(VERIFY COLOR WITH ARCHITECT)

NOTES:

- 1.) VARIATIONS OF EACH TILE DESIGN TO BE VERIFIED WITH THE ARCHITECT
- 2.) ALL TILE LAYOUT SHOULD BE MOCKED-UP ON SITE BY THE CONTRACTOR FOR ARCHITECT'S APPROVAL
- 3.) CONTRACTOR SHOULD VERIFY FINAL TILE COUNT BEFORE PURCHASE

CEILING - MATERIAL FINISHES

**CF-1** 12mm THK. MOISTURE RESISTANT BOARD  
ON METAL FURING SYSTEM. PAINT FINISH







**CF-2** 600mm x 600mm ACOUSTIC BOARD, 25mm THK. PINHOLE OR FINE FISSURED, SEMI CONCEALED ON METAL FURING SYSTEM

NOTES:

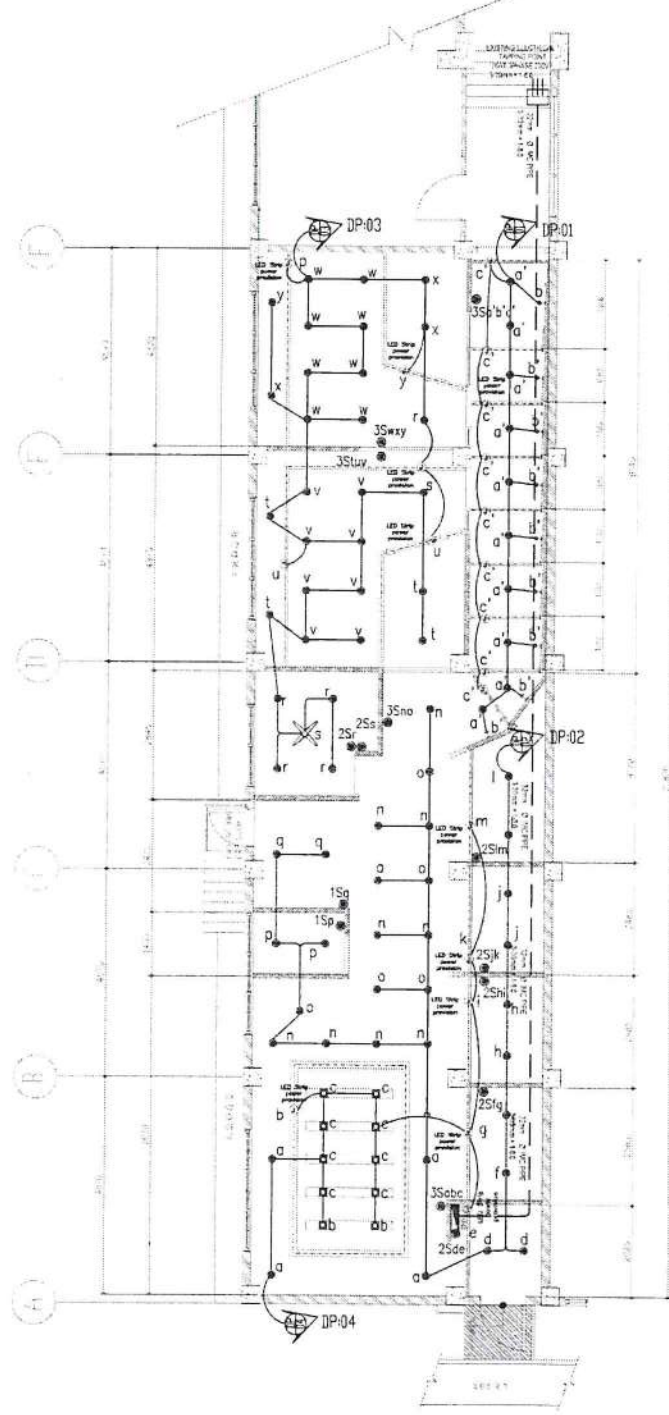
1.) FINAL COLOR GENERAL PAINTS & CEILING PAINT TO BE VERIFIED BY THE ARCHITECT

GENERAL CONSTRUCTION NOTES

- 1 IN CASE OF DISCREPANCIES BETWEEN THESE DRAWINGS AND SPECIFICATIONS AND/OR OTHER DRAWINGS, PLEASE REFER TO THE ARCHITECT AND HIS SOLE AUTHORIZED REPRESENTATIVE FOR FINAL VERIFICATION AND APPROVAL PRIOR TO IMPLEMENTATION.
- 2 THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING AND/OR ANY CONSTRUCTION ACTIVITY. HE SHALL MAKE COMPREHENSIVE ON-SITE INSPECTION OF ALL EXISTING CONDITIONS, UTILITIES AND APPURTENANCES. HE SHALL FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS. IT SHALL BE HIS SOLE RESPONSIBILITY TO INFORM THE ARCHITECT OR HIS SOLE AUTHORIZED REPRESENTATIVE IN WRITING OF ANY DISCREPANCY FOUND IN THE SITE CONDITIONS, THE SITE CONDITIONS, DIMENSIONS AND THESE SETS OF PLANS AND DRAWINGS.
- 3 DURING THE DESIGN INTENT STAGE, WHEN THESE DISCREPANCIES BECOME NECESSARY OR SHOULD CHANGES BE REQUIRED TO SUIT ACTUAL SITE CONDITIONS, THE PROJECT MANAGER AND THE GENERAL CONTRACTOR SHALL SUBMIT THREE (3) SETS OF SHOP DRAWINGS FOR THE APPROVAL OF THE ARCHITECT AND OWNER PRIOR TO ANY CONSTRUCTION OR IMPLEMENTATION.
- 4 NO CONSTRUCTION SHALL BE IMPLEMENTED IN ANY PART FOR CONFLICTING ARCHITECTURAL AND ENGINEER PLANS UNTIL ALL DISCREPANCIES ARE RESOLVED BY THE ARCHITECT, THE ARCHITECT AND THE CONSULTING ENGINEER, PROJECT MANAGER & CONTRACTOR/SUB-CONTRACTOR, OTHERWISE, ALL UNRESOLVED DISCREPANCIES AND THE ACCOMPANYING CONSEQUENCES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND PROJECT MANAGER.
- 5 FOR DETAILS OF OTHER ALIEN DISCREPANCIES, SPECIALTY TRADES SERVICES, PLEASE REFER TO THE PLANS & DRAWINGS PREPARED BY THE CONSULTANTS FOR STRUCTURAL, ELECTRICAL, MECHANICAL, SANITARY, CIVIL, & OTHER MISCELLANEOUS DRAWINGS. KINDLY COORDINATE THEM CAREFULLY WITH THE ARCHITECT OR HIS SOLE AUTHORIZED REPRESENTATIVE PRIOR TO ANY INSTALLATION OF CONSTRUCTION.
- 6 FLOOR FINISHES, REFLECTED CEILING PLANS, GROUND/FLOOR LIGHTING FIXTURES, SWITCHING AND POWER, LIGHTS STATED HEREIN ARE BASED ON THE CLIENT-APPROVED LAYOUT SECURED DURING THE DESIGN DEVELOPMENT STAGE BY THE ARCHITECT.
- 7 DURING THE CONSTRUCTION AND FINISHING STAGES INCLUSIVE OF THE INTERIOR FINISHES, DESIGN AND SPECS SHALL BE VERIFIED CLOSELY AND PROVIDED BY THE ARCHITECT OR HIS SOLE AUTHORIZED REPRESENTATIVE BY THE ARCHITECTURAL AND ENGINEERING PLANS.

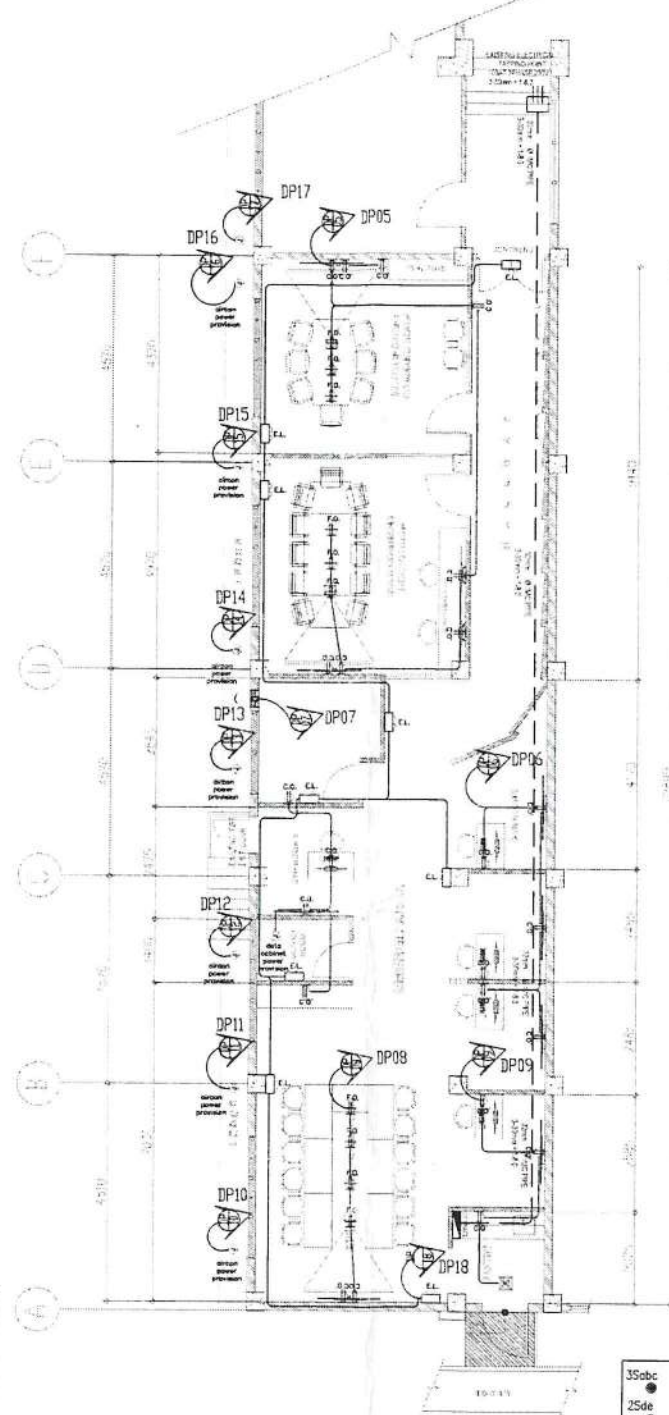
CONTRACTOR:		ARCHITECT:		ENDORSED BY:		PROJECT TITLE:		RECOMMENDING APPROVAL:		APPROVED:		SHEET CONTENT:		ENGINEERING PLANS.			
		 JEAN - PAUL C. LUMPAY, MAP		 AR. ROSALIE G. FLORES-BERNARDO CHIEF, CPDMO		PROPOSED OFFICE FOR DISASTER SIMULATION CENTER  2ND FLOOR, JOAQUIN GONZALES COMPOUND UNIVERSITY OF THE PHILIPPINES MANILA		 CARLOS PRIMERO D. GUNDRAN, MD PROJECT MANAGER		 CARMENCITA D. PADILLA, MD, MAHPS PROFESSOR & CHANCELLOR				DATE ISSUED:		SHEET NO.:	
		PREC NO. : 2475      PREC NO. : 120422 DATE HQ : 123-10-1977      ISSUED ON : 02-28-19 DATED : 2004-10-19-19      SIGNED AT : MANILA CITY						 MICHAEL L. TEE, MD, MHPed, MBA VICE CHANCELLOR FOR PLANNING AND DEVELOPMENT		 ARLENE A. SAMANIEGO, MD VICE CHANCELLOR FOR ADMINISTRATION				DATE COMPLETED:		A6	
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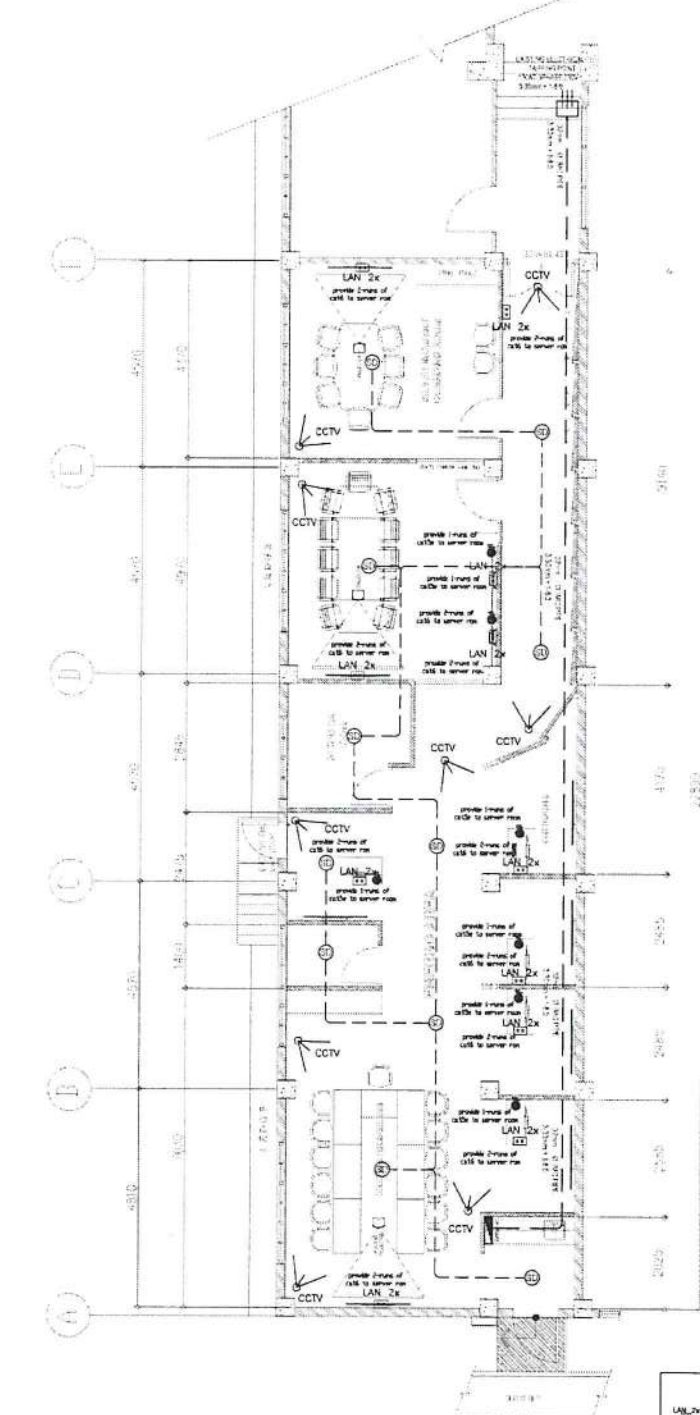
1 LIGHTING LAYOUT PLAN  
E1 SCALE 1:90 MTS

- LEGEND OF SYMBOLS
- 8" dia. - 12W LED RECESSED DOWNLIGHT (daylight)
  - SURFACE MOUNTED DOWNLIGHT
  - WALL MOUNTED SPOTLIGHT
  - LED STRIP LIGHT (warm white)
  - ☒ 12" CEILING MOUNTED EXHAUST FAN
  - ☒ 12" WALL MOUNTED EXHAUST FAN
  - ✕ ORBIT FAN



2 POWER LAYOUT PLAN  
E1 SCALE 1:90 MTS

- 3Sabc 30AMP SWITCH ASSIGN
- 2Sde 20AMP SWITCH ASSIGN
- 1SF 10AMP SWITCH ASSIGN
- JUNCTION BOX AIRCON POWER PROVISION
- 2-SANG CONVENIENCE OUTLET



3 AUXILIARY LAYOUT PLAN  
E1 SCALE 1:90 MTS

- LAN 2x DATA OUTLET
- TEL OUTLET

CONTRACTOR:	PROF. ELECTRICAL ENGINEER:	APPROVED BY:	PROJECT TITLE:	RECOMMENDING APPROVAL:	APPROVED:	SHEET CONTENT:	DATE ISSUED:	SHEET NO.:
MAYNARD M. DAVID PROFESSIONAL ELECTRICAL ENGINEER PRC No. 3376 TIN No. 139 817 100 PTR No. 5 JANUARY 05, 2019	AR. ROSALE G. FLORES-BERNARDO CHIEF, CPDMO	AR. ROSALE G. FLORES-BERNARDO CHIEF, CPDMO	PROPOSED OFFICE FOR DISASTER SIMULATION CENTER 2ND FLOOR, JOAQUIN GONZALES COMPOUND UNIVERSITY OF THE PHILIPPINES MANILA	CARLOS PRIMERO D. GUNDRAN, MD PROJECT MANAGER MICHAEL L. TEE, MD, MHPed, MBA VICE CHANCELLOR FOR PLANNING AND DEVELOPMENT ARLENE A. SAMANIEGO, MD VICE CHANCELLOR FOR ADMINISTRATION	CARMENCITA D. PADILLA, MD, MAHPS PROFESSOR & CHANCELLOR		DATE COMPLETED: REVISION NO./DATE: REF. NO.: CADD BY: DWG FILE:	E1 7 OF 10



## GENERAL NOTES :

ALL ELECTRICAL WORKS HEREIN SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING CODE, PROVISION OF THE LATEST APPROVED EDITION OF THE PHILIPPINE ELECTRICAL CODE, THE LAWS AND ORDINANCES OF THE LOCAL CODE ENFORCING AUTHORITIES AND REQUIREMENTS OF THE LOCAL POWER, TELEPHONE COMPANY AND BUILDING ADMINISTRATION REQUIREMENTS.

- CONTRACTOR SHALL SECURE ALL WIRING PERMIT AND ALL FEES REQUIRED FOR THE WORKS AND FURNISH THE OWNER THE FINAL CERTIFICATE OF ELECTRICAL INSPECTION.
- CONTRACTOR TO CONDUCT EARTH GROUND TEST, WIRE INSULATION AND LOAD TEST SHALL BE CONDUCTED UPON COMPLETION OF WORKS.
- IN CASE OF ANY DISCREPANCY BETWEEN PLANS AND SITE CONDITION, SPECIFICATION AND REVISIONS/ CHANGES, THE CONTRACTOR SHOULD IMMEDIATELY VERIFY AND CONSULT TO/ WITH ELECTRICAL ENGINEER.
- ALL LOCATION AND MOUNTING HEIGHT ARE SUBJECT TO APPROVAL OF ELECTRICAL ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE IN THE PREPARATION OF ELECTRICAL AS-BUILT PLANS DULY SIGNED AND SEALED BY PROFESSIONAL ELECTRICAL ENGINEER, AND ELECTRONIC AUTOCAD FILES.
- FINAL LIGHTING FIXTURES FINISHES AND WIRING DEVICES SHALL BE APPROVED BY OWNER REPRESENTATIVE/ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARATION OF SHOP OR CONSTRUCTION DRAWING REQUIRED BY OWNER/ARCHITECT/ENGINEERS. DRAWING SHALL BE PREPARED BY CONTRACTOR QUALIFIED ENGINEER. THIS INCLUDES DEVICES AND FIXTURES ELEVATION.
- CONTRACTOR'S TO VISIT SITE CONDITION AND INCLUDE ALL COST NECESSARY TO COMPLETE THE SYSTEM AT NO COST TO OWNER, INCLUDING COST OF CORING SERVICE AND EXPENSES FOR THE RESTORATION ANY DAMAGE/ AFFECTED CIVIL /ARCH'L FINISHES OR RELOCATION OF EXISTING FACILITIES ON BUILDING.
- CONTRACTOR'S TO LOCATE ALL SPACING BOXES TO ACCESSIBLE PLACE OR WITH ACCESS PANELS.
- NOMINATED CONTRACTOR TO VERIFY ALL EQUIPMENTS TO BE INSTALLED OR PLACE WITHIN THE STORE, AND MAKE AN ADJUSTMENT WITH OWNER'S/ ARCHITECT CONSENT.
- THIS DRAWING ARE DIAGRAMMATIC LAYOUT ONLY. ANY MATERIALS AND FITTING NOT SHOWN ON THIS PLANS BUT NEEDED TO COMPLETE THE SYSTEM AND OPERATION SHALL BE INCLUDED WITH THE CONTRACTOR SCOPE OF WORKS.

## SPECIFICATIONS

- ALL WORKS SHOULD BE DONE UNDER DIRECT SUPERVISION OF LICENSE REGISTERED ELECTRICAL ENGINEER OR REGISTERED MASTER ELECTRICIAN
- POWER SERVICE TO THE BLDG SHALL BE 400V 3ø (L-L), 230V 1ø (L-N) 4W+GRD. 60 HZ
- ALL MATERIALS TO BE USED SHALL BE NEW AND APPROVED TYPE FOR LOCATION.
- NORMAL AND EMERGENCY CIRCUIT SHALL NOT BE COMBINE IN ONE RACEWAY
- ALL WIRES SHOULD HAVE A MAXIMUM LOAD OF 80% OF WIRE CAPACITY
- RECEPTACLES FOR GENERAL USE SHALL BE DUPLEX 20A 250VAC GRND TYPE
- LIGHT SWITCHES MINIMUM RATING SHALL BE 20A 250VAC
- ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND HAVE A "P.S." MARKS
  - LIGHT SWITCHES - 1.37 M ABOVE FLOOR FINISH
  - CONVENIENCE OUTLETS - 0.30 M ABOVE FLOOR FINISH
  - TELEPHONE OUTLETS - 0.30 M ABOVE FLOOR FINISH
  - PANELBOARD - 1.80 M ABOVE FLOOR FINISH
- CONDUIT/PIPE EMBEDDED WITHIN CONCRETE WALL SHALL HAVE A MINIMUM CEMENT PLASTERED OF 20MM THICK.
- ALL LIGHTING FIXTURES SHOULD HAVE INDEPENDENT HANGER / SUPPORTS.
- ALL CONDUIT/PIPE ABOVE CEILING SHOULD HAVE INDEPENDENT HANGER/SUPPORTS.
- ALL BOXES SHALL BE OCCUPIED ONLY OF 50% OF WIRES VOLUME.
- WIRE VOLTAGE DROP SHALL BE LIMITED TO 3% FROM SOURCE TO PANELBOARD, OR ACCEPTABLE TO OWNER'S EQUIPMENT.
- CIRCUIT BREAKER SERVING MOTORS AND LIGHTING LOAD SHALL BE INDUSTRIAL AND COMMERCIAL BOLT-ON TYPE RESPECTIVELY, WITH MINIMUM OF 14KAIC.
- ALL WIRES AND CABLES SHALL BE P.DODGE/ PHILFLEX OR DUPLEX BRAND.
- ALL CONDUIT AND FITTINGS SHALL BE IMC FOR LIGHT AND POWER TELEPHONE AND DATA SYSTEM, OR EQUIVALENT CONDUIT APPROVED BY BUILDING CONSTRUCTION GUIDELINES.

## ADDITIONAL NOTES:

- USE OF MICA TUBING SHALL BE LIMITED TO SIX INCHES (6") MAXIMUM.
- USE OF FLEXIBLE METALLIC CONDUIT (FMC) SHALL BE LIMITED TO ONE METER (1M) MAX.
- PROVIDE PROPER CONDUIT SUPPORT, GI. WIRES AS SUPPORT IS NOT ALLOWED.
- PROVIDE DOUBLE-COAT OF RUST-PROTECTIVE PAINT (RED-OXIDE PRIMER) ON HANGERS AND SUPPORTS (WITH A DISTANCE OF 1500mm)

## WIRE COLOR CODING IS STRICTLY ENFORCE:

- L1 - BLACK
- L2 - RED
- L3 - BLUE
- GROUND - GREEN

## PREFERRED BRANDS OF PANEL BOARD

- SQUARE-D } ALL MUST BE BOLT ON.
- SCHNEIDER } INDUSTRIAL TYPE

## USE IMC TO ALL ELECTRICAL WIRING LAYOUT

- PROVIDE (600mm x 600mm) MANHOLE NEAR SPACING BOX

## SHORT CIRCUIT CALCULATION

TRANSFORMER CAPACITY = FULL LOAD AMPERE OF TRANSFORMER

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

MULTIPLIER = 100

TRANSFORMER RATIO = 100

SC = 25.103

1.1 = SHORT CIRCUIT CURRENT @ SECONDARY TRANSFORMER

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

1.2 = SHORT CIRCUIT CURRENT @ MAIN BUS

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

1.3 = SHORT CIRCUIT CURRENT @ BUS TO UP

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

1.4 = SHORT CIRCUIT CURRENT @ BUS TO DOWN

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

1.5 = SHORT CIRCUIT CURRENT @ BUS TO F1

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

1.6 = SHORT CIRCUIT CURRENT @ BUS TO F2

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

1.7 = SHORT CIRCUIT CURRENT @ BUS TO F3

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

1.8 = SHORT CIRCUIT CURRENT @ BUS TO F4

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

1.9 = SHORT CIRCUIT CURRENT @ BUS TO F5

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

2.0 = SHORT CIRCUIT CURRENT @ BUS TO F6

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

2.1 = SHORT CIRCUIT CURRENT @ BUS TO F7

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

2.2 = SHORT CIRCUIT CURRENT @ BUS TO F8

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

2.3 = SHORT CIRCUIT CURRENT @ BUS TO F9

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

2.4 = SHORT CIRCUIT CURRENT @ BUS TO F10

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

2.5 = SHORT CIRCUIT CURRENT @ BUS TO F11

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

2.6 = SHORT CIRCUIT CURRENT @ BUS TO F12

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

2.7 = SHORT CIRCUIT CURRENT @ BUS TO F13

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

2.8 = SHORT CIRCUIT CURRENT @ BUS TO F14

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

2.9 = SHORT CIRCUIT CURRENT @ BUS TO F15

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

3.0 = SHORT CIRCUIT CURRENT @ BUS TO F16

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

3.1 = SHORT CIRCUIT CURRENT @ BUS TO F17

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

3.2 = SHORT CIRCUIT CURRENT @ BUS TO F18

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

3.3 = SHORT CIRCUIT CURRENT @ BUS TO F19

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

3.4 = SHORT CIRCUIT CURRENT @ BUS TO F20

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

3.5 = SHORT CIRCUIT CURRENT @ BUS TO F21

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

3.6 = SHORT CIRCUIT CURRENT @ BUS TO F22

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

3.7 = SHORT CIRCUIT CURRENT @ BUS TO F23

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

3.8 = SHORT CIRCUIT CURRENT @ BUS TO F24

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

3.9 = SHORT CIRCUIT CURRENT @ BUS TO F25

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

4.0 = SHORT CIRCUIT CURRENT @ BUS TO F26

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

4.1 = SHORT CIRCUIT CURRENT @ BUS TO F27

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

4.2 = SHORT CIRCUIT CURRENT @ BUS TO F28

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

4.3 = SHORT CIRCUIT CURRENT @ BUS TO F29

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

4.4 = SHORT CIRCUIT CURRENT @ BUS TO F30

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

4.5 = SHORT CIRCUIT CURRENT @ BUS TO F31

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

4.6 = SHORT CIRCUIT CURRENT @ BUS TO F32

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

4.7 = SHORT CIRCUIT CURRENT @ BUS TO F33

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

4.8 = SHORT CIRCUIT CURRENT @ BUS TO F34

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

4.9 = SHORT CIRCUIT CURRENT @ BUS TO F35

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

5.0 = SHORT CIRCUIT CURRENT @ BUS TO F36

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

5.1 = SHORT CIRCUIT CURRENT @ BUS TO F37

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

5.2 = SHORT CIRCUIT CURRENT @ BUS TO F38

$$I_{sc} = \frac{I_{FL}}{V_{L}/V_{R}} = \frac{100 \times 1000}{230 \times 1.732} = 251.03 \text{ Amps}$$

## VOLTAGE DROP COMPUTATION

FROM POWER SOURCE (IN FEEDER TO MAIN PANEL)

1. APPROXIMATE LENGTH OF FEEDER (IN FEET)

2. TOTAL FULL LOAD CURRENT @ 100% OF

3. WIRE SIZE

4. WIRE TYPE

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76. WIRE TYPE

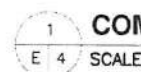
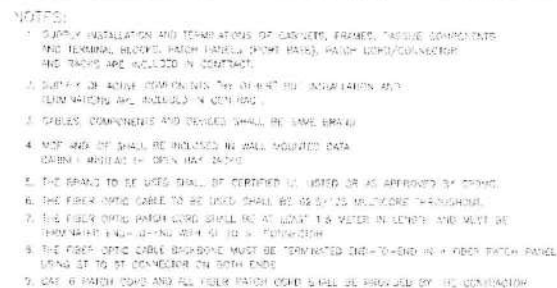
77. WIRE SIZE

78. WIRE TYPE

79. WIRE SIZE

80. WIRE TYPE





4. SEE  FOR EQUIPMENT/ACCESSORIES SCHEDULE

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