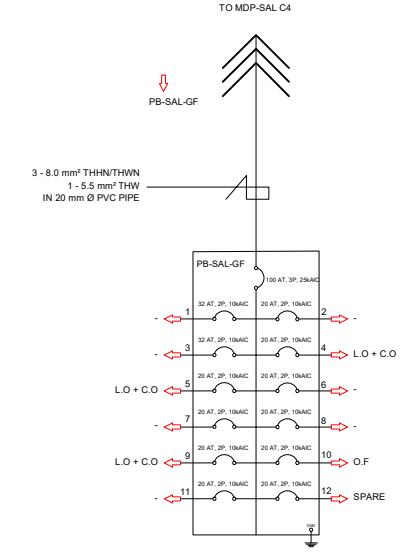
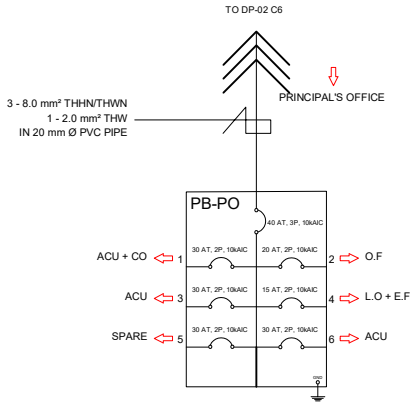



**PB-SAL-GF**

| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Total VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | | | NO LOAD | 230 | SINGLE | 0.00 | 0.00 | | | 32 | | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 2 | | | NO LOAD | 230 | SINGLE | 0.00 | 0.00 | | | 20 | | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 3 | | | NO LOAD | 230 | SINGLE | 0.00 | | | 0.00 | 32 | | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 4 | 17 | 2220 | 6 x 48" TUBE LIGHT + 11 x CONVENIENCE OUTLET | 230 | SINGLE | 2.22 | | | 9.65 | 20 | | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 5 | 20 | 3080 | 6 x 48" TUBE LIGHT + 14 x CONVENIENCE OUTLET | 230 | SINGLE | 3.08 | | 13.39 | | 20 | | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 6 | | | NO LOAD | 230 | SINGLE | 0.00 | | 0.00 | | 20 | | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 7 | | | NO LOAD | 230 | SINGLE | 0.00 | 0.00 | | | 20 | | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 8 | | | NO LOAD | 230 | SINGLE | 0.00 | 0.00 | | | 20 | | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 9 | 17 | 2540 | 6 x 48" TUBE LIGHT + 11 x CONVENIENCE OUTLET | 230 | SINGLE | 2.54 | | | 11.04 | 20 | | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 10 | 20 | 1300 | 20 x ORBIT FAN | 230 | SINGLE | 1.30 | | | 5.65 | 20 | | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 11 | | | NO LOAD | 230 | SINGLE | 0.00 | | 0.00 | | 20 | | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 12 | | | SPARE | 230 | SINGLE | 0.00 | | 0.00 | | 20 | | 2 | | - | - | - |
| **TOTAL CURRENT IN EACH PHASE (AMPERES)** | | | | | | | 0.00 | 13.39 | 26.35 | | | | | | | |
| **INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS** | | | | | | | | | | **100** | | **3** | **3-8.0 mm2 THHN/THWN** | **-** | **-** | **-** |

| | | | |
|---|---|---|---|
| **TOTAL CURRENT IN AMPERES** | 39.74 | COMPUTATIONS: | |
| | | **SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR** | **SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR** |
| **TOTAL CONNECTED LOAD VA** | 9140 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 5.65 + [[1.732 x [1.25 x 7.57 + 26.35 - 7.57]]+ 0] x 0.8<br>**IC = 46.2 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 5.65 + [[1.732 x [1.25 x 7.57 + 26.35 - 7.57]]+ 0] x 0.8<br>**IP = 53.26 Amperes** |
| **ENCLOSURE** | NEMA - 1 | USE: 3-8.0 mm2 THHN/THWN, Stranded, Copper | USE: 100 AT, INVERSE TIME, 230V, 3P |




**PB - PRINCIPAL'S OFFICE (PO)**

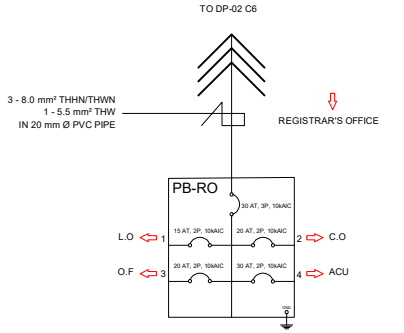
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Total VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 7 | 7200 | ACU + 6 x CONVENIENCE OUTLET | 230 | SINGLE | 7.20 | 31.30 | | | 30 | - | 2 | 2-5.5 mm2 + 2-3.5 mm2 TW | - | 1-2.0 mm2 THHN/THWN | - |
| 2 | 3 | 195 | 3 x ORBIT FAN | 230 | SINGLE | 0.20 | 0.85 | | | 20 | - | 2 | 2-5.5 mm2 + 2-5.5 mm2 TW | - | 1-2.0 mm2 THHN/THWN | - |
| 3 | 1 | 1492 | ACU | 230 | SINGLE | 1.49 | | | 6.49 | 30 | - | 2 | 2-5.5 mm2 TW | - | 1-2.0 mm2 THHN/THWN | - |
| 4 | 10 | 368 | 6 x 48" TUBE LIGHT + 4 x LIGHT BULB + 2 x EXHAUST FAN | 230 | SINGLE | 0.37 | | | 1.60 | 15 | - | 2 | 2-5.5 mm2 TW | - | 1-2.0 mm2 THHN/THWN | - |
| 5 | | | SPARE | 230 | SINGLE | 0.00 | | 0.00 | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 6 | 1 | 3000 | ACU | 230 | SINGLE | 3.00 | | 13.04 | | 30 | - | 2 | 2-5.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| **TOTAL CURRENT IN EACH PHASE (AMPERES)** | | | | | | | 32.15 | 13.04 | 8.09 | | | | | | | |
| **INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS** | | | | | | | | | | **40** | **-** | **3** | | **-** | | **-** |

| | | | |
|---|---|---|---|
| **TOTAL CURRENT IN AMPERES** | 53.28 | COMPUTATIONS: | |
| | | **SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR** | **SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR** |
| **TOTAL CONNECTED LOAD VA** | 12255 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 13.04 + [[1.732 x [1.25 x 5.37 + 32.15 - 5.37]]+ 0] x 0.8<br>**IC = 62.71 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 13.04 + [[1.732 x [1.25 x 5.37 + 32.15 - 5.37]]+ 0] x 0.8<br>**IP = 79 Amperes** |
| **ENCLOSURE** | NEMA - 1 | USE: 3-8.0 mm2 THHN/THWN, Stranded, Copper | USE: 40 AT, INVERSE TIME, 230V, 3P |

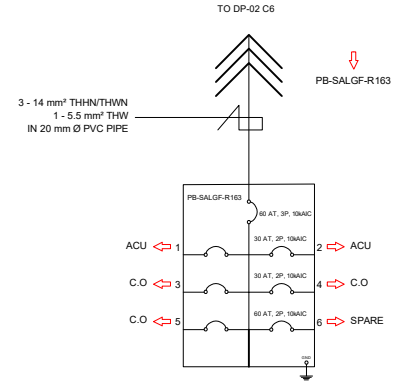
| CHECKED / REVIEWED BY: | UNDER THE DIRECT SUPERVISION OF : | SEAL | |
|---|---|---|---|
| | | | R.A. 9266 Section 33<br>Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, wether executed partly in whole, without the written consent of architect or author of said documents. |

| PROJECT TITLE : | PROJECT OWNER: | DRAWING CONTENTS |
|---|---|---|
| DON SIMPLICIO A. LIZARES BUILDING<br>SCHEDULE OF LOADS | EE481 EEK2414 CAPSTONE 1 | |
| LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | |

| DESIGNED BY: TANO | ISSUED FOR: | REVISIONS: | | | DRAWING NO. |
|---|---|---|---|---|---|
| DATE DRAFTED: 09-04-2024 | ☐ OWNER'S APPROVAL | NO. | DATE | DESCRIPTION | |
| DATE UPDATED: 09-15-2024 | ☐ AS-BUILT | | | | |
| DRAFTED BY: RAS OBISO | ☐ BIDDING | | | | |
| APPROVED BY: | ☐ BUILDING PERMIT | | | | |
| | ☐ CONSTRUCTION | | | | |
| | ☐ ESTIMATE | | | | |
| | ☐ FABRICATION | PROJECT CODE: | | | |

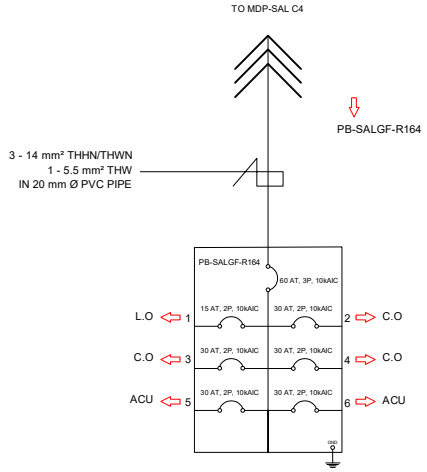



| PB - REGISTRAR'S OFFICE (RO) | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
| | QTY. | Total VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 10 | 168 | 8 x FLUORESCENT LIGHT + 2 x LIGHT BULB | 230 | SINGLE | 0.17 | 0.73 | | | 15 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 2 | 20 | 9439 | 20 x CONVENIENCE OUTLET | 230 | SINGLE | 9.44 | 41.04 | | | 20 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 3 | 4 | 260 | 4 x ORBIT FAN | 230 | SINGLE | 0.26 | | | 1.13 | 20 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 4 | 1 | 3000 | ACU | 230 | SINGLE | 3.00 | | | 13.04 | 30 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 41.77 | 0.00 | 14.17 | | | | | | | |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 30 | - | 3 | 3-8.0 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN AMPERES | | 55.94 | COMPUTATIONS: | | | | | | | | | | | | | |
| | | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | | | | | | | | | | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR | | | |
| TOTAL CONNECTED LOAD VA | | 12867 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 13.04 + [[1.732 x [1.25 x 40.55 + 41.77 - 40.55]]+ 0] x 0.80<br>**IC = 88.22 Amperes** | | | | | | | | | | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 13.04 + [[1.732 x [1.25 x 40.55 + 41.77 - 40.55]]+ 0] x 0.80<br>**IP = 104.52 Amperes** | | | |
| ENCLOSURE | | NEMA - 1 | USE: 3-8.0 mm2 THHN/THWN, Stranded, Copper | | | | | | | | | | USE: 30 AT, INVERSE TIME, 230V, 3P | | | |




| PB-SAL-R163 | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
| | QTY. | Total VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 1 | 1492 | ACU | 230 | SINGLE | 1.49 | 6.49 | | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | 1-3.5 mm2 THHN/THWN | - |
| 2 | 1 | 1492 | ACU | 230 | SINGLE | 1.49 | 6.49 | | | 30 | - | 2 | 2-5.5 mm2 THHN/THWN | - | 1-3.5 mm2 THHN/THWN | - |
| 3 | 8 | 180 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 0.18 | | | 0.78 | 40 | - | 2 | 2-5.5 mm2 THHN/THWN | - | 1-3.5 mm2 THHN/THWN | - |
| 4 | 8 | 1600 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 1.60 | | | 6.96 | 30 | - | 2 | 2-5.5 mm2 + 2-5.5 mm2 THHN/THWN | - | 1-3.5 mm2 THHN/THWN | - |
| 5 | 12 | 2320 | 12 x CONVENIENCE OUTLET | 230 | SINGLE | 2.32 | | 10.09 | | 40 | - | 2 | 2-5.5 mm2 THHN/THWN | - | 1-3.5 mm2 THHN/THWN | - |
| 6 | | | SPARE | 230 | SINGLE | 0.00 | | 0.00 | | 60 | - | 2 | 2-5.5 mm2 + 2-3.5 mm2 THHN/THWN | - | 1-3.5 mm2 THHN/THWN | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 12.97 | 10.09 | 7.74 | | | | | | 1-3.5 mm2 THHN/THWN | |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 60 | - | 3 | 3-14 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN AMPERES | | 30.80 | COMPUTATIONS: | | | | | | | | | | | | | |
| | | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | | | | | | | | | | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR | | | |
| TOTAL CONNECTED LOAD VA | | 7084 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 6.49 + [[1.732 x [1.25 x 1.49 + 12.97 - 1.49]]+ 0] x 0.80<br>**IC = 26.6 Amperes** | | | | | | | | | | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 6.49 + [[1.732 x [1.25 x 1.49 + 12.97 - 1.49]]+ 0] x 0.80<br>**IP = 34.71 Amperes** | | | |
| ENCLOSURE | | NEMA - 1 | USE: 3-14 mm2 THHN/THWN, Stranded, Copper | | | | | | | | | | USE: 60 AT, INVERSE TIME, 230V, 3P | | | |

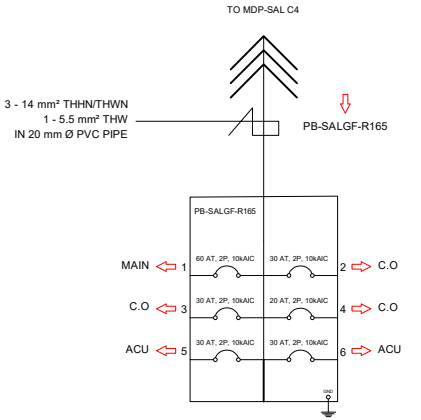
| CHECKED / REVIEWED BY: | UNDER THE DIRECT SUPERVISION OF : | SEAL | R.A. 9266 Section 33 | PROJECT TITLE : | PROJECT OWNER: | DRAWING CONTENTS | DESIGNED BY: TANO | ISSUED FOR: | REVISIONS: | | | DRAWING NO. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, wether executed partly in whole, without the written consent of architect or author of said documents. | DON SIMPLICIO A. LIZARES BUILDING SCHEDULE OF LOADS | EE481 EEK2414 CAPSTONE 1 | | DATE DRAFTED: 09-04-2024 | ☐ OWNER'S APPROVAL | NO. | DATE | DESCRIPTION | |
| | | | | | | | DATE UPDATED: 09-15-2024 | ☐ AS-BUILT | | | | |
| | | | | | | | DRAFTED BY: RAS OBISO | ☐ BIDDING | | | | |
| | | | | LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | | APPROVED BY: | ☐ BUILDING PERMIT | | | | |
| | | | | | | | | ☐ CONSTRUCTION | | | | |
| | | | | | | | | ☐ ESTIMATE | | | | |
| | | | | | | | | ☐ FABRICATION | PROJECT CODE: | | | |




**PB-SAL-R164**

| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Total VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 12 | 480 | 12 x 48" TUBE LIGHT | 230 | SINGLE | 0.48 | 2.09 | | | 15 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 2 | 8 | 1440 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 1.44 | 6.26 | | | 30 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 3 | 9 | 1620 | 9 x CONVENIENCE OUTLET | 230 | SINGLE | 1.62 | | | 7.04 | 30 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 4 | 13 | 1417 | 13 x CONVENIENCE OUTLET | 230 | SINGLE | 1.42 | | | 6.16 | 30 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 5 | 1 | 1492 | ACU | 230 | SINGLE | 1.49 | | 6.49 | | 30 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 6 | 1 | 1492 | ACU | 230 | SINGLE | 1.49 | | 6.49 | | 30 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 8.35 | 12.97 | 13.20 | | | | | | | |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 60 | - | 3 | 3-14 mm2 THHN/THWN | - | - | - |

| | | | |
|---|---|---|---|
| TOTAL CURRENT IN AMPERES | 34.53 | COMPUTATIONS:<br>SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR |
| TOTAL CONNECTED LOAD VA | 7941 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 6.49 + [[1.732 x [1.25 x 2.09 + 13.20 - 2.09]]+ 0] x 0.80<br>**IC = 27.13 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 6.49 + [[1.732 x [1.25 x 2.09 + 13.20 - 2.09]]+ 0] x 0.80<br>**IP = 35.24 Amperes** |
| ENCLOSURE | NEMA - 1 | USE: 3-14 mm2 THHN/THWN, Stranded, Copper | USE: 60 AT, INVERSE TIME, 230V, 3P |




**PB-SAL-R165**

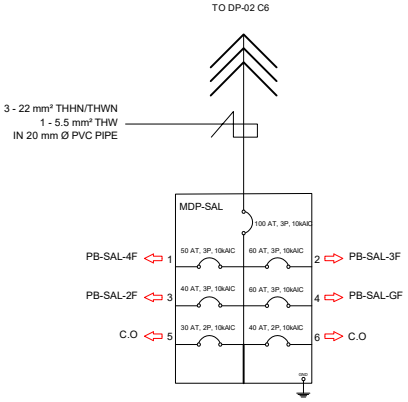
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Total VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 9 | 1620 | 9 x CONVENIENCE OUTLET | 230 | SINGLE | 1.62 | 7.04 | | | 30 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 2 | 11 | 1980 | 11 x CONVENIENCE OUTLET | 230 | SINGLE | 1.98 | 8.61 | | | 30 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 3 | 9 | 1800 | 9 x CONVENIENCE OUTLET | 230 | SINGLE | 1.80 | | | 7.83 | 20 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 4 | 1 | 1492 | ACU | 230 | SINGLE | 1.49 | | | 6.49 | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 5 | 1 | 1492 | ACU | 230 | SINGLE | 1.49 | | 6.49 | | 30 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 15.65 | 6.49 | 14.31 | | | | | | | |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 60 | - | 3 | 3-14 mm2 THHN/THWN | - | - | - |

| | | | |
|---|---|---|---|
| TOTAL CURRENT IN AMPERES | 36.45 | COMPUTATIONS:<br>SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR |
| TOTAL CONNECTED LOAD VA | 8384 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 6.49 + [[1.732 x [1.25 x 1.48 + 15.65 - 1.48]]+ 0] x 0.80<br>**IC = 30.31 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 6.49 + [[1.732 x [1.25 x 1.48 + 15.65 - 1.48]]+ 0] x 0.80<br>**IP = 38.42 Amperes** |
| ENCLOSURE | NEMA - 1 | USE: 3-14 mm2 THHN/THWN, Stranded, Copper | USE: 60 AT, INVERSE TIME, 230V, 3P |

| CHECKED / REVIEWED BY: | UNDER THE DIRECT SUPERVISION OF : | SEAL | R.A. 9266 Section 33 |
|---|---|---|---|
| | | | Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, wether executed partly in whole, without the written consent of architect or author of said documents. |

| PROJECT TITLE : | PROJECT OWNER: | DRAWING CONTENTS |
|---|---|---|
| DON SIMPLICIO A. LIZARES BUILDING<br>SCHEDULE OF LOADS | EE481 EEK2414 CAPSTONE 1 | |
| LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | |

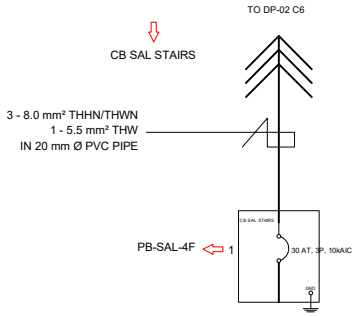
| DESIGNED BY: TANO | ISSUED FOR: | REVISIONS: | | | DRAWING NO. |
|---|---|---|---|---|---|
| DATE DRAFTED: 09-04-2024 | ☐ OWNER'S APPROVAL | NO. | DATE | DESCRIPTION | |
| DATE UPDATED: 09-15-2024 | ☐ AS-BUILT | | | | |
| DRAFTED BY: RAS OBISO | ☐ BIDDING | | | | |
| APPROVED BY: | ☐ BUILDING PERMIT | | | | |
| | ☐ CONSTRUCTION | | | | |
| | ☐ ESTIMATE | | | | |
| | ☐ FABRICATION | PROJECT CODE: | | | |




**MDP SAL**

| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Total VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 1 | 15516 | PB-SAL-4F | 230 | THREE | 15.52 | 0.00 | 12.00 | 24.96 | 50 | - | 3 | 3-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 2 | 1 | 12602 | PB-SAL-3F | 230 | THREE | 12.60 | 17.27 | 15.00 | 22.51 | 60 | - | 3 | 3-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 3 | 1 | 21818 | PB-SAL-2F | 230 | THREE | 21.82 | 27.58 | 24.45 | 42.83 | 40 | - | 3 | 3-5.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 4 | 1 | 9710 | PB-SAL-GF + 2 x ORBIT FAN + 6 x CONVENIENCE OUTLET | 230 | THREE | 9.71 | 0.00 | 12.00 | 31.79 | 60 | - | 3 | 3-5.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 5 | 3 | 540 | 3 x CONVENCIENCE OUTLET | 230 | SINGLE | 0.54 | | 2.35 | | 30 | - | 2 | 2 x 2-5.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 6 | 2 | 360 | 2 x CONVENIENCE OUTLET | 230 | SINGLE | 0.36 | | 1.57 | | 40 | | 2 | 2-5.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| **TOTAL CURRENT IN EACH PHASE (AMPERES)** | | | | | | | 44.85 | 67.36 | 122.09 | | | | | | | |
| **INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS** | | | | | | | | | | **100** | **-** | **3** | **3-22 mm2 THW** | **-** | | **-** |

| | | | |
|---|---|---|---|
| **TOTAL CURRENT IN AMPERES** | 234.30 | COMPUTATIONS: | |
| | | **SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR** | **SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR** |
| **TOTAL CONNECTED LOAD VA** | 60546 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 12 + [[1.732 x [1.25 x 111.13 + 65.30 - 111.13]]+ 0] x 0.73<br>**IC = 132.69 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 12 + [[1.732 x [1.25 x 111.13 + 65.30 - 111.13]]+ 0] x 0.73<br>**IP = 147.69 Amperes** |
| **ENCLOSURE** | NEMA - 1 | USE: 3-22 mm2 THW, Stranded, Copper | USE: 100 AT, INVERSE TIME, 230V, 3P |




**CB-SAL-STAIRS**

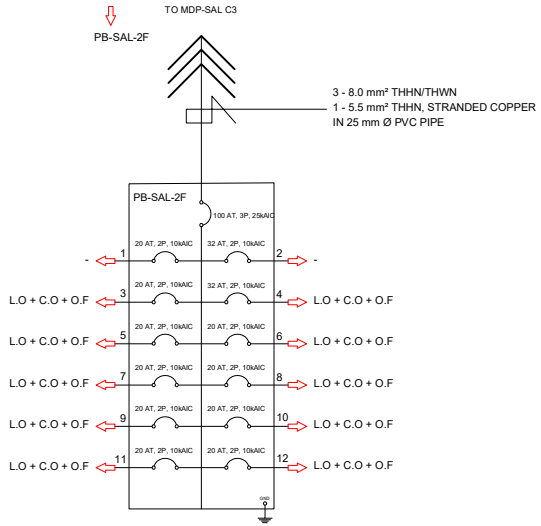
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Total VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 42 | 1815 | 14 x 24" TUBE LIGHT + 13 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x LED STRIP LIGHT + 7 x LIGHT BULB + 15 x DOWNLIGHT | 230 | SINGLE | 1.82 | 7.89 | | | 30 | - | 3 | 2-5.5 mm2 + 2-3.5 mm2 THHN/THWN | - | - | 32 mmØ PVC PIPE |
| **TOTAL CURRENT IN EACH PHASE (AMPERES)** | | | | | | | 7.89 | 0.00 | 0.00 | | | | | | | |
| **INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS** | | | | | | | | | | **30** | **-** | **3** | **3-8.0 mm2 THHN/THWN** | **-** | **-** | |

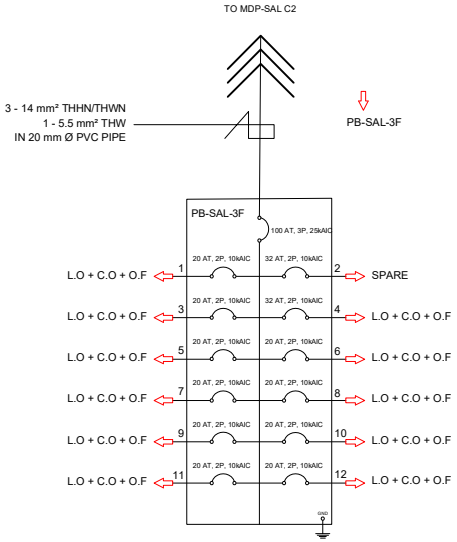
| | | | |
|---|---|---|---|
| **TOTAL CURRENT IN AMPERES** | 7.89 | COMPUTATIONS: | |
| | | **SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR** | **SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR** |
| **TOTAL CONNECTED LOAD VA** | 1815 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 0.28 + [[1.732 x [1.25 x 5.78 + 7.89 - 5.78]]+ 0] x 0.80<br>**IC = 16.52 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 0.28 + [[1.732 x [1.25 x 5.78 + 7.89 - 5.78]]+ 0] x 0.80<br>**IP = 16.87 Amperes** |
| **ENCLOSURE** | NEMA - 1 | USE: 3-8.0 mm2 THHN/THWN, Stranded, Copper | USE: 30 AT, INVERSE TIME, 230V, 3P |

| CHECKED / REVIEWED BY: | UNDER THE DIRECT SUPERVISION OF : | SEAL | R.A. 9266 Section 33 |
|---|---|---|---|
| | | | Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, wether executed partly in whole, without the written consent of architect or author of said documents. |

| PROJECT TITLE : | PROJECT OWNER: | DRAWING CONTENTS | DESIGNED BY: TANO |
|---|---|---|---|
| DON SIMPLICIO A. LIZARES BUILDING<br>SCHEDULE OF LOADS | EE481 EEK2414 CAPSTONE 1 | | DATE DRAFTED: 09-04-2024<br>DATE UPDATED: 09-15-2024<br>DRAFTED BY: RAS OBISO<br>APPROVED BY: |
| LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | | |

| ISSUED FOR: | REVISIONS: | | | DRAWING NO. |
|---|---|---|---|---|
| ☐ OWNER'S APPROVAL | NO. | DATE | DESCRIPTION | |
| ☐ AS-BUILT | | | | |
| ☐ BIDDING | | | | |
| ☐ BUILDING PERMIT | | | | |
| ☐ CONSTRUCTION | | | | |
| ☐ ESTIMATE | | | | |
| ☐ FABRICATION | PROJECT CODE: | | | |




**PB-SAL-2F**

| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Unit VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | | | NO LOAD | 230 | SINGLE | 0.00 | 0.00 | | | 20 | - | 2 | 2-3.5 mm2 THW | - | - | - |
| 2 | | | NO LOAD | 230 | SINGLE | 0.00 | 0.00 | | | 32 | - | 2 | 2-3.5 mm2 THW | - | - | - |
| 3 | 22 | 2213 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 10 x CONVENIENCE OUTLET | 230 | SINGLE | 2.21 | | | 9.62 | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 4 | 30 | 3401 | 6 x 48" TUBE LIGHT + 3 x 24" TUBE LIGHT + 5 x ORBIT FAN + 15 x CONVENIENCE OUTLET | 230 | SINGLE | 3.40 | | | 14.79 | 32 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 5 | 19 | 1912 | 3 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x LIGHT BULB + 8 x CONVENIENCE OUTLET | 230 | SINGLE | 1.91 | | 8.31 | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 6 | 15 | 1445 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 4 x CONVENIENCE OUTLET | 230 | SINGLE | 1.45 | | 6.28 | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 7 | 29 | 2871 | 7 x 48" TUBE LIGHT + 3 x 24" TUBE LIGHT + 5 x ORBIT FAN + 2 x LIGHT BULB + 11 x CONVENIENCE OUTLET | 230 | SINGLE | 2.87 | 12.48 | | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 8 | 28 | 3473 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 16 x CONVENIENCE OUTLET | 230 | SINGLE | 3.47 | 15.10 | | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 9 | 29 | 2825 | 9 x 48" TUBE LIGHT + 2 x LIGHT BULB + 5 x ORBIT FAN + 12 x CONVENIENCE OUTLET | 230 | SINGLE | 2.83 | | | 12.28 | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 10 | 21 | 1162 | 8 x 48" TUBE LIGHT + 4 x 24" TUBE LIGHT + 1 x LIGHT BULB + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.16 | | | 5.05 | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 11 | 16 | 1313 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 4 x CONVENIENCE OUTLET | 230 | SINGLE | 1.31 | | 5.71 | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 12 | 14 | 953 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 2 x CONVENIENCE OUTLET | 230 | SINGLE | 0.95 | | 4.14 | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 27.58 | 24.45 | 41.74 | | | | | | | |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 100 | - | 3 | 3-14 mm2 THHN/THWN | - | - | - |

| | | | |
|---|---|---|---|
| TOTAL CURRENT IN AMPERES | 93.77 | COMPUTATIONS: | |
| | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR |
| TOTAL CONNECTED LOAD VA | 21568 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 15.10 + [[1.732 x [1.25 x 21.8 + 41.74 - 21.8]]+ 0] x 0.80<br>**IC = 84.26 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 15.1 + [[1.732 x [1.25 x 21.8 + 41.74 - 21.8]]+ 0] x 0.80<br>**IP = 103.14 Amperes** |
| ENCLOSURE | NEMA - 1 | USE: 3-14 mm2 THHN/THWN, Stranded, Copper | USE: 100 AT, INVERSE TIME, 230V, 3P |

**PB-SAL-3F**

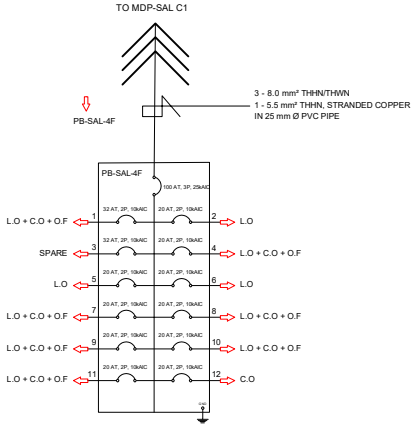
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Unit VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 21 | 1707 | 9 x 48" TUBE LIGHT + 5 x ORBIT FAN + 5 x CONVENIENCE OUTLET | 230 | SINGLE | 1.71 | 7.42 | | | 20 | - | 2 | 2 - 0.75 mm2 TYPE-SP7-1 + 2 - 5.5 mm2 THW | - | - | - |
| 2 | | | SPARE | 230 | SINGLE | 0.00 | 0.00 | | | 32 | - | 2 | | - | - | - |
| 3 | 15 | 1133 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.13 | | | 4.93 | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 4 | 25 | 1779 | 13 x 48" TUBE LIGHT + 5 x ORBIT FAN + 5 x CONVENIENCE OUTLET | 230 | SINGLE | 1.78 | | | 7.73 | 32 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 5 | 15 | 1113 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 2 x CONVENIENCE OUTLET | 230 | SINGLE | 1.11 | | 4.84 | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 6 | 6 | 216 | 6 x 24" TUBE LIGHT | 230 | SINGLE | 0.22 | | 0.94 | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 7 | 15 | 1133 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.13 | 4.93 | | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 8 | 13 | 1133 | 6 x 48" TUBE LIGHT + 3 x ORBIT FAN + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.13 | 4.93 | | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 9 | 15 | 1133 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.13 | | | 4.93 | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 10 | 15 | 1133 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.13 | | | 4.93 | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 11 | 15 | 1133 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.13 | | 4.93 | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 12 | 19 | 989 | 6 x 48" TUBE LIGHT + 6 x 24" TUBE LIGHT + 5 x ORBIT FAN + 1 x CONVENIENCE OUTLET | 230 | SINGLE | 0.99 | | 4.30 | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 17.27 | 15.00 | 22.51 | | | | | | | |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 100 | - | 3 | 3-14 mm2 THHN/THWN | - | - | - |

| | | | |
|---|---|---|---|
| TOTAL CURRENT IN AMPERES | 54.79 | COMPUTATIONS: | |
| | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR |
| TOTAL CONNECTED LOAD VA | 12602 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 7.73 + [[1.732 x [1.25 x 27.04 + 22.51 - 27.04]]+ 0] x 0.8<br>**IC = 50.22 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 7.73 + [[1.732 x [1.25 x 27.04 + 22.51 - 27.04]]+ 0] x 0.8<br>**IP = 59.88Amperes** |
| ENCLOSURE | NEMA - 1 | USE: 3-14 mm2 THHN/THWN, Stranded, Copper | USE: 100 AT, INVERSE TIME, 230V, 3P |

| CHECKED / REVIEWED BY: | UNDER THE DIRECT SUPERVISION OF : | SEAL | R.A. 9266 Section 33 |
|---|---|---|---|
| | | | Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, wether executed partly in whole, without the written consent of architect or author of said documents. |

| PROJECT TITLE : | PROJECT OWNER: | DRAWING CONTENTS | DESIGNED BY: TANO |
|---|---|---|---|
| DON SIMPLICIO A. LIZARES BUILDING<br>SCHEDULE OF LOADS | EE481 EEK2414 CAPSTONE 1 | | DATE DRAFTED: 09-04-2024<br>DATE UPDATED: 09-15-2024<br>DRAFTED BY: RAS OBISO<br>APPROVED BY: |
| LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | | |

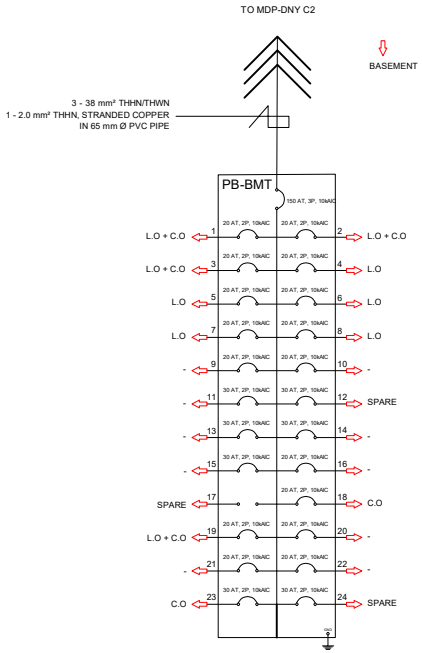
| ISSUED FOR: | REVISIONS: | | | DRAWING NO. |
|---|---|---|---|---|
| ☐ OWNER'S APPROVAL | NO. | DATE | DESCRIPTION | |
| ☐ AS-BUILT | | | | |
| ☐ BIDDING | | | | |
| ☐ BUILDING PERMIT | | | | |
| ☐ CONSTRUCTION | | | | |
| ☐ ESTIMATE | | | | |
| ☐ FABRICATION | PROJECT CODE: | | | |




**PB-SAL-4F**

| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Unit VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 97 | 7220 | 22 x 48" TUBE LIGHT + 34 x 24" TUBE LIGHT + 10 x ORBIT FAN + 29 x CONVENIENCE OUTLET | 230 | SINGLE | 7.22 | 31.39 | | | 32 | - | 2 | 2-8.0 mm2 THW | - | - | - |
| 2 | 12 | 440 | 2 x 48" TUBE LIGHT + 10 x 24" TUBE LIGHT | 230 | SINGLE | 0.44 | 1.91 | | | 20 | - | 2 | 2-3.5 mm2 THW | - | - | - |
| 3 | | | SPARE | 230 | SINGLE | 0.00 | | | 0.00 | 32 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 4 | 15 | 1133 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.13 | | | 4.93 | 20 | - | 2 | 2-3.5 mm2 THW | - | - | - |
| 5 | 5 | 200 | 5 x 48" TUBE LIGHT | 230 | SINGLE | 0.20 | | 0.87 | | 20 | - | 2 | 2-3.5 mm2 THW | - | - | - |
| 6 | 5 | 180 | 5 x 24" TUBE LIGHT | 230 | SINGLE | 0.18 | | 0.78 | | 20 | - | 2 | 2-5.5 mm2 THW | - | - | - |
| 7 | 15 | 1133 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.13 | 4.93 | | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 8 | 15 | 1133 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.13 | 4.93 | | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 9 | 15 | 1133 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.13 | | | 4.93 | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 10 | 15 | 1133 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.13 | | | 4.93 | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 11 | 15 | 1133 | 6 x 48" TUBE LIGHT + 5 x ORBIT FAN + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.13 | | 4.93 | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 12 | 4 | 700 | 3 x CONVENIENCE OUTLET | 230 | SINGLE | 0.70 | | 3.04 | | 20 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 43.16 | 9.62 | 14.78 | | | | | | | |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 125 | - | 3 | 3-14 mm2 THHN/THWN | - | - | - |

| | | | |
|---|---|---|---|
| TOTAL CURRENT IN AMPERES | 67.56 | COMPUTATIONS: | |
| | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR |
| TOTAL CONNECTED LOAD VA | 15538 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 2.83 + [[1.732 x [1.25 x 26.73 + 43.16 - 26.73]]+ 0] x 0.80<br>**IC = 72.6 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 2.83 + [[1.732 x [1.25 x 26.73 + 43.16 - 26.73]]+ 0] x 0.80<br>**IP = 76.14 Amperes** |
| ENCLOSURE | NEMA - 1 | USE: 3-14 mm2 THHN/THWN, Stranded, Copper | USE: 125 AT, INVERSE TIME, 230V, 3P |



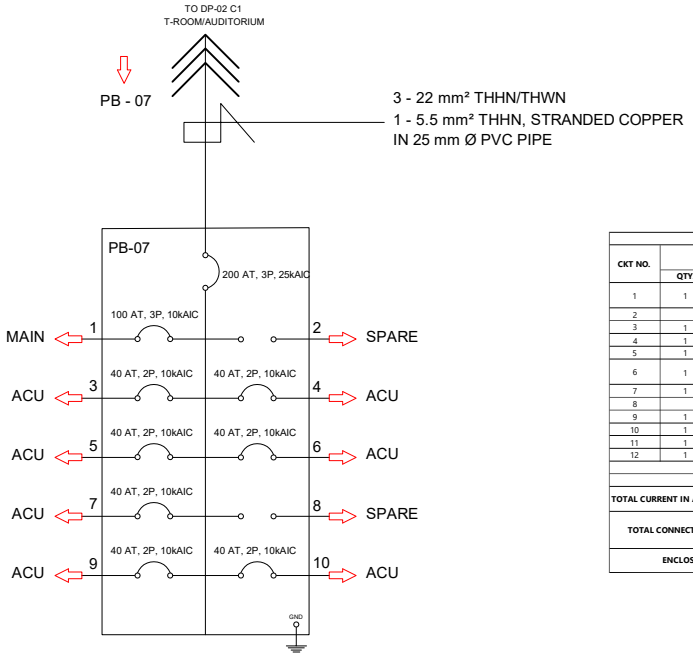

**PB - BASEMENT**

| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Unit VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 14 | 574 | 13 x 48" TUBE LIGHT+ 1 x CONVENIENCE OUTLET | 230 | SINGLE | 0.57 | 2.50 | | | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 2 | 21 | 1184 | 18 x 48" TUBE LIGHT + 3 x CONVENIENCE OUTLET | 230 | SINGLE | 1.18 | 5.15 | | | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 3 | 18 | 535 | 10 x 48" TUBE LIGHT + 7 x HANGING LIGHT + 1 x CONVENIENCE OUTLET | 230 | SINGLE | 0.54 | | | 2.33 | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 4 | 1 | 18 | 1 x 48" TUBE LIGHT | 230 | SINGLE | 0.02 | | | 0.08 | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 5 | 26 | 468 | 26 x 48" TUBE LIGHT | 230 | SINGLE | 0.47 | | 2.03 | | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 6 | 18 | 270 | 9 x 48" TUBE LIGHT + 9 x LIGHT BULB | 230 | SINGLE | 0.27 | | 1.17 | | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 7 | 18 | 324 | 18 x 48" TUBE LIGHT | 230 | SINGLE | 0.32 | 1.41 | | | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 8 | 26 | 504 | 26 x 48" TUBE LIGHT | 230 | SINGLE | 0.50 | 2.19 | | | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 9 | | | NO-LOAD | 230 | SINGLE | 0.00 | | | 0.00 | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 10 | | | NO-LOAD | 230 | SINGLE | 0.00 | | | 0.00 | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 11 | | | NO-LOAD | 230 | SINGLE | 0.00 | | 0.00 | | 30 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 12 | | | SPARE | 230 | SINGLE | 0.00 | | 0.00 | | 30 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 13 | | | NO-LOAD | 230 | SINGLE | 0.00 | 0.00 | | | 30 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 14 | | | NO-LOAD | 230 | SINGLE | 0.00 | 0.00 | | | 30 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 15 | | | NO-LOAD | 230 | SINGLE | 0.00 | | | 0.00 | 30 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 16 | | | NO-LOAD | 230 | SINGLE | 0.00 | | | 0.00 | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 17 | | | SPARE | 230 | SINGLE | 0.00 | | 0.00 | | 30 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 18 | 3 | 540 | 3 x CONVENIENCE OUTLET | 230 | SINGLE | 0.54 | | 0.00 | | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 19 | 47 | 5885 | 20 x 48" TUBE LIGHT + 10 x LIGHT BULB + 17 x CONVENIENCE OUTLET | 230 | SINGLE | 5.89 | 25.59 | | | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 20 | | | NO-LOAD | 230 | SINGLE | 0.00 | 0.00 | | | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 21 | | | NO-LOAD | 230 | SINGLE | 0.00 | | | 0.00 | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | | - |
| 22 | | | NO-LOAD | 230 | SINGLE | 0.00 | | | 0.00 | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | | - |
| 23 | 12 | 2640 | 12 x CONVENIENCE OUTLET | 230 | SINGLE | 2.64 | | 11.48 | | 20 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 24 | | | SPARE | 230 | SINGLE | 0.00 | | 0.00 | | 30 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 36.83 | 14.69 | 2.40 | | | | | | | |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 150 | | 3 | 3-38 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |

| | | | |
|---|---|---|---|
| TOTAL CURRENT IN AMPERES | 53.92 | COMPUTATIONS: | |
| | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR |
| TOTAL CONNECTED LOAD VA | 12942 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 27.17 + [[1.732 x [1.25 x 67.44 + 36.83 - 67.44]]+ 0] x 0.8<br>**IC = 106.38 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 27.17 + [[1.732 x [1.25 x 67.44 + 36.83 - 67.44]]+ 0] x 0.8<br>**IP = 138.37 Amperes** |
| ENCLOSURE | NEMA - 1 | USE: 3-38 mm2 THHN/THWN, 1-2.0 mm2, Stranded, Copper | USE: 150 AT, INVERSE TIME, 230V, 3P |

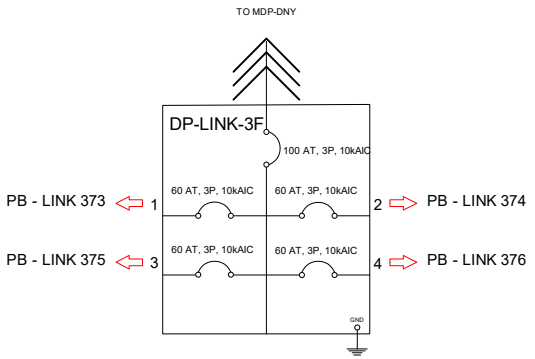
| CHECKED / REVIEWED BY: | UNDER THE DIRECT SUPERVISION OF : | SEAL | |
|---|---|---|---|
| | | | R.A. 9266 Section 33<br>Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, wether executed partly in whole, without the written consent of architect or author of said documents. |

| PROJECT TITLE : | PROJECT OWNER: | DRAWING CONTENTS | DESIGNED BY: TANO | ISSUED FOR: | REVISIONS: | | | DRAWING NO. |
|---|---|---|---|---|---|---|---|---|
| DON SIMPLICIO A. LIZARES BUILDING<br>SCHEDULE OF LOADS | EE481 EEK2414 CAPSTONE 1 | | DATE DRAFTED: 09-04-2024<br>DATE UPDATED: 09-15-2024<br>DRAFTED BY: RAS OBISO<br>APPROVED BY: | ☐ OWNER'S APPROVAL<br>☐ AS-BUILT<br>☐ BIDDING<br>☐ BUILDING PERMIT<br>☐ CONSTRUCTION<br>☐ ESTIMATE<br>☐ FABRICATION | NO. | DATE | DESCRIPTION | |
| LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | | | | PROJECT CODE: | | | |




| PB-07 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
| | QTY. | Unit VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 1 | 3500 | ACU-LINK-276 | 230 | SINGLE | 3.50 | 15.22 | | | 100 | | 3 | 2-8.0 mm2 + 2-5.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 2 | | | SPARE | 230 | SINGLE | 0.00 | 0.00 | | | 40 | | 2 | | - | | - |
| 3 | 1 | 3500 | ACU-LINK-275 | 230 | SINGLE | 3.50 | | | 15.22 | 40 | | 2 | 2-5.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 4 | 1 | 3500 | ACU-LINK-274 | 230 | SINGLE | 3.50 | | | 15.22 | 40 | | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 5 | 1 | 3500 | ACU-LINK-273 | 230 | SINGLE | 3.50 | | 15.22 | | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 6 | 1 | 3500 | ACU-LINK-275 | 230 | SINGLE | 3.50 | | 15.22 | | 40 | | 2 | 1-5.5 mm2 1-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 7 | 1 | 3500 | ACU-LINK-274 | 230 | SINGLE | 3.50 | 15.22 | | | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 8 | | | SPARE | 230 | SINGLE | 0.00 | 0.00 | | | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 9 | 1 | 3500 | ACU-LINK-273 | 230 | SINGLE | 3.50 | | | 15.22 | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 10 | 1 | 3500 | ACU-LINK-276 | 230 | SINGLE | 3.50 | | | 15.22 | | | | | | | |
| 11 | 1 | 3500 | ACU-LINK-GF | 230 | SINGLE | 3.50 | | 15.22 | | 40 | | | 2-8.0 mm2 THHN/THWN | | 1-2.0 mm2 THHN/THWN | |
| 12 | 1 | 3500 | ACU-LINK-GF | 230 | SINGLE | 3.50 | | 15.22 | | 40 | | 2 | 2-5.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 30.43 | 60.87 | 60.87 | | | | | | | |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 200 | | 3 | 3-22 mm2 THHN/THWN | - | | - |

| | | | |
|---|---|---|---|
| TOTAL CURRENT IN AMPERES | 152.17 | COMPUTATIONS: | |
| | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR |
| TOTAL CONNECTED LOAD VA | 35000 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 15.22 + [[1.732 x [1.25 x 0 + 60.87 - 0]]+ 0] x 0.80<br>**IC = 103.37 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x x 15.22 + [[1.732 x [1.25 x 0 + 60.87 - 0]]+ 0] x 0.80<br>**IP = 122.39 Amperes** |
| ENCLOSURE | NEMA - 1 | USE: 3-22 mm2 THHN/THWN, 1-2.0 mm2, Stranded, Copper | USE: 200 AT, INVERSE TIME, 230V, 3P |



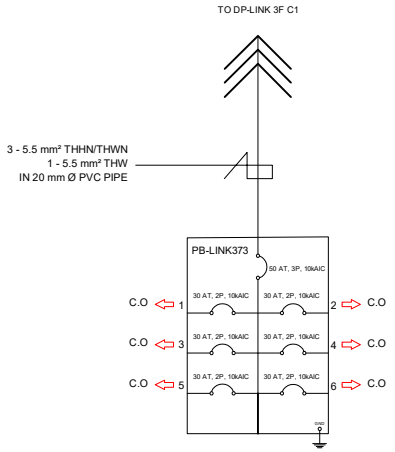

| DP-LINK-3F | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
| | QTY. | Unit VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 1 | 23520 | PB - LINK3F - R373 | 230 | SINGLE | 23.52 | 31.30 | 37.57 | 33.39 | 60 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 2 | 1 | 23520 | PB - LINK3F - R374 | 230 | SINGLE | 23.52 | 25.22 | 37.57 | 33.39 | 60 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 3 | 1 | 23520 | PB - LINK3F - R375 | 230 | SINGLE | 23.52 | 31.30 | 37.57 | 33.39 | 60 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 4 | 1 | 23520 | PB - LINK3F - R376 | 230 | SINGLE | 23.52 | 31.30 | 37.57 | 33.39 | 60 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 119.12 | 150.28 | 133.56 | | | | | | | |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 100 | - | 3 | 3-30 mm2 THHN/THWN | - | - | - |

| | | | |
|---|---|---|---|
| TOTAL CURRENT IN AMPERES | 402.96 | COMPUTATIONS: | |
| | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR |
| TOTAL CONNECTED LOAD VA | 94080 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 37.57 + [[1.732 x [1.25 x 153.39 + 150.28 - 153.39]]+ 0] x 0.8<br>**IC = 132.69 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 37.57 + [[1.732 x [1.25 x 153.39 + 150.28 - 153.39]]+ 0] x 0.8<br>**IP = 147.69 Amperes** |
| ENCLOSURE | NEMA - 1 | USE: 3-30 mm2 THHN/THWN, Stranded, Copper | USE: 100 AT, INVERSE TIME, 230V, 3P |

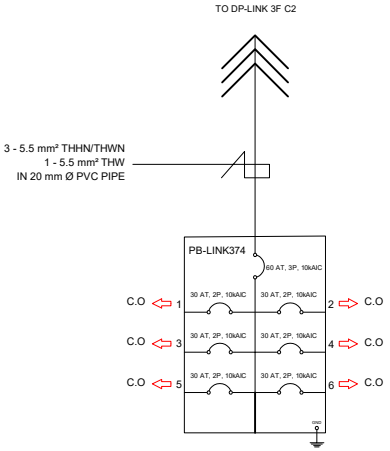
| CHECKED / REVIEWED BY: | UNDER THE DIRECT SUPERVISION OF : | SEAL | R.A. 9266 Section 33 |
|---|---|---|---|
| | | | Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, if shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, wether executed partly in whole, without the written consent of architect or author of said documents. |

| PROJECT TITLE : | PROJECT OWNER: | DRAWING CONTENTS | DESIGNED BY: TANO |
|---|---|---|---|
| DON SIMPLICIO A. LIZARES BUILDING<br>SCHEDULE OF LOADS | EE481 EEK2414 CAPSTONE 1 | | DATE DRAFTED: 09-04-2024<br>DATE UPDATED: 09-15-2024<br>DRAFTED BY: RAS OBISO<br>APPROVED BY: |
| LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | | |

| ISSUED FOR: | REVISIONS: | | | DRAWING NO. |
|---|---|---|---|---|
| ☐ OWNER'S APPROVAL | NO. | DATE | DESCRIPTION | |
| ☐ AS-BUILT | | | | |
| ☐ BIDDING | | | | |
| ☐ BUILDING PERMIT | | | | |
| ☐ CONSTRUCTION | | | | |
| ☐ ESTIMATE | | | | |
| ☐ FABRICATION | PROJECT CODE: | | | |




| PB - LINK3F - R373 | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
| | QTY. | Unit VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 7 | 3360 | 7 x CONVENIENCE OUTLET | 230 | SINGLE | 3.36 | 14.61 | | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 2 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | 16.70 | | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 3 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | | | 16.70 | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 4 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | | | 16.70 | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 5 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | | 16.70 | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 6 | 10 | 4800 | 10 x CONVENIENCE OUTLET | 230 | SINGLE | 4.80 | | 20.87 | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 31.30 | 37.57 | 33.39 | | | | | | - | - |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 50 | - | 3 | 3-5.5 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN AMPERES | | 102.26 | | COMPUTATIONS: | | | | | | | | | | | | |
| | | | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | | | | | | | | | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR | | | |
| TOTAL CONNECTED LOAD VA | | 23520 | | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 20.87 + [[1.732 x [1.25 x 38.35 + 37.57 - 38.35]]+ 0] x 0.8<br>**IC = 91.43 Amperes** | | | | | | | | | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 20.87 + [[1.732 x [1.25 x 38.35 + 37.57 - 38.35]]+ 0] x 0.8<br>**IP = 117.52 Amperes** | | | |
| ENCLOSURE | | NEMA - 1 | | USE: 3-5.5 mm2 THHN/THWN, Stranded, Copper | | | | | | | | | USE: 50 AT, INVERSE TIME, 230V, 3P | | | |




| PB - LINK3F - R374 | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
| | QTY. | Unit VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 7 | 3360 | 7 x CONVENIENCE OUTLET | 230 | SINGLE | 3.36 | 14.61 | | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 2 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | 16.70 | | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 3 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | | | 16.70 | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 4 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | | | 16.70 | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 5 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | | 16.70 | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 6 | 10 | 4800 | 10 x CONVENIENCE OUTLET | 230 | SINGLE | 4.80 | | 20.87 | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 31.30 | 37.57 | 33.39 | | | | | | - | - |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 60 | - | 3 | 3-5.5 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN AMPERES | | 102.26 | | COMPUTATIONS: | | | | | | | | | | | | |
| | | | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | | | | | | | | | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR | | | |
| TOTAL CONNECTED LOAD VA | | 23520 | | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 20.87 + [[1.732 x [1.25 x 38.35 + 37.57 - 38.35]]+ 0] x 0.8<br>**IC = 91.43 Amperes** | | | | | | | | | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 20.87 + [[1.732 x [1.25 x 38.35 + 37.57 - 38.35]]+ 0] x 0.8<br>**IP = 117.52 Amperes** | | | |
| ENCLOSURE | | NEMA - 1 | | USE: 3-5.5 mm2 THHN/THWN, Stranded, Copper | | | | | | | | | USE: 60 AT, INVERSE TIME, 230V, 3P | | | |

| CHECKED / REVIEWED BY: | UNDER THE DIRECT SUPERVISION OF : | SEAL | R.A.9266 Section 33 |
|---|---|---|---|
| | | | Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, wether executed partly in whole, without the written consent of architect or author of said documents. |

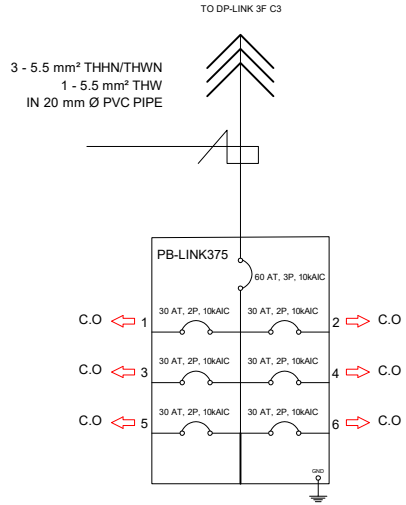
| PROJECT TITLE : | PROJECT OWNER: | DRAWING CONTENTS |
|---|---|---|
| DON SIMPLICIO A. LIZARES BUILDING<br>SCHEDULE OF LOADS | EE481 EEK2414 CAPSTONE 1 | |
| LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | |

| DESIGNED BY: TANO |
|---|
| DATE DRAFTED: 09-04-2024 |
| DATE UPDATED: 09-15-2024 |
| DRAFTED BY: RAS OBISO |
| APPROVED BY: |

| ISSUED FOR: |
|---|
| ☐ OWNER'S APPROVAL |
| ☐ AS-BUILT |
| ☐ BIDDING |
| ☐ BUILDING PERMIT |
| ☐ CONSTRUCTION |
| ☐ ESTIMATE |
| ☐ FABRICATION |

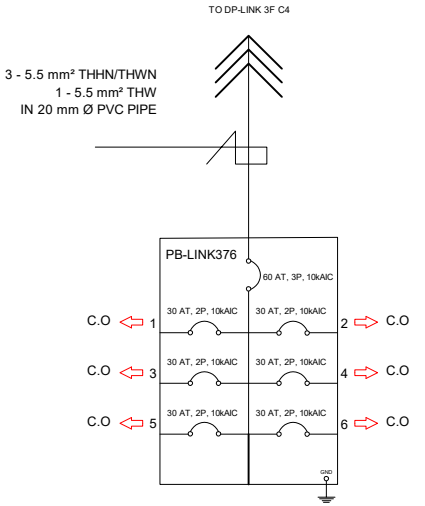
| REVISIONS: | | |
|---|---|---|
| NO. | DATE | DESCRIPTION |
| | | |
| | | |
| | | |
| | | |
| | | |
| PROJECT CODE: | | |

DRAWING NO.




| PB - LINK3F - R375 | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
| | QTY. | Unit VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 7 | 3360 | 7 x CONVENIENCE OUTLET | 230 | SINGLE | 3.36 | 14.61 | | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 2 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | 16.70 | | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 3 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | | | 16.70 | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 4 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | | | 16.70 | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 5 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | | 16.70 | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 6 | 10 | 4800 | 10 x CONVENIENCE OUTLET | 230 | SINGLE | 4.80 | | 20.87 | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 31.30 | 37.57 | 33.39 | | | | | | - | - |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 60 | - | 3 | 3-5.5 mm2 THHN/THWN | - | - | - |

| | | | |
|---|---|---|---|
| TOTAL CURRENT IN AMPERES | 102.26 | COMPUTATIONS: | |
| | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR |
| TOTAL CONNECTED LOAD VA | 23520 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 20.87 + [[1.732 x [1.25 x 38.35 + 37.57 - 38.35]]+ 0] x 0.8<br>**IC = 91.43 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 20.87 + [[1.732 x [1.25 x 38.35 + 37.57 - 38.35]]+ 0] x 0.8<br>**IP = 117.52 Amperes** |
| ENCLOSURE | NEMA - 1 | USE: 3-5.5 mm2 THHN/THWN, Stranded, Copper | USE: 60 AT, INVERSE TIME, 230V, 3P |



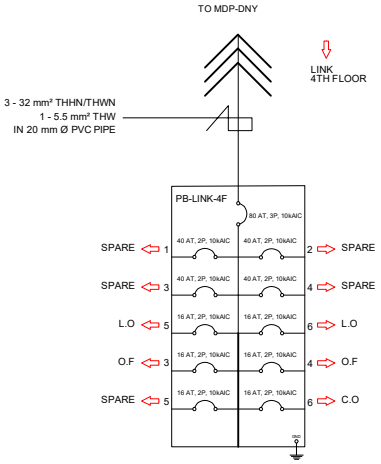

| PB - LINK3F - R376 | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
| | QTY. | Unit VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 7 | 3360 | 7 x CONVENIENCE OUTLET | 230 | SINGLE | 3.36 | 14.61 | | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 2 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | 16.70 | | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 3 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | | | 16.70 | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 4 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | | | 16.70 | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 5 | 8 | 3840 | 8 x CONVENIENCE OUTLET | 230 | SINGLE | 3.84 | | 16.70 | | 20 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| 6 | 10 | 4800 | 10 x CONVENIENCE OUTLET | 230 | SINGLE | 4.80 | | 20.87 | | 30 | - | 2 | 2-3.5 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 31.30 | 37.57 | 33.39 | | | | | | - | - |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | 60 | - | 3 | 3-5.5 mm2 THHN/THWN | - | - | - |

| | | | |
|---|---|---|---|
| TOTAL CURRENT IN AMPERES | 102.26 | COMPUTATIONS: | |
| | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR |
| TOTAL CONNECTED LOAD VA | 23520 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 20.87 + [[1.732 x [1.25 x 38.35 + 37.57 - 38.35]]+ 0] x 0.8<br>**IC = 91.43 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 20.87 + [[1.732 x [1.25 x 38.35 + 37.57 - 38.35]]+ 0] x 0.8<br>**IP = 117.52 Amperes** |
| ENCLOSURE | NEMA - 1 | USE: 3-5.5 mm2 THHN/THWN, Stranded, Copper | USE: 60 AT, INVERSE TIME, 230V, 3P |

| CHECKED / REVIEWED BY: | UNDER THE DIRECT SUPERVISION OF : | SEAL | |
|---|---|---|---|
| | | | R.A. 9266 Section 33<br>Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, wether executed partly in whole, without the written consent of architect or author of said documents. |

| PROJECT TITLE : | PROJECT OWNER: | DRAWING CONTENTS | DESIGNED BY: TANO |
|---|---|---|---|
| DON SIMPLICIO A. LIZARES BUILDING<br>SCHEDULE OF LOADS | EE481 EEK2414 CAPSTONE 1 | | DATE DRAFTED: 09-04-2024<br>DATE UPDATED: 09-15-2024<br>DRAFTED BY: RAS OBISO<br>APPROVED BY: |
| LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | | |

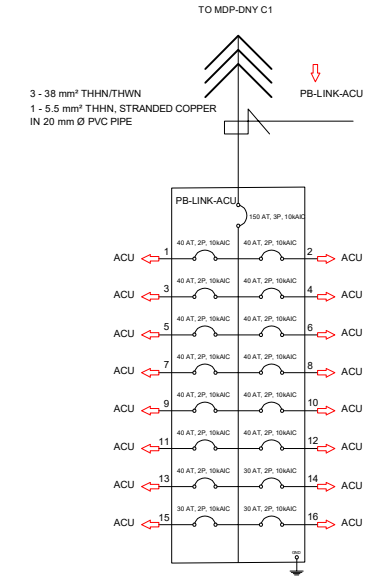
| ISSUED FOR: | REVISIONS: | | | DRAWING NO. |
|---|---|---|---|---|
| ☐ OWNER'S APPROVAL | NO. | DATE | DESCRIPTION | |
| ☐ AS-BUILT | | | | |
| ☐ BIDDING | | | | |
| ☐ BUILDING PERMIT | | | | |
| ☐ CONSTRUCTION | | | | |
| ☐ ESTIMATE | | | | |
| ☐ FABRICATION | PROJECT CODE: | | | |




**PB - LINK4F**

| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Unit VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | | | SPARE | 230 | SINGLE | 0.00 | 0.00 | | | 40 | - | - | - | - | - | - |
| 2 | | | SPARE | 230 | SINGLE | 0.00 | 0.00 | | | 40 | - | - | - | - | - | - |
| 3 | | | SPARE | 230 | SINGLE | 0.00 | | | 1.13 | 40 | - | - | - | - | - | - |
| 4 | | | SPARE | 230 | SINGLE | 0.00 | | | 3.39 | 40 | - | - | - | - | - | - |
| 5 | 6 | 320 | 6 x 48" TUBE LIGHT | 230 | SINGLE | 0.32 | | 0.00 | | 16 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 6 | 22 | 396 | 22 x 48" TUBE LIGHT | 230 | SINGLE | 0.40 | | 12.96 | | 16 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 7 | 4 | 260 | 4 x ORBIT FAN | 230 | SINGLE | 0.26 | 1.13 | | | 16 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 8 | 12 | 780 | 12 x ORBIT FAN | 230 | SINGLE | 0.78 | 3.39 | | | 16 | - | 2 | 2-5.5 mm2 THHN/THWN | - | - | - |
| 9 | | | SPARE | 230 | SINGLE | 0.00 | | | 0.00 | 16 | - | 2 | - | - | - | - |
| 10 | 13 | 2980 | 13 x CONVENIENCE OUTLET | 230 | SINGLE | 2.98 | | | 12.96 | 16 | - | - | 2-5.5 mm2 THHN/THWN | - | - | - |
| **TOTAL CURRENT IN EACH PHASE (AMPERES)** | | | | | | | 4.52 | 12.96 | 17.48 | | | | | - | - | - |
| **INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS** | | | | | | | | | | **80** | - | **3** | **3-32 mm2 THHN/THWN** | **-** | - | - |

| | | | |
|---|---|---|---|
| **TOTAL CURRENT IN AMPERES** | 34.96 | COMPUTATIONS: | |
| | | **SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR** | **SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR** |
| **TOTAL CONNECTED LOAD VA** | 4736 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 3.39 + [[1.732 x [1.25 x 9.03 + 17.48 - 9.03]+ 0] x 0.8<br>**IC = 28.46 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 3.39 + [[1.732 x [1.25 x 9.03 + 17.48 - 9.03]+ 0] x 0.8<br>**IP = 32.70 Amperes** |
| **ENCLOSURE** | NEMA - 1 | USE: 3-32 mm2 THHN/THWN, Stranded, Copper | USE: 80 AT, INVERSE TIME, 230V, 3P |




**PB-ACU-LINK**

| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Unit VA | Description | | | | AB | BC | CA | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 1 | 3500 | ACU-3F-374 | 230 | SINGLE | 3.50 | 15.22 | | | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 2 | 1 | 3500 | ACU--3F-374 | 230 | SINGLE | 3.50 | 15.22 | | | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 3 | 1 | 3500 | ACU-3F-375 | 230 | SINGLE | 3.50 | | | 15.22 | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 4 | 1 | 3500 | ACU--3F-375 | 230 | SINGLE | 3.50 | | | 15.22 | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 5 | 1 | 3500 | ACU--3F-376 | 230 | SINGLE | 3.50 | | 15.22 | | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 6 | 1 | 3500 | ACU--3F-376 | 230 | SINGLE | 3.50 | | 15.22 | | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 7 | 1 | 3500 | ACU-3F-373 | 230 | SINGLE | 3.50 | 15.22 | | | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 8 | 1 | 3500 | ACU--3F-373 | 230 | SINGLE | 3.50 | 15.22 | | | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 9 | 1 | 3000 | ACU-B1 | 230 | SINGLE | 3.00 | | | 13.04 | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 10 | 1 | 3000 | ACU-GF | 230 | SINGLE | 3.00 | | | 13.04 | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 11 | 1 | 3000 | ACU-B2 | 230 | SINGLE | 3.00 | | 13.04 | | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 12 | 1 | 3000 | ACU-GF | 230 | SINGLE | 3.00 | | 13.04 | | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 13 | 1 | 3000 | ACU-B3 | 230 | SINGLE | 3.00 | 13.04 | | | 40 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 14 | | | NO LOAD | 230 | SINGLE | 0.00 | 0.00 | | | 30 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 15 | 1 | 1942 | ACU-DNY | 230 | SINGLE | 1.94 | | | 8.44 | 30 | | 2 | 2-8.0 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN | - |
| 16 | | | SPARE | 230 | SINGLE | 0.00 | | | 0.00 | 30 | | 2 | | - | | - |
| **TOTAL CURRENT IN EACH PHASE (AMPERES)** | | | | | | | 73.91 | 56.52 | 64.97 | | | | | | | |
| **INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS** | | | | | | | | | | **150** | | **3** | 2-38 mm2 THHN/THWN | **-** | 1-5.5 mm2 THHN/THWN | **-** |

| | | | |
|---|---|---|---|
| **TOTAL CURRENT IN AMPERES** | 195.40 | COMPUTATIONS: | |
| | | **SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR** | **SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR** |
| **TOTAL CONNECTED LOAD VA** | 44942 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 15.22 + [[1.732 x [1.25 x 0 + 73.91 - 0]]+ 0] x 0.8<br>**IC = 121.43 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 15.22 + [[1.732 x [1.25 x 0 + 73.91 - 0]]+ 0] x 0.8<br>**IP = 140.46 Amperes** |
| **ENCLOSURE** | NEMA - 1 | USE: 3-38 mm2 THHN/THWN, 1-5.5 mm2, Stranded, Copper | USE: 150 AT, INVERSE TIME, 230V, 3P |

| CHECKED / REVIEWED BY: | UNDER THE DIRECT SUPERVISION OF : | SEAL | |
|---|---|---|---|
| | | | R.A. 9266 Section 33<br>Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, wether executed partly in whole, without the written consent of architect or author of said documents. |

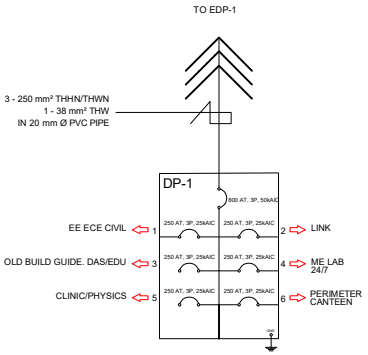
| PROJECT TITLE : | PROJECT OWNER: | DRAWING CONTENTS |
|---|---|---|
| DON SIMPLICIO A. LIZARES BUILDING<br>SCHEDULE OF LOADS | EE481 EEK2414 CAPSTONE 1 | |
| LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | |

| DESIGNED BY: TANO |
|---|
| DATE DRAFTED: 09-04-2024 |
| DATE UPDATED: 09-15-2024 |
| DRAFTED BY: RAS OBISO |
| APPROVED BY: |

| ISSUED FOR: |
|---|
| ☐ OWNER'S APPROVAL |
| ☐ AS-BUILT |
| ☐ BIDDING |
| ☐ BUILDING PERMIT |
| ☐ CONSTRUCTION |
| ☐ ESTIMATE |
| ☐ FABRICATION |

| REVISIONS: | | |
|---|---|---|
| NO. | DATE | DESCRIPTION |
| | | |
| | | |
| | | |
| | | |
| PROJECT CODE: | | |

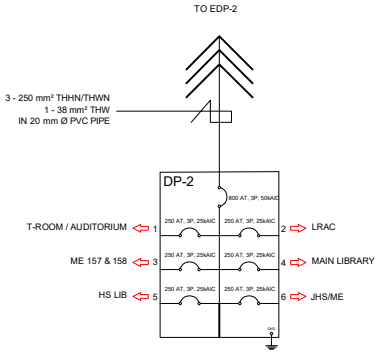
DRAWING NO.




**DP-01**

| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Unit VA | Description | | | | AB | BC | CA | | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 1 | 62584.19 | MICHAEL GROUP EE/ECE/CE | 230 | THREE | 62.58 | 150.00 | 124.00 | 157.10 | | 250 | - | 3 | 3-125 mm2 THHN/THWN | - | 1-14 mm2 THHN/THWN | |
| 2 | 1 | 156700 | MDP-DNY | 230 | THREE | 156.70 | 234.38 | 234.45 | 217.41 | | 250 | - | 3 | 3-125 mm2 THHN/THWN | - | 1-14 mm2 THHN/THWN | |
| 3 | 1 | 36769.71 | OLD BUILDING | 230 | THREE | 36.77 | 61.20 | 87.10 | 92.30 | | 250 | - | 3 | 3-125 mm2 THHN/THWN | - | 1-14 mm2 THHN/THWN | |
| 4 | 1 | 474.30 | MICHAEL GROUP ME LAB/24/7 | 230 | THREE | 0.47 | 3.80 | 16.80 | 16.30 | | 250 | - | 3 | 3-125 mm2 THHN/THWN | - | 1-14 mm2 THHN/THWN | |
| 5 | 1 | 130645.994 | MDP-CLPH | 230 | THREE | 130.65 | 327.35 | 195.64 | 151.83 | | 250 | - | 3 | 3-125 mm2 THHN/THWN | - | 1-14 mm2 THHN/THWN | |
| 6 | 1 | 8923.53 | PERIMETER/CANTEEN | 230 | THREE | 8.92 | 6.10 | 20.60 | 22.40 | | 250 | - | 3 | 3-125 mm2 THHN/THWN | - | 1-14 mm2 THHN/THWN | |
| **TOTAL CURRENT IN EACH PHASE (AMPERES)** | | | | | | | 782.83 | 678.59 | 657.34 | | | | | | | | |
| **INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS** | | | | | | | | | | | **800** | **-** | **3** | **2-250 mm2 THW** | **-** | **1-38 mm2 THHN/THWN** | |

| | | | |
|---|---|---|---|
| **TOTAL CURRENT IN AMPERES** | 2118.76 | COMPUTATIONS: | |
| | | **SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR** | **SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR** |
| **TOTAL CONNECTED LOAD VA** | 396097.72 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 327.35 + [[1.732 x [1.25 x 272.86 + 782.83 - 272.86]]+ 0] x 0.8<br>**IC = 1169.67 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 56.30 + [[1.732 x [1.25 x 42.16 + 782.83 - 42.16]]+ 0] x 0.8<br>**IP = 1240.04 Amperes** |
| **ENCLOSURE** | NEMA - 1 | USE: 3-250 mm2 THW, 1-38 mm2 THW, Stranded, Copper | USE: 800 AT, INVERSE TIME, 230V, 3P |




**DP-02**

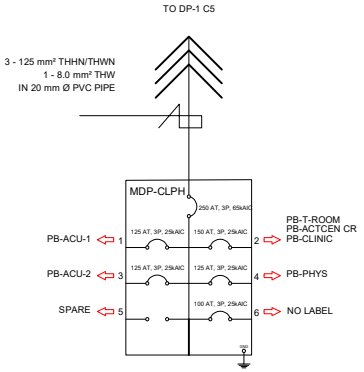
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | QTY. | Unit VA | Description | | | | AB | BC | CA | 3Ø | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 1 | 88663 | PB-06 + PB-04 + PB-07 + 8 x ACU | 230 | THREE | 88.66 | 37.66 | 61.81 | 88.19 | 76.09 | 250 | - | 3 | 3-125 mm2 THHN/THWN | - | 1-14 mm2 THHN/THWN | - |
| 2 | 1 | 35000 | PB-05 | 230 | THREE | 35.00 | 15.22 | 15.22 | | 121.74 | 250 | - | 3 | 3-125 mm2 THHN/THWN | - | 1-14 mm2 THHN/THWN | - |
| 3 | 1 | 22149.47 | MICHAEL GROUP ME157&158 | 230 | THREE | 22.15 | 43.00 | 42.30 | 55.60 | | 250 | - | 3 | 3-30 mm2 THHN/THWN | - | 1-14 mm2 THHN/THWN | - |
| 4 | 1 | 122922.35 | DP-ML | 230 | THREE | 122.92 | 134.06 | 157.81 | 222.92 | | 250 | - | 3 | 3-125 mm2 THHN/THWN | - | 1-14 mm2 THHN/THWN | - |
| 5 | 1 | 20874.68 | MICHAEL GROUP HS LIB | 230 | THREE | 20.87 | 48.00 | 52.40 | 52.20 | | 250 | - | 3 | 3-30 mm2 THHN/THWN | - | 1-14 mm2 THHN/THWN | - |
| 6 | 1 | 109707 | MDP-SAL + CB-STAIRS-SAL + PB-PO + PB-RO + PB-SALGF-163 + 2 x ACU | 230 | THREE | 109.71 | 94.78 | 36.52 | 56.95 | | 250 | - | 3 | 3-125 mm2 THHN/THWN | - | 1-14 mm2 THHN/THWN | - |
| **TOTAL CURRENT IN EACH PHASE (AMPERES)** | | | | | | | 372.72 | 366.06 | 475.86 | 197.83 | | | | | | | |
| **INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS** | | | | | | | | | | | **800** | **-** | **3** | **2-250 mm2 THW** | **-** | **1-38 mm2 THHN/THWN** | **-** |

| | | | |
|---|---|---|---|
| **TOTAL CURRENT IN AMPERES** | 1214.64 | COMPUTATIONS: | |
| | | **SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR** | **SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR** |
| **TOTAL CONNECTED LOAD VA** | 399316.49 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = (1.25 x (1.732 x 121.74)) + [[1.732 x [1.25 x 350.71 + 475.86 - 350.71]]+ 197.83] x 0.8<br>**IC = 1202.67 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 250 + [[1.732 x [1.25 x 350.71 + 475.86 - 350.71]]+ 197.83] x 0.8<br>**IP = 1189.10 Amperes** |
| **ENCLOSURE** | NEMA - 1 | USE: 3-250 mm2 THW, 1-38 mm2 THW, Stranded, Copper | USE: 800 AT, INVERSE TIME, 230V, 3P |

| CHECKED / REVIEWED BY: | UNDER THE DIRECT SUPERVISION OF : | SEAL | |
|---|---|---|---|
| | | | R.A. 9266 Section 33<br>Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, wether executed partly in whole, without the written consent of architect or author of said documents. |

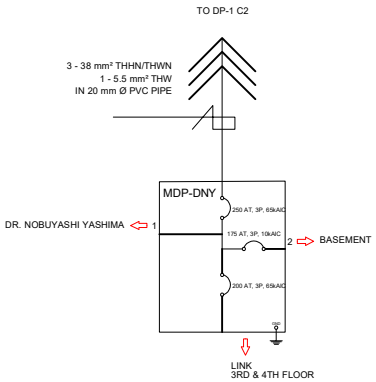
| PROJECT TITLE : | PROJECT OWNER: | DRAWING CONTENTS | DESIGNED BY: TANO |
|---|---|---|---|
| DON SIMPLICIO A. LIZARES BUILDING<br>SCHEDULE OF LOADS | EE481 EEK2414 CAPSTONE 1 | | DATE DRAFTED: 09-04-2024<br>DATE UPDATED: 09-15-2024<br>DRAFTED BY: RAS OBISO<br>APPROVED BY: |
| LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | | |

| ISSUED FOR: | REVISIONS: | | | DRAWING NO. |
|---|---|---|---|---|
| ☐ OWNER'S APPROVAL | NO. | DATE | DESCRIPTION | |
| ☐ AS-BUILT | | | | |
| ☐ BIDDING | | | | |
| ☐ BUILDING PERMIT | | | | |
| ☐ CONSTRUCTION | | | | |
| ☐ ESTIMATE | | | | |
| ☐ FABRICATION | PROJECT CODE: | | | |




| MDP-CLPH | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
| | QTY. | Unit VA | Description | | | | AB | BC | CA | | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 1 | 10118.64 | PB-ACU-1 | 230 | THREE | 10.12 | 46.20 | 58.50 | 25.40 | | 125 | - | 3 | 3-30 mm2 THHN/THWN | - | 1-8.0 mm2 THHN/THWN | 40 mmØ PVC PIPE |
| 2 | 1 | 80132.46 | PB-CLINIC + PB-TROOM + CB-ACTIVITY-CENTER-TOILET | 230 | THREE | 80.13 | 201.15 | 39.44 | 37.13 | | 150 | - | 3 | 3-8.0 mm2 + 3-38 mm2 THHN/THWN | - | 1-8.0 mm2 THHN/THWN | 40 mmØ PVC PIPE |
| 3 | 1 | 22428.33 | PB-ACU-2 | 230 | THREE | 22.43 | 56.30 | 56.00 | 44.20 | | 125 | - | 3 | 3-30 mm2 THHN/THWN | - | 1-8.0 mm2 THHN/THWN | 40 mmØ PVC PIPE |
| 4 | 1 | 17966.56 | PB-PHYS | 230 | THREE | 17.97 | 23.70 | 41.70 | 45.10 | | 125 | - | 3 | 3-38 mm2 THHN/THWN | - | 1-8.0 mm2 THHN/THWN | 40 mmØ PVC PIPE |
| 5 | 1 | | SPARE | | | | | | | | | - | | | | | |
| 6 | 1 | | NO LOAD | 230 | THREE | 0.00 | | | | | 100 | - | 3 | 4 x 3-5.5 mm2 THHN/THWN | - | 1-8.0 mm2 THHN/THWN | |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 327.35 | 195.64 | 151.83 | | | | | | | | 32 mmØ PVC PIPE |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | | 250 | - | 3 | 3-125 mm2 THW | - | 1-8.0 mm2 THHN/THWN | 40 mmØ PVC PIPE |

| | | | |
|---|---|---|---|
| TOTAL CURRENT IN AMPERES | 91.30 | COMPUTATIONS: | |
| | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR |
| TOTAL CONNECTED LOAD VA | 130645.99 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 56.30 + [[1.732 x [1.25 x 42.16 + 327.35 - 42.16]]+ 0] x 0.8<br>**IC = 538.55 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 56.30 + [[1.732 x [1.25 x 42.16 + 327.35 - 42.16]]+ 0] x 0.8<br>**IP = 608.93 Amperes** |
| ENCLOSURE | NEMA - 1 | USE: 3-38 mm2 THW, 1-8.0 mm2 THHN/THWN, Stranded, Copper, in 40 mm Ø PVC PIPE | USE: 250 AT, INVERSE TIME, 230V, 3P |




| MDP-DNY | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | kVA | CURRENT AMPERES | | | | INVERSE TIME DELAY CIRCUIT BREAKER | | | FEEDER BRANCH CIRCUIT COPPER WIRE, THHN/THWN | | | CONDUIT SIZE |
| | QTY. | Unit VA | Description | | | | AB | BC | CA | | AT | AF | POLE | PHASE | NEUTRAL | EGC | |
| 1 | 1 | 44942 | PB-ACU-LINK | 230 | THREE | 44.94 | 73.91 | 56.52 | 63.97 | | 150 | - | 3 | 3-38 mm2 THHN/THWN | - | - | - |
| 2 | 1 | 12942 | PB-BASEMENT | 230 | THREE | 12.94 | 36.83 | 14.69 | 2.40 | | 175 | - | 3 | 3-36 mm2 + 2 x 2-8.0 mm2THHN/THWN | - | - | - |
| 3 | 1 | 98816 | DP-LINK3F + PB-LINK4F | 230 | THREE | 98.82 | 123.64 | 163.24 | 151.04 | | 200 | - | 3 | 3-30 mm2 + 3-22 mm2 THHN/THWN | - | - | - |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 234.38 | 234.45 | 217.41 | | | | | | | | |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | | 250 | - | 3 | 3-38 mm2 THW | - | - | - |

| | | | |
|---|---|---|---|
| TOTAL CURRENT IN AMPERES | 686.24 | COMPUTATIONS: | |
| | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR |
| TOTAL CONNECTED LOAD VA | 156700 | IC = 125% of HML + (1.732 x (125% of HCNL + HØ)+ 3Ø) x DF<br>IC = 1.25 x 73.91 + [[1.732 x [1.25 x 229.86 + 234.45 - 229.86]]+ 0] x 0.8<br>**IC = 496.86 Amperes** | IP = 250% HML + (1.732 x (125% of HCL + HØ ) + 3Ø ) x DF<br>IP = 2.5 x 73.91 + [[1.732 x [1.25 x 229.86 + 234.45 - 229.86]]+ 0] x 0.8<br>**IP = 589.25 Amperes** |
| ENCLOSURE | NEMA - 1 | USE: 3-38 mm2 THW, Stranded, Copper | USE: 250 AT, INVERSE TIME, 230V, 3P |

| CHECKED / REVIEWED BY: | UNDER THE DIRECT SUPERVISION OF : | SEAL | R.A. 9266 Section 33 |
|---|---|---|---|
| | | | Drawing and specification and other contract documents signed, stamped or sealed, as instrument of service, are the intellectual property and documents of the architect, whether the object for which they are made is executed or not, it shall be unlawful for any person to duplicate or to make copies of said documents for use in the repetition of and for other projects of building, wether executed partly in whole, without the written consent of architect or author of said documents. |

| PROJECT TITLE : | PROJECT OWNER: | DRAWING CONTENTS |
|---|---|---|
| DON SIMPLICIO A. LIZARES BUILDING<br>SCHEDULE OF LOADS | EE481 EEK2414 CAPSTONE 1 | |
| LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | |

| DESIGNED BY: TANO |
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| DATE DRAFTED: 09-04-2024 |
| DATE UPDATED: 09-15-2024 |
| DRAFTED BY: RAS OBISO |
| APPROVED BY: |

| ISSUED FOR: |
|---|
| ☐ OWNER'S APPROVAL |
| ☐ AS-BUILT |
| ☐ BIDDING |
| ☐ BUILDING PERMIT |
| ☐ CONSTRUCTION |
| ☐ ESTIMATE |
| ☐ FABRICATION |

| REVISIONS: | | |
|---|---|---|
| NO. | DATE | DESCRIPTION |
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| PROJECT CODE: | | |

DRAWING NO.