



| PB-TROOM | | | | | | | | | | | | | | | | |
|--|-------------------|----------|--|-------|--------|------|--|-------|-------|-------|--|-----|-----------------------|---------------------|---------|---------------------|
| CKT NO. | LOAD DESCRIPTIONS | | | VOLTS | PHASE | KVA | CURRENT AMPERES | | | | INVERSE TIME DELAY | | FEEDER BRANCH CIRCUIT | | | CONDUIT SIZE |
| | QTY. | Unit VA | Description | | | | AB | BC | CA | ABC | AT | AF | POLE | PHASE | NEUTRAL | EGC |
| 1 | 1 | 7170 | 10 x 48" TUBE LIGHT + 4 x | 230 | SINGLE | 7.17 | | | | 31.17 | 40 | 100 | 3 | 3-8.0 mm2 THHN/THWN | - | 1-5.5 mm2 THHN/THWN |
| 2 | 1 | 670 | 2x STANDFAN + 3 x | 230 | SINGLE | 0.67 | | | | 2.91 | 20 | 100 | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN |
| 3 | 1 | 1910 | CONVENIENCE OUTLET | 230 | SINGLE | 1.91 | 8.30 | | | | 20 | 100 | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN |
| 4 | 1 | 725 | 2 x CONVENIENCE OUTLET | 230 | SINGLE | 0.73 | 3.15 | | | | 20 | 100 | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN |
| 5 | 1 | 1803 | 6 x 48" TUBE LIGHT + 1 x | 230 | SINGLE | 1.80 | | | | 7.84 | 20 | 100 | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN |
| 6 | 1 | 2010 | ORBITFAN + 3x CONVENIENCE | 230 | SINGLE | 2.01 | | | | 8.74 | 20 | 100 | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN |
| 7 | 1 | 108 | 2 x CONVENIENCE OUTLET | 230 | SINGLE | 0.11 | | 0.47 | | | 20 | 100 | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN |
| 8 | 1 | 3245 | 6 x 48" TUBE LIGHT | 230 | SINGLE | 3.25 | | 14.11 | | | 20 | 100 | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN |
| 9 | 1 | 1008 | 7 x 48" TUBE LIGHT + 3 x | 230 | SINGLE | 1.01 | 4.38 | | | | 20 | 100 | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN |
| 10 | 1 | 297 | ORBIT FAN + 5 x LIGHT BULB | 230 | SINGLE | 0.30 | 1.29 | | | | 20 | 100 | 2 | 2-3.5 mm2 THHN/THWN | - | 1-2.0 mm2 THHN/THWN |
| 11 | | | 1 x 48" TUBE LIGHT + 3 x | | | | | | | | | | | | - | |
| 12 | | | ORBIT FAN + 1 x LIGHT BULB + | | | | | | | | | | | | - | |
| TOTAL CURRENT IN EACH PHASE (AMPERES) | | | | | | | 15.84 | 14.58 | 16.58 | 34.09 | | | | | | |
| INCOMING FEEDER CONDUCTOR & PROTECTION DETAILS | | | | | | | | | | | 60 | 100 | 3 | 3-14.0 mm2 THN/THWN | - | 1-5.5 mm2 THHN/THWN |
| TOTAL CURRENT IN AMPERES | | 47.00 | COMPUTATIONS: | | | | SIZE OF INCOMING FEEDER AT 73% DEMAND FACTOR | | | | SIZE OF FEEDER PROTECTION AT 73% DEMAND FACTOR | | | | | |
| TOTAL CONNECTED LOAD VA | | 18946 | IC = 125% of HML + (1.732 x (125% of HCNL + HO) + 30) x DF | | | | IC = 1.25 x 2.26 + [(1.732 x (1.25 x 1.17 + 16.58) + 34.09) x 0.80 | | | | IP = 250% HML + (1.732 x (125% of HCL + HO) + 30) x DF | | | | | |
| ENCLOSURE | | NEMA - 1 | USE: 3-14 mm2 THN/THWN, 1-2.0 mm2, Stranded, Copper | | | | USE: 125 AT, INVERSE TIME, 230V, 3P | | | | IP = 2.5 x 2.26 + [(1.732 x 1.25 x 1.17 + 16.58) + 34.09] x 0.80 | | | | | |
| | | | IC = 55.10 Amperes | | | | | | | | IP = 57.92 Amperes | | | | | |

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| 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 copies 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, whether executed partly in whole without the written consent of architect or author of said documents. | PROJECT TITLE: TEMPORARY ROOMS PROPOSED SCHEDULE OF LOADS | PROJECT OWNER: EE481 EEK2414 CAFSTONE 1 | DRAWING CONTENTS | 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 | DRAWING NO. |
| | | | | LOCATION: CEBU INSTITUTE OF TECHNOLOGY - UNIVERSITY | | | | | | |