



THE ASSOCIATION OF PROFESSIONAL ENGINEERS OF THE PROVINCE OF PRINCE EDWARD ISLAND  
 No. 12775  
 DATE: *Sept 15/17*  
 Remy O Connor  
 LICENSED PROFESSIONAL ENGINEER  
 PROVINCE OF PRINCE EDWARD ISLAND

| Power: 120/208 V 3 @ 4 W                           |       | PANEL LP.1                    |     | SYM. IC.: 18000 A |       |      |   |
|--|-------|-------------------------------|-----|-------------------|-------|------|---|
| # OF CKTS.: 42                                     |       | LOCATION ELECTRICAL ROOM E102 |     | MAINS: 225 A      |       |      |   |
| INCOMING: PANEL DP.1                               |       |                               |     | MAIN BKR: N/A A   |       |      |   |
| Designation  | CKT # | Watts                         | BKR | PHASE             | Watts | CKT# | Designation   |
| MALE WR / FEMALE WR LIGHTING                       | 1     | 526                           | 15  | X                 | 15    | 467  | MECH. RM / ELEC. RM / FAMILY WR / CORRIDOR LIGHTING |
| LOBBY / TICKET AREA / SAFE STORAGE AREA LIGHTING   | 3     | 1024                          | 15  | X                 | 15    | 112  | EXHIBIT HALL LIGHTING                               |
| MULTI-PURPOSE RM / ADMIN. OFFICE / MEETING RM LTG. | 5     | 1099                          | 15  | X                 | 15    | 722  | STAFF KITCHEN / CORRIDOR LIGHTING                   |
| EXHIBIT HALL EMERGENCY LIGHTING                    | 7     | 72                            | 15  | X                 | 15    | 174  | LOBBY EMERGENCY LIGHTING                            |
| EXIT SIGNS   | 9     | 30                            | 15  | X                 | 15    | 10   | LIGHTING CONTROLS                                   |
| SPARE  | 11    | 15                            |     | X                 | 15    | 12   | LIGHTING CONTROLS                                   |
| SPARE  | 13    | 15                            | X   |                   | 15    | 14   | SPARE   |
| SPARE  | 15    | 15                            | X   |                   | 15    | 16   | SPARE   |
| SPARE  | 17    | 15                            | X   |                   | 15    | 18   | SPARE   |
| SPARE  | 19    | 20                            | X   |                   | 20    | 20   | SPARE   |
| SPARE  | 21    | 20                            | X   |                   | 20    | 22   | SPARE   |
| SPARE  | 23    | 20                            | X   |                   | 20    | 24   | SPARE   |
| SPARE  | 25    | 20                            | X   |                   | 20    | 26   | SPARE   |
| SPARE  | 27    | 20                            | X   |                   | 20    | 28   | SPARE   |
| -  | 29    |                               |     | X                 |       | 30   | -   |
| -  | 31    |                               |     | X                 |       | 32   | -   |
| -  | 33    |                               |     | X                 |       | 34   | -   |
| -  | 35    |                               |     | X                 |       | 36   | -   |
| -  | 37    |                               |     | X                 |       | 38   | -   |
| -  | 39    |                               |     | X                 |       | 40   | -   |
| -  | 41    |                               |     | X                 |       | 42   | -   |

|          |               |   |
|----------|---------------|---|
| FEEDER:  | SOURCE:       |   |
| Remarks: | 1             | BREAKER TO SUPPLY LIGHTING LOADS VIA EMERGENCY LIGHTING INVERTER. |
|          | Phase A Total | 1239 W 10.3 A   |
|          | Phase B Total | 1166 W 9.7 A  |
|          | Phase C Total | 1821 W 15.2 A   |
|          | <b>TOTAL</b>  | <b>4226 W 11.7 A</b>  |

| Power: 120/208 V 3 @ 4 W |       | PANEL DP.1                    |     | SYM. IC.: 24000 A |       |       |             |
|--------------------------|-------|-------------------------------|-----|-------------------|-------|-------|-------------|
| # OF CKTS.: 42           |       | LOCATION ELECTRICAL ROOM E102 |     | MAINS: 800 A      |       |       |             |
| INCOMING: PANEL DP.1     |       |                               |     | MAIN BKR: 800 A   |       |       |             |
| Designation              | CKT # | Watts                         | BKR | PHASE             | Watts | CKT#  | Designation |
| GP.1                     | 1     | 3280                          | 200 | X                 | 400   | 36700 | 2           |
|                          | 3     | 2400                          | 200 | X                 | 400   | 34295 | 4           |
|                          | 5     | 3120                          | 200 | X                 | 400   | 32825 | 6           |
| GP.2                     | 7     | 2180                          | 200 | X                 | 200   | 2080  | 8           |
|                          | 9     | 6640                          | 200 | X                 | 200   | 420   | 10          |
|                          | 11    | 5920                          | 200 | X                 | 200   | 480   | 12          |
| LP.1                     | 13    | 1239                          | 125 | X                 | 125   |       | 14          |
|                          | 15    | 1166                          | 125 | X                 | 125   |       | 16          |
|                          | 17    | 1821                          | 125 | X                 | 125   |       | 18          |
|                          | 19    | 675                           | 200 | X                 | 200   | 1360  | 20          |
| LP.2                     | 21    | 0                             | 200 | X                 | 200   | 300   | 22          |
|                          | 23    | 0                             | 200 | X                 | 200   | 0     | 24          |
| MP.2                     | 25    | 32741                         | 400 | X                 |       |       | 26          |
|                          | 27    | 30697                         | 400 | X                 |       |       | 28          |
|                          | 29    | 32400                         | 400 | X                 |       |       | 30          |
| SPARE                    | 31    |                               | 100 | X                 | 125   |       | 32          |
|                          | 33    |                               | 100 | X                 | 125   |       | 34          |
|                          | 35    |                               | 100 | X                 | 125   |       | 36          |
|                          | 37    |                               | 200 | X                 |       |       | 38          |
| SPARE                    | 39    |                               | 200 | X                 |       |       | 40          |
|                          | 41    |                               | 200 | X                 |       |       | 42          |

|          |               |  |
|----------|---------------|--|
| FEEDER:  | SOURCE:       |  |
| Remarks: | 1             | SPD BREAKER TO BE SIZED BY SPD MANUFACTURER. |
|          | Phase A Total | 80255 W 668.8 A                              |
|          | Phase B Total | 75918 W 632.7 A                              |
|          | Phase C Total | 76366 W 636.4 A                              |
|          | <b>TOTAL</b>  | <b>232539 W 646.2 A</b>                      |

| Power: 120/208 V 3 @ 4 W                      |       | PANEL MP.2                    |     | SYM. IC.: 18000 A |       |      |             |
|---|-------|-------------------------------|-----|-------------------|-------|------|-------------|
| # OF CKTS.: 72                                |       | LOCATION ELECTRICAL ROOM E102 |     | MAINS: 400 A      |       |      |             |
| INCOMING:                                     |       |                               |     | MAIN BKR: N/A A   |       |      |             |
| Designation                                   | CKT # | Watts                         | BKR | PHASE             | Watts | CKT# | Designation |
| MECH. & ELEC. RM SPACE HEATERS                | 1     | 1500                          | 20  | X                 | 15    | 80   | 2           |
|   | 3     | 1500                          | 20  | X                 | 15    | 60   | 4           |
| MALE WR, JANITOR RM & FEMALE WR SPACE HEATERS | 5     | 2125                          | 30  | X                 | 15    | 60   | 6           |
|   | 7     | 2125                          | 30  | X                 | 15    | 60   | 8           |
| GIFT SHOP STORAGE & WR SPACE HEATERS          | 9     | 1375                          | 20  | X                 | 15    | 1290 | 10          |
|   | 11    | 1375                          | 20  | X                 | 15    | 1290 | 12          |
| GIFT SHOP CEILING FANS                        | 13    | 76                            | 15  | X                 | 15    | 50   | 14          |
| EXHIBIT HALL CEILING FANS                     | 15    | 152                           | 15  | X                 | 15    | 1470 | 16          |
| SAFE/STORAGE/TICKET AREA SPACE HEATERS        | 17    | 750                           | 15  | X                 | 15    | 1470 | 18          |
|   | 19    | 750                           | 15  | X                 | 15    | 1470 | 20          |
|   | 21    |                               |     | X                 | 50    | 4620 | 22          |
| LOBBY HEAT PUMP BC CONTROLLER                 | 23    | 500                           | 15  | X                 | 50    | 4620 | 24          |
| OFFICE AREA HEAT PUMP BC CONTROLLER           | 25    | 500                           | 15  | X                 | 50    | 4620 | 26          |
| STAFF WR TRAP PRIMER                          | 27    | 100                           | 15  | X                 | 60    | 5360 | 28          |
| JANITOR RM TRAP PRIMER                        | 29    | 100                           | 15  | X                 | 60    | 5360 | 30          |
| MECHANICAL RM HEAT PUMP BC CONTROLLER         | 31    | 500                           | 15  | X                 | 60    | 5360 | 32          |
|   | 33    | 500                           | 15  | X                 | 15    | 1170 | 34          |
| MEETING RM DUCT HEATER                        | 35    | 500                           | 15  | X                 | 15    | 1170 | 36          |
|   | 37    | 500                           | 15  | X                 | 15    | 1170 | 38          |
| SPARE   | 39    | 30                            | X   |                   | 15    | 300  | 40          |
|   | 41    | 30                            | X   |                   | 15    | 740  | 42          |
| SPARE   | 43    | 15                            | X   |                   | 15    | 250  | 44          |
|   | 45    | 15                            | X   |                   | 15    | 50   | 46          |
| SPARE   | 47    | 20                            | X   |                   | 15    | 300  | 48          |
|   | 49    | 20                            | X   |                   | 60    | 5090 | 50          |
| SPARE   | 51    | 20                            | X   |                   | 60    | 5090 | 52          |
|   | 53    | 20                            | X   |                   | 60    | 5090 | 54          |
| SPARE   | 55    | 15                            | X   |                   | 70    | 5950 | 56          |
|   | 57    | 15                            | X   |                   | 70    | 5950 | 58          |
|   | 59    | 15                            | X   |                   | 70    | 5950 | 60          |
| SPARE   | 61    | 30                            | X   |                   | 25    | 1710 | 62          |
|   | 63    | 30                            | X   |                   | 25    | 1710 | 64          |
| SPARE   | 65    | 30                            | X   |                   | 15    | 1000 | 66          |
|   | 67    | 15                            | X   |                   | 15    | 1000 | 68          |
| SPARE   | 69    | 20                            | X   |                   | 15    | 70   | 70          |
| SPARE   | 71    | 20                            | X   |                   | 15    | 72   | 72          |

|          |               |   |
|----------|---------------|---|
| FEEDER:  | SOURCE:       |   |
| Remarks: | 1             | HEATING CIRCUITS TO BE METERED. REFER TO MECHANICAL DRAWINGS. |
|          | Phase A Total | 32741 W 272.8 A   |
|          | Phase B Total | 30697 W 255.8 A   |
|          | Phase C Total | 32400 W 270.0 A   |
|          | <b>TOTAL</b>  | <b>95838 W 266.3 A</b>  |

| Power: 120/208 V 3 @ 4 W   |       | PANEL LP.2                    |     | SYM. IC.: 18000 A |       |      |             |
|----------------------------|-------|-------------------------------|-----|-------------------|-------|------|-------------|
| # OF CKTS.: 30             |       | LOCATION ELECTRICAL ROOM E102 |     | MAINS: 225 A      |       |      |             |
| INCOMING: PANEL DP.1       |       |                               |     | MAIN BKR: N/A A   |       |      |             |
| Designation                | CKT # | Watts                         | BKR | PHASE             | Watts | CKT# | Designation |
| BUILDING EXTERIOR LIGHTING | 1     | 675                           | 15  | X                 | 15    | 2    | SPARE       |
| SPARE                      | 3     | 15                            | 15  | X                 | 15    | 4    | SPARE       |
| SPARE                      | 5     | 15                            | 15  | X                 | 15    | 6    | SPARE       |
| SPARE                      | 7     | 15                            | 15  | X                 | 15    | 8    | SPARE       |
| SPARE                      | 9     | 20                            | 20  | X                 | 20    | 10   | SPARE       |
| SPARE                      | 11    | 20                            | 20  | X                 | 20    | 12   | SPARE       |
| SPARE                      | 13    | 20                            | 20  | X                 | 20    | 14   | SPARE       |
| -                          | 15    |                               |     | X                 |       | 16   | -           |
| -                          | 17    |                               |     | X                 |       | 18   | -           |
| -                          | 19    |                               |     | X                 |       | 20   | -           |
| -                          | 21    |                               |     | X                 |       | 22   | -           |
| -                          | 23    |                               |     | X                 |       | 24   | -           |
| -                          | 25    |                               |     | X                 |       | 26   | -           |
| -                          | 27    |                               |     | X                 |       | 28   | -           |
| -                          | 29    |                               |     | X                 |       | 30   | -           |

|          |               |                    |
|----------|---------------|--------------------|
| FEEDER:  | SOURCE:       |                    |
| Remarks: | Phase A Total | 675 W 5.6 A        |
|          | Phase B Total | 0 W 0.0 A          |
|          | Phase C Total | 0 W 0.0 A          |
|          | <b>TOTAL</b>  | <b>675 W 1.9 A</b> |

|           |                       |            |
|-----------|-----------------------|------------|
| 4         | ISSUED FOR TENDER     | 09.15.2017 |
| 3         | RS4 - 100% SUBMISSION | 09.01.2017 |
| 2         | RS4 - 99% SUBMISSION  | 06.30.2017 |
| 1         | RS4 - 66% SUBMISSION  | 05.31.2017 |
| 0         | RS3 SUBMISSION        | 03.31.2017 |
| revisions |                       | date       |

project GREEN GABLES-PHASE 2  
 NEW VISITOR CENTRE  
 QUEENS CO., PEI

drawing ELECTRICAL  
 SCHEDULES 2 OF 2

designed JAS  
 date MAR-2017  
 drawn ALW  
 date MAR-2017  
 approved  
 date  
 Tender *Alan McHale*  
 PWSC Project Manager / Administrateur de projets TPSGC  
 project number R.081199.001  
 drawing no. EG05 OF 7