

| Power Source: <b>XFMR-LP-R31</b> |      | <b>LP-R31</b> |     | Location: <b>MECHANICAL ROOM No.2</b> |   |   |     |         |      |                           |
|----------------------------------|------|---------------|-----|---------------------------------------|---|---|-----|---------|------|---------------------------|
| Feeder: <b>4/C #3</b>            |      |               |     | Voltage: <b>208/120V, 4 wire</b>      |   |   |     |         |      |                           |
| Main Breaker: <b>100 A</b>       |      |               |     | Mounting: <b>WALL</b>                 |   |   |     |         |      |                           |
| Mains: <b>225 A</b>              |      |               |     |                                       |   |   |     |         |      |                           |
| DESCRIPTION                      | LOAD | BKR           | CCT | A                                     | B | C | CCT | BKR     | LOAD | DESCRIPTION               |
| MD-H004A                         | 1.83 | 15A,1P        | 1   | *                                     |   |   | 2   | 15A,1P  | 0.03 | GUH-H011                  |
| MD-H013A                         |      | 15A,1P        | 3   | *                                     |   |   | 4   | 15A,1P  | 0.02 | GUH-H012                  |
| MD-H014A                         |      | 15A,1P        | 5   |                                       | * |   | 6   | 15A,1P  | 0.20 | FF-H025                   |
| SPARE                            |      | 15A,1P        | 7   | *                                     |   |   | 8   | 15A,1P  | 0.02 | GUH-H021                  |
| SPARE                            |      | 15A,1P        | 9   | *                                     |   |   | 10  | 15A,1P  |      | SPARE                     |
| LTG:MECH.ROOM No.2 WEST          | 1.19 | 20A,1P        | 11  |                                       | * |   | 12  | 20A,1P  | 0.15 | LTG:MECH.ROOM No.2 MIDDLE |
| LTG:MECH.ROOM No.2+EXIT,EMR      | 0.70 | 20A,1P        | 13  | *                                     |   |   | 14  | 20A,1P  | 0.98 | LTG:MECH.ROOM No.2 MIDDLE |
| LTG:MECH ROOM No.2 EAST          | 1.12 | 20A,1P        | 15  | *                                     |   |   | 16  | 20A,1P  | 0.84 | LTG:M.ROOM No.2+COR5+24/7 |
| LTG:MECH ROOM No.2 EAST          | 0.98 | 20A,1P        | 17  |                                       | * |   | 18  | 20A,1P  | 0.35 | LTG:ACCESS COR.No5        |
| SPACE                            |      |               | 19  | *                                     |   |   | 20  |         |      | SPACE                     |
| LTG:OZONE 24/7+EMER+EXIT         |      | 15A,1P        | 21  | *                                     |   |   | 22  | 20A,1P  | 1.02 | LTG:OZONE 3rd SOUTH       |
| LTG:OZONE 3rd NORTH              | 1.02 | 20A,1P        | 23  |                                       | * |   | 24  | 20A,1P  | 0.77 | LTG:OZONE 3rd SOUTH       |
| LTG:OZONE 3rd NORTH              | 0.90 | 20A,1P        | 25  | *                                     |   |   | 26  |         |      | SPACE                     |
| OUT:OZONE 3rd                    | 0.72 | 15A,1P        | 27  | *                                     |   |   | 28  | 30A, 1P | 1.20 | HCP-H020                  |
| OUT:OZONE 3rd                    | 0.54 | 15A,1P        | 29  | *                                     |   |   | 30  |         |      | SPACE                     |
| SPACE                            |      |               | 31  | *                                     |   |   | 32  |         |      | SPACE                     |
| SPACE                            |      |               | 33  | *                                     |   |   | 34  |         |      | SPACE                     |
| SPACE                            |      |               | 35  | *                                     |   |   | 36  |         |      | SPACE                     |
| SPACE                            |      |               | 37  | *                                     |   |   | 38  |         |      | SPACE                     |
| SPACE                            |      |               | 39  | *                                     |   |   | 40  |         |      | SPACE                     |
| SPACE                            |      |               | 41  | *                                     |   |   | 42  |         |      | SPACE                     |

Phase A Total **4.45 kW**  
 Phase B Total **4.92 kW**  
 Phase C Total **5.20 kW**

Panel Total **14.57 kW**

| Power Source: <b>XFMR-LP-R21</b> |      | <b>LP-R21</b> |     | Location: <b>RESIDUALS AREA 2ND FLOOR</b> |   |   |     |        |      |                            |
|----------------------------------|------|---------------|-----|---|---|---|-----|--------|------|----------------------------|
| Feeder: <b>4/C #3</b>            |      |               |     | Voltage: <b>208/120V, 4 wire</b>          |   |   |     |        |      |                            |
| Main Breaker: <b>100 A</b>       |      |               |     | Mounting: <b>WALL</b>                     |   |   |     |        |      |                            |
| Mains: <b>225 A</b>              |      |               |     |   |   |   |     |        |      |                            |
| DESCRIPTION                      | LOAD | BKR           | CCT | A   | B | C | CCT | BKR    | LOAD | DESCRIPTION                |
| LTS:RESID + EMERG + EXIT         | 1.83 | 20A,1P        | 1   | *   |   |   | 2   | 20A,1P | 0.28 | LTS: RESIDUALS HANDLING    |
| LTS:PILOT ROOM                   | 2.00 | 20A,1P        | 3   | *   |   |   | 4   | 20A,1P | 0.28 | LTS: PILOT ROOM            |
| LTS:RESIDUAL+PILOT+24/7          | 1.20 | 20A,1P        | 5   |   | * |   | 6   | 20A,1P | 0.28 | LTS: RESIDUALS HANDLING    |
| REC:RESID.AREA                   | 0.90 | 15A,1P        | 7   | *   |   |   | 8   | 15A,1P | 1.00 | EC-H011                    |
| REC:RESID.AREA                   | 0.90 | 15A,1P        | 9   | *   |   |   | 10  | 15A,1P | 0.95 | ERH-H016                   |
| LCP-R21                          |      | 30A, 1P       | 11  |   | * |   | 12  | 15A,1P | 0.00 | SPARE                      |
| SPACE                            |      |               | 13  | *   |   |   | 14  | 15A,1P | 0.00 | SPARE                      |
| SPACE                            |      |               | 15  | *   |   |   | 16  | 15A,1P | 0.10 | LCP-R710C                  |
| SPACE                            |      |               | 17  |   | * |   | 18  | 15A,1P | 0.10 | LCP-R720C                  |
| SPACE                            |      |               | 19  | *   |   |   | 20  |        |      | SPACE                      |
| LTS:EFFLUENT GATE ROOM           | 0.20 | 15A,1P        | 21  | *   |   |   | 22  | 15A,1P | 0.37 | EF-H005                    |
| REC:EFFLUENT GATE ROOM           | 0.36 | 15A,1P        | 23  | *   |   |   | 24  | 15A,1P |      | SPARE                      |
| SPACE                            |      |               | 25  | *   |   |   | 26  |        |      | SPACE                      |
| LTS: RESIDUALS TANKS WEST        | 1.00 | 20A,2P        | 27  | *   |   |   | 28  | 20A,2P | 1.00 | LTS: RESIDUALS TANKS EAST  |
| LTS: RESIDUALS TANKS SOUTH       | 1.00 | 20A,2P        | 29  | *   |   |   | 30  | 20A,2P | 1.00 | LTS: RESIDUALS TANKS NORTH |
| LTS: RESIDUALS TANKS WEST        | 1.00 | 20A,2P        | 31  | *   |   |   | 32  | 20A,2P | 1.00 | LTS: RESIDUALS TANKS EAST  |
| LTS: RESIDUALS TANKS SOUTH       | 1.00 | 20A,2P        | 33  | *   |   |   | 34  | 20A,2P | 1.00 | LTS: RESIDUALS TANKS NORTH |
| LTS: RESIDUALS TANKS WEST        | 1.00 | 20A,2P        | 35  | *   |   |   | 36  | 20A,2P | 1.00 | LTS: RESIDUALS TANKS EAST  |
| LTS: RESIDUALS TANKS SOUTH       | 1.00 | 20A,2P        | 37  | *   |   |   | 38  | 20A,2P | 1.00 | LTS: RESIDUALS TANKS NORTH |
| LTS: RESIDUALS TANKS WEST        | 1.00 | 20A,2P        | 39  | *   |   |   | 40  | 20A,2P | 1.00 | LTS: RESIDUALS TANKS NORTH |
| LTS: RESIDUALS TANKS SOUTH       | 1.00 | 20A,2P        | 41  | *   |   |   | 42  | 20A,2P | 1.00 | LTS: RESIDUALS TANKS NORTH |

Phase A Total **8.01 kW**  
 Phase B Total **10.8 kW**  
 Phase C Total **7.94 kW**

Panel Total **26.75 kW**



|             |                     |                               |               |
|-------------|---------------------|-------------------------------|---------------|
| B.M. ELEV.  |                     |                               |               |
| DESIGNED BY | PF                  | CHECKED BY                    | ND            |
| DRAWN BY    | YFS                 | APPROVED BY                   | AHL           |
| SCALE:      | NTS                 | RELEASED FOR CONSTRUCTION BY: | R. SOROKOWSKI |
| NO.         | REVISIONS           | DATE                          | BY            |
| 01          | 742-2005 ADDENDUM 3 | 06/05/05                      | LL            |
| 00          | ISSUED FOR TENDER   | 06/03/29                      | LL            |
|             |                     | DATE                          | 2006/03/21    |
|             |                     | DATE                          | 2006/03/29    |

**CH2MHILL**  
 Frederickson Cooper ARCHITECTS

**EarthTech**  
 A Geo International Ltd. Company

ENGINEER'S SEAL  
 ORIGINAL SIGNED BY  
 L.D. LLEWELLYN  
 2006/03/29

CONSULTANT DRAWING NO.  
 WB-E0539

**THE CITY OF WINNIPEG**  
 WATER AND WASTE DEPARTMENT  
 ENGINEERING DIVISION

WATER TREATMENT PLANT  
 MAIN BUILDING  
 MECHANICAL AND ELECTRICAL

ELECTRICAL  
 PANEL SCHEDULE

CITY FILE NUMBER  
 SHEET OF  
 CITY DRAWING NUMBER  
 1-0601B-D-E0539-001-01D