

CONSTRUCTION STANDARDS

TO BE CONSTRUCTED IN ACCORDANCE WITH MANITOBA HYDRO DISTRIBUTION AND TRANSMISSION STANDARDS, LATEST REVISION.

MAJOR CHANGE SHALL BE MADE WITHOUT APPROVAL OF THE DESIGN ENGINEER OR DELEGATE.

CUSTOMER ACCEPTANCE

THE CUSTOMER SERVICE DEPARTMENT REPRESENTATIVE IS RESPONSIBLE FOR OBTAINING WRITTEN CUSTOMER AGREEMENT TO THE PROPOSED INSTALLATION PRIOR TO CONSTRUCTION COMMENCEMENT.

EQUIPMENT ELEVATIONS
THE DEVELOPER TO INDICATE ON ONE COPY OF THE MANITOBA HYDRO DRAWING(S)
THE FINISHED GRADE AT ALL EQUIPMENT LOCATIONS, REFERENCED TO A
BENCHMARK

| AUTHORITY | NOTIFIED | NOT REQ'D | OBTAINED |
|-------------------|----------|-----------|----------|
| DISTRICT | | | |
| C.O.W./MUNICIPAL | | | |
| M.T.S. | | X | |
| GAS | | X | |
| SHAW | | X | |
| EASEMENTS | | X | |
| COMMUNICATIONS | | X | |
| S.C.C. | | X | |
| DEPT. OF HIGHWAYS | | X | |

| INSTALLED | | | |
|-----------|--------------|---------|-----------|
| Quantity | Fixture Type | Wattage | Pole Type |
| 8 | LED | 60 | EXCLUSIVE |
| | LED | 150 | EXCLUSIVE |
| | LED | 240 | EXCLUSIVE |
| | LED | 90 | SHARED |
| | LED | | SHARED |

| REMOVED | | | |
|----------|--------------|---------|-----------|
| Quantity | Fixture Type | Wattage | Pole Type |
| | HPS | 400 | EXCLUSIVE |
| | LED | 95 | SHARED |
| 6 | LED | 58 | EXCLUSIVE |
| | HPS | | EXCLUSIVE |
| | LED | | SHARED |

| LED CONVERSION CHART | | |
|----------------------|------------------------|----------------|
| HPS WATTAGE | EQUIVALENT LED WATTAGE | CATALOG NUMBER |
| 100 | 73 | ERS10C3E1540 |
| 150 | 95 | ERS10C3E1740 |
| 250 | 138 | ERS120H3E1540 |
| 400 | 209 | ERS30N3E1540 |

BANNERS AND ASSOCIATED HARDWARE TO BE REMOVED AND RETURNED TO THE CITY OF WINNIPEG, 1277 PACIFIC AVENUE WITH AN ITEMIZED LIST AND QUANTITIES.



PRIMARY.

FORMATION PERTAINING TO THE SIZE, TYPE AND LOCATION OF MANITOBA HYDRO FACILITIES AND INSTALLATIONS IS ILLUSTRATIVE AND SHOULD NOT BE RELIED ON FOR THE PURPOSES OF ANY ACTIVITY CONDUCTED AT OR NEAR THE IDENTIFIED HYDRO INSTALLATIONS. ALL LOCATIONS AND EQUIPMENT MUST BE VERIFIED BY APPROPRIATE HYDRO DISTRICT OFFICES PRIOR TO ANY PHYSICAL ACTIVITY BEING UNDERTAKEN AT OR NEAR HYDRO INSTALLATIONS.

| | |
|-------|------|
| SHT. | REV. |
| 01/01 | 00 |

- MH STAFF SHALL DISCONNECT AND ISOLATE THE EXISTING STREET LIGHT POLES TO BE REPLACED
- CONTRACTOR TO INSTALL TEMPORARY O/H FEEDS BETWEEN EXISTING POLES.
- MH STAFF TO INSTALL FINAL DROP FROM EXISTING POLE TO SOURCE AND ENERGIZE.
- CONTRACTOR TO INSTALL NEW POLES, UNDERGROUND STREET LIGHT CABLE BETWEEN POLES, GROUND RODS, RELAYS, AND BOTTOM SECTION OF CABLE GUARD AT DIP (IF APPLICABLE) AND TERMINATE IN HAND HOLE.
- MH STAFF TO DISCONNECT AND ISOLATE TEMPORARY O/H FEED TO EXISTING POLES, AS WELL AS COMMISSION AND ENERGIZE NEW POLES FROM NEW UNDERGROUND SOURCE.
- CONTRACTOR TO REMOVE O/H FEEDS AND REMOVE EXISTING POLES.

| REEL NUMBER | MANUFACTURER | MANUFACTURE DATE |
|-------------|--------------|------------------|
| | | |
| | | |
| | | |
| | | |

| NO | DATE | REVISIONS | BY | CHKD. | APP |
|----------------|------|-----------------------|----|-------|-----|
| | | | | | |
| DRAWING NUMBER | | REFERENCE DRAWINGS | | | |
| | | WINNIPEG UGS APPROVAL | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| | |
|----------------|----------|
| AREA | 5202 |
| STATION NUMBER | N/A |
| FEEDER NUMBER | N/A |
| SYSTEM VOLTAGE | 120/240V |
| | 1-0 |

| MANITOBA HYDRO DISTRIBUTION ENGINEERING | | | | | |
|---|--|------|------|-------|----|
| WO# P-42612 | NETWORK # 4309382 | | | | |
| CSC: CITY CENTRE | | | | | |
| CUSTOMER SERVICE PROJECT | | | | | |
| BROCK RECONSTRUCTION | | | | | |
| REPLACE STREET LIGHTS ON BROCK | | | | | |
| BETWEEN MATHERS TO GRANT | | | | | |
| 707-DE-50000-0698 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">SHT.</th> <th style="width: 50%; text-align: center;">REV.</th> </tr> <tr> <td style="text-align: center;">01/01</td> <td style="text-align: center;">00</td> </tr> </table> | SHT. | REV. | 01/01 | 00 |
| SHT. | REV. | | | | |
| 01/01 | 00 | | | | |