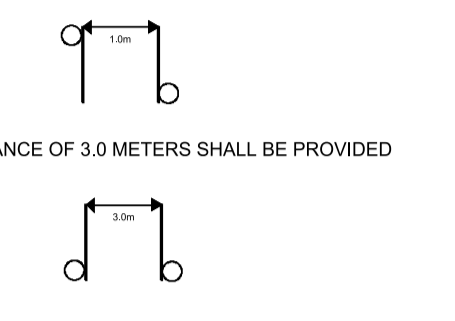


NOTES:
 CONSTRUCTION STANDARDS
 TO BE CONSTRUCTED IN ACCORDANCE WITH MANITOBA HYDRO DISTRIBUTION AND SUBTRANSMISSION STANDARDS. LATEST REVISION NO. MAJOR CHANGE SHALL BE MADE WITHOUT APPROVAL OF THE DESIGN ENGINEER OR DELEGATE.

CITY OF WINNIPEG REQUIREMENTS:
 WATER AND WASTE DEPARTMENT APPROVAL SUBJECT TO THE FOLLOWING NOTES:
 A MINIMUM CLEARANCE OF 1000 MILLIMETERS SHALL BE PROVIDED BETWEEN THE UNDERSIDE OF ANY EXISTING WATERMAIN OR SEWERMAIN PIPE AND THE TOP OF THE PROPOSED WORKS.
 OR
 A MINIMUM CLEARANCE OF 600 MILLIMETERS SHALL BE PROVIDED BETWEEN THE UNDERSIDE OF THE PROPOSED WORKS AND THE TOP OF ANY EXISTING WATERMAIN OR SEWERMAIN PIPE.
 A MINIMUM LATERAL CLEARANCE OF 1.0 METER SHALL BE PROVIDED BETWEEN THE NEAREST EDGE OF THE PROPOSED WORKS AND THE NEAREST EDGE OF ANY EXISTING WATERMAIN, WATERMAIN VALVE, HYDRANT, SEWERMAIN OR SEWER MANHOLE.



CONTACT "CLICK BEFORE YOU DIG MANITOBA" AT ClickBeforeYouDigMB.com
 THREE FULL WORKING DAYS
 PRIOR TO CONSTRUCTION FOR LOCATION OF EXISTING WATER, WASTEWATER AND LAND DRAINAGE UTILITIES

PROPOSED SEQUENCE OF CONSTRUCTION:
 - MH STAFF SHALL DISCONNECT AND ISOLATE THE EXISTING STREET LIGHT POLE OR POLES TO BE REPLACED.
 - CONTRACTOR TO INSTALL TEMPORARY OH 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 HANDHOLE.
 - MH STAFF TO DISCONNECT AND ISOLATE TEMPORARY OH FEED TO EXISTING POLES, AS WELL AS COMMISSION AND ENERGIZE NEW POLES FROM NEW UNDERGROUND SOURCE.
 - CONTRACTOR TO REMOVE OH FEEDS AND REMOVE EXISTING POLES.

| CONTACT | NAME | PHONE |
|-------------------------|----------------|----------|
| DESIGN | NICK WIELER | 799-7642 |
| DISTRICT ENG TECH | TM WILKINSON | 360-7467 |
| ENERGY SERVICES ADVISOR | TERRY MCCARTHY | 360-4127 |
| LIG CONSTRUCTION | JAYSON WITT | 803-1165 |
| OH CONSTRUCTION | WAYNE IRELAND | 360-5786 |
| CUSTOMER CONTRACT | RICK PHILLIPS | 360-7018 |
| CONNECTIONS | ALVARO SILVA | 360-6214 |
| TEMP. STRINGING | TERRY TABAK | 360-7521 |

| LEGEND | DESCRIPTION |
|---------------|---------------------------------------|
| MAGENTA | PROPOSED TRENCH |
| RED | PROPOSED OBJECT |
| PINK | OBJECT TO BE ABANDONED |
| GREEN | OBJECT TO BE SALVAGED |
| BLACK | EXISTING OBJECT |
| LA ANNOTATION | 1 - 4AL CN STREET LIGHTING CABLE |
| LL ANNOTATION | 1 - 1/0 TRIPLEX STREET LIGHTING CABLE |

COW TENDER
 2015-R-08

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION

UPON LOCKOUT AND TAGOUT BY MANITOBA HYDRO, CONTRACTOR SHALL INSTALL TEMPORARY #4 DUPLEX OVERHEAD FEED IN ORDER TO MAINTAIN LIGHTING DURING CONSTRUCTION.

AT THE END OF CONSTRUCTION, TEMPORARY OVERHEAD CABLE SHALL BE DISCONNECTED BY MANITOBA HYDRO AND SALVAGED BY THE CONTRACTOR.

PLACE ALL NEW DAVITS 5.3m OUTSIDE OF PROPERTY LINE. COORDINATE FINAL DAVIT LOCATIONS WITH MANITOBA HYDRO.

TRENCH APPROX 203m OF NEW #4 AL CN STREET LIGHT CABLE AND 2" CONDUIT ALONG EXISTING ALIGNMENT.

OBTAIN TEMPORARY FEED FROM EXISTING LUMINAIRE.

INSTALL GROUND ROD AS PER CD 50-5.

PUSH 2 NEW #4 AL CN STREET LIGHT CABLES IN 2" CONDUIT FROM DIP POLE APPROX. 11m ALONG BACKLANE TO 5.3m ALIGNMENT.

MANITOBA HYDRO TO INSTALL 2 NEW #4 AL CN DIPS FOR STREET LIGHT FEEDS.

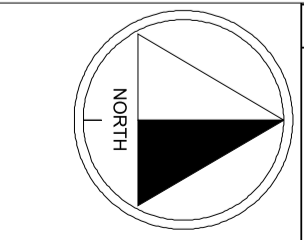
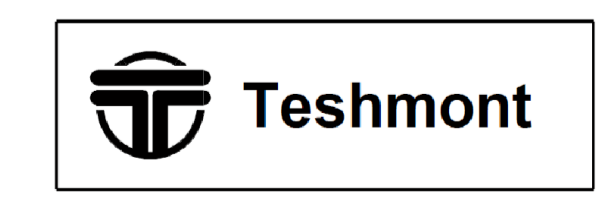
CONTRACTOR SHALL INSTALL LOWER 3m OF CABLE GUARD (AS PER CD 315-5 AND CD 200-63) AND COIL NEW CABLE FOR CONNECTION BY MANITOBA HYDRO.

MANITOBA HYDRO TO SALVAGE EXISTING 30A RELAY AND INSTAL NEW 60A POLE MOUNTED STREET LIGHT RELAY AS PER CD 315-5 AND CONNECT TO EXISTING PILOT WIRE CIRCUIT.

ALL S/L CABLE TO BE INSTALLED IN 2" (50mm) CONDUIT.

NOTE: INDICATION OF ALL UNDERGROUND UTILITIES IS FOR ILLUSTRATIVE PURPOSES ONLY. CONTACT THE APPLICABLE UTILITIES FOR SPECIFIC PLANT LOCATIONS AND CLEARANCES.

INFORMATION PERTAINING TO THE SIZE AND LOCATION OF MANITOBA HYDRO FACILITIES AND INSTALLATIONS IS ILLUSTRATIVE AND SHOULD NOT BE RELIED ON FOR THE PURPOSES OF ANY ACTIVITY BEING 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 UNDERTAKEN AT OR NEAR HYDRO INSTALLATIONS. A CURRENT WORK CLEARANCE REQUEST FORM CAN BE OBTAINED FROM THE DISTRICT OFFICE AND MUST BE ON SITE PRIOR TO THE COMMENCEMENT OF ANY EXCAVATIONS.



| DATE | REVISIONS | BY | CHKD. | APP. |
|-----------------------|-----------------------------|----|-------|------|
| 1-04707-DD-50000-0224 | CALROSSIE BLVD ROAD RENEWAL | | | |
| 1-04707-DD-50000-0226 | MULVEY AVE ROAD RENEWAL | | | |
| 1-04707-DD-50000-0229 | WILLSON PL ROAD RENEWAL | | | |
| 6L-1080 | COW APPROVED DESIGN | | | |

| AREA NUMBER | MANITOBA HYDRO DISTRIBUTION PLANNING & DESIGN |
|----------------|--|
| 5202 | WBS # P:24428 NETWORK # 4302927 |
| STATION NUMBER | DISTRICT: CITY CENTRE |
| 1520 | 2015 STREET LIGHT RENEWAL PROJECTS |
| FEEDER NUMBER | RENFREW ST FROM WELLINGTON CR S TO ACADEMY RD |
| 706N20 | CONTRACTOR SHALL REPLACE EXISTING UNDERGROUND STREET LIGHT PLANT |
| SYSTEM VOLTAGE | 2.4/4.16 KV |
| SCALE | 1:320 |
| DATE | 2015/12/22 |

CALL BEFORE YOU DIG!!