

NOTES :

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

SINGLE PHASE PAD-MOUNTED TRANSFORMER LOCATION
SEE CD205-3 FOR RULES PERTAINING TO THE PLACEMENT OF ALL PADMOUNTED EQUIPMENT

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

SITE GRADING
THE DEVELOPER IS RESPONSIBLE FOR GRADING OF THE SITE TO WITHIN +/- 0.15M OF FINISHED GRADE PRIOR TO CONSTRUCTION COMMENCEMENT. BENCHMARKS ARE TO BE OBTAINED FROM THE DEVELOPER OR CONSULTANT.

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

SERVICE CONDUCTOR
SERVICE CONDUCTOR TO BE 1/0 AL PE/PVCJ TRIPLEX UNLESS NOTED OTHERWISE.

Table with 4 columns: AUTHORITY, NOTIFIED, NOT REQ'D, OBTAINED. Lists various departments like DISTRICT, C.O.W./MUNICIPAL, M.T.S., GAS, SHAW, EASEMENTS, COMMUNICATIONS, S.C.C., DEPT. OF HIGHWAYS.

Table with 4 columns: CONTACT, NAME, PHONE NUMBER, E-MAIL ADDRESS. Lists various roles like DESIGN, DESIGN ENGINEER, PORTFOLIO PM, ENERGY SERVICES, U/G CONSTRUCTION, OH CONSTRUCTION, HYDRO GAS, SHAW, MTS, CUSTOMER REP, DISTRICT ENG TECH.

Table titled 'INSTALLED' with columns: Quantity, Fixture Type, Wattage, Pole Type. Lists 10 LED fixtures, 90W, EXCLUSIVE.

Table titled 'REMOVED' with columns: Quantity, Fixture Type, Wattage, Pole Type. Lists 2 LED fixtures, 40W, EXCLUSIVE; 8 LED fixtures, 60W, EXCLUSIVE; 8 LED fixtures, 90W, EXCLUSIVE; 8 LED fixtures, 90W, SHARED; 8 LED fixtures, 90W, SHARED.

Table titled 'LED CONVERSION CHART' with columns: WPS WATTAGE, EQUIVALENT LED WATTAGE, CATALOG NUMBER. Lists conversions for 100, 150, 250, 400 WPS.

STREETLIGHT PLACEMENT FOLLOWS IES STANDARDS AND THEY ARE PLACED ACCORDINGLY USING DRIVEWAY LOCATIONS THAT HAVE BEEN CHANGED AFTER THE DESIGN HAS BEEN SEALED. RESULTING IN A CONFLICT BETWEEN STREETLIGHTS AND THE DRIVEWAY ARE THE RESPONSIBILITY OF THE DEVELOPER TO RECOVER THE COSTS ASSOCIATED WITH RELOCATING THE STREETLIGHTS.

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

INFORMATION PERTAINING TO THE SIZE, TYPE AND LOCATION OF MANITOBA HYDRO FACILITIES AND INSTALLATIONS IS ILLUSTRATED AND SHOULD NOT BE RELIED UPON FOR THE PURPOSES OF ANY ACTIVITY BEING CONDUCTED AT OR NEAR THE IDENTIFIED HYDRO INSTALLATIONS. ALL LOCATIONS AND EQUIPMENT MUST BE MARKED BY APPROPRIATE HYDRO IDENTIFICATION MARKERS PRIOR TO ANY PHYSICAL ACTIVITY BEING UNDERTAKEN AT NEAR HYDRO INSTALLATIONS.

Legend table with 2 columns: Color/Line Style, Description. Includes MAGENTA (PROPOSED TRENCH), RED (PROPOSED OBJECT), PINK (OBJECT TO BE ABANDONED), GREEN (OBJECT TO BE SALVAGED), BLACK (EXISTING OBJECT), LL ANNOTATION (1 - #6 AL CN STREET LIGHTING CABLE), LL ANNOTATION (1 - 1/0 TRIPLEX STREET LIGHTING CABLE).

UPON DISCONNECTION BY MANITOBA HYDRO THE CONTRACTOR SHALL INSTALL TEMPORARY #4PX OVERHEAD FEED IN ORDER TO MAINTAIN LIGHTING DURING CONSTRUCTION. AT THE END OF CONSTRUCTION TEMPORARY OVERHEAD SHALL BE DISCONNECTED BY THE CONTRACTOR.

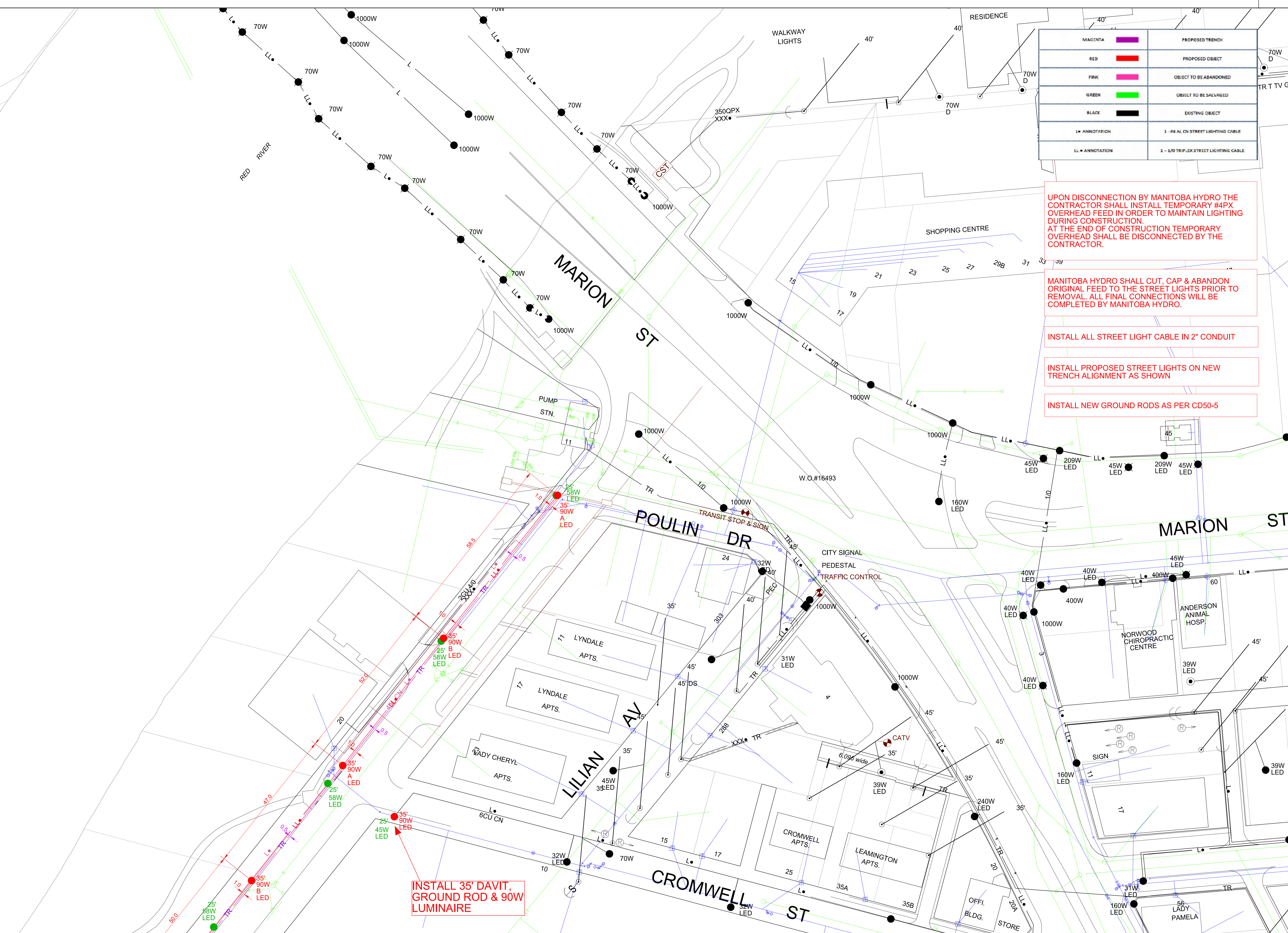
MANITOBA HYDRO SHALL CUT, CAP & ABANDON ORIGINAL FEED TO THE STREET LIGHTS PRIOR TO REMOVAL. ALL FINAL CONNECTIONS WILL BE COMPLETED BY MANITOBA HYDRO.

INSTALL ALL STREET LIGHT CABLE IN 2" CONDUIT

INSTALL PROPOSED STREET LIGHTS ON NEW TRENCH ALIGNMENT AS SHOWN

INSTALL NEW GROUND RODS AS PER CD50-5

INSTALL 35' DAVIT, GROUND ROD & 90W LUMINAIRE



- PROPOSED SEQUENCE OF CONSTRUCTION:
-MH STAFF SHALL DISCONNECT AND ISOLATE THE EXISTING STREET LIGHT 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 HAND HOLE.
-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.

COW TENDER 19-R-05

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION

Table with 3 columns: REEL NUMBER, MANUFACTURER, MANUFACTURE DATE.

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

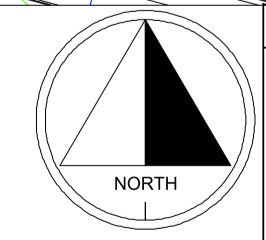


Table with columns: DATE, REVISIONS, BY, CKD, APP. Includes drawing number, reference drawings (WINNIPEG UGS APPROVAL), and date 2019-03-21.

Table with columns: AREA NUMBER (5401), STATION NUMBER (N/A), FEEDER NUMBER, SYSTEM VOLTAGE (120/240V), SCALE (1:500), DATE (2019-03-21).

Table with columns: MANITOBA HYDRO DISTRIBUTION ENGINEERING, WOF P-31632 NETWORK # 4305706, CSC: ST BONIFACE CITY CENTRE, CUSTOMER SERVICE PROJECT, COW 19-R-05 - LYNDALE DR - STREET RENEWAL, REPLACE 10 DAVITS AND LUMINAIRES, INSTALL 400m OF 2" PIPE & 1/0TPX.