

**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 OF SEWERMAIN PIPE AND THE TOP OF THE PROPOSED WORKS

A MINIMUM CLEARANCE OF 500 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.



A MINIMUM CLEARANCE OF 3.0 METERS SHALL BE PROVIDED

REEL NUMBER	MANUFACTURER	MANUFACTURE DATE

AUTHORITY	NOTED	NOT REQUIRED	OBTAINED
DISTRICT	?	X	?
S.C.C.		X	
EASEMENTS		X	
GAS		X	
M.T.S.		X	
SHAW		X	
RAILWAY		X	
DEPT OF HIGHWAYS		X	
CITY OF WINNIPEG	?		?

CONTACT	NAME	PHONE
DESIGN	NICK WIELER	284-8100 ext. 1232
DISTRICT ENG TECH	GEORGE WEDDALL	485-3306
ENERGY SERVICES ADVISOR	TERRY MCCARTHY	360-4127
LUG CONSTRUCTION	BILL AMMETER	981-8356
O/H CONSTRUCTION	WAYNE IRELAND	771-5212
CUSTOMER CONTRACT	RICK PHILLIPS	360-7018
CONNECTIONS	ALVARO SILVA	360-6214
TEMP. STRINGING	TERRY TABAK	360-7521

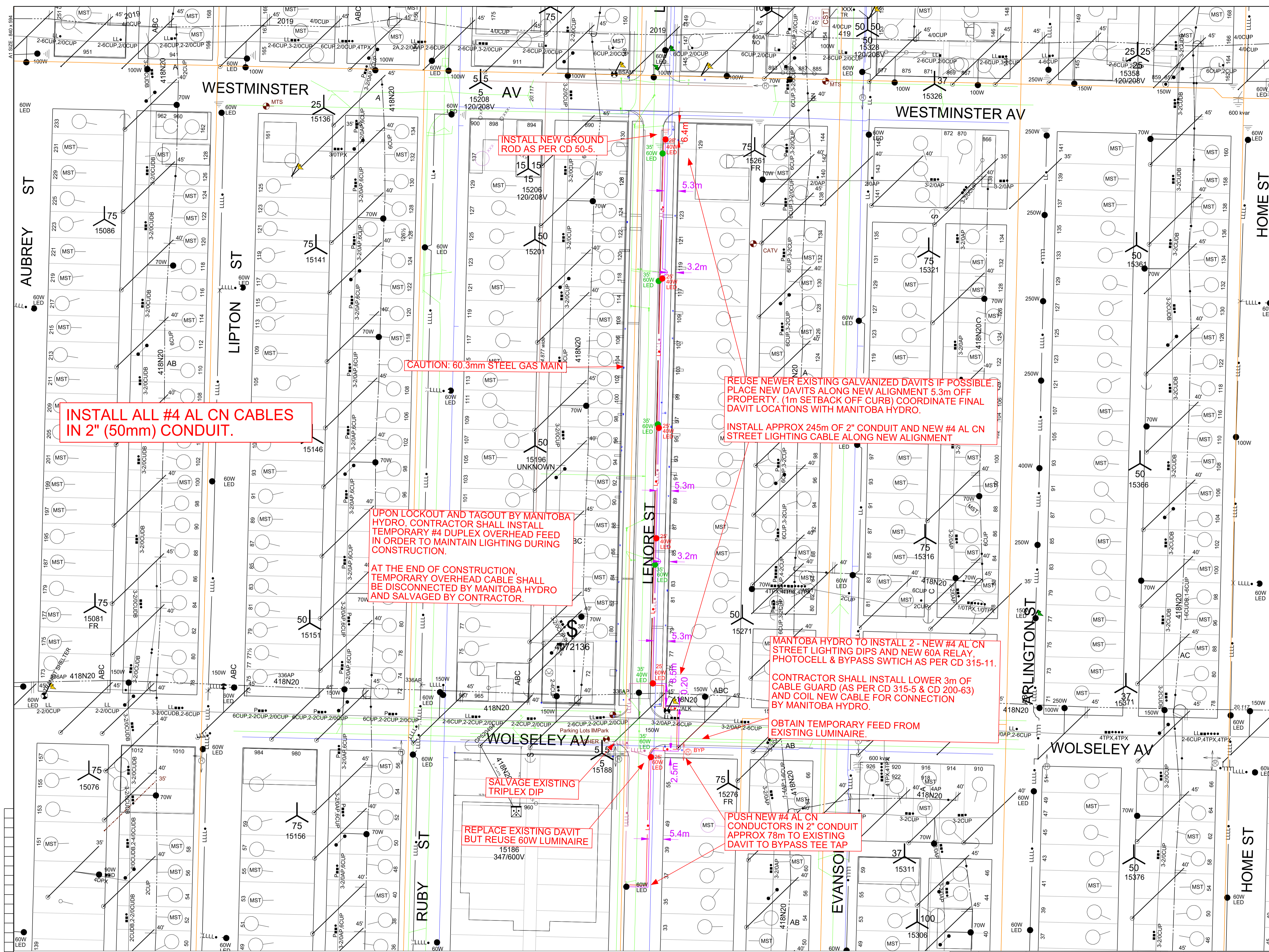
LINE COLOR	DESCRIPTION
MAGENTA	PROPOSED TRENCH
RED	PROPOSED OBJECT
PINK	OBJECT TO BE ABANDONED
GREEN	OBJECT TO BE SALVAGED
BLACK	EXISTING OBJECT
— ANNOTATION	1 - #4 AL CN STREET LIGHTING CABLE
LLL ANNOTATION	1 - 1/3" TRIPLET STREET LIGHTING CABLE

INSTALLED			
Quantity	Fixture Type	Wattage	Pole Type
5	LED	40	EXCLUSIVE

REMOVED			
Quantity	Fixture Type	Wattage	Pole Type
5	LED	60	EXCLUSIVE

LED CONVERSION CHART		
HPS WATTAGE	EQUIVALENT LED WATTAGE	CATALOG NUMBER
100	73	ERS10C3E1540
150	95	ERS10C3E1740
250	138	ERS20H3E1540
400	209	ERS30N3E1540

**COW TENDER  
2017-R-01**



**INSTALL ALL #4 AL CN CABLES IN 2" (50mm) CONDUIT.**

**INSTALL NEW GROUND ROD AS PER CD 50-5.**

**CAUTION: 60.3mm STEEL GAS MAIN**

**REUSE NEWER EXISTING GALVANIZED DAVITS IF POSSIBLE. PLACE NEW DAVITS ALONG NEW ALIGNMENT 5.3m OFF PROPERTY. (1m SETBACK OFF CURB) COORDINATE FINAL DAVIT LOCATIONS WITH MANITOBA HYDRO.**

**INSTALL APPROX 245m OF 2" CONDUIT AND NEW #4 AL CN STREET LIGHTING CABLE ALONG NEW ALIGNMENT**

**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 CONTRACTOR.**

**MANITOBA HYDRO TO INSTALL 2 - NEW #4 AL CN STREET LIGHTING DIPS AND NEW 60A RELAY, PHOTOCELL & BYPASS SWITCH AS PER CD 315-11.**

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

**OBTAIN TEMPORARY FEED FROM EXISTING LUMINAIRE.**

**SALVAGE EXISTING TRIPLEX DIP**

**REPLACE EXISTING DAVIT BUT REUSE 60W LUMINAIRE**

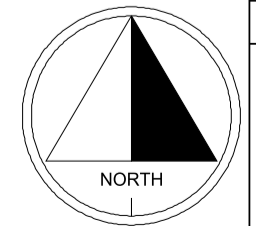
**PUSH NEW #4 AL CN CONDUCTORS IN 2" CONDUIT APPROX 78m TO EXISTING DAVIT TO BYPASS TEE TAP**

**PRELIMINARY NOT TO BE USED FOR CONSTRUCTION**

CONTACT "CLICK BEFORE YOU DIG MANITOBA" AT [ClickBeforeYouDigMB.com](http://ClickBeforeYouDigMB.com)  
**THREE FULL WORKING DAYS**  
PRIOR TO CONSTRUCTION FOR LOCATION OF EXISTING WATER, WASTEWATER, LAND DRAINAGE UTILITIES AND MANITOBA HYDRO UTILITIES

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.



NO.	DATE	REVISION	BY	CHKD.	APP.

DRAWING NUMBER	REFERENCE DRAWINGS

DRAWN	NTW

CHECK	SCALE
	1:750

DATE	2017 03 14

AREA NUMBER	5202, 5201	MANITOBA HYDRO DISTRIBUTION PLANNING & DESIGN NETWORK # 4304359
STATION NUMBER	1504, 1520	DISTRICT: CITY CENTRE
FEEDER NUMBER	418N20	2017 STREET LIGHT RENEWAL PROJECTS
SYSTEM VOLTAGE	2.4/4.16kV	LENORE ST FROM WESTMINSTER AV TO WOLSELEY AV
		CONTRACTOR TO REPLACE EXISTING UNDERGROUND STREET LIGHTING PLANT

FOR MICROFILM USE ONLY