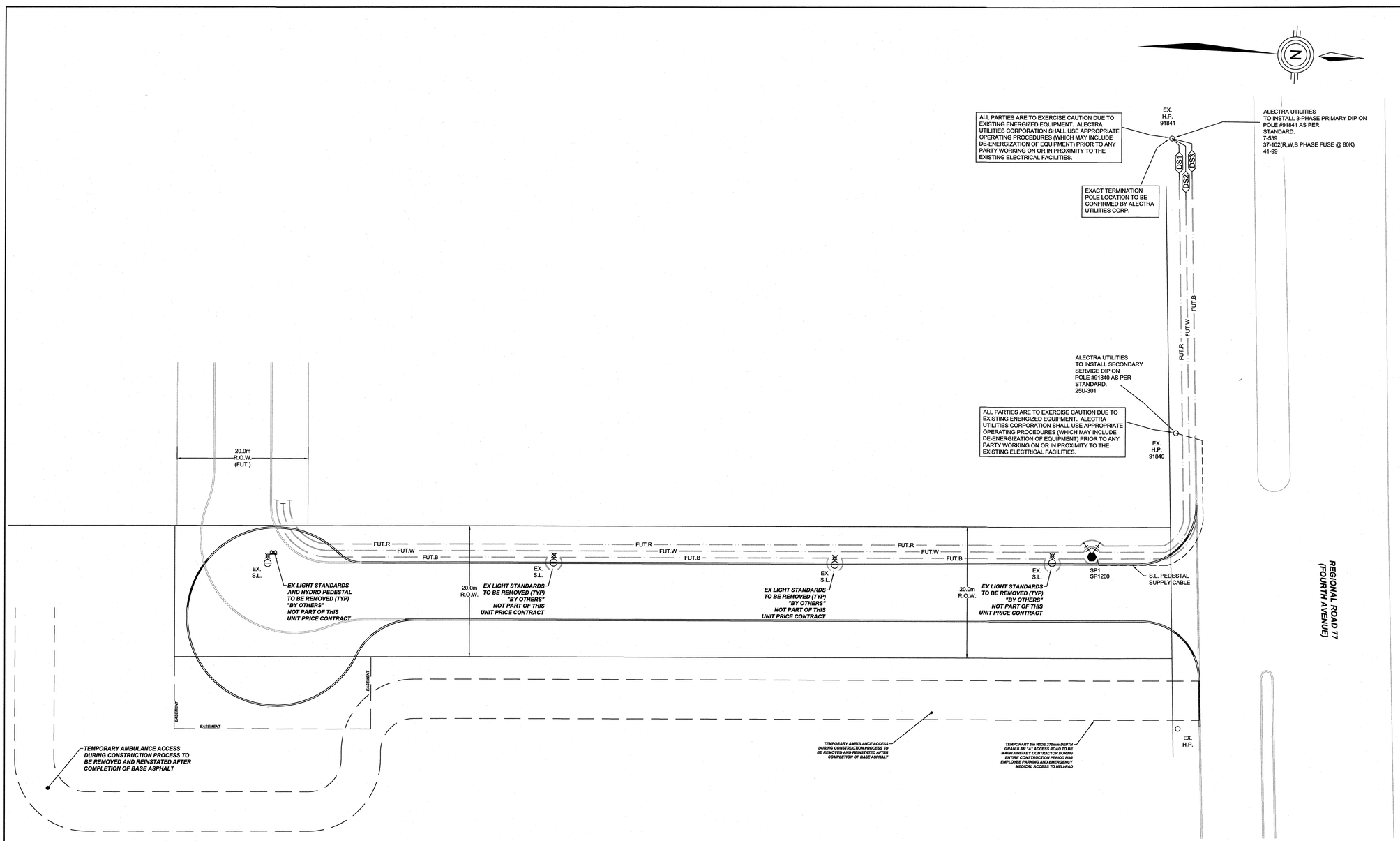
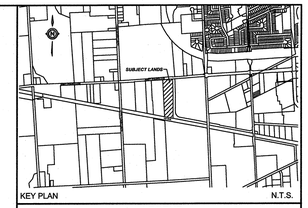




LEGEND

- TRANSFORMER SIZED AT 75kVA, 8000V-120/240V, PER ALECTRA UTILITIES CORPORATION'S SPECIFICATION NO. TR04 2004/JUNE 01.
- PRIMARY CABLE: 1Ø 2/0 28kV Al. COMPACT ROUND TR-XLPEI CN PVCJ PER ALECTRA UTILITIES CORPORATION'S SPECIFICATION NO. WC 15, INSTALLED IN 100mm PVC TYPE 2 D.B. DUCT.
- 3/0 600V Al. COMPACT ROUND XLPE PVCJ TYPE USEI90/USC90 SECONDARY CABLE PER ALECTRA UTILITIES CORPORATION'S SPECIFICATION NO. WC11, INSTALLED IN 100mm PVC TYPE 2 D.B. DUCT.
- STREETLIGHT PEDESTAL SUPPLY CABLE: 3-#2 Cu. RWU-90 C/W JACKETED GND IN CONTINUOUS 50mm PVC TYPE 2 DUCT IN COMPLETE ACCORDANCE WITH E.S.A. STANDARDS & SPECIFICATIONS.
- OPEN POINT SYMBOL
- STREETLIGHT POWER SUPPLY PEDESTAL TO BE MANUFACTURED BY PEDESTAL SOLUTIONS INC. (PSI), YORK, ONTARIO. CAT.# SLS1-6-15, 60A 2 POLE MAIN BREAKER, 6-15A BRANCH BREAKERS. WEATHER PROOF, TAMPER PROOF CABINET, DARK GREEN, PROVISIONS FOR PADLOCKING, MOUNT ON PRECAST CONCRETE FOUNDATION (PEDESTAL SOLUTIONS INC. #UP1420).
- T4-3 SERVICE POSITION NUMBER.
- D PROPOSED DRIVEWAY LOCATION
- EX. H.P. EXISTING HYDRO POLE
- EX. T.X. EXISTING TRANSFORMER
- #25 MUNICIPAL ADDRESS NUMBER
- EX. S.L. EXISTING STREETLIGHT

STREETLIGHT POWER SUPPLY PEDESTALS		
SP1	SP1260	CONNECTED TO EXISTING POLE P91840

CONSTRUCTION NOTES:

1. INSTALLATION OF ROAD CROSSINGS TO BE IN ACCORDANCE WITH ALECTRA UTILITIES' STANDARD 3U-501 WITH DIRECT BURIED RIGID DUCT AND ALECTRA UTILITIES STANDARD 3U-349 WITH CONCRETE ENCASED AND STEEL REINFORCED DUCT, AS NOTED.
2. PADMOUNTED TRANSFORMERS SHALL COMPLY WITH CSA-STANDARD C227.3 M91 FOR SINGLE PHASE, LOW PROFILE, DEAD FRONT, PAD MOUNTED TRANSFORMER, CEA DTWG-02(99) AND ALECTRA UTILITIES' SPECIFICATION TR04 (8kV), LATEST REVISION, AND AS PER 19U-525 FOR CLEARANCES.
3. REFER TO ALECTRA UTILITIES' STANDARDS SECTIONS 19U-360 AND 19U-501 FOR GROUND GRID AND TRANSFORMER INSTALLATION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING LOCATES FROM ALL UTILITIES PRIOR TO CONSTRUCTION STARTING. THE CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM. CONTRACTOR TO HAND EXCAVATE AND EXPOSE UTILITIES AS REQUIRED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RESTORATION IN EXISTING AREAS (i.e. BOULEVARDS AND D/W APRONS) TO THE SATISFACTION OF THE CITY OF ST. CATHARINES, ALECTRA UTILITIES CORPORATION AND THE HOME OWNER.
6. ALL WORKS TO BE IN ACCORDANCE TO THE SIGNED CONTRACT DOCUMENT.

IMPORTANT NOTE:

7. CONTRACTOR TO OBTAIN A COPY OF ALECTRA UTILITIES ENTIRE SPECIFICATIONS INCLUDE THOSE REFERENCED ABOVE PRIOR TO START OF CONSTRUCTION.

ALECTRA STANDARDS	
STANDARD #	DESCRIPTION
3U-142B	Typical Planned Separation Utility Cables In 914mm (36") Joint Use Trench
3U-341	Concrete Encased Duct Bank Requirements
3U-343	Typical Arrangement for Ducts Encased In Concrete For 1,2,3,4 Ducts
3U-344	Typical Arrangement for Ducts Encased In Concrete For 6,8 Ducts
3U-349	Road Crossing Concrete Encased Duct Bank
3U-351	Concrete Encasement of Road Crossings and Bends
29U-368	200Amp Loadbreak Separable Connectors Selection Chart ELC 1520-15kV Elbow
3U-400	Cable Identification
19U-360	Typical Installation of 1-Ph Pre-Cast Trans. Foundation
19U-501	Typical 1-Ph, Low Profile, Pad Mounted Trans. Installation.
19U-520	Typical Installation of Surge Arrester in U/G Distribution.
19U-525	Single Phase Padmount Transformer Clearances
50-550	Fuses for Single Phase Pad Mounted Transformer.
25U-202.1	Underground Secondary Service Residential Subdivision 200Amp Service
25U-205	Residential Secondary Service (Single)
41U-110	Typical Grounding Details for U/G Plant Installations.

RECORD OF INSPECTION

- ☐ RECORD OF INSPECTION (APPLIES TO COMPLETED DRAWING)
- ☐ PROGRESSIVE RECORD OF INSPECTION (APPLIES TO HIGHLIGHTED AREA ONLY)
- ☐ NON-CONFORMANCE HAS BEEN IDENTIFIED REPORT ATTACHED

INITIALS _____ DATE _____

CERTIFICATE

THIS IS TO CERTIFY THAT THE CONSTRUCTION AS RECORDED IN THIS DRAWING IS CONSISTENT WITH THE APPROVED PLAN, STANDARD DESIGNS OR WORK INSTRUCTION AND THAT ONLY APPROVED EQUIPMENT HAS BEEN USED. ALL NON-CONFORMANCE ISSUES HAVE BEEN RECTIFIED.

NAME _____ DATE _____

SIGNATURE & PROFESSIONAL DESIGNATION

CERTIFICATE OF APPROVAL

THE INSTALLATION WORK COVERED BY THIS DOCUMENT MEETS THE SAFETY REQUIREMENTS OF SECTION 4 OF REGULATION 22 / 04

STEPHEN C. GAYOWSKY, P.ENG. _____

NAME DATE

PROFESSIONAL ENGINEER

SIGNATURE & PROFESSIONAL DESIGNATION

ALECTRA PROJECT NUMBER	ALECTRA DRAWING NUMBER
15815	S15815A

WORK ORDER NUMBERS
-TECH ADMIN- 471529
-SUPERVISOR ADMIN- 471536
-PROJECT INSPECTION W.O.- 471537
-DRAFTING W.O.- 471530
-O/H I/R POLE & FRAME- 473563

DRAWING NUMBER
S15815A

CITY DESIGNATION
☐ HMM ☐ DUN
☐ HMC ☐ FLA
☐ STC ☐ ANC
☐ SCH ☐

DATE YYYY/MM/DD

PROJECT STATE
☐ PROGRESSIVE
☐ FINISHED

SCANNED BY

DATE SCANNED YYYY/MM/DD

REV	YYYY.MM.DD	DESCRIPTION	BY	CHECKED
R5	2018.04.19	ISSUED FOR TENDER	K.V.L.	
R4	2018.03.09	REV PER ALECTRA APPROVAL	N.S.J.	
R3	2018.02.20	REV PER UPDATED CIVIL BASE RECEIVED 2018.02.20	K.V.L.	
R2	2018.01.08	REV PER ALECTRA COMMENTS RECEIVED 2017.01.08	N.S.J.	
R1	2017.10.06	REV PER UPDATED TYPICAL CROSS-SECTION RECEIVED 2017.10.06	K.V.L.	

REVISIONS

LICENSED PROFESSIONAL ENGINEER
S. C. GAYOWSKY
PROVINCE OF ONTARIO

ALECTRA APPROVAL

SCOTT BEAUDRIE
CHECKED & APPROVED BY

2018.03.18
DATE

RTG SYSTEMS INC.
ELECTRICAL CONSULTING ENGINEERS
3518 Mainway Dr., Suite 201
BURLINGTON ON L7M 1A8
E-MAIL: general@rtgsystems.com
Office: (905) 335-4470
Toronto: (905) 827-7887

ALECTRA UTILITIES

NEW FOURTH AVENUE ROAD HYDRO DISTRIBUTION SYSTEM ELECTRICAL

DWG BY	DATE	CK'D BY	DATE
K.V.L.	2017.09.29		

SCALE	DRAWING NO.	SHEET 2 OF 2
1:300 EXCEPT FOR SYMBOLS	S15815A	

04534-00