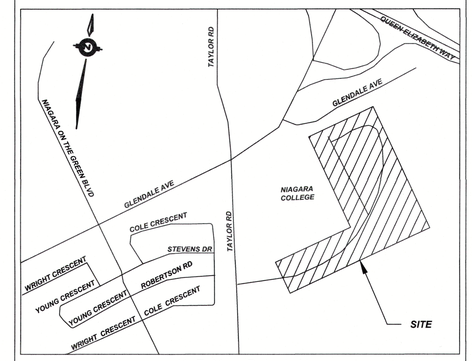


FOR CONTINUATION SEE PAGE EL-2

LEGEND

- 2 RUNS OF 4–1C #500MCM CU RW90 XLPEI PVCJ 600V SECONDARY CABLE (400A SERVICE). CABLE INSTALLED IN 2–100mm PVC II DUCT 900mm BELOW GRADE
- 3/C – #8 AWG CU RWU90 XLPEI PRCJ 600V T90 BUILDING WIRE, CABLE INSTALLED IN 1–100mm PVC II DUCT 900mm BELOW GRADE
- 1/C – #3 AWG CU RWU90 XLPEI PVCK 1000V SECONDARY CABLE (400A SERVICE BONDING CABLE)
- 100 X 4 — ROAD CROSSING WITH DUCT SIZE AND QUANTITIES
- PROPOSED SCHNEIDER ELECTRIC I–LINE PANELBOARD 600V, 400A HCM14644M WITH DOOR, TYPE 3R/12 ENCLOSURE MOUNTED ON CONCRETE PAD
- PROPOSED CHARGEPOINT CT4000 LEVEL 2 COMMERCIAL CHARGING STATION, 1830mm (6') DUAL PORT BOLLARD MOUNT. CAT# CT4021–GW2–CT4000–PGMT
- TX 4140 — EXISTING 3ϕ TRANSFORMER.
- UTILITY STRUCURES INC. PULL BOX 1.8m x 1.8m (6' x 6') PRODUCT# E–10B C/W E–12
- 100mm CONCRETE ENCASED DUCTS
- ELECTRICAL ROOM



KEY PLAN
N.T.S.

REVISIONS

No.	DESCRIPTION	DATE	BY	APPROVED
2.	RE–ISSUED FOR PRICING TENDER	MAR 27/19	SK	SD
1.	ISSUED FOR PRICING TENDER	JUNE 28/18	KM	SD

PROPOSED ELECTRICAL LAYOUT

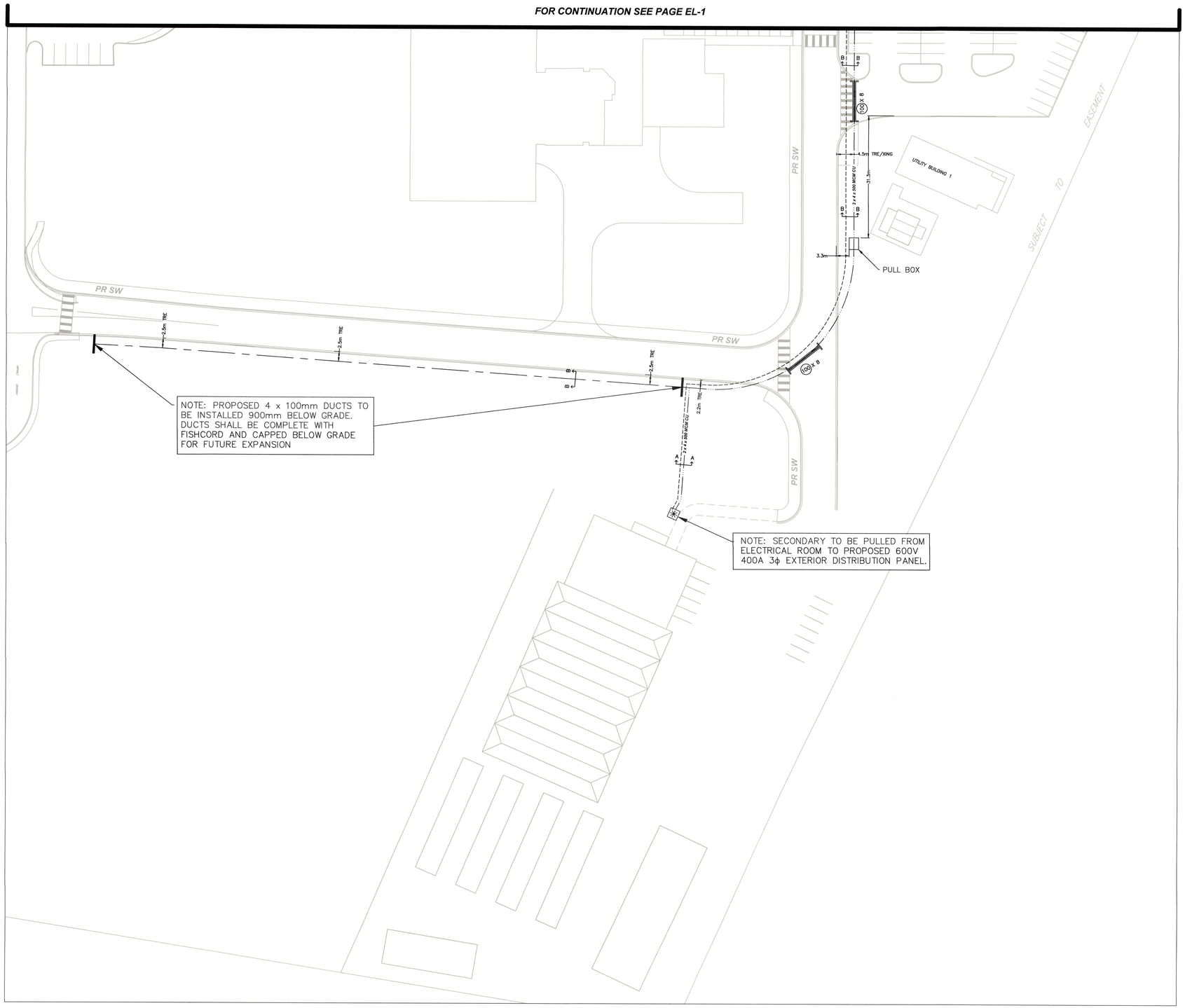
NIAGARA COLLEGE
NIAGARA ON THE LAKE CAMPUS

REGISTERED PROFESSIONAL ENGINEER
N. A. IOZZO
03/27/19
PROVINCE OF ONTARIO

DPM Energy
8000 Jane Street
Building A
Suite 200
Vaughan, ON
L4K 5B8
T 905.597.7200
F 905.597.7271
E–mail: info@dpmenergy.com
www.dpmenergy.com

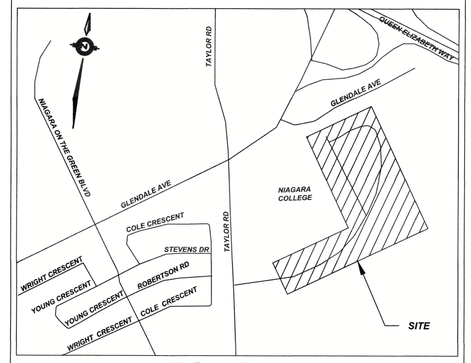
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SCALE : 1:500	DESIGNED BY : AS	DRAWING No. EL–1
	CHECKED BY : SD	

FOR CONTINUATION SEE PAGE EL-1



LEGEND

- 1 RUN OF 4–1C #500mcm CU RWU90 XLPEI PVCJ 1000V SECONDARY CABLE (400A SERVICE). CABLE INSTALLED IN 2–100mm PVC II DUCT 900mm BELOW GRADE
- U/G SECONDARY CABLE 600V T90 BUILDING WIRE, #8 AWG CU PVCJ TRIPLEX, CABLE INSTALLED IN 1–100mm PVC II DUCT 900mm BELOW GRADE
- ROAD CROSSING WITH DUCT SIZE AND QUANTITIES (100 X 4)
- PROPOSED SCHNEIDER ELECTRIC I–LINE PANELBOARD 600V, 400A INTERIOR ASSEMBLY HCM14644M WITH DOOR, TYPE 3R/12 ENCLOSURE MOUNTED ON CONCRETE PAD
- PROPOSED CHARGEPOINT CT4000 LEVEL 2 COMMERCIAL CHARGING STATION, 1830mm (6') DUAL PORT BOLLARD MOUNT. CAT# CT4021–GW2–CT4000–PGMT
- TX 4140 EXISTING 3ϕ TRANSFORMER.
- UTILITY STRUCURES INC PULL BOX 1.8m x 1.8m (6' x 6') PRODUCT# E–10B C/W E–12
- 100mm CONCRETE ENCASED DUCTS
- ELECTRICAL ROOM



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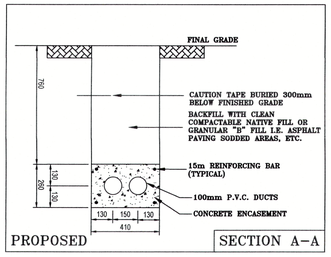
PROPOSED ELECTRICAL LAYOUT

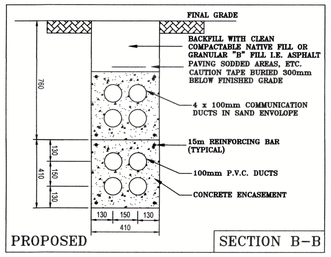
NIAGARA COLLEGE
NIAGARA ON THE LAKE CAMPUS

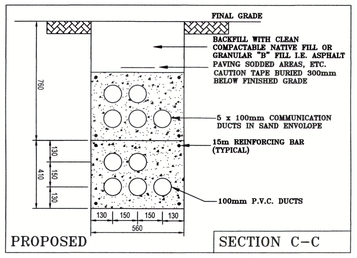
REGISTERED PROFESSIONAL ENGINEER
N.A. IOZZO
03/27/19
PROVINCE OF ONTARIO

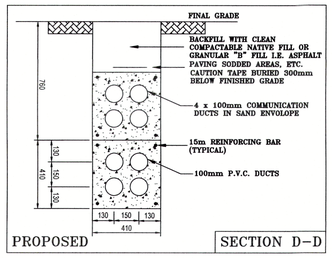
DPM Energy
8000 Jane Street
Building A
Suite 200
Vaughan, ON
L4K 5B8
T 905.597.7200
F 905.597.7271
E–mail: info@dpmenergy.com
www.dpmenergy.com

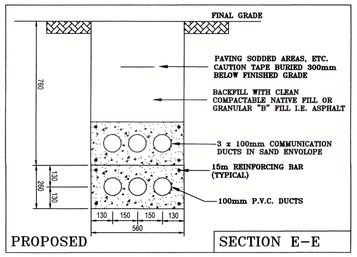
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SCALE : 1:500	DESIGNED BY : AS	DRAWING No. EL–2
	CHECKED BY : SD	

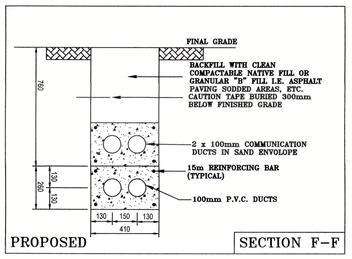


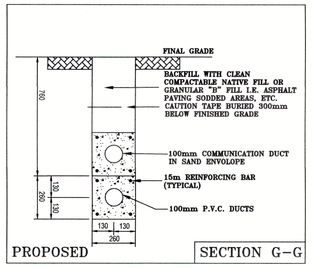


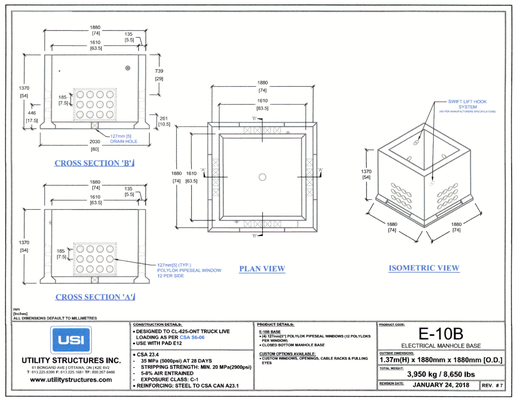


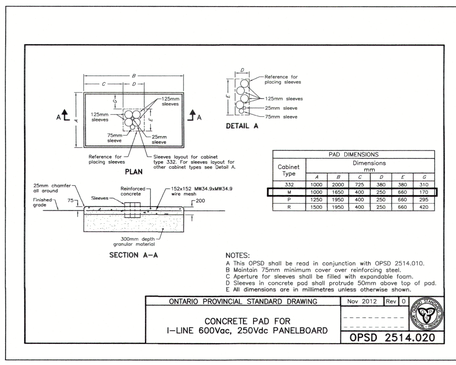


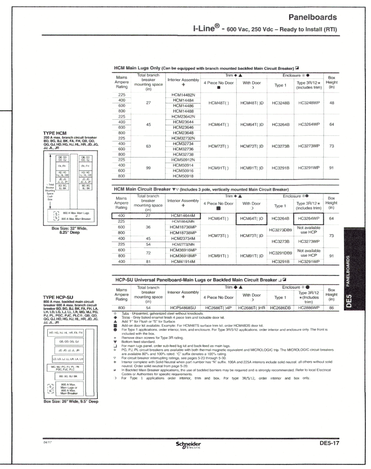


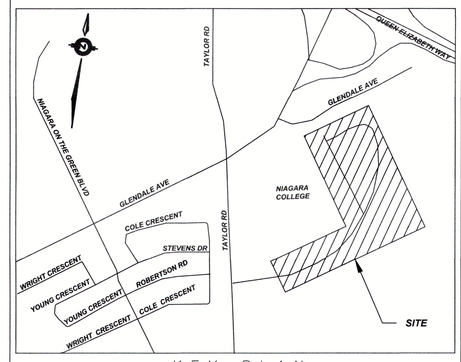












KEY PLAN
N.T.S.

REVISIONS

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DETAIL SHEET 1

NIAGARA COLLEGE
NIAGARA ON THE LAKE CAMPUS



DPM Energy
8000 Jane Street
Building A
Suite 200
Vaughan, ON
L4K 5B8
T 905.597.7200
F 905.597.7271
E-mail: info@dpmenergy.com
www.dpmenergy.com

DATE : JUNE 12, 2018	DRAWN BY : AS	PROJECT No.	255A 17 121
SCALE :	DESIGNED BY : AS	DRAWING No.	EL–3
	CHECKED BY : SD		

chargepoint

CT4000 Level 2 Commercial Charging Station

Specifications and Ordering Information

Ordering Information

Specify model number followed by the applicable code(s).
The order code sequence is **Model–Options. Software. Services** and **Misc** are ordered as separate line items.

Hardware

Description		Order Code
Model	1610 mm (63") Single Port Bollard Mount	CT4025
	Bollard with Long Pedestal Mount	CT4021
	1610 mm (63") Single Port Wall Mount	CT4023
	2440 mm (8') Dual Port Bollard Mount	CT4025
	2440 mm (8') Dual Port Wall Mount	CT4027
Options	Internal Gateway Modem - USA	-GWU
	Internal Gateway Modem - Canada	-GWC
Misc	Power Management Kit	CT4000-PWRKIT
	Bollard Concrete Mounting Kit	CT4000-CKIT

Software & Services

Description	Order Code
ChargePoint Commercial Service Plan	CTSW-SAS-COMM-nr
ChargePoint Service Provider Plan	CTSW-SAS-SP-nr
ChargePoint Assure	CT4000-ASSURE-yr
Station Activation and Configuration	CPSUPPORT-ACTIVE
ChargePoint Station Installation and Validation	CT4000-INSTALLVALID

Note: All CT4000 stations require a network service plan.
Substitute nr for desired years of service (1, 2, 3, 4, or 5 years).
Substitute yr for the duration of the coverage (1, 2, 3, 4, or 5 years).

Order Code Examples

If Ordering this	the order code is
1630 mm (5') Dual Port Bollard USA Gateway Station with Concrete Mounting Kit	CT4025-GWU CT4000-CCM
ChargePoint Commercial Service Plan, 3 Year Subscription	CTSW-SAS-COMM-3
ChargePoint Station Installation and Validation	CT4000-INSTALLVALID
2 Years of Assure Coverage	CT4000-ASSURE2
1630 mm (5') Single Port Wall Mount Station	CT4023
ChargePoint Commercial Service Plan, 5 Year Subscription	CTSW-SAS-COMM-5
4 Years of Assure Coverage	CT4000-ASSURE4
Station Activation and Configuration	CPSUPPORT-ACTIVE



CT4021

The First ENERGY STAR® Certified EV Charger

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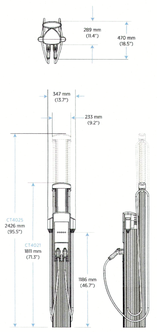
CT4000 Family Specifications

	Single Port (AC Voltage 208/240V AC)			Dual Port (AC Voltage 208/240V AC)		
Electrical Input	Input Current	Input Power Connection	Required Service Panel Breaker	Input Current	Input Power Connection	Required Service Panel Breaker
Standard	30A	One 40A branch circuit	40A dual pole (non-GFCI type)	30A x 2	Two independent 40A branch circuits	40A dual pole (non-GFCI type) x 2
Standard Power Share	n/a	n/a	n/a	32A	One 40A branch circuit	40A dual pole (non-GFCI type)
Power Select 24A	24A	One 30A branch circuit	30A dual pole (non-GFCI type)	24A x 2	Two independent 30A branch circuits	30A dual pole (non-GFCI type) x 2
Power Select 24A Power Share	n/a	n/a	n/a	24A	One 30A branch circuit	30A dual pole (non-GFCI type)
Power Select 16A	16A	One 20A branch circuit	20A dual pole (non-GFCI type)	16A x 2	Two independent 20A branch circuits	20A dual pole (non-GFCI type) x 2
Power Select 16A Power Share	n/a	n/a	n/a	16A	One 20A branch circuit	20A dual pole (non-GFCI type)
Service Panel GFCI	Do not provide external GFCI as it may conflict with internal GFCI (CCID)					
Wiring - Standard	3-wire (L1,L2, Earth)			5-wire (L1,L1,L2,L2, Earth)		
Wiring - Power Share	n/a			3-wire (L1,L2, Earth)		
Station Power	8W typical (standby), 1W maximum (operation)					

Electrical Output	
Standard	7.2kW (240V AC @ 30A) / 7.2kW (240V AC@30A) x 2
Standard Power Share	n/a / 7.2kW (240V AC@30A) x 1 **or** 3.8kW (240V AC@16A) x 2
Power Select 24A	5.8kW (240V AC@24A) / 5.8kW (240V AC@24A) x 2
Power Select 24A Power Share	n/a / 5.8kW (240V AC@24A) x 1 **or** 2.9kW (240V AC@12A) x 2
Power Select 16A	3.8kW (240V AC@16A) / 3.8kW (240V AC@16A) x 2
Power Select 24A Power Share	n/a / 3.8kW (240V AC@16A) x 1 **or** 1.9kW (240V AC@8A) x 2
Functional Interfaces	
Connector(s) Type	SAE J1772™ / SAE J1772™ x 2
Cable Length – 1630 mm (5') Cable Management	5.5 m (18') / 5.5 m (18') x 2
Cable Length – 2440 mm (8') Cable Management	n/a / 7 m (23')
Overhead Cable Management System	Yes
LCD Display	145 mm (5.7") full color, 640x480, 30fps full motion video, active matrix, UV protected
Card Reader	ISO 15693, ISO 14443, NFC
Locking Holder	Yes / Yes x 2

CT4021 1630 mm (6') CT4025 2440 mm (8') Bollard

CT4023 1630 mm (6') CT4027 2440 mm (8') Wall Mount



Safety and Connectivity Features	
Ground Fault Detection	20mA CCID with auto retry
Open Safety Ground Detection	Continuously monitors presence of safety (green wire) ground connection
Plug-Out Detection	Power terminated per SAE J1772™ specifications.
Power Measurement Accuracy	+/- 2% from 2% to full scale (30A)
Power Report/Store Interval	15 minute, aligned to hour
Local Area Network	2.4 GHz Wi-Fi (802.11 b/g/n)
Wide Area Network	3G GSM, 3G CDMA
Safety and Operational Ratings	
Enclosure Rating	Type 3R per UL 50E
Safety Compliance	UL listed for USA and cUL certified for Canada; complies with UL 2594, UL 2231-1, UL 2231-2, and NEC Article 625
Surge Protection	6kV @ 3000A. In geographic areas subject to frequent thunder storms, supplemental surge protection at the service panel is recommended.
EMC Compliance	FCC Part 15 Class A
Operating Temperature	-30°C to +50°C (-22°F to 122°F)
Storage Temperature	-30°C to +60°C (-22°F to 140°F)
Non-Operating Temperature	-40°C to +60°C (-40°F to 140°F)
Operating Humidity	Up to 85% @ +50°C (122°F) non-condensing
Non-Operating Humidity	Up to 95% @ +50°C (122°F) non-condensing
Terminal Block Temperature Rating	105°C (221°F)
Charging Stations per 802.3 Radio Group	Maximum of 10. Each station must be located within 45m (150') "line of sight" of a gateway station.

ChargePoint, Inc. reserves the right to alter product offerings and specifications at any time without notice, and is not responsible for typographical or graphical errors that may appear in this document.

Contact Us

Visit chargepoint.com
Call +1.408.705.5992
Email sales@chargepoint.com

chargepoint

ChargePoint, Inc.
240 East Hacienda Avenue
Campbell, CA 95008-6617 USA
+1.408.841.4500 or
+1.877.370.3833 (US and Canada toll-free)
chargepoint.com

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