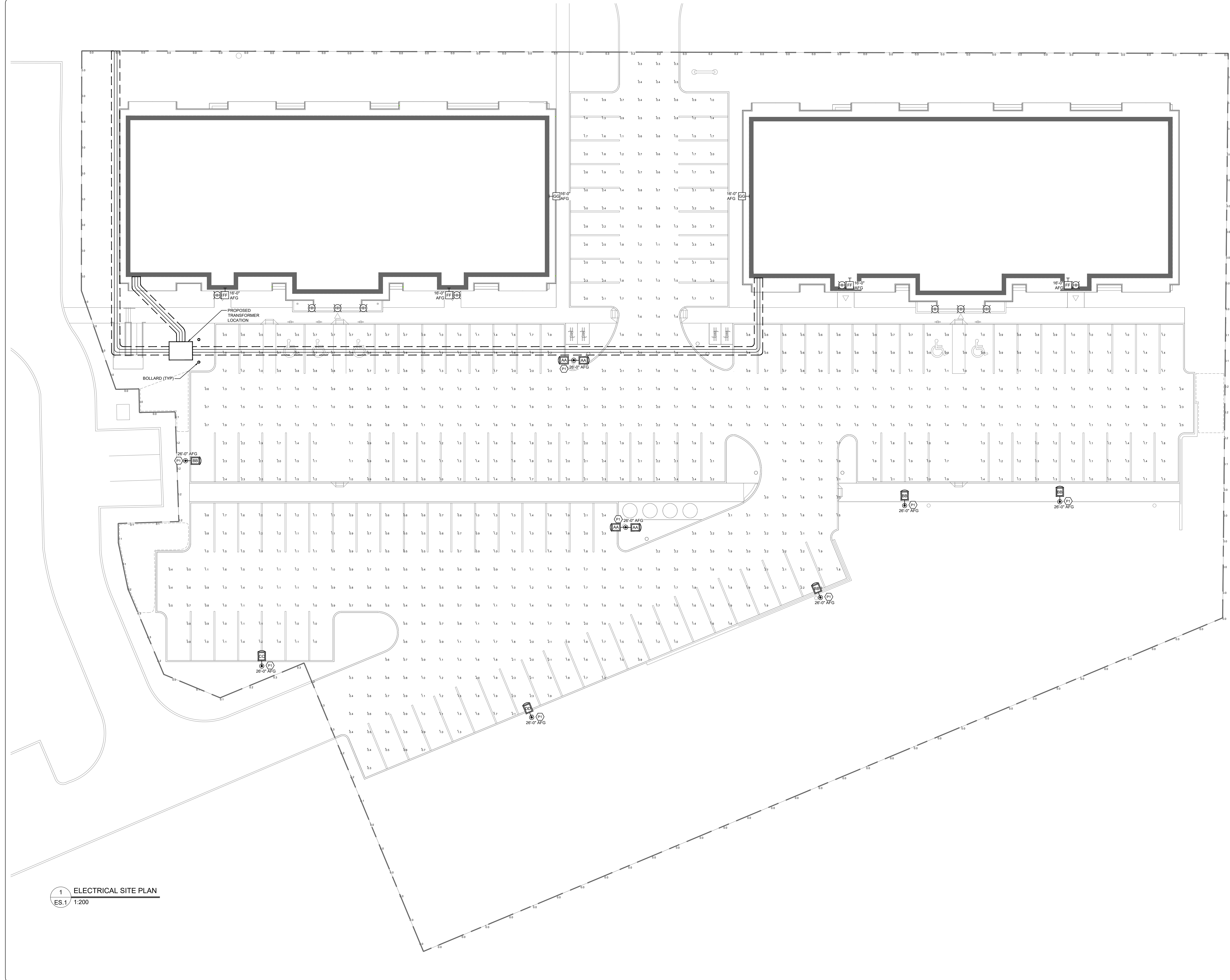
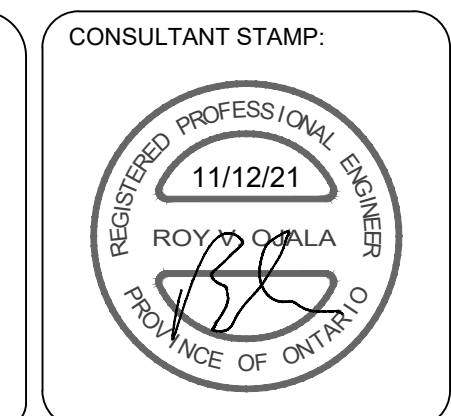
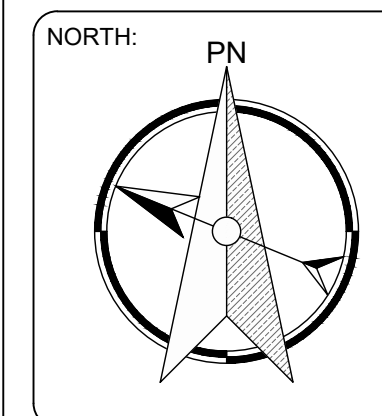


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3	RE-ISSUED FOR SPA	11/12/21
2	RE-ISSUED FOR SPA	03/24/21
1	ISSUED FOR SPA	01/25/21
#	DESCRIPTION	MM/DD/YY

786 William St Apartment
 786 WILLIAM ST.
 MIDLAND, ON

DRAWING TITLE:
**ELECTRICAL
 SITE PLAN**

DRAWN BY: M. TAYLOR	CHECKED BY: D. SARGENT	APPROVED BY: D. SARGENT
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SCALE: AS NOTED	SHEET SIZE: ARCH D
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PROJECT #: 20-216	SHEET #: ES.1
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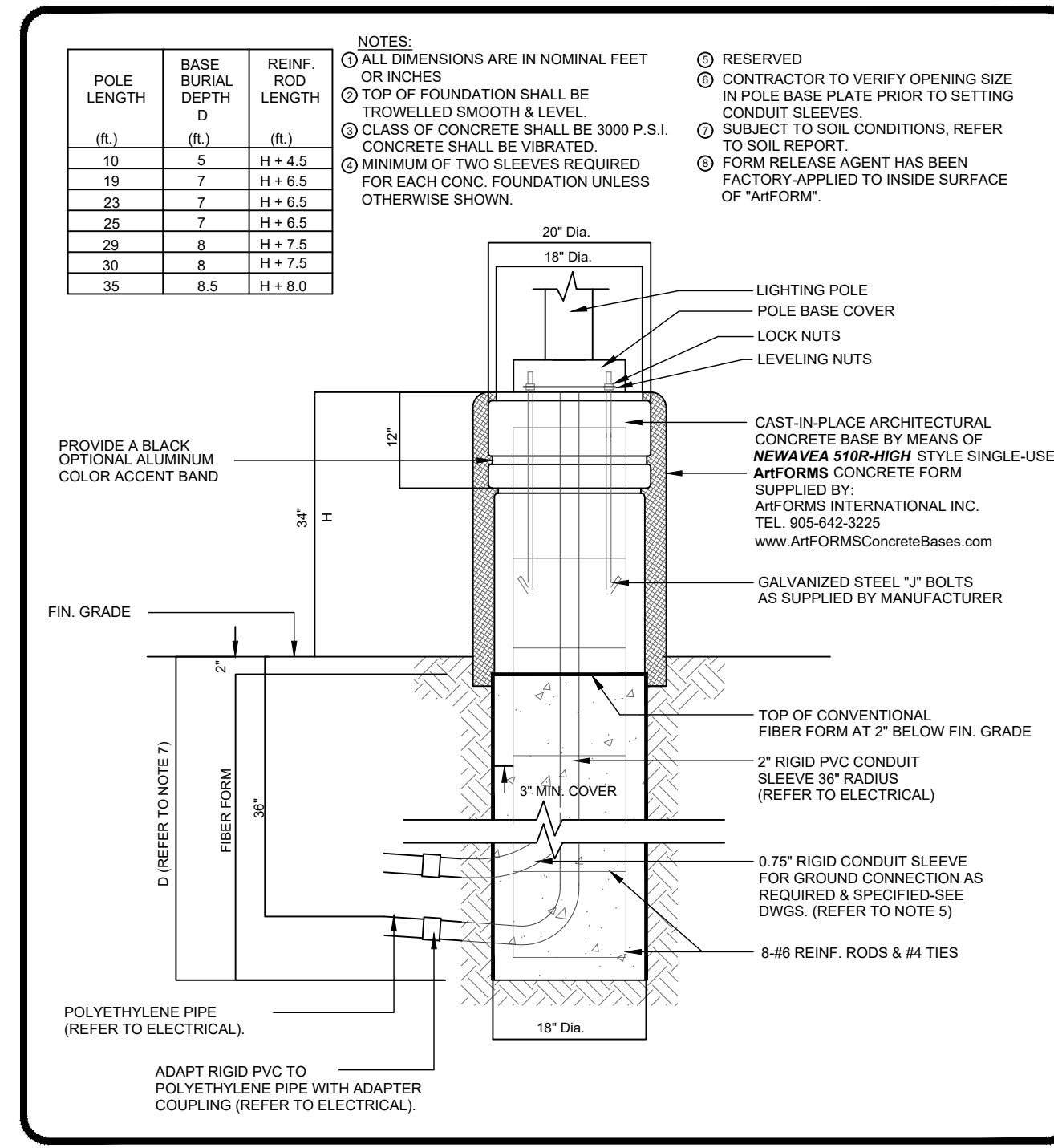
TYPE	MANUFACTURE	MODEL	CATALOGUE NUMBER	NUMBER AND TYPE OF LAMPS	LAMP COLOR	VOLTAGE	MOUNTING	MOUNTING HEIGHT	REMARKS	ALTERNATE MANUFACTURE
AA	BEACON	VIPER	VPS-36L-80-3K7-4F-UNV-A-BLT-SCP30F	LED - 80W	3000K	120V	POLE	26'-0" AFG	ARCHITECT TO CONFIRM FINISH. PROVIDE 3'-0" POLE BASE	
BB	BEACON	VIPER	VPS-48L-110-3K7-4F-UNV-A-BLT-SCP30F-8C	LED - 110W	3000K	120V	POLE	26'-0" AFG	ARCHITECT TO CONFIRM FINISH. PROVIDE 3'-0" POLE BASE	
CC	BEACON	VIPER	VPS-24L-55-3K7-4W-UNV-A-BLT-SCP30F-8C	LED - 55W	3000K	120V	POLE	26'-0" AFG	ARCHITECT TO CONFIRM FINISH. PROVIDE 3'-0" POLE BASE	
DD	BEACON	VIPER	VPS-48L-110-3K7-3-UNV-A-BLT-SCP30F	LED - 110W	3000K	120V	POLE	26'-0" AFG	ARCHITECT TO CONFIRM FINISH. PROVIDE 3'-0" POLE BASE	
FF	KM LIGHTING	WALL DIRECTOR	WDS-D-24L-30-3K7-2-UNV-BL-SCP-20F	LED - 30W	3000K	120V	WALL	16'-0" AFG	ARCHITECT TO CONFIRM FINISH.	
GG	KM LIGHTING	WALL DIRECTOR	WDS-D-24L-60-3K7-2-UNV-BL-SCP-20F	LED - 60W	3000K	120V	WALL	16'-0" AFG	ARCHITECT TO CONFIRM FINISH.	
HH	PRESCOLITE	LITEISTRY	LTR-6RD-H-SL-15L-DM-1-LTR-6RD-T-SL-30K-8-XW-SS	LED - 19W	3000K	120V	RECESSED	NA	ARCHITECT TO CONFIRM FINISH.	

Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Max/Avg	Avg/Min	# Points	
PARKING LOT	Illuminance	Fc	1.36	3.0	0.3	2.21	4.53	879	
PROPERTY LINE	Illuminance	Fc	0.05	0.3	0.0	6.00	NA	147	

THIS DRAWING INDICATES ALL PROPOSED OUTDOOR LIGHTING FIXTURES FOR THIS PROPOSED DEVELOPMENT. THE LIGHTING DESIGN IS IN ACCORDANCE WITH THE APPLICABLE LIGHTING ZONE AS ESTABLISHED BY THE TOWN OF MIDLAND, AND DESIGNED WITH AN AVERAGE TO MINIMUM RATIO IN ACCORDANCE WITH THE ILLUMINATING ENGINEERING SOCIETY GUIDELINES. THIS LIGHTING DESIGN WILL NOT CREATE ANY OBJECTIONABLE GLARE FOR ADJACENT PROPERTIES.

BL
Signature of Design Professional

- DISCLAIMER:**
- CONDUIT TYPES AS NOTED ON DRAWING
 - DEVICE MOUNTING HEIGHTS TO BOTTOM OF DEVICES UNLESS OTHERWISE NOTED ON PLANS. CONFIRM ALL MOUNTING HEIGHTS WITH ARCHITECTURAL PLANS PRIOR TO INSTALLATION. NOTIFY CONSULTANT OF ANY DISCREPANCIES.
- GENERAL CONDITIONS:**
- THE CANADIAN STANDARD FORM OF CONSTRUCTION CONTRACT AND GENERAL CONDITIONS GOVERNING THE SAME CCDC ARTICLES 1 TO 45 INCLUSIVE ARE HEREBY MADE A PART OF THIS SPECIFICATION.
 - ALL WORK SHALL BE IN FULL ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO ELECTRICAL CODE, LOCAL POWER COMMISSION AND THE LOCAL INSPECTION DEPARTMENT REQUIREMENTS.
 - ELECTRICAL CONTRACTOR SHALL INCLUDE FOR GENERAL ESA FEES. ELECTRICAL CONSULTANT WILL BE RESPONSIBLE FOR ANY ASSOCIATED FEES FOR THE ESA PLAN REVIEW.
 - THIS CONTRACTOR SHALL MAINTAIN ADEQUATE LIABILITY INSURANCE.
 - ALL WORKMANSHIP SHALL BE EXECUTED TO A STANDARD DETERMINED BY GOOD PRACTICE. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE THE INSTALLATION FOR ONE YEAR.
 - THE ELECTRICAL CONTRACTOR SHALL SUBMIT SIX (6) SETS OF SHOP DRAWINGS TO THE ENGINEER. MATERIALS SHALL NOT BE ORDERED UNTIL REVIEW HAS BEEN COMPLETED. APPROVAL IS FOR GENERAL DESIGN AND ARRANGEMENT ONLY.
 - THE OWNERS RESERVE THE RIGHT TO ALTER THE LOCATION OF ANY ITEM UP TO TEN (10) FEET (3M) WITHOUT INCURRING AN EXTRA COST, PROVIDED HE DOES SO BEFORE THE ITEM IS INSTALLED.
 - ALL MATERIAL AND EQUIPMENT USED ON THIS PROJECT SHALL BE C.S.A. APPROVED.
 - THE CUTTING AND PATCHING FOR ELECTRICAL WORK SHALL BE DONE BY THE GENERAL CONTRACTOR AT THE ELECTRICAL CONTRACTOR'S EXPENSE.
 - THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS BEFORE SUBMITTING HIS TENDER PRICE.
 - ALL DIMENSIONS SHALL BE TAKEN FROM THE ARCHITECTURAL DRAWINGS.
 - THE ELECTRICAL CONTRACTOR SHALL SUPPLY ALL LABOUR AND MATERIALS TO PROVIDE ELECTRIC SERVICE COMPLETE WITH BRANCH CIRCUITS ALL AS SHOWN ON PLANS.
 - PROVIDE LABELING OF ALL ELECTRICAL DEVICES AND EQUIPMENT.
 - ELECTRICAL CONTRACTOR SHALL NOTIFY ELECTRICAL CONSULTANT OF ANY DISCREPANCIES RELATED TO THE ELECTRICAL DRAWINGS DURING THE TIME OF TENDER.



1 POLE BASE DETAILS FOR POLE MOUNTED FIXTURES (36")
ES.2 NTS

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MTD. HEIGHT
	POLE MOUNTED FIXTURE	AS NOTED
	POLE MOUNTED FIXTURE (BACK TO BACK)	AS NOTED
	WALL MOUNTED FIXTURE	AS NOTED
	BOLLARD FIXTURE	N/A
	RECESSED DOWNLIGHT	N/A
	NOTE TAG	N/A

CONDUIT LEGEND + CONVERSION

SYMBOL	METRIC	IMPERIAL
	16mm	5/8"
	21mm	3/4"
	27mm	1"
	35mm	1-1/2"
	40mm	1-1/2"
	50mm	2"
	75mm	3"
	100mm	4"

CONDUIT + TRAY TYPES

	UNDERGROUND CONDUIT (SIZE AS PER PLAN)
	OVERHEAD CONDUIT (SIZE AS PER PLAN)
	CONDUIT STUB DOWN
	CONDUIT STUB UP

- ELECTRICAL SITE PLAN NOTES:**
- ELECTRICAL CONTRACTOR SHALL PROVIDE BASE FOR POLE MOUNTED FIXTURE AS PER DETAIL 1 ON SHEET ES.3.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE BASE FOR BOLLARD FIXTURE AS PER DETAIL 2 ON SHEET ES.3.4



NORTH:

CONSULTANT STAMP:

3	RE-ISSUED FOR SPA	11/12/21
2	RE-ISSUED FOR SPA	03/24/21
1	ISSUED FOR SPA	01/25/21
#	DESCRIPTION	MM/DD/YY

786 William St Apartment
786 WILLIAM ST.
MIDLAND, ON

DRAWING TITLE:
ELECTRICAL SITE PLAN NOTES & DETAILS

DRAWN BY: M. TAYLOR	CHECKED BY: D. SARGENT	APPROVED BY: D. SARGENT
SCALE: AS NOTED	SHEET SIZE: ARCH D	
PROJECT #: 20-216	SHEET #: ES.2	

DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG # _____

VIPER S

SMALL VIPER LUMINAIRE

FEATURES

- Small size companion to Viper Large
- Wide choice of different LED wattage configurations
- Nine optical distributions
- Designed to replace HID lighting up to 400W MH or HPS
- Suitable for wet locations



CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE | wSCAPE | energent | SiteSync

CONSTRUCTION

- Manufactured with die cast aluminum
- Coated with a polyester finish that meets ASTM B77 corrosion test requirements and ASTM D522 cracking and loss of adhesion test requirements
- P/S polyester powder-coat electrostatically applied and thermocured. P/S finish consists of a five stage pretreatment regimen with a primer primer sealer and top coat finished with a thermoset super TGIC polyester powder coat finish
- The finish meets the AAMA 2604 performance specification which includes passing a 3000-hour salt spray test for corrosion resistance and resist cracking or loss of adhesion per ASTM D522 and resists surface impacts up to 160 inch-pounds
- External hardware is corrosion resistant
- Ambient operating temperature: -40°C to 25°C
- Surge protection: 20kA
- Lifespan: Circuit (see Electrical Data)

INSTALLATION

- Mounting options for horizontal arm, vertical lumen or traditional arm mounting available. Mounting hardware included

ELECTRICAL

- Luminaire accepts 100V through 277V, 347V or 480V input 50 Hz to 60 Hz (LVN)

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DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG # _____

VIPER S

SMALL VIPER LUMINAIRE

ORDERING GUIDE

Example: VPS-24L-55-40T-4W-UN-A-DRT-TL-GEN-04-BC

Series	LED Engine	CCT/CRI ¹	Color	Distribution	Blank	Options	Voltage
VPS - Viper Small	24L39 39W LED array 24L55 55W LED array 24L65 65W LED array 24L80 80W LED array 24L100 100W LED array 24L135 135W LED array	3K7 3000K, 70 CRI 4K7 4000K, 70 CRI 5K7 5000K, 70 CRI	BL Black DB Dark Bronze LG Light Grey PS Platinum Silver WH White CC Custom Color	FR Type 1/8 Round 2 Type 2 3 Type 3 4P Beveled 4" Type 4 5 Type 4 Wide 6 Type 6 SR Type SR (Round) w/ 2" Series Cord TW Type TW (Tapered) w/ 2" Series Cord TC Corner Right CR Corner Left CL	Blank, No rotation L Optic rotation left R Optic rotation right	BC Backward Available for FR, 2, 3, 4, 4P, 4W, 4W, 4W CD Continuous Dimming F Flange TB Terminal Block	UNV 120-277V 347 347V 480 480V

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DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG # _____

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

FEATURES

- 6" Etched LED downlight delivering 600 - 9000 lm
- Four beam distributions from 0.3 to 11 Spacing Criteria
- Quiet reflector appearance with superior 50° optical cutoff
- 2700K - 5000K, 80- and 90- CRI options
- Available for New Construction (non-IC), Retrofit (non-IC), and Chicago Plenum applications
- Variety of dimming protocol options including 0-10V, DALI, DMX, Lutron Forward Phase, and Ecosystem
- NK Distributed Intelligence™ wired and wireless controls capability available



CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE | wSCAPE | energent | SiteSync

CONSTRUCTION

- Standard Non-IC, Chicago Plenum, IC and Retrofit options
- New Construction: Painted black durable steel platform with pre-installed bar hangers
- Retrofit: Die cast aluminum mounting ring with 5-axis adjustable junction box
- Retrofit housing allows below ceiling installation without removing existing fixture
- Pre-wired junction box with snap-on covers for easy access
- Snap-in connection for other compartment allows easy installation
- Light Engine connections use plenum rated (CMP) cable

INSTALLATION

- High quality spun aluminum reflector, self-flashed
- Flush Mount flange option with mud-in ring available
- Large selection of anodized finishes and colors
- Painted cones and flange options available

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DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG # _____

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

ORDERING GUIDE

Example: LTR-6RD-HL-SL0L-DM-F-LTR-6RD-T-SL35K8MD-S

Aperture/Shape/Function	Lumen Package	Lumen Output	Driver Options	Control Options	Voltage	Housing Options
LTR-6RD-H	SL Standard Lumen ML Medium Lumen HL High Lumen VL Very High Lumen XL Extra High Lumen	06L 600 10L 1000 20L 2000 30L 3000 40L 4000 50L 5000 70L 7000 80L 8000 90L 9000	DM1 0-10V Dimming to 1% DM2 0-10V Dimming to 1% DM3 DMX with DMX dimming to 0.5% DALI DALI Dimming to 1% 20M Lutron H/Lume 2-Wire Dimming to 1% (20V Forward Phase only) ECM Lutron H/Lume Ecosystem Dimming to 1% LV Lutron V-Line Enabled, 0-10V (wireless) LVE Lutron V-Line Enabled, Ecosystem, (requires ECM)	NX NK Enabled, Dual SmartPhy™ NWX NK Wireless Enabled* NWXD NK Wireless Enabled, Dual SmartPhy™ NWXD2 NK Wireless Enabled, Dual SmartPhy™ NWXD3 NK Wireless Enabled, Dual SmartPhy™ NWXD4 NK Wireless Enabled, Dual SmartPhy™ NWXD5 NK Wireless Enabled, Dual SmartPhy™ NWXD6 NK Wireless Enabled, Dual SmartPhy™ NWXD7 NK Wireless Enabled, Dual SmartPhy™ NWXD8 NK Wireless Enabled, Dual SmartPhy™ NWXD9 NK Wireless Enabled, Dual SmartPhy™ NWXD10 NK Wireless Enabled, Dual SmartPhy™	Standard 120-277V 347 347V 480 480V	CP Chicago Plenum, IC IC IC rated EM Emergency Battery Pack with integral test switch and indicator light EMR Emergency Battery Pack with remote test switch and indicator light DTS Device Transfer Switch with Dimming Bypass GTD Generator Transfer Device F Flange

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CONSULTANT



ROMBALD INC.
 Engineers Specializing in Building Services

NORTH:

CONSULTANT STAMP:



REGISTERED PROFESSIONAL ENGINEER
 11/12/21
 ROYAL COLLEGE OF ENGINEERS
 PROVINCE OF ONTARIO

1 FIXTURE TYPE AA, BB, CC & DD SPECIFICATION SHEET
 ES.3 NTS

DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG # _____

WDS

WALL MOUNTED

Wall Director

FEATURES

- 5° to 10° tilt adjustment
- High performance optics deliver up to 7500 lumens
- Up or down mountable without modification
- Programmable occupancy sensor (dimming)
- NK and SteadySync wireless controls
- 130+ lumens per watt
- UL/UL listed for wet locations, IP66 listed



CONTROL TECHNOLOGY

NX DISTRIBUTED INTELLIGENCE | wSCAPE | energent | SiteSync

CONSTRUCTION

- Optical housing is one-piece, die-cast low copper (0.05%) aluminum alloy with integral heat sink. The housing rotates against mounting arm housing to provide 5° to 10° of adjustment with degree markers label. At 0° adjustment, lens is totally concealed from view above horizontal with fixture mounted in the downward position.
- Mounting arm housing is one-piece die-cast, low copper (0.05%) aluminum alloy with provisions for tilt mechanism. Mounting arm fastens to the mounting plate with keyhole slots freeing both hands for securing and wiring. One stainless steel socket-head screw on the tilt mechanism frees the optical housing to rotate for aiming. Tightening the screws locks the housing and lens frame together with sealing provided by a silicone gasket. For visual aiming, adjustment may be accomplished with the fixture on.
- Lens frame is one-piece, die-cast low copper (0.05%) aluminum alloy with integral cooling fins to dissipate driver thermal.
- Finish: fade and abrasion resistant, electrostatically applied, thermally cured, triglycidyl isocyanurate (TGIC) polyester powdercoat

OPTICS

- LED's mount to a metal printed circuit board assembly (MCPCB)
- Optical lenses are clear injection molded PMMA acrylic.
- Secondary lens is impact resistant 18" tempered glass with anti-reflective coating.

INSTALLATION

- Junction box is stainless steel and features a one-piece EPDM gasket on back side of plate to firmly seal fixture to wall surface, forbidding entry of moisture and particulates.
- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

SERVICING

- Housing should hang freely in an open service position for inspection of primary wire connections. Once in service position, the housing can be removed for service by sliding the assembly to the left (for down mounting) or to the right (for up mounting) and disconnecting the wiring plugs.
- Driver assembly shall be mounted to a pre-wired internal tray with quick disconnects for removal.

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DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG # _____

WDS

WALL MOUNTED

ORDERING GUIDE

Example: WDS-D-24L-30-2K73-LUNV-BLS-PC-EM-SW16B

Model	Mounting	Source	Wattage	Light Engine	Distribution
WDS WallDirector Small	D Down	24L 24 LEDs	30 30 Watts, 3000 lm 40 40 Watts, 4000 lm 60 60 Watts, 6000 lm 75 75 Watts, 7500 lm	AM - Amber 555nm Peak 3K7 3000K/70CRI 3K8 3000K/80CRI 4K7 4000K/70CRI 4K8 4000K/80CRI 5K7 5000K/70CRI	1 Type 1 2 Type 2 3 Type 3 4W Type W Wide 4F Type F Forward WS1 Wall Grace SP Spot/Calm FD1 Forward Throw Diffuse WD1 Wide Throw Diffuse

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DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG # _____

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

FIXTURE TYPE JJ SPECIFICATION SHEET

ES.3 NTS

DATE: _____ LOCATION: _____
 TYPE: _____ PROJECT: _____
 CATALOG # _____

LTR-6RD

LITEISTRY 6" ROUND DOWNLIGHT

FIXTURE TYPE JJ SPECIFICATION SHEET

ES.3 NTS

786 William St Apartment
 786 WILLIAM ST.
 MIDLAND, ON

DRAWING TITLE:
ELECTRICAL SITE PLAN NOTES & DETAILS

DRAWN BY: M. TAYLOR
 CHECKED BY: D. SARGENT
 APPROVED BY: D. SARGENT

SCALE: AS NOTED
 SHEET SIZE: ARCH D
 PROJECT #: 20-216
 SHEET #: ES.3