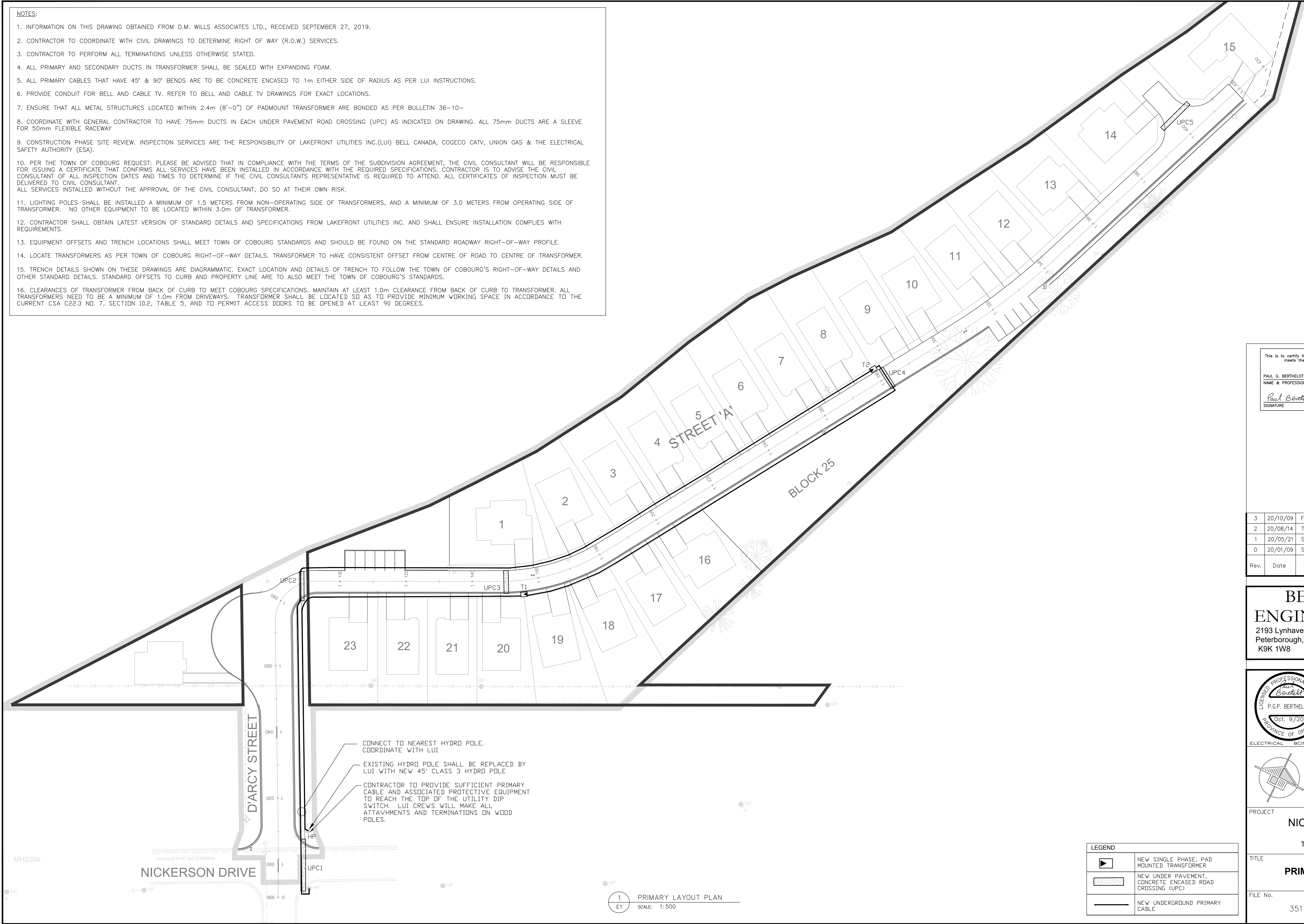


NOTES:

1. INFORMATION ON THIS DRAWING OBTAINED FROM D.M. WILLS ASSOCIATES LTD., RECEIVED SEPTEMBER 27, 2019.
2. CONTRACTOR TO COORDINATE WITH CIVIL DRAWINGS TO DETERMINE RIGHT OF WAY (R.O.W.) SERVICES.
3. CONTRACTOR TO PERFORM ALL TERMINATIONS UNLESS OTHERWISE STATED.
4. ALL PRIMARY AND SECONDARY DUCTS IN TRANSFORMER SHALL BE SEALED WITH EXPANDING FOAM.
5. ALL PRIMARY CABLES THAT HAVE 45° & 90° BENDS ARE TO BE CONCRETE ENCASED TO 1m EITHER SIDE OF RADIUS AS PER LUI INSTRUCTIONS.
6. PROVIDE CONDUIT FOR BELL AND CABLE TV. REFER TO BELL AND CABLE TV DRAWINGS FOR EXACT LOCATIONS.
7. ENSURE THAT ALL METAL STRUCTURES LOCATED WITHIN 2.4m (8'-0") OF PADMOUNT TRANSFORMER ARE BONDED AS PER BULLETIN 36-10-
8. COORDINATE WITH GENERAL CONTRACTOR TO HAVE 75mm DUCTS IN EACH UNDER PAVEMENT ROAD CROSSING (UPC) AS INDICATED ON DRAWING. ALL 75mm DUCTS ARE A SLEEVE FOR 50mm FLEXIBLE RACEWAY
9. CONSTRUCTION PHASE SITE REVIEW. INSPECTION SERVICES ARE THE RESPONSIBILITY OF LAKEFRONT UTILITIES INC.(LUI) BELL CANADA, COGECO CATV, UNION GAS & THE ELECTRICAL SAFETY AUTHORITY (ESA).
10. PER THE TOWN OF COBOURG REQUEST: PLEASE BE ADVISED THAT IN COMPLIANCE WITH THE TERMS OF THE SUBDIVISION AGREEMENT, THE CIVIL CONSULTANT WILL BE RESPONSIBLE FOR ISSUING A CERTIFICATE THAT CONFIRMS ALL SERVICES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE REQUIRED SPECIFICATIONS. CONTRACTOR IS TO ADVISE THE CIVIL CONSULTANT OF ALL INSPECTION DATES AND TIMES TO DETERMINE IF THE CIVIL CONSULTANTS REPRESENTATIVE IS REQUIRED TO ATTEND. ALL CERTIFICATES OF INSPECTION MUST BE DELIVERED TO CIVIL CONSULTANT. ALL SERVICES INSTALLED WITHOUT THE APPROVAL OF THE CIVIL CONSULTANT, DO SO AT THEIR OWN RISK.
11. LIGHTING POLES SHALL BE INSTALLED A MINIMUM OF 1.5 METERS FROM NON-OPERATING SIDE OF TRANSFORMERS, AND A MINIMUM OF 3.0 METERS FROM OPERATING SIDE OF TRANSFORMER. NO OTHER EQUIPMENT TO BE LOCATED WITHIN 3.0m OF TRANSFORMER.
12. CONTRACTOR SHALL OBTAIN LATEST VERSION OF STANDARD DETAILS AND SPECIFICATIONS FROM LAKEFRONT UTILITIES INC. AND SHALL ENSURE INSTALLATION COMPLIES WITH REQUIREMENTS.
13. EQUIPMENT OFFSETS AND TRENCH LOCATIONS SHALL MEET TOWN OF COBOURG STANDARDS AND SHOULD BE FOUND ON THE STANDARD ROADWAY RIGHT-OF-WAY PROFILE.
14. LOCATE TRANSFORMERS AS PER TOWN OF COBOURG RIGHT-OF-WAY DETAILS. TRANSFORMER TO HAVE CONSISTENT OFFSET FROM CENTRE OF ROAD TO CENTRE OF TRANSFORMER.
15. TRENCH DETAILS SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC. EXACT LOCATION AND DETAILS OF TRENCH TO FOLLOW THE TOWN OF COBOURG'S RIGHT-OF-WAY DETAILS AND OTHER STANDARD DETAILS. STANDARD OFFSETS TO CURB AND PROPERTY LINE ARE TO ALSO MEET THE TOWN OF COBOURG'S STANDARDS.
16. CLEARANCES OF TRANSFORMER FROM BACK OF CURB TO MEET COBOURG SPECIFICATIONS. MAINTAIN AT LEAST 1.0m CLEARANCE FROM BACK OF CURB TO TRANSFORMER. ALL TRANSFORMERS NEED TO BE A MINIMUM OF 1.0m FROM DRIVEWAYS. TRANSFORMER SHALL BE LOCATED SO AS TO PROVIDE MINIMUM WORKING SPACE IN ACCORDANCE TO THE CURRENT CSA C22.3 NO. 7, SECTION 10.2, TABLE 5, AND TO PERMIT ACCESS DOORS TO BE OPENED AT LEAST 90 DEGREES.



CONNECT TO NEAREST HYDRO POLE.
COORDINATE WITH LUI

EXISTING HYDRO POLE SHALL BE REPLACED BY
LUI WITH NEW 45' CLASS 3 HYDRO POLE

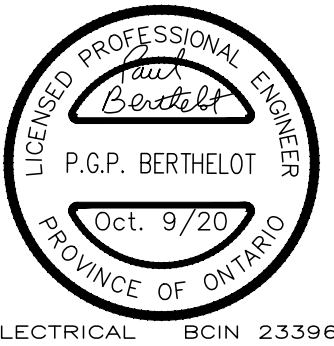
CONTRACTOR TO PROVIDE SUFFICIENT PRIMARY
CABLE AND ASSOCIATED PROTECTIVE EQUIPMENT
TO REACH THE TOP OF THE UTILITY DIP
SWITCH. LUI CREWS WILL MAKE ALL
ATTAVHMENTS AND TERMINATIONS ON WOOD
POLES.

LEGEND	
	NEW SINGLE PHASE, PAD MOUNTED TRANSFORMER
	NEW UNDER PAVEMENT, CONCRETE ENCASED ROAD CROSSING (UPC)
	NEW UNDERGROUND PRIMARY CABLE

This is to certify that the design as recorded in this set of drawings meets the requirements of the safety standards of ONTARIO REGULATION 22/04			
PAUL G. BERTHELOT, P.Eng.	Oct. 9, 2020	DATE	
NAME & PROFESSIONAL DESIGNATION			
<i>Paul Berthelot</i>	Oct. 9, 2020	DATE	
SIGNATURE			

3	20/10/09	FOURTH SUBMISSION	PGB	-
2	20/08/14	THIRD SUBMISSION	PGB	-
1	20/05/21	SITE PLAN SUBMITTAL #2	PGB	-
0	20/01/09	SITE PLAN SUBMITTAL	PGB	-
Rev.	Date	Description	By	App.

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Peterborough, ON.
K9K 1W8

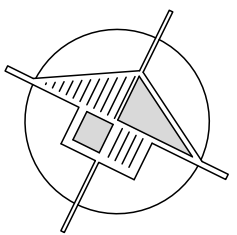


DWN.
T. ST. JEAN

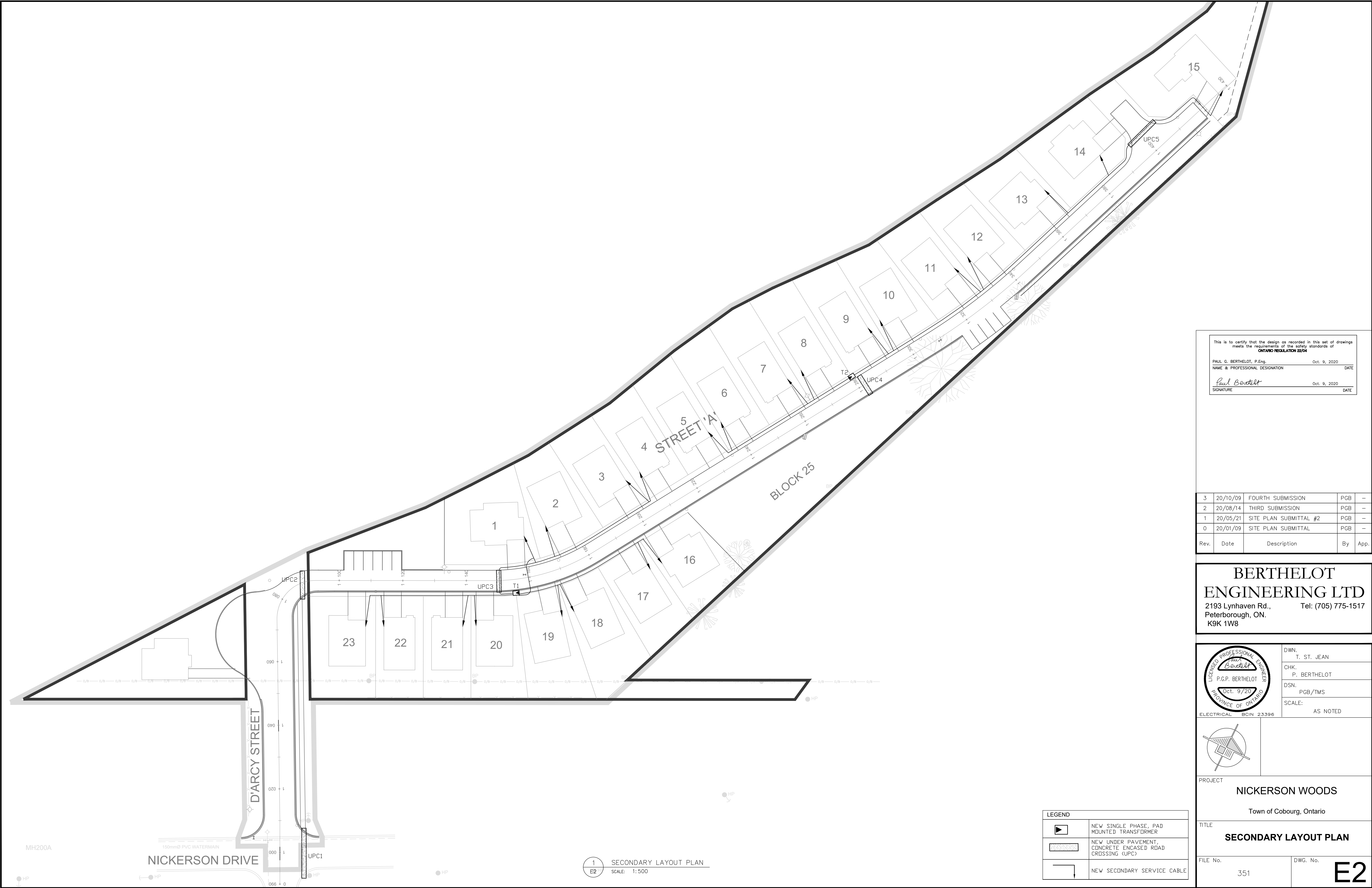
CHK.
P. BERTHELOT

DSN.
PGB/TMS

SCALE:
AS NOTED



PROJECT NICKERSON WOODS Town of Cobourg, Ontario	
TITLE PRIMARY LAYOUT PLAN	
FILE No. 351	DWG. No. E1



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SIGNATURE					

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2	20/08/14	THIRD SUBMISSION	PGB	—
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0	20/01/09	SITE PLAN SUBMITTAL	PGB	—
Rev.	Date	Description	By	App.

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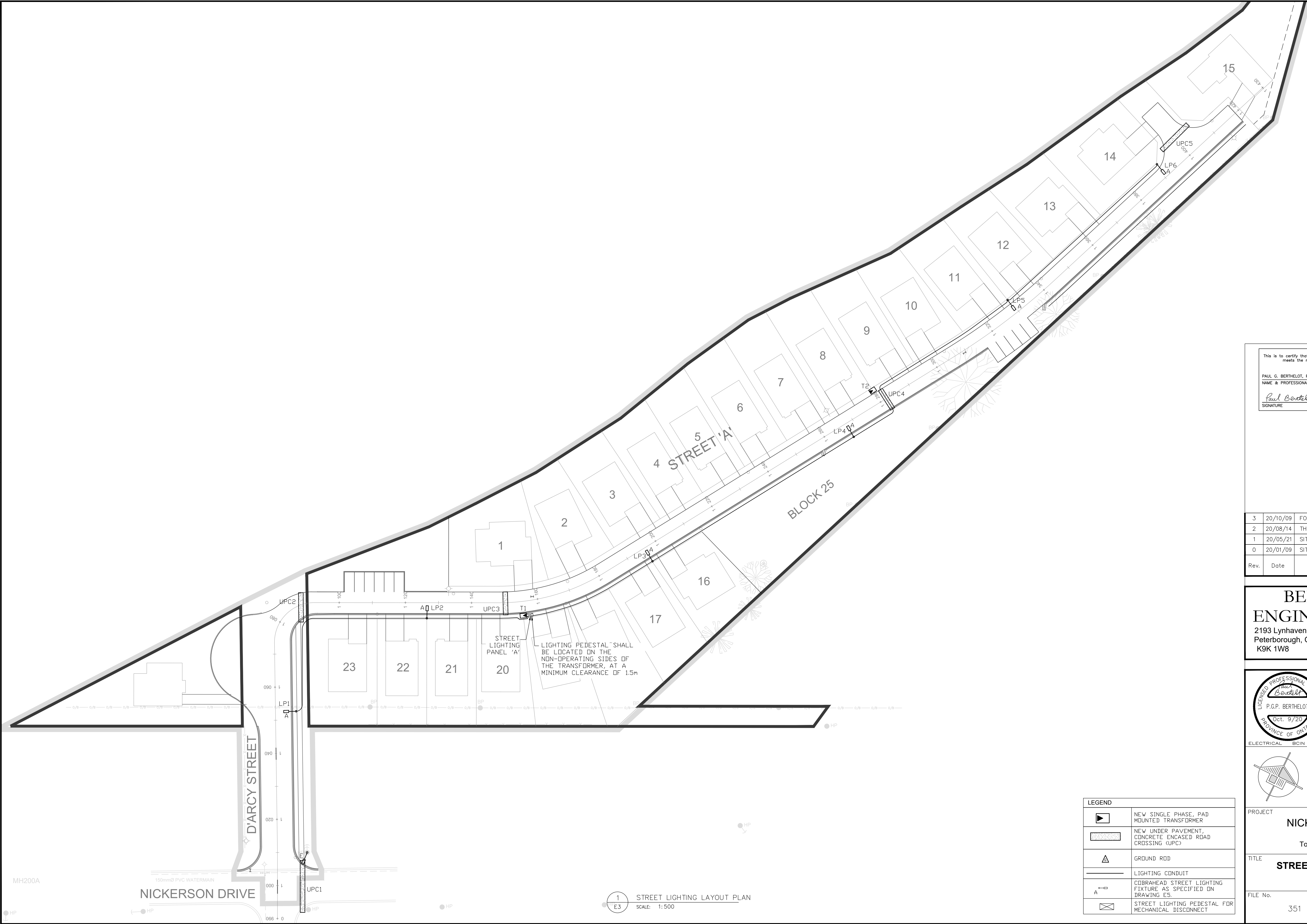
SCALE:
AS NOTED

PROJECT
NICKERSON WOODS
Town of Cobourg, Ontario

TITLE
SECONDARY LAYOUT PLAN

FILE No.
351

DWG. No.
E2



This is to certify that the design as recorded in this set of drawings meets the requirements of the safety standards of ONTARIO REGULATION 22/04			
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NAME & PROFESSIONAL DESIGNATION			
<i>Paul Berthelot</i>	Oct. 9, 2020	DATE	
SIGNATURE			

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2	20/08/14	THIRD SUBMISSION	PGB	—
1	20/05/21	SITE PLAN SUBMITTAL #2	PGB	—
0	20/01/09	SITE PLAN SUBMITTAL	PGB	—
Rev.	Date	Description	By	App.

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DWN. T. ST. JEAN
CHK. P. BERTHELOT
DSN. PGB/TMS
SCALE: AS NOTED

PROJECT
NICKERSON WOODS
Town of Cobourg, Ontario

TITLE
STREET LIGHTING LAYOUT PLAN

FILE No. 351
DWG. No. **E3**

LEGEND	
	NEW SINGLE PHASE, PAD MOUNTED TRANSFORMER
	NEW UNDER PAVEMENT, CONCRETE ENCASED ROAD CROSSING (UPC)
	GROUND ROD
	LIGHTING CONDUIT
	COBRAHEAD STREET LIGHTING FIXTURE AS SPECIFIED ON DRAWING ES
	STREET LIGHTING PEDESTAL FOR MECHANICAL DISCONNECT

LIGHTING CALCULATION RESULTS

STREET 'A'

AVERAGE: = 5.0 lux

MAXIMUM: = 20.6 lux

MINIMUM: = 0.2 lux

MAX/MIN: = 103.0:1

AVG/MIN: = 25.0:1

ROAD SPILL:

AVERAGE: = 2.2 lux

MAXIMUM: = 18.7 lux

MINIMUM: = 0.0 lux

MAX/MIN: = N/A

AVG/MIN: = N/A

SPILL (LOTS 1 TO 14):

AVERAGE: = 1.9 lux

MAXIMUM: = 10.9 lux

MINIMUM: = 0.2 lux

MAX/MIN: = 54.5:1

AVG/MIN: = 9.5:1

SPILL (LOT 15):

AVERAGE: = 0.5 lux

MAXIMUM: = 1.5 lux

MINIMUM: = 0.1 lux

MAX/MIN: = 15.0:1

AVG/MIN: = 5.0:1

SPILL (LOTS 16 TO 23):

AVERAGE: = 1.3 lux

MAXIMUM: = 9.9 lux

MINIMUM: = 0.1 lux

MAX/MIN: = 99.0:1

AVG/MIN: = 13.0:1

SPILL OVER EAST PROPERTY LINE

AVERAGE: = 0.1 lux

MAXIMUM: = 1.6 lux

MINIMUM: = 0.0 lux

MAX/MIN: = N/A

AVG/MIN: = N/A

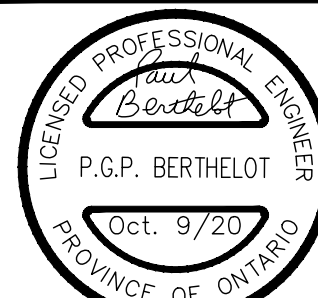
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ONTARIO REGULATION 22/04

PAUL G. BERTHELOT, P.Eng. Oct. 9, 2020
NAME & PROFESSIONAL DESIGNATION DATE

Paul Berthelot Oct. 9, 2020
SIGNATURE DATE

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2	20/08/14	THIRD SUBMISSION	PGB	—
1	20/05/21	SITE PLAN SUBMITTAL #2	PGB	—

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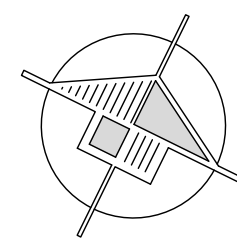


DWN. T. ST. JEAN

CHK. P. BERTHELOT

DSN. PGB/TMS

SCALE: AS NOTED



PROJECT
NICKERSON WOODS

Town of Cobourg, Ontario

TITLE
**STREET LIGHTING
ILLUMINATION PLAN**

FILE No.
351

DWG. No.

E3a

LEGEND	
	NEW SINGLE PHASE, PAD MOUNTED TRANSFORMER
	NEW UNDER PAVEMENT, CONCRETE ENCASED ROAD CROSSING (UPC)
	GROUND ROD
	LIGHTING CONDUIT
	COBRAHEAD STREET LIGHTING FIXTURE AS SPECIFIED ON DRAWING ES
	STREET LIGHTING PEDESTAL FOR MECHANICAL DISCONNECT

1 STREET LIGHTING ILLUMINATION PLAN
E3a SCALE: 1:500

LIGHTING PEDESTAL SHALL BE LOCATED ON THE NON-OPERATING SIDES OF THE TRANSFORMER, AT A MINIMUM CLEARANCE OF 1.5m

CONNECT TO NEAREST HYDRO POLE. COORDINATE WITH LUI

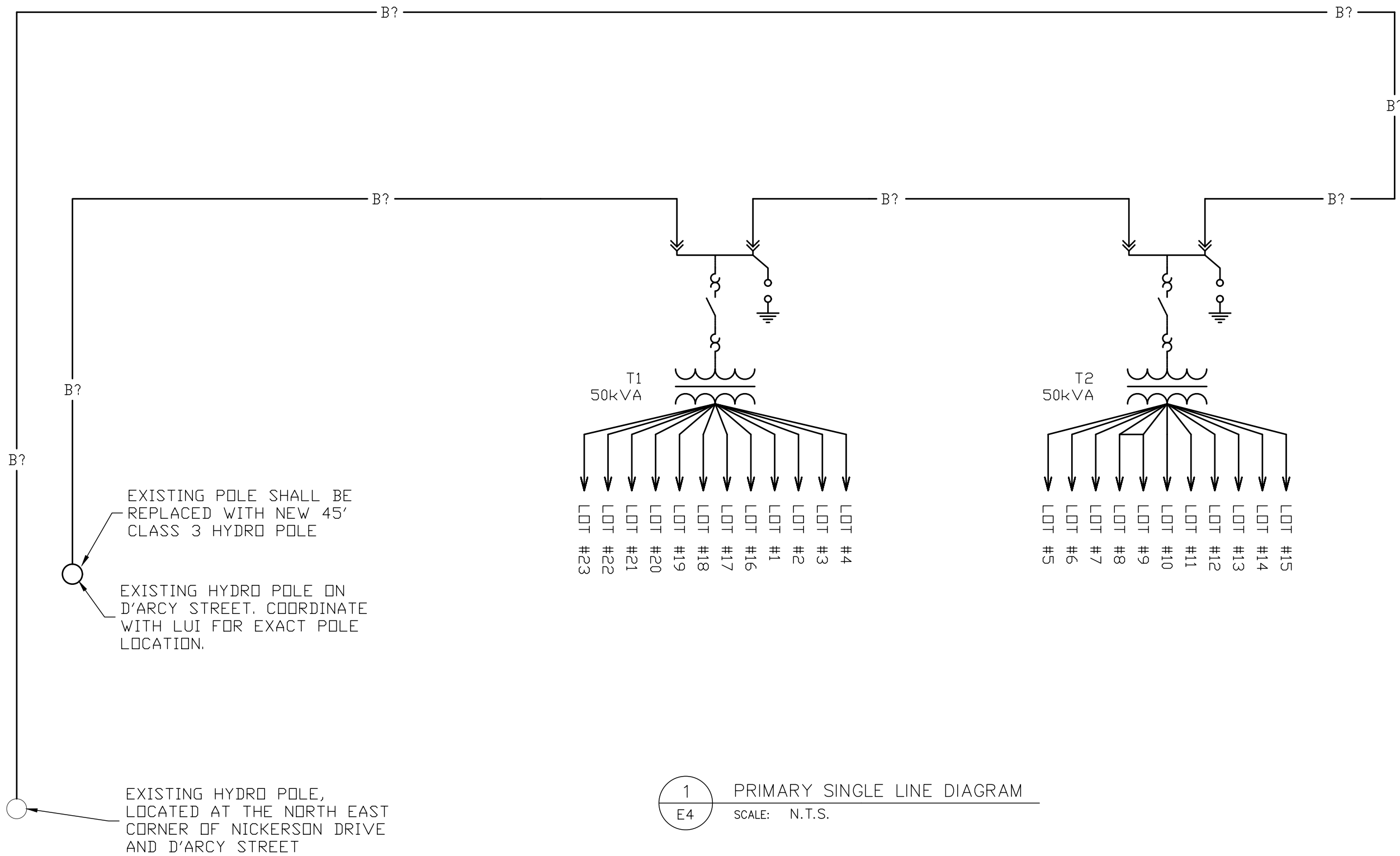
EXISTING HYDRO POLE SHALL BE REPLACED BY LUI WITH NEW 45' CLASS 3 HYDRO POLE

CONTRACTOR TO PROVIDE SUFFICIENT PRIMARY CABLE AND ASSOCIATED PROTECTIVE EQUIPMENT TO REACH THE TOP OF THE UTILITY DIP SWITCH. LUI CREWS WILL MAKE ALL ATTACHMENTS AND TERMINATIONS ON WOOD POLES.

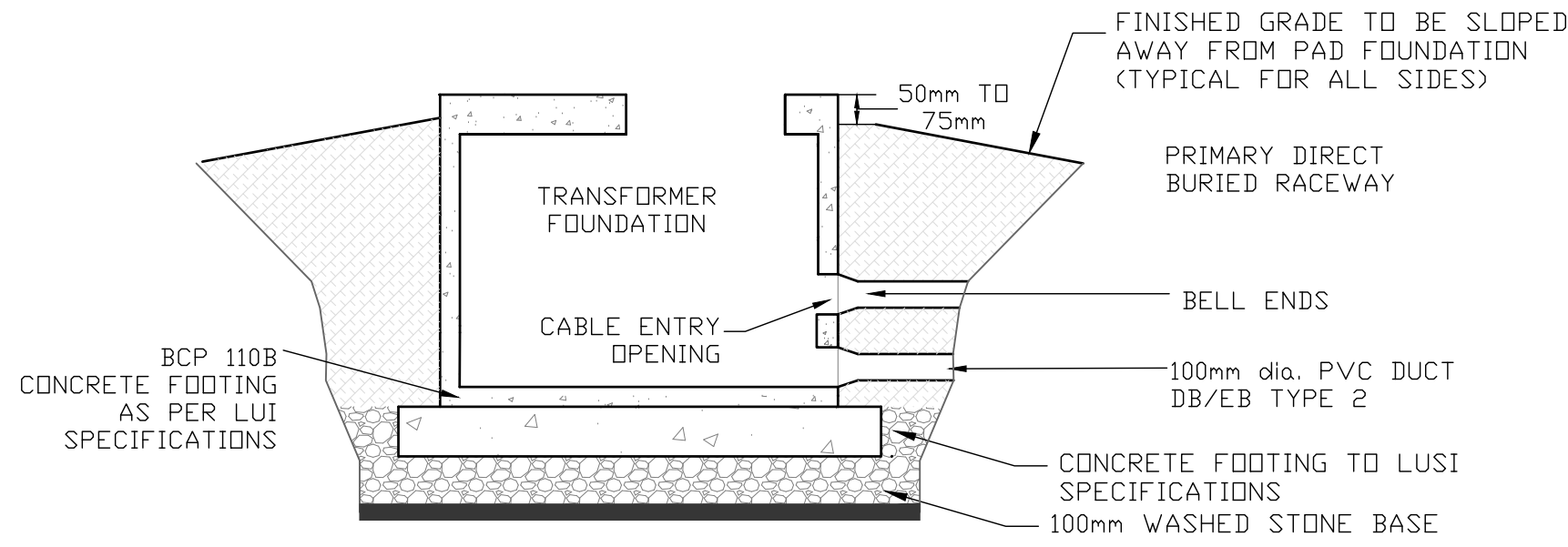
MH200A

NICKERSON DRIVE

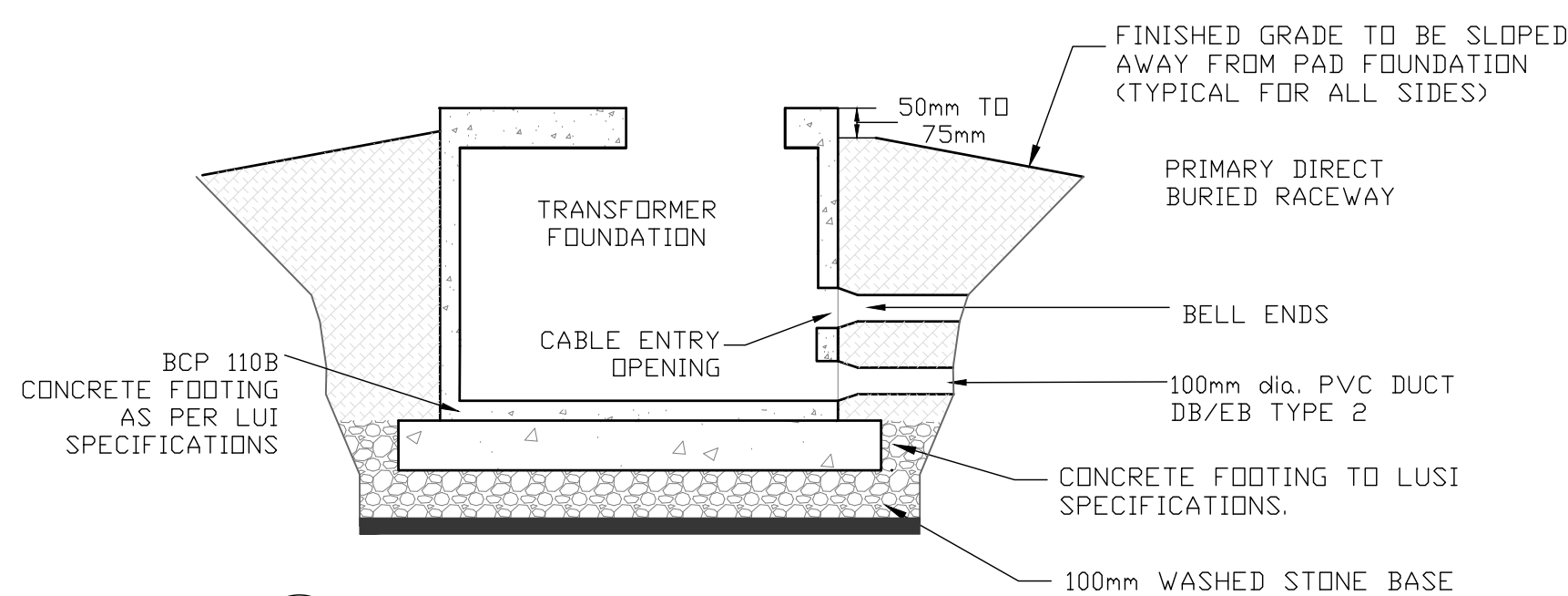
DARCY STREET



1 PRIMARY SINGLE LINE DIAGRAM
SCALE: N.T.S.



6 PRIMARY DUCT ENTRY INTO TRANSFORMER FOUNDATION
SCALE: N.T.S.



7 SECONDARY DUCT ENTRY INTO TRANSFORMER FOUNDATION
SCALE: N.T.S.

LAKEFRONT UTILITIES INC.
SPECIFICATION FOR SINGLE-PHASE PADMOUNTED, DEAD FRONT
OIL-FILLED DISTRIBUTION TRANSFORMERS
DT2 - 2016-R3

GENERAL - 50kVA TRANSFORMERS

THESE TRANSFORMERS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH CSA SPECIFICATION C227.3-06, "LOW PROFILE, SINGLE-PHASE PADMOUNTED DISTRIBUTION TRANSFORMERS WITH SEPARABLE INSULATED HIGH VOLTAGE CONNECTORS".

VOLTAGE

1. PRIMARY VOLTAGE-27600 GRDY/16000V
2. SECONDARY VOLTAGE-240Y/120- 30KV BIL

GROUNDING

MUST ADHERE TO GROUNDING; CLAUSE 6.4 OF SPECIFICATION CSA C227.3-06.

DUCT OPENINGS

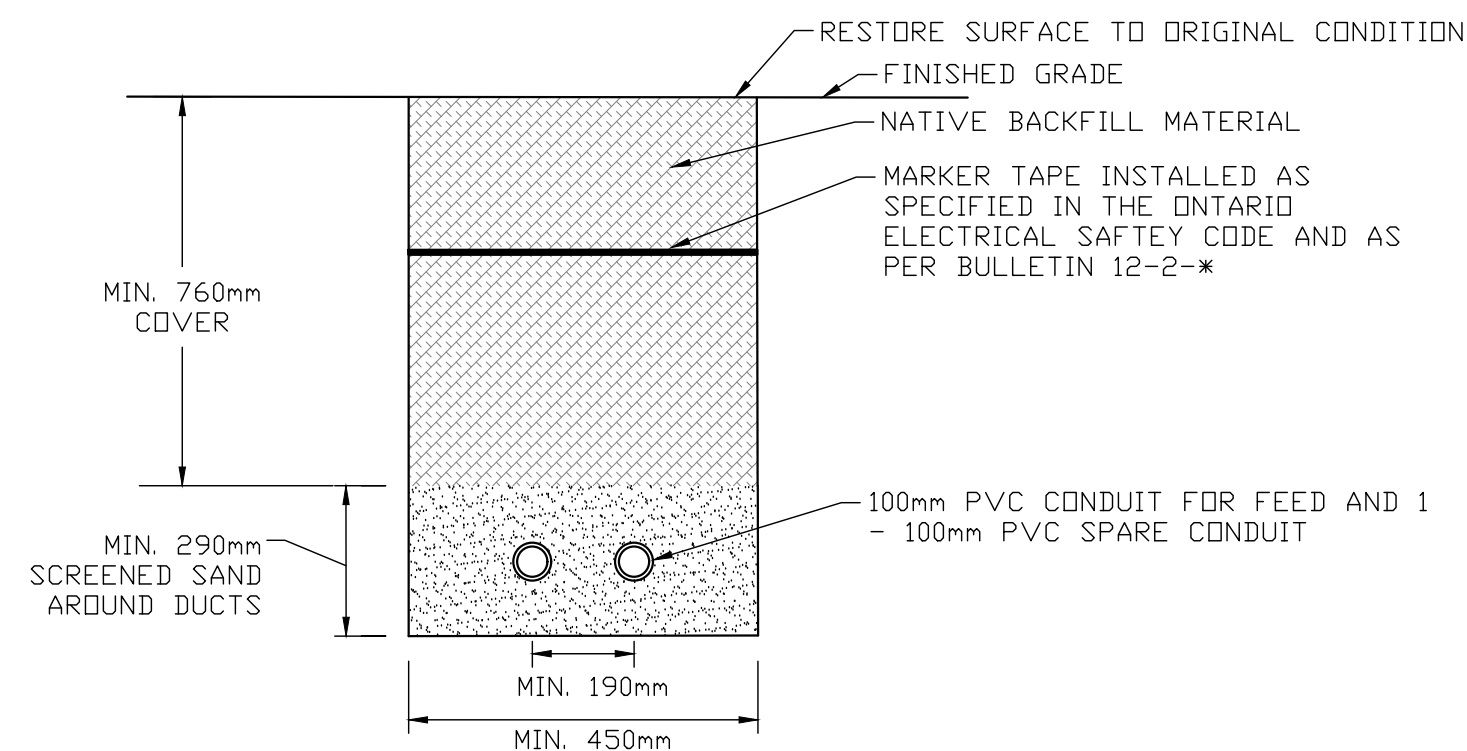
ALL DUCT OPENINGS IN TRANSFORMER VAULTS SHALL BE FILLED WITH EXPANSION FOAM AFTER CABLES ARE PULLED TO PREVENT DIRT AND DEBRIS FROM ENTERING VAULT.

LAKEFRONT UTILITIES INC. STANDARD SPECIFICATIONS AND DRAWINGS

CONTRACTOR SHALL CONTACT AND OBTAIN LATEST VERSIONS OF LUI STANDARD DRAWINGS AND SPECIFICATIONS FOR THE WORK.
AS A MINIMUM THE CONTACTOR SHALL OBTAIN THE FOLLOWING STANDARDS:

ALL MATERIAL PURCHASING SPECIFICATIONS
DT2 - SINGLE PHASE PAD MOUNT TRANSFORMERS

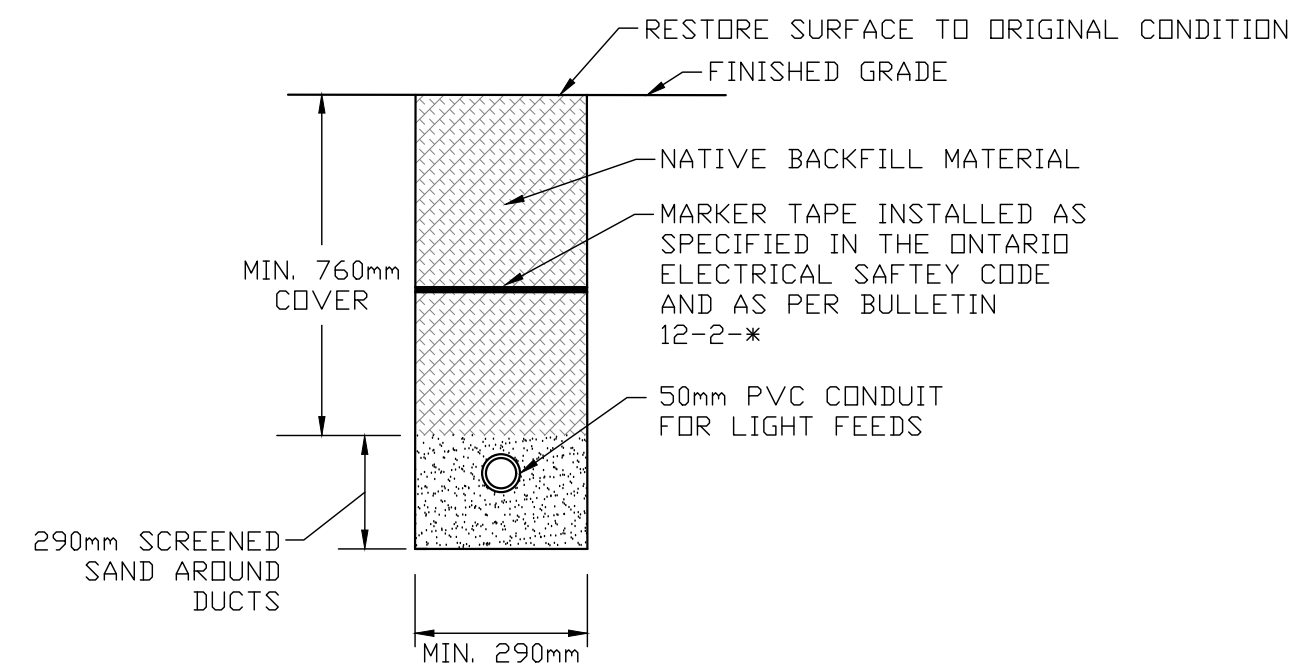
LUI-12-001	UNDERGROUND INSTALLATIONS-GENERAL REQUIREMENTS
LUI-12-100	1-PHASE PADMOUNT EQUIPMENT FOUNDATION AND GROUND GRID
LUI-12-101	1-PHASE PADMOUNT TRANSFORMER TYPICAL INSTALLATION AND CONNECTIONS
USF-12-200	200A LOAD-BREAK CONNECTIONS
USF-12-201	SAMPLE TRANSFORMER ARRESTER CONFIGURATIONS
USF-12-204	GROUNDING CONNECTIONS
USF-12-205	PADMOUNT TRANSFORMER SECONDARY CONNECTIONS
LUI-12-401	MAIN TRENCH CROSS SECTION
LUI-12-402	MAIN TRENCH CROSS SECTION-JOINT USE
LUI-12-403	ROAD CROSSING TRENCH CROSS SECTION
LUI-12-404	ROAD CROSSING TRENCH CROSS SECTION-JOINT USE
LUI-12-405	ROAD CROSSING TRENCH PROFILE
LUI-12-406	SERVICE TRENCH CROSS SECTION
LUI-12-407	SERVICE TRENCH CROSS SECTION, JOINT USE-HYDRD, COMMUNICATIONS & GAS
LUI-12-411	TRANSFORMER PLACEMENT GUIDELINES
LUI-12-500	UNDERGROUND SECONDARY SERVICE RESIDENTIAL SUBDIVISION INSTALLATION DETAILS



2 DUCT INSTALLATION IN TRENCHES - STREET LIGHTING PANEL FEED
SCALE: N.T.S.

NOTE:

1. AS PER DETAIL 2 OF DIAGRAM D11 AND DETAIL 3 OF TABLE D11A FROM THE ONTARIO ELECTRICAL SAFETY CODE.



3 DUCT INSTALLATION IN TRENCHES - LIGHTING
SCALE: N.T.S.

NOTE:

1. AS PER DETAIL 2 OF DIAGRAM D11 AND DETAIL 3 OF TABLE D11A FROM THE ONTARIO ELECTRICAL SAFETY CODE.

1. COORDINATE LOCATION, TRENCHING, BACK FILLING, AND THE PROVISION OF CONCRETE ENCASED UNDER PAVEMENT DUCT CROSSINGS (UPC) WITH THE DEVELOPER.

2. PROVIDE A COMPLETE OPERATING PRIMARY, SECONDARY AND STREET LIGHTING DISTRIBUTION SYSTEMS AS SHOWN ON THE ELECTRICAL DRAWINGS AND AS DESCRIBED BY THE SPECIFICATIONS. WORK UNDER THIS CONTRACT SHALL MEET THE REQUIREMENTS OF THE TOWN OF COBOURG, THE LAKEFRONT UTILITY INC.(L.U.I.), AND THE ELECTRICAL SAFETY AUTHORITY (E.S.A) WHERE APPLICABLE. THE CONTRACTOR SHOULD ASSUME THAT THE VARIOUS PARTS OF THE WORK WILL BE SUBJECT TO INSPECTION BY ANY OR ALL OF THESE AUTHORITIES BEFORE FINAL APPROVAL IS GIVEN.

3. THE SYSTEM SHALL BE DESIGNED AND SUPPLIED TO OPERATE FROM THE L.U.I. 27600/16000 VOLT SYSTEM. CONSEQUENTLY ALL PRIMARY CABLE SHALL BE RATED 28 KV.

4. CONTRACTOR TO PURCHASE PADMOUNT TRANSFORMERS AND ALL ACCESSORIES. CONTRACTOR TO INSTALL AND TERMINATE ALL PRIMARY CABLES AND SINGLE PHASE SECONDARY CABLES TO PADMOUNT TRANSFORMERS, TO L.U.I. SPECIFICATION. L.U.I. TO ASSUME ASSET AFTER THE FACT.

5. PADMOUNT TRANSFORMERS TO BE MANUFACTURED BY CAM TRAN (SEE L.U.I. SPECIFICATIONS).

6. PROVIDE PRECAST CONCRETE TRANSFORMER PADS COMPLETE WITH GROUNDING TO L.U.I. SPECIFICATION FOR SINGLE PHASE TRANSFORMER, THREE PHASE TRANSFORMERS AND PRIMARY SECTIONALIZING SWITCHGEAR.

7. PROVIDE 28 KV PRIMARY CABLE AS FOLLOWS: SINGLE CONDUCTOR, CONCENTRIC NEUTRAL, #2/0 AWG (FOR 200 AMPERE, 1 PER PHASE), TREE RETARDANT, CROSS-LINKED POLYETHYLENE, BLACK JACKET C/W 100% NEUTRAL, ALL TO L.U.I. SPECIFICATION # 652535

8. PROVIDE STREET LIGHT WIRE WITH MINIMUM GAUGES AS SHOWN ON WIRING DIAGRAM, STRANDED COPPER, 600V, TYPE NMWU.

9. PROVIDE LOAD-BREAK, SECONDARY LUGS, AND MISCELLANEOUS HARDWARE TO L.U.I. SPECIFICATION.

10. PROVIDE UNDERGROUND DUCTS AS FOLLOWS:

- 10.1 PRIMARY UNDERGROUND 200A FEEDER
- 100mm (4") TYPE DB2 FOR EACH PRIMARY PHASE PLUS ONE SPARE (CONCRETE ENCASE UNDER STREETS AND LANES AS SHOWN).

10.2 UNDER PAVEMENT ROAD CROSSING
- EACH UNDER PAVEMENT CROSSING (UPC) WILL INCLUDE ONE 100mm (4") DB2 DUCT FOR EACH PRIMARY SERVICE, ONE 75 mm (3") DB2 DUCT FOR EACH SECONDARY SERVICE, ONE 75 mm DB2 DUCT FOR STREETLIGHT SERVICE, ONE 100 mm DB2 DUCT FOR BELL AND ONE 100mm DB2 DUCT FOR CABLE TV SERVICE.

10.3 ROAD CROSSINGS ARE REQUIRED TO BE CONCRETE ENCASED AS PER LUI-12-403, LUI-12-404 AND LUI-12-405.

11. PROVIDE PULL ROPE IN ALL CONDUITS.

12. ONE SERVICE SHALL BE PROVIDED FOR EACH UNIT. SUPPLY AND INSTALL #3/0 UNDERGROUND ALUMINUM CABLE FOR EACH HOUSE SERVICE, THE CABLE SHALL IN 75mm (3") DUCT AS PER LUI-12-406 AND LUI-12-500. THE WIRE SHALL BE TERMINATED AT THE LOT LINE ABOVE GRADE ON A 2"x4" POST. INSTALLATION SHALL BE IN ACCORDANCE WITH ONTARIO ELECTRICAL SAFETY CODE DIAGRAM D11, DETAIL 1 AND TABLE D11B.

13. WHEN THE DEVELOPER BUILDS A HOUSE THE UNDERGROUND CABLE SHALL BE SPLICED AT THE LOT LINE WITH LUI APPROVED BUTT SPLICES AND HEAT SHRINKS. A 75mm (3") CONDUIT SHALL BE RUN FROM THE PROPERTY LINE TO THE METER BASE WHERE A FROST LOOP IN THE CABLE SHALL BE LEFT BELOW THE METER BASE 610mm (2'-0") BELOW GRADE. BEFORE THE CABLE TRENCH CAN BE BACKFILLED AN INSPECTION MUST BE DONE BY A LUI REPRESENTATIVE.

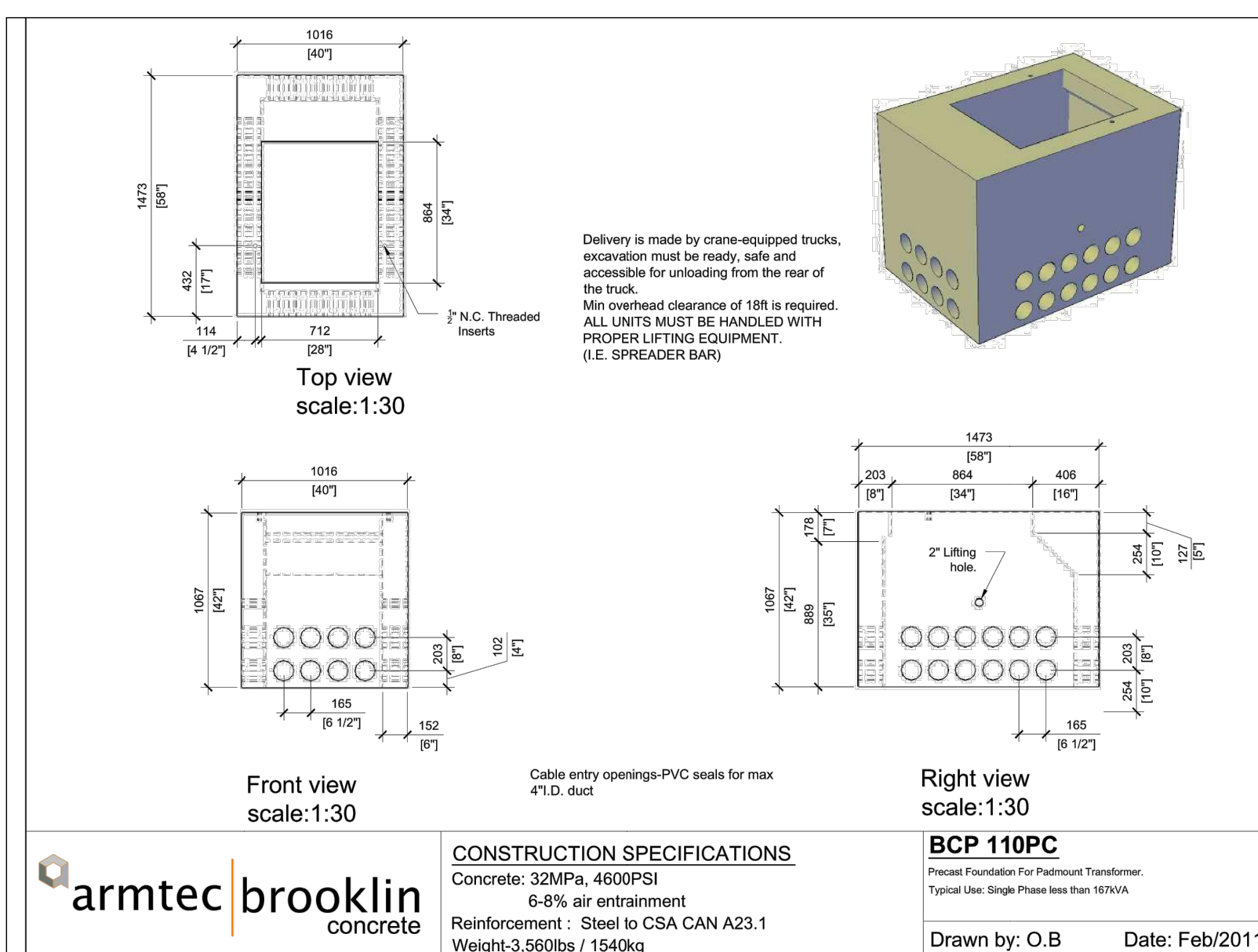
14. CONTACT LAKEFRONT UTILITIES FOR METERING DETAILS.

15. ENSURE ALL METAL STRUCTURES LOCATED WITHIN 2.4m OF PADMOUNT TRANSFORMER IS BONDED AS PER BULLETIN 36-10-*

UPC #	APPROXIMATE LENGTH	NUMBER OF 100mm DUCTS	NUMBER OF 75mm DUCTS
UPC 1	15.7m	1 LATERAL ** BELL ** CATV ** GAS 1 SPARE	0 SEC. 0 LTG. * 1 SPARE
UPC 2	8.9m	1 LATERAL ** BELL ** CATV ** GAS 1 SPARE	0 SEC. 0 LTG. * 1 SPARE
UPC 3	7.0m	0 LATERAL ** BELL ** CATV ** GAS 1 SPARE	4 SEC. 0 LTG. * 1 SPARE
UPC 4	7.0m	1 LATERAL ** BELL ** CATV ** GAS 1 SPARE	0 SEC. 1 LTG. * 1 SPARE
UPC 5	11.0m	0 LATERAL ** BELL ** CATV ** GAS 1 SPARE	1 SEC. 0 LTG. * 1 SPARE

* 75MM SLEEVE FOR 50MM FLEXIBLE RACEWAY.
** QUANTITIES HAVE YET TO BE DETERMINED

4 UNDER PAVEMENT CROSSING (UPC) TABLE
SCALE: N.T.S.



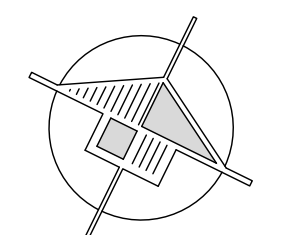
5 PRECAST SINGLE PHASE TRANSFORMER FOUNDATION DETAIL
SCALE: N.T.S.

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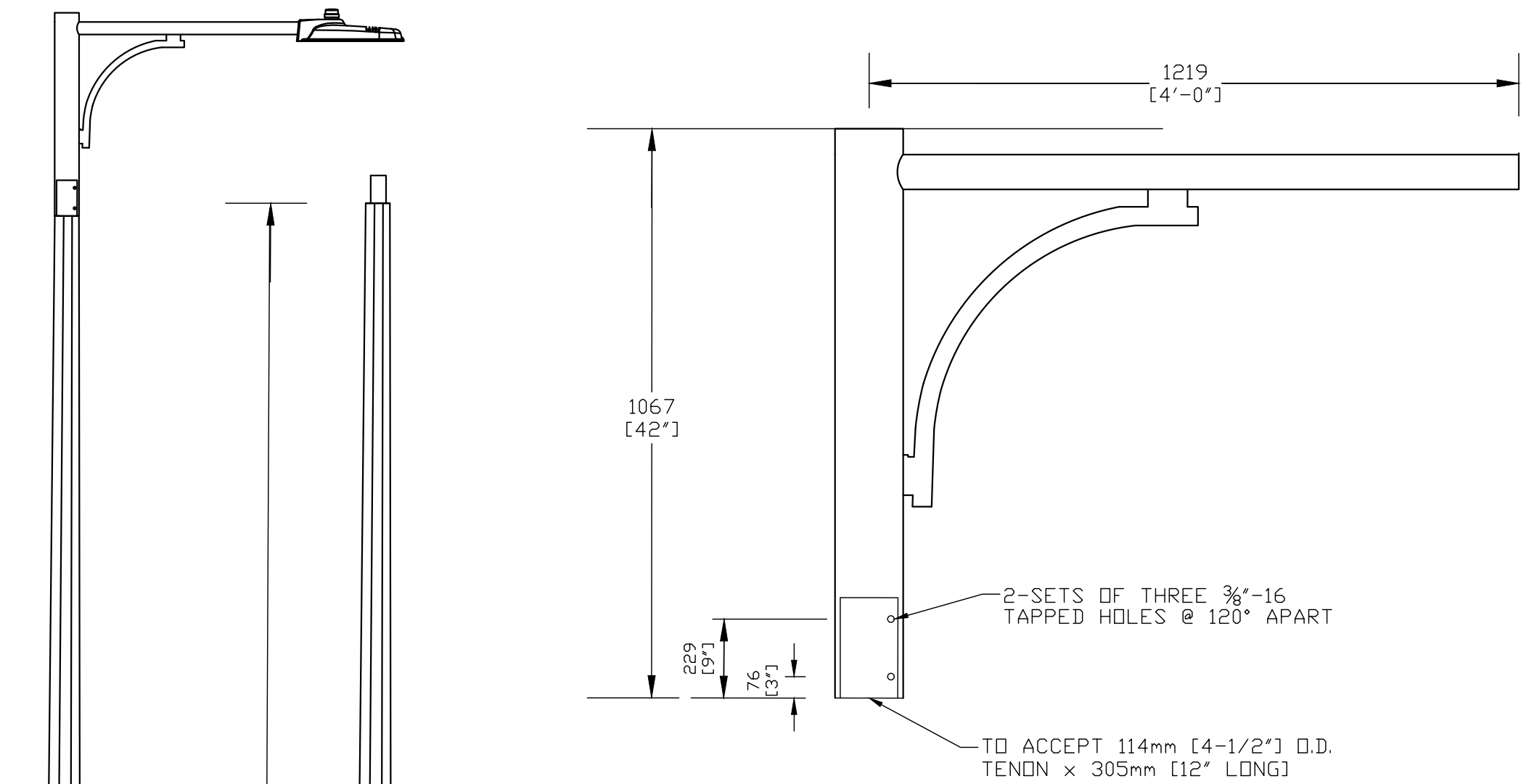
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	CHK.	P. BERTHELOT
	DSN.	PGB/TMS
	SCALE:	AS NOTED

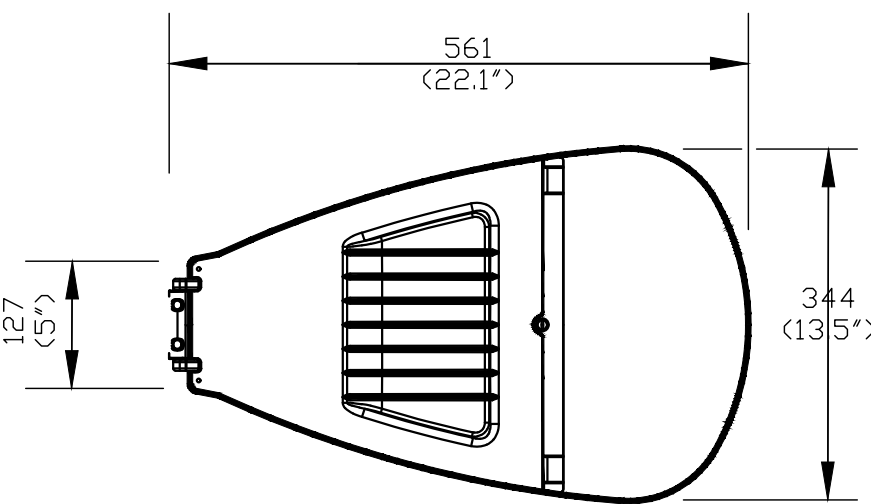


PROJECT	NICKERSON WOODS
	Town of Cobourg, Ontario
TITLE	PRIMARY SINGLE LINE AND DETAILS
FILE No.	351
DWG. No.	E4



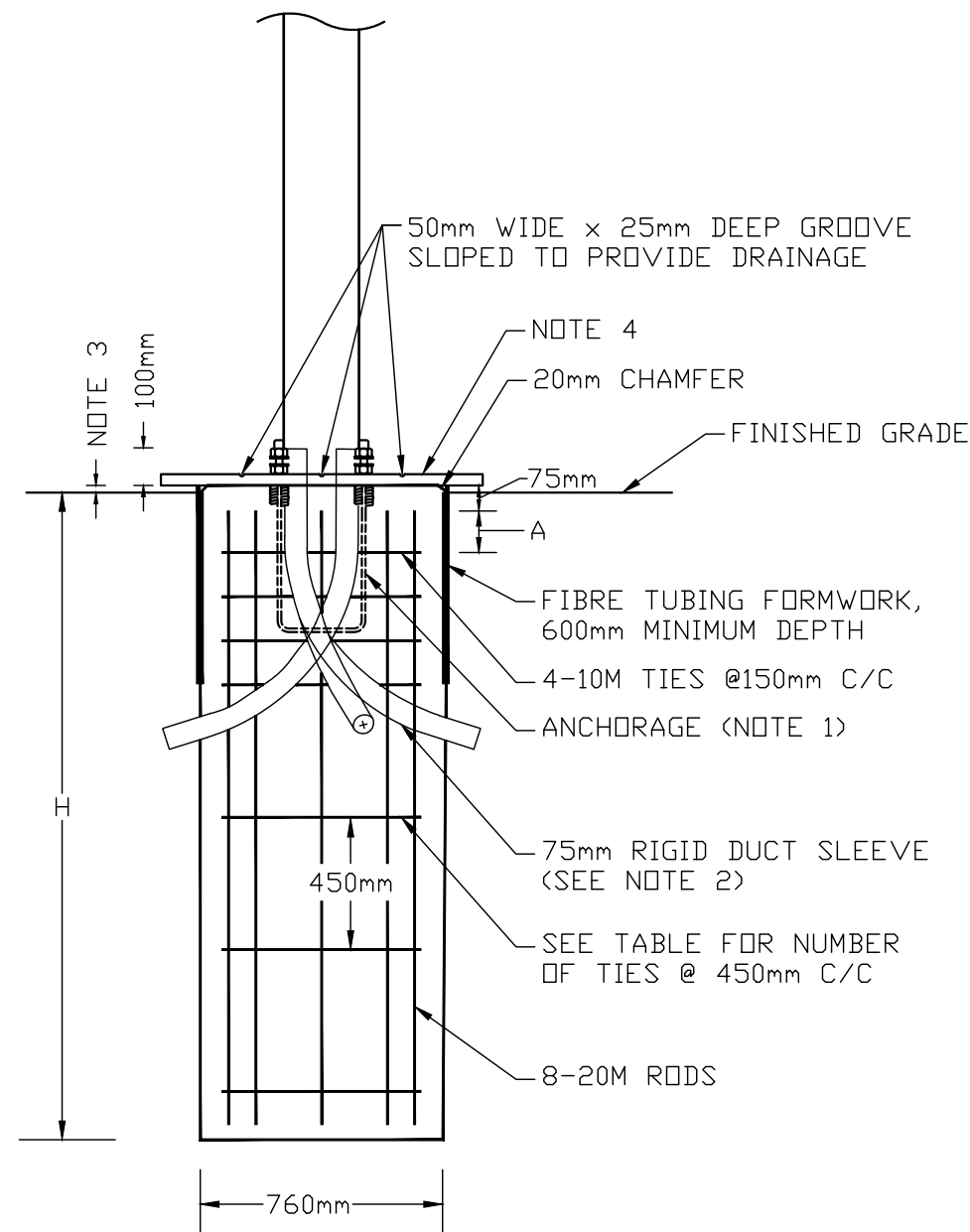
MOUNTING ARM

ROUND, TAPERED ARM WITH NATURAL ALUMINUM FINISH. KING LUMINAIRE MODEL NUMBER: KA39-T-1 (COBBOURG).

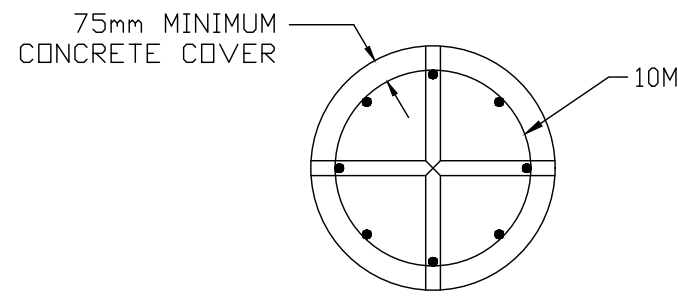


LUMINAIRE

6000 LUMEN LED COBRAHEAD FIXTURE, 47W, TYPE II WIDE DISTRIBUTION, GRAY IN COLOUR, ASYMMETRIC DISTRIBUTION, GRAY IN COLOUR, 120V, COMPLETE WITH PHOTOELECTRIC RECEPTACLE AND SENSOR.
GE MODEL NUMBER: ERL1-0-06-A3-40-A-GRAY-L



ELEVATION REINFORCEMENT



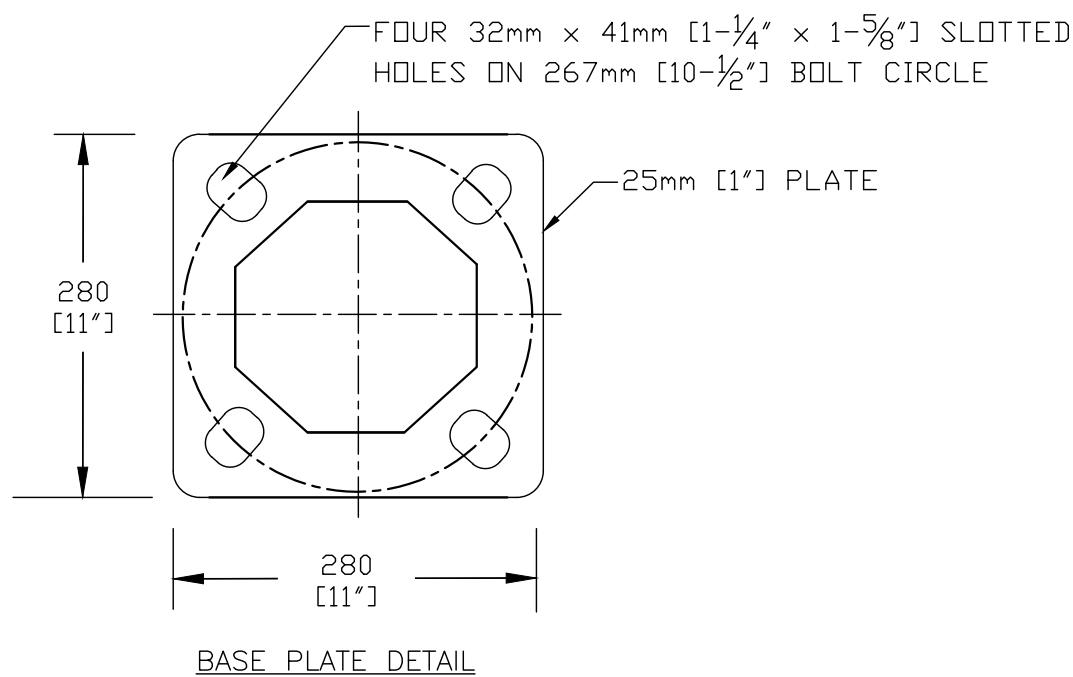
PLAN VIEW (REINFORCEMENT)

NOTES:
1. FOR ANCHORAGE ASSEMBLY SEE DPSP 2215.02.
2. MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONCRETE FOOTING. THREE SLEEVES AS SPECIFIED.
3. TOP OF FOOTING SHALL BE INSTALLED AT 40mm ±15mm ABOVE FINISHED GRADE IN PAVED OR CONCRETE AREAS AND 75mm ±25mm ABOVE FINISHED GRADE IN EARTH OR GRANULAR AREAS.
4. PLYWOOD TEMPLATE SET LEVEL. REMOVE TO FINISH CONCRETE AFTER INITIAL SET. SEE DPSP 2215.02.
5. FOR POLE MOUNTING DETAILS SEE DPDE 2215.03.
6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

POLE LENGTH (m)	BURIAL DEPTH (m)	ROD LENGTH (m)	A (mm)	NO. OF 10M TIES @400 g/c	BOLT CIRCLE DIA FOR METAL POLES		
					ALUMINUM	STEEL	SECTIONAL STEEL
5.6	2.15	2.00	100	3	N/A	N/A	449
7.0	2.15	2.00	100	3	N/A	N/A	449
7.5	2.15	2.00	100	3	406	406	N/A
8.7	2.45	2.30	250	3	N/A	N/A	449
9.0	2.45	2.30	0	4	406	406	N/A
10.5	2.6	2.45	100	4	406	406	449
12.0	2.75	2.60	150	4	406	406	N/A
13.6	2.9	2.75	0	5	406	406	N/A
15.1	3.06	2.90	100	5	406	406	N/A

POLE BASE DETAIL

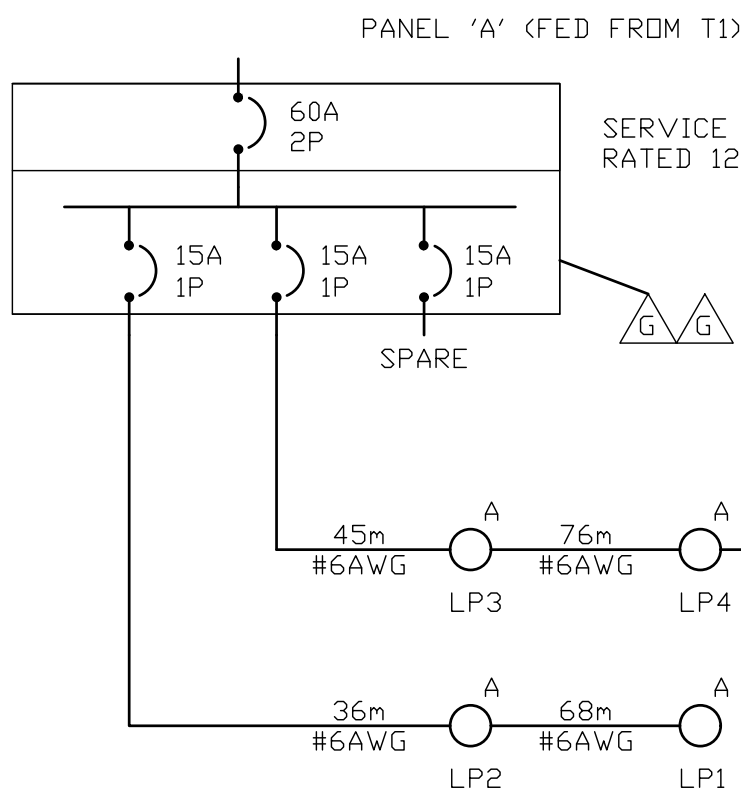
SCALE: N.T.S.



BASE PLATE DETAIL

LUMINAIRE TYPE 'A'

SCALE: N.T.S.



PANEL 'A' WIRING DIAGRAM

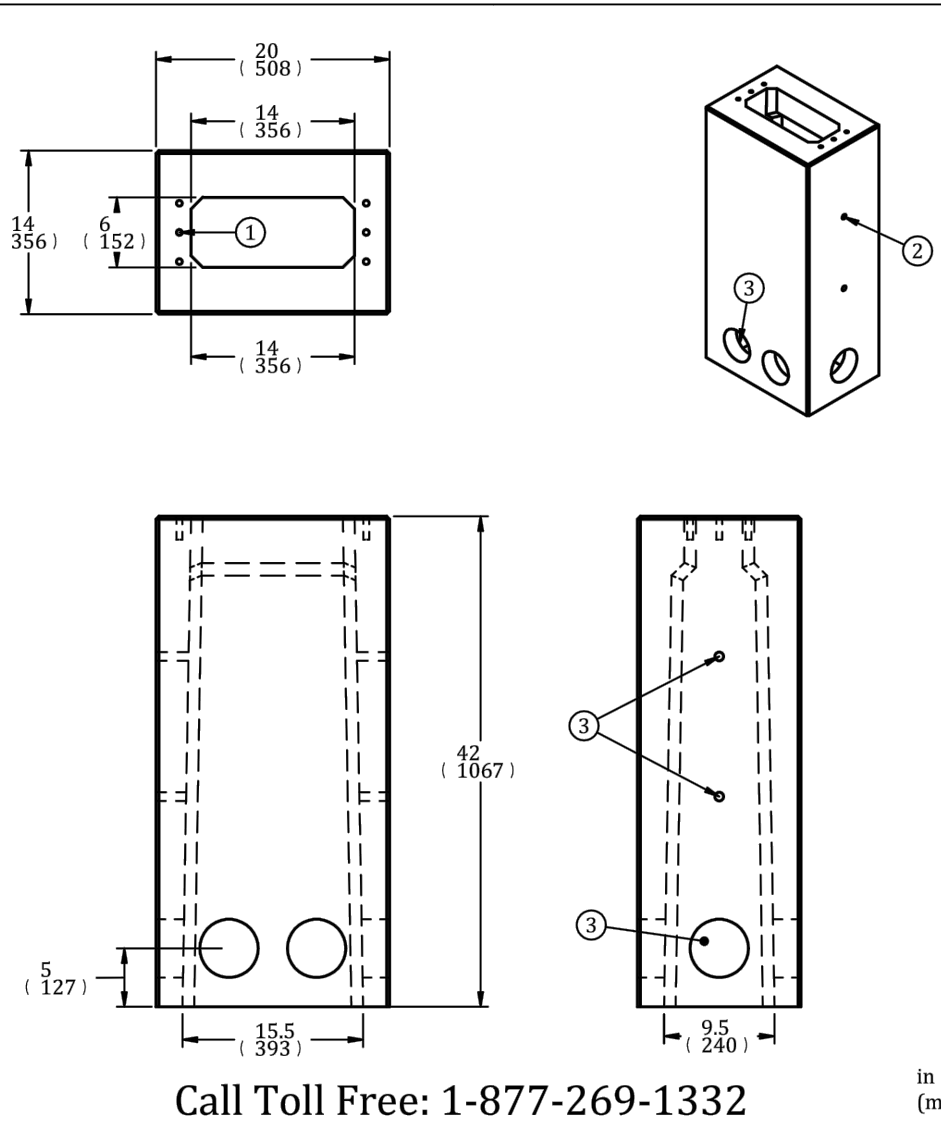
SCALE: N.T.S.

LEGEND

- BREAKER
- LED LIGHT STANDARD, TYPE AS INDICATED. REFER TO LIGHTING SCHEDULE ON DRAWING E5 FOR MORE INFORMATION
- 19mm DIA. x 3m COPPER GROUND ROD

NOTES:

- LIGHTING RUN DISTANCES ARE FOR REFERENCE PURPOSES ONLY FOR VOLTAGE DROP CALCULATIONS. ACTUAL RUN DISTANCES SHOULD BE CONFIRMED ON SITE.
- IN-POLE FUSING SHALL BE PROVIDED BY CONTRACTOR AT EACH POLE.
- SIZE BREAKERS AS REQUIRED BY WIRE SIZE. NO SHAVING OF WIRE PERMITTED.



Call Toll Free: 1-877-269-1332

PRE-CAST PEDESTAL FOUNDATION FOR STREET LIGHTING PANEL

SCALE: N.T.S.

UTLICON
engineered precast structures

UP1420

PRECAST PEDESTAL FOUNDATION FOR METERING OR STREETLIGHTING
TYPICAL USE:
Pedestal solutions inc. Model SLS & SLT

CONSTRUCTION SPECIFICATIONS

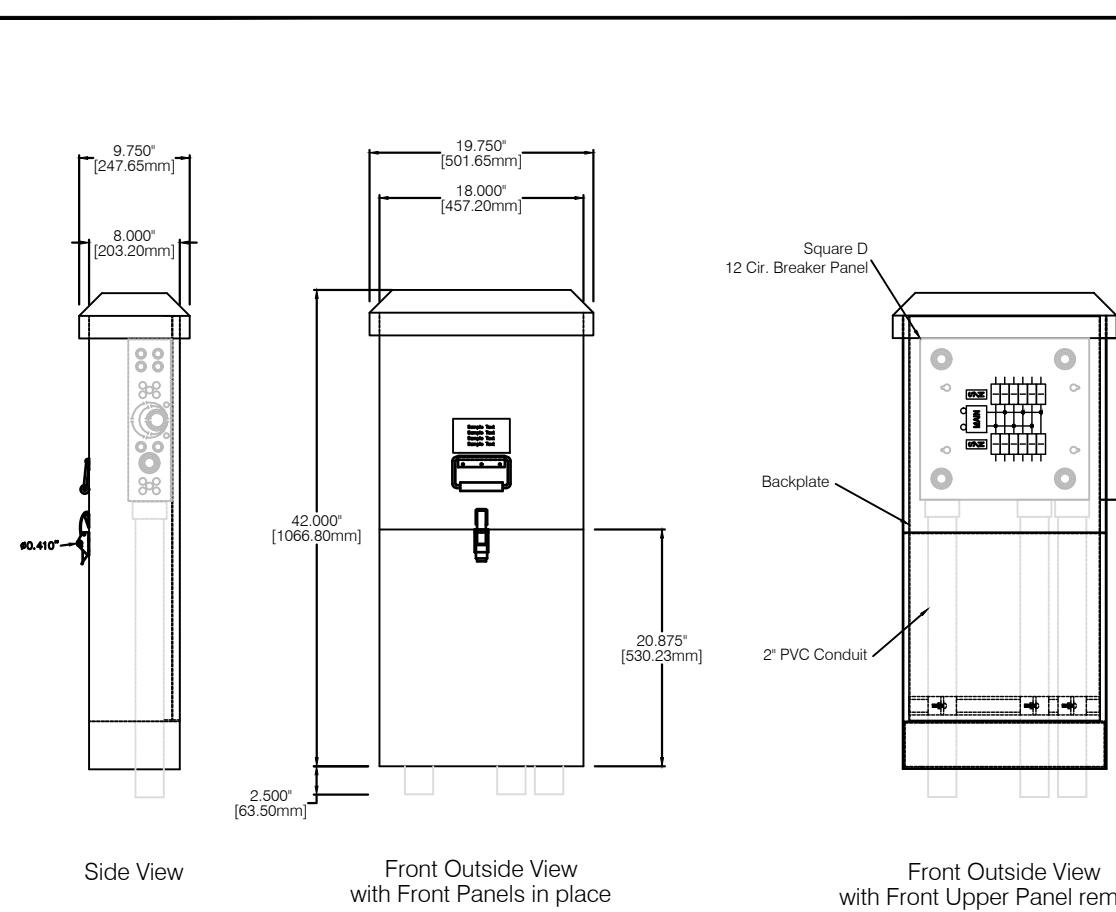
Concrete Properties: 4500 PSI (32 MPa) Min Strength
6-8% Air Entrainment

Weight - 540 lbs / 220kg (Approximate)

- Notes:
1 - Six (6) 1/2" N.C. Nylon threaded inserts
2 - Four (4) 3/4" through holes (galvanized) sheet metal
3 - Six (6) Cable entry PVC seals

Delivery is made by crane-equipped trucks, excavation must be ready, safe and accessible for unloading from the rear of the truck.
Min overhead clearance of 10ft is required.
ALL UNITS MUST BE HANDLED WITH PROPER LIFTING EQUIPMENT.
(I.E. SPREADER BAR)

DRAWN BY: RM March 2010



SL42 Enclosure

42" STREET LIGHTING PEDESTAL WITH WEATHERPROOF ENCLOSURE

SCALE: N.T.S.

Enclosure Mat- 14 gauge (.083") thick zinc coated (galvanized) sheet metal
Paint Colour- Byers-Bush Jet Kote BB510GR Electrostatic powder coat finish
Panel- Square D cot# C00112M100C60 12cct., 2p, 3w Combination service entrance panel
Main Breaker- Square D cot# SOM-60, 60amp 2pole, Wire range #1-2-2/0 Al/Cu 22KA rating
Load Breakers- Square D cot# C00140, 40amp 1pole, Wire range #1-4-#2 Al/Cu 10KA rating
Main Neutral Lug- Wire range #1-4-#2 Al/Cu
Load Neutral Lug- Wire Range: -1 lug #1-2/0 Al/Cu -3 lugs #1-1/0 Al/Cu -5 lugs #1-#6 Al/Cu
Fasteners- 4-Plated hex head bolts, 1/2"x13x2" Grade 2 or better, 4-Plated 1/2" Flat washers, 4-Plated 1/2" Lock washers for mounting into concrete mounting base

Backplate
12 Cr. B-Square Panel
14.250" (361.6mm)
2" PVC Conduit
2.500" (63.5mm)

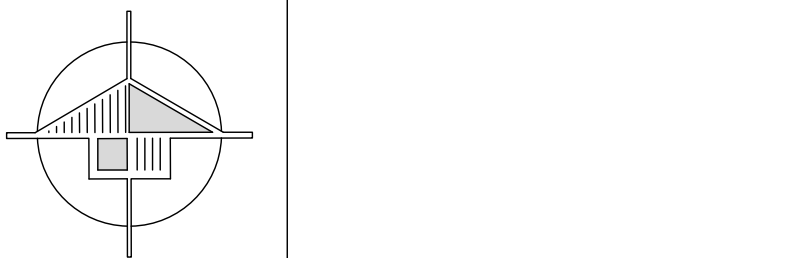
PEDESTAL SOLUTIONS INC. 40 CANAL ROAD KESWICK, ONT. L4P 1K5 TEL: 905-476-7435 FAX: 905-476-2545	PEDESTAL SOLUTIONS INC. 42" STREET LIGHTING PEDESTAL VIEWS
REVISION NO. DATE DESCRIPTION 1.0 2003-08-06 PRELIM DESIGN	REVISION NO. DATE DESCRIPTION 1.0 2003-08-06 PRELIM DESIGN
DESIGNED BY: RAD CHECKED BY: CB APPROVED BY: NONE	DESIGNED BY: RAD CHECKED BY: CB APPROVED BY: NONE
DATE: FEBRUARY 18, 2008 PAGE: 1 OF 1	DATE: FEBRUARY 18, 2008 PAGE: 1 OF 1

This is to certify that the design as recorded in this set of drawings meets the requirements of the safety standards of ONTARIO REGULATION 22/04			
PAUL G. BERTHELOT, P.Eng.	Oct. 9, 2020	DATE	
NAME & PROFESSIONAL DESIGNATION			
<i>Paul Berthelot</i>	Oct. 9, 2020	SIGNATURE	DATE

3	20/10/09	FOURTH SUBMISSION	PGB	-
2	20/08/14	THIRD SUBMISSION	PGB	-
1	20/05/21	SITE PLAN SUBMITTAL #2	PGB	-
0	20/01/09	SITE PLAN SUBMITTAL	PGB	-
Rev.	Date	Description	By	App.

BERTHELOT ENGINEERING LTD
2193 Lynhaven Rd., Peterborough, ON. K9K 1W8
Tel: (705) 775-1517

	DWN.	T. ST. JEAN
	CHK.	P. BERTHELOT
	DSN.	PGB/TMS
	SCALE:	AS NOTED



PROJECT: NICKERSON WOODS
Town of Cobourg, Ontario
TITLE: STREET LIGHTING ASSEMBLY, WIRING DIAGRAM & DETAILS

FILE No.	DWG. No.
351	E5