

SINGLE LINE SYMBOLS AND CONTROL DIAGRAMS	
SYMBOL	DESCRIPTION
	CIRCUIT BREAKER, MOULDED CASE WITH THERMAL & MAGNETIC TRIPS
	MOTOR CIRCUIT PROTECTOR (MCP) STYLE BREAKER, WITH MAGNETIC TRIPS ONLY
	NEMA SIZE 1 STARTER WITH THERMAL OVERLOAD TRIP
	CURRENT TRANSFORMER
	CAPACITOR
	CONTROL POWER TRANSFORMER (CPT)
	FUSE
	FUSIBLE DISCONNECT SWITCH
	NON-FUSIBLE DISCONNECT SWITCH
	DRY-TYPE POWER TRANSFORMER (INDOOR)
	OIL-FILLED POWER TRANSFORMER (OUTDOOR)
	MOTOR STARTER (MS) COIL, WITH COIL SUPPRESSOR
	PILOT LIGHT, WHERE "X" INDICATES LENS COLOR: R=RED, W=WHITE, G=GREEN
	PUSH TO TEST STYLE PILOT LIGHT
	CONTROL RELAY (# DENOTES RELAY NUMBER)
	TERMINAL BLOCK
	SOLENOID VALVE
	CONTACT, N.O. AND N.C.

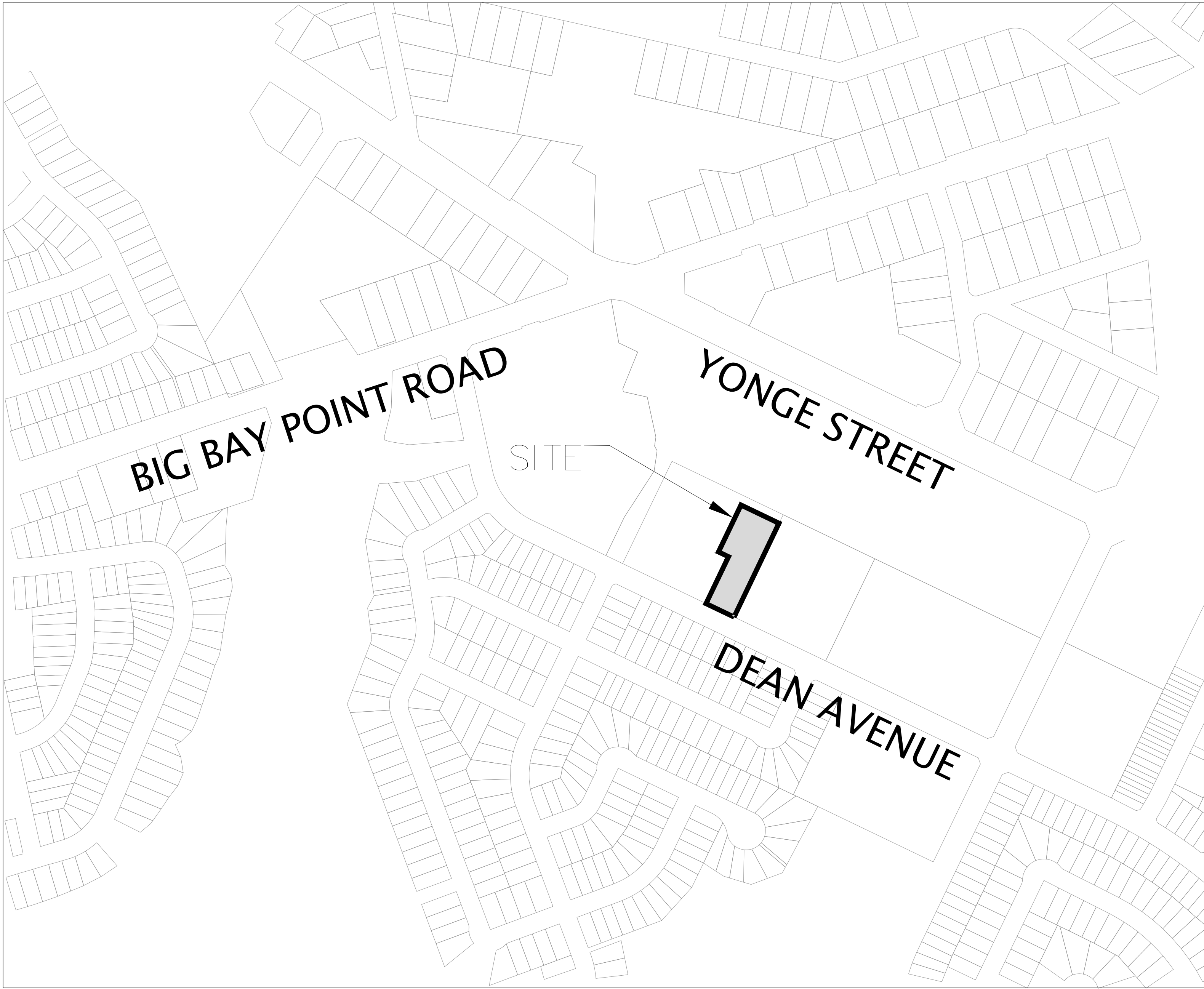
STANDARD ABBREVIATIONS – ELECTRICAL	
ABBREVIATION	DESCRIPTION
A	AMPERES (CONTINUOUS)
AC	ALTERNATING CURRENT
ASYM	ASYMMETRICAL
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AWG	AMERICAN WIRE GAUGE
BU	BATTERY UNIT (EMERGENCY)
°C	DEGREE CELSIUS
C	CONDUCTOR
CCT	CIRCUIT
CL	CENTERLINE
C/W	COMPLETE WITH
CPT	CONTROL POWER TRANSFORMER
CSA	CANADIAN STANDARDS ASSOCIATION
CT	CURRENT TRANSFORMER
Cu	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
EEMAC	ELECTRICAL AND ELECTRONIC MANUFACTURERS ASSOCIATION OF CANADA
EP	EXPLOSION PROOF (SUITABLE FOR CLASS I, ZONE 1)
ETM	ELAPSED TIME METER
ESA	ELECTRICAL SAFETY AUTHORITY
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
Hz	HERTZ
IEEE	INSTITUTE OF ELECTRICAL & ELECTRONIC ENGINEERS
INST	INSTANTANEOUS
I/O	INPUT/OUTPUT
ISB	INTRINSIC SAFETY BARRIER
JB	JUNCTION BOX
kAIC	KILO-AMP INTERRUPTING CAPACITY
kVA	KILOVOLTAMPERE
kW	KILOWATT
kWh	KILOWATT HOUR
LOR	LOCAL-OFF-REMOTE
LUC	LOCAL UTILITY COMPANY (INNPOWER)
MAN	MANUAL
MCC	MOTOR CONTROL CENTRE
MH	MANHOLE
mm	MILLIMETER
MOT	MOTOR
N	NEUTRAL
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N/A	NON AUTOMATIC
N.O.	NORMALLY OPEN
N.C.	NORMALLY CLOSED
NP	NAMEPLATE
NTS	NOT TO SCALE
OESC	ONTARIO ELECTRICAL SAFETY CODE
O/H	OVERHEAD
O/L	OVERLOAD
OO	ON-OFF
PB	PUSHBUTTON
PDC	POWER DISTRIBUTION CENTRE
PH, OR Ø	PHASE OR DIAMETER
PLC	PROGRAMMABLE LOGIC CONTROLLER
REM	REMOTE
RGS	RIGID GALVANIZED STEEL
SN	SOLID NEUTRAL
SPDT	SINGLE POLE DOUBLE THROW
SPMDD	STANDARD PROCTOR MAXIMUM DRY DENSITY
SPST	SINGLE POLE SINGLE THROW
SS	STAINLESS STEEL (316)
SW	SWITCH
SYM	SYMMETRICAL
TDC	TIME DELAY ON CLOSING
TDDO	TIME DELAY ON DROP-OUT (OR OFF TIMER)
TDO	TIME DELAY ON OPENING
TDPU	TIME DELAY ON PICK-UP
TYP.	TYPICAL
U/G	UNDERGROUND
VA	VOLT-AMPERE
VFD	VARIABLE FREQUENCY DRIVE
WH	WEATHERHEAD
WP	WEATHERPROOF

GENERAL SYMBOLS	
	DETAIL SYMBOL: X = DETAIL NUMBER YZ = DRAWING NUMBER
	EQUIPMENT SUPPLIED BY ANOTHER DIVISION, INSTALLATION, WIRING AND CONDUIT BY DIVISION 16
	EXISTING OR RELOCATED EQUIPMENT, NEW WIRING AND CONDUIT BY DIVISION 16
	SYMBOL INDICATES A DEVICE LOCATION, SEE BELOW (# DENOTES LOCATION NUMBER)
	SYMBOL INDICATES MODIFICATION OR NEW WORK NOTE (# DENOTES NOTE NUMBER)

ELECTRICAL LEGEND	
ALL SYMBOLS/DEVICES/ABBREVIATIONS LISTED MAY NOT APPLY	

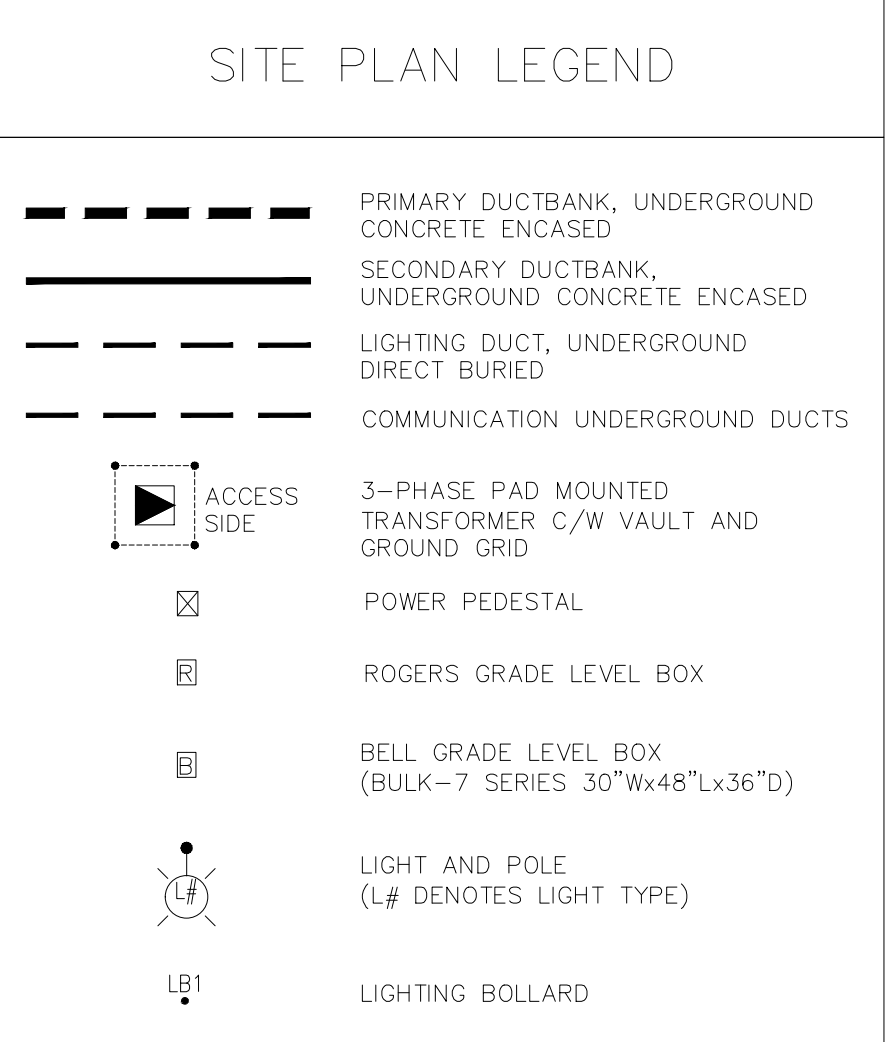
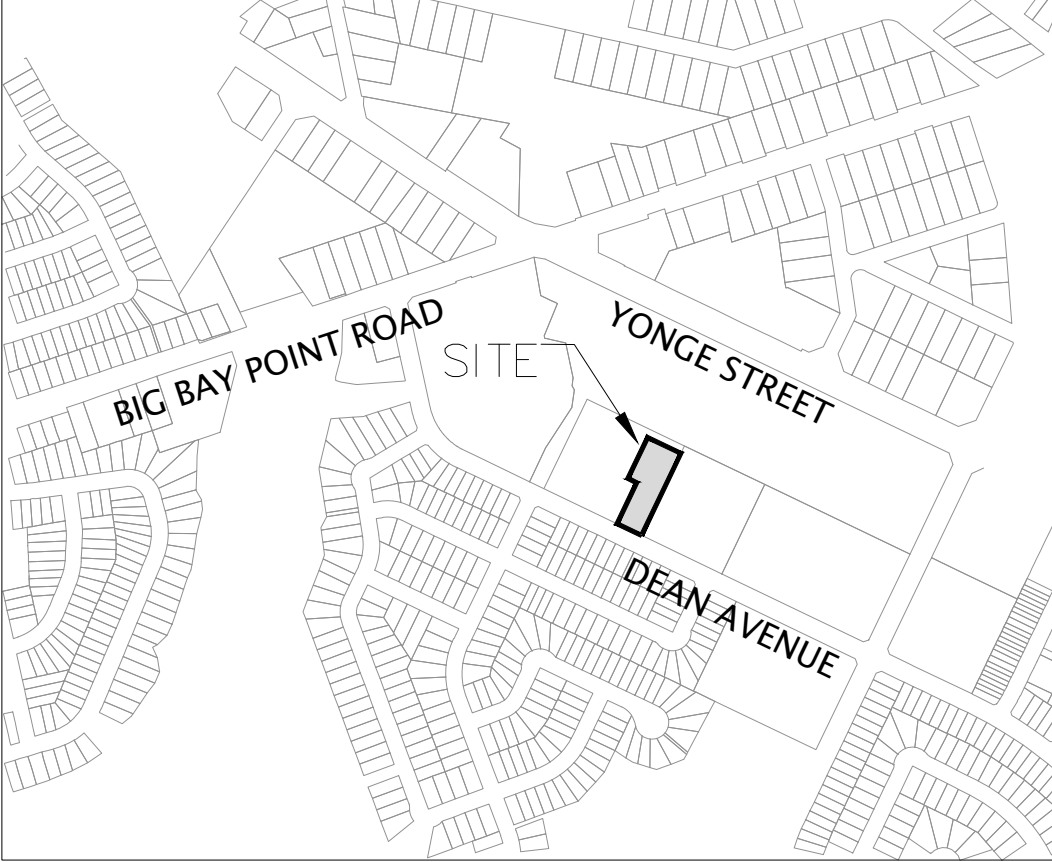
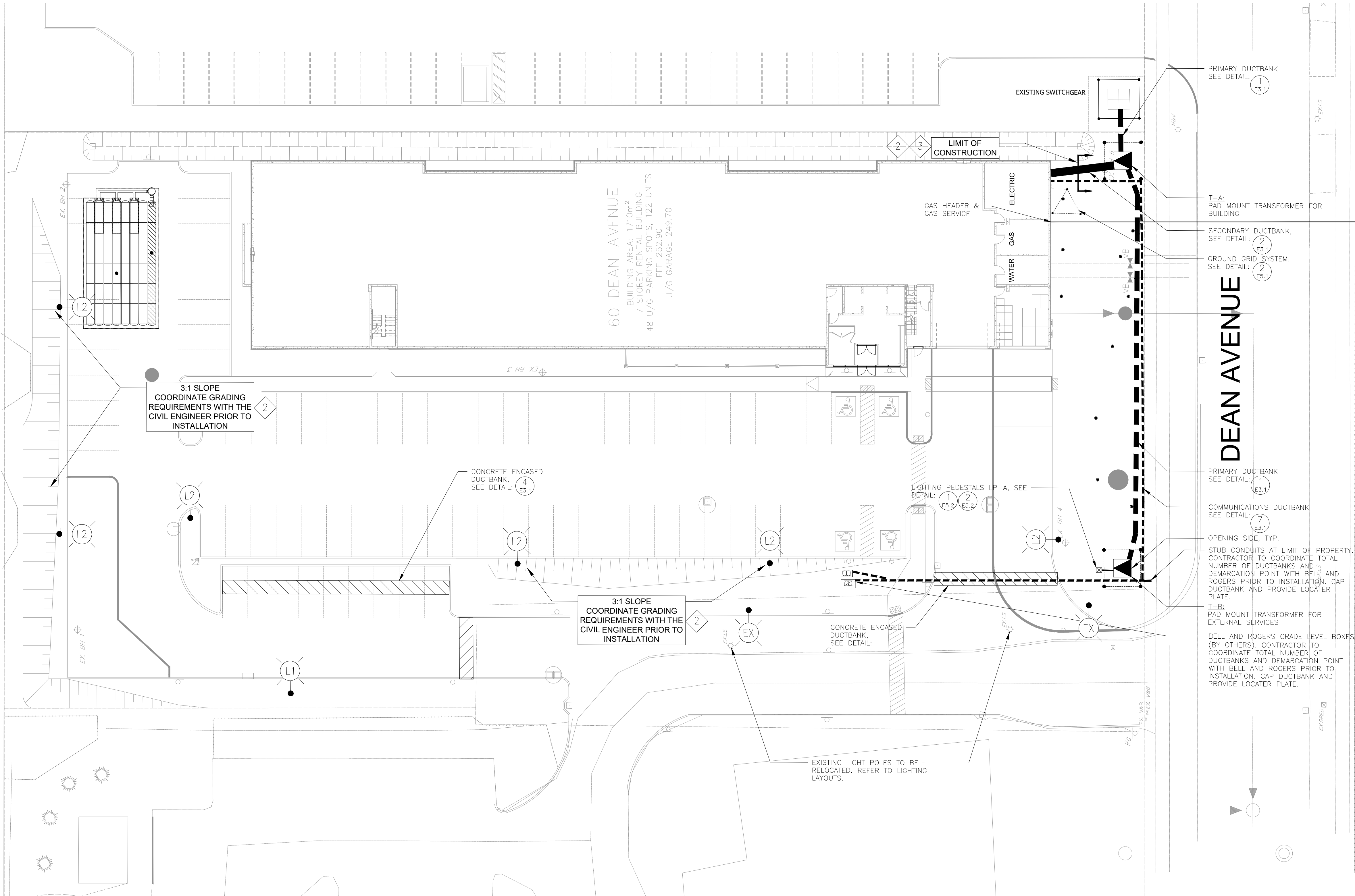
SITE PLAN LEGEND	
	PRIMARY DUCTBANK, UNDERGROUND CONCRETE ENCASED
	SECONDARY DUCTBANK, UNDERGROUND CONCRETE ENCASED
	LIGHTING DUCT, UNDERGROUND DIRECT BURIED
	COMMUNICATION UNDERGROUND DUCTS
	3-PHASE PAD MOUNTED TRANSFORMER C/W VAULT AND GROUND GRID
	POWER PEDESTAL
	ROGERS GRADE LEVEL BOX
	BELL GRADE LEVEL BOX (BULK-7 SERIES 30"Wx48"Lx36"D)
	LIGHT AND POLE (L# DENOTES LIGHT TYPE)
	LIGHTING BOLLARD

DRAWING LIST – ELECTRICAL	
E1.0	ELECTRICAL LEGEND SHEET No.1
E1.1	ELECTRICAL POWER SITE PLAN SHEET No.1
E2.1	ELECTRICAL LIGHTING SITE PLAN SHEET No.1
E2.2	PHOTOMETRIC LIGHTING SITE PLAN SHEET No.1
E2.3	LIGHTING DETAILS SHEET No.1
E2.4	LIGHTING DETAILS SHEET No.2
E3.1	DUCTBANK DETAIL SHEET No.1
E4.1	ELEVATION DETAIL
E5.1	SINGLE LINE DIAGRAM
E5.2	ELECTRICAL LIGHTING POWER PEDESTAL LP-A DETAILS



KEY PLAN

DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.	BENCHMARKS	NOTES	No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP	60 DEAN AVENUE, BARRIE SITE PLAN		TATHAM ENGINEERING					
			1.	ISSUED FOR COORDINATION	FEB 21/25	LICENSED PROFESSIONAL ENGINEER  D.P.S.LAHIL 05MAR'25 PROVINCE OF ONTARIO	ELECTRICAL LEGEND					DESIGN: RSB	FILE: 125008	DWG: rowspan="3">E1.0
			2.	ISSUED FOR COORDINATION	FEB 26/25		DRAWN: RSB	DATE: MAR 2025						
			3.	ISSUED FOR SUBMISSION	MAR 05/25		CHECK: DL	SCALE:						



- NOTES:
- 1 CONTRACT DRAWINGS DO NOT PORTRAY THE LOCATION OF ALL EXISTING UNDERGROUND SERVICES. PRIOR TO PERFORMING ANY TRENCHING OR DIGGING WORK, CONTRACTOR IS REQUIRED TO CONTACT ALL LOCAL UTILITIES AND REQUEST A STAKING OR MARKING OF ALL SEWERS, WATERMAINS, GAS MAINS AND ALL TYPES OF CABLES AND CONDUITS. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE TO PAY FOR DAMAGES OR DISTURBANCES CAUSED TO ANY EXISTING UTILITY. REINSTATE GRAVEL AREA, ASPHALT AND GRASSSED AREA WHERE DISTURBED DURING CONSTRUCTION.
 - 2 CONTRACTOR TO COORDINATE THE GRADE ELEVATIONS FOR ALL THE ELECTRICAL WORKS PRIOR TO THE INSTALLATION OF UNDERGROUND OR ABOVE GROUND UTILITIES.
 - 3 COORDINATE LIMIT OF CONSTRUCTION DEMARCATION POINT WITH BUILDING CONTRACTOR. DUCTS ENTERING BUILDING ARE TO BE PROVIDED BY BUILDING CONTRACTOR. ENSURE CABLES ARE INSTALLED CONTINUOUSLY FROM TRANSFORMER TO SWITCHBOARD.

1 ELECTRICAL SITE PLAN: POWER
SCALE 1:250

DISCLAIMER AND COPYRIGHT
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BENCHMARKS

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ENGINEER STAMP



60 DEAN AVENUE, BARRIE
SITE PLAN

ELECTRICAL POWER

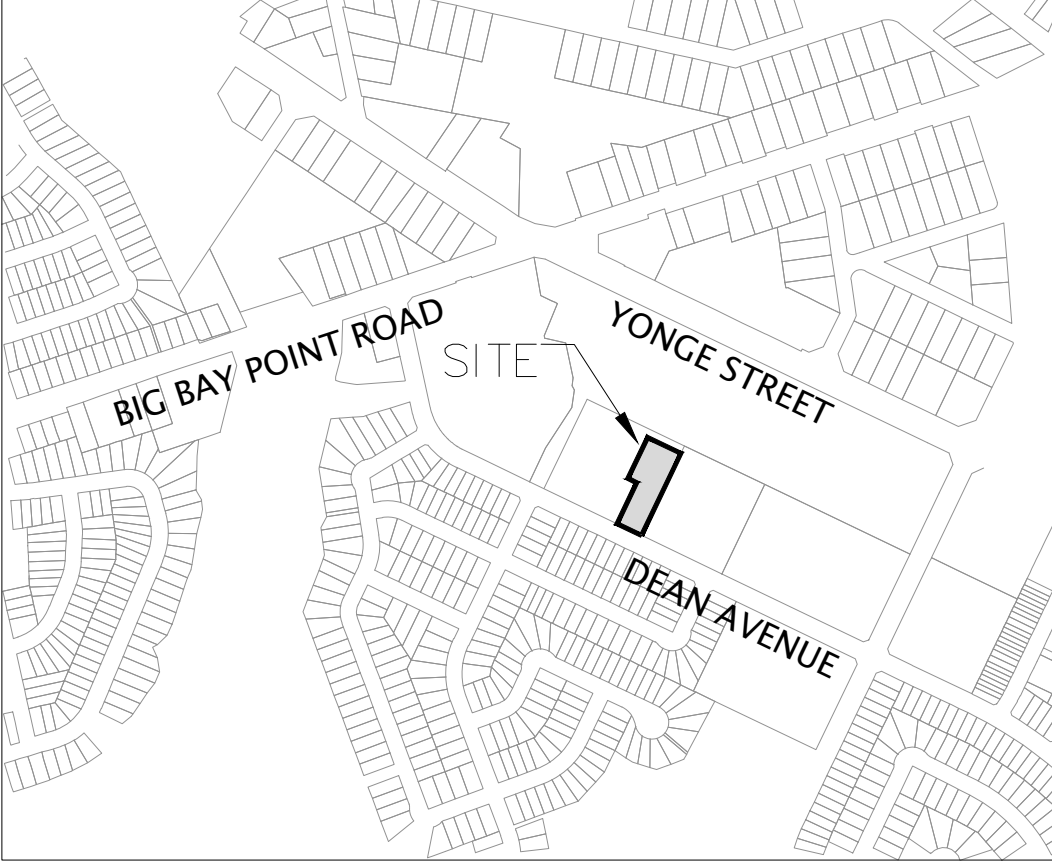
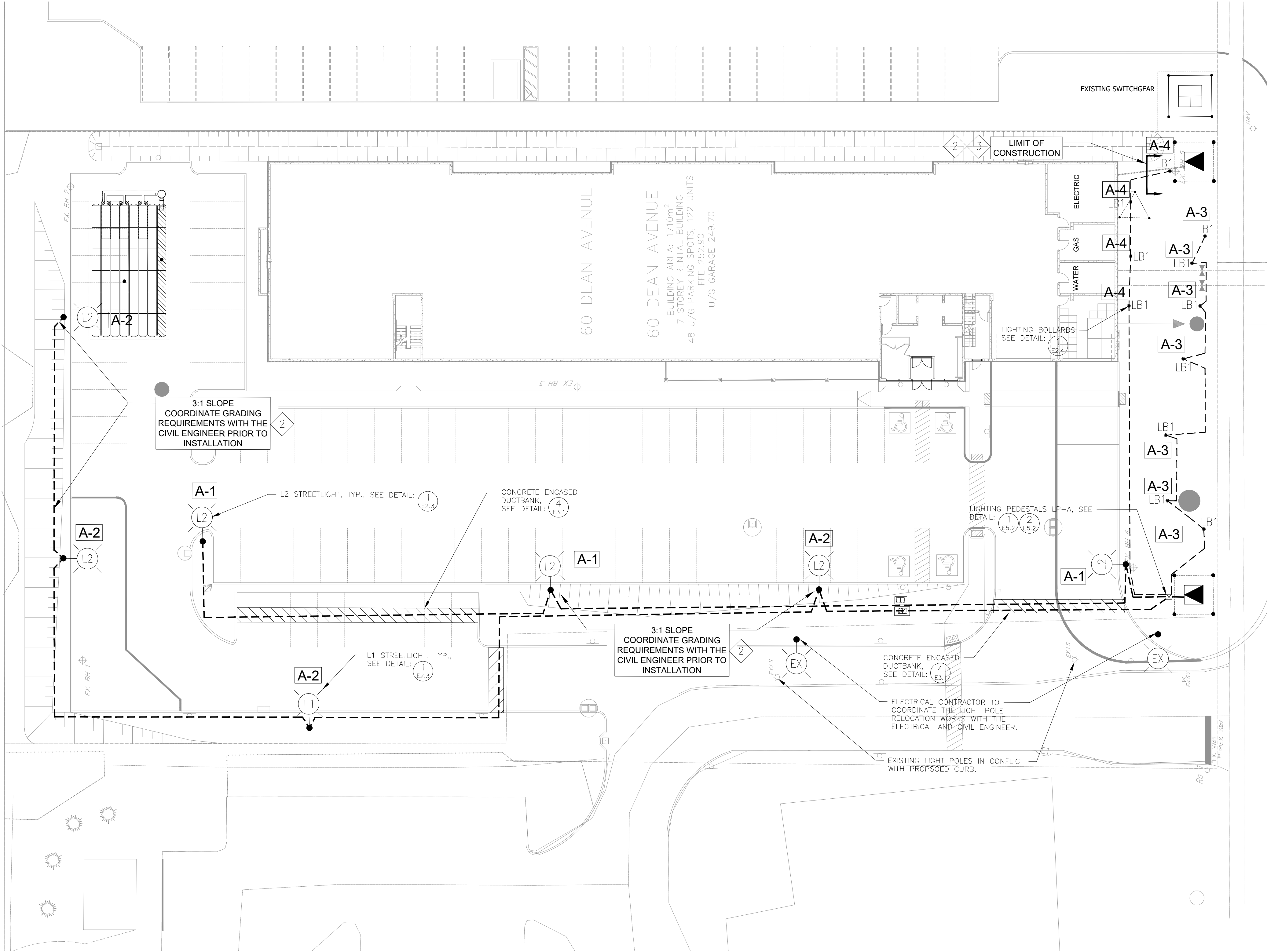


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CHECK: DL

FILE: 125008
DATE: MAR 2025
SCALE: 1:250

DWG:

E1.1



SITE PLAN LEGEND	
	PRIMARY DUCTBANK, UNDERGROUND CONCRETE ENCASED
	SECONDARY DUCTBANK, UNDERGROUND CONCRETE ENCASED
	LIGHTING DUCT, UNDERGROUND DIRECT BURIED
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	LIGHT AND POLE (L# DENOTES LIGHT TYPE)
	LIGHTING BOLLARD

NOTES:

- 1

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1 ELECTRICAL SITE PLAN: LIGHTING
E2.1 SCALE 1:250

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ENGINEER STAMP



60 DEAN AVENUE, BARRIE
SITE PLAN

ELECTRICAL LIGHTING



DESIGN: RSB

DRAWN: RSB

CHECK: DL

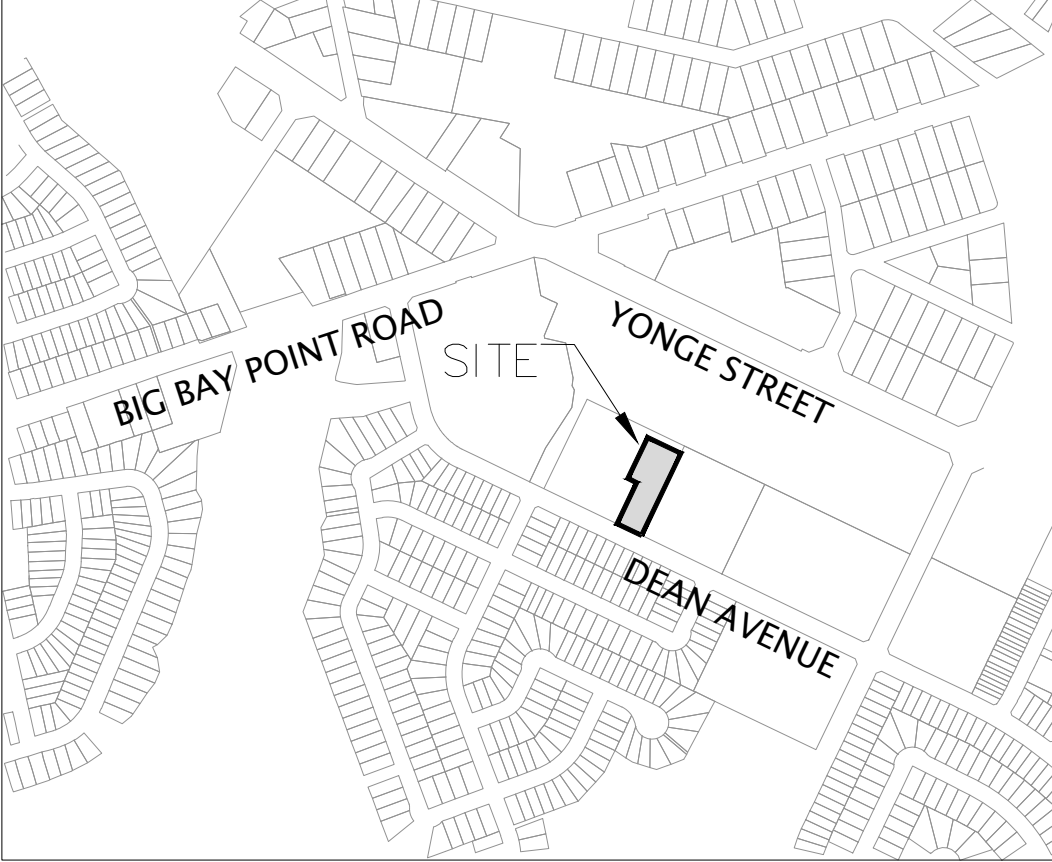
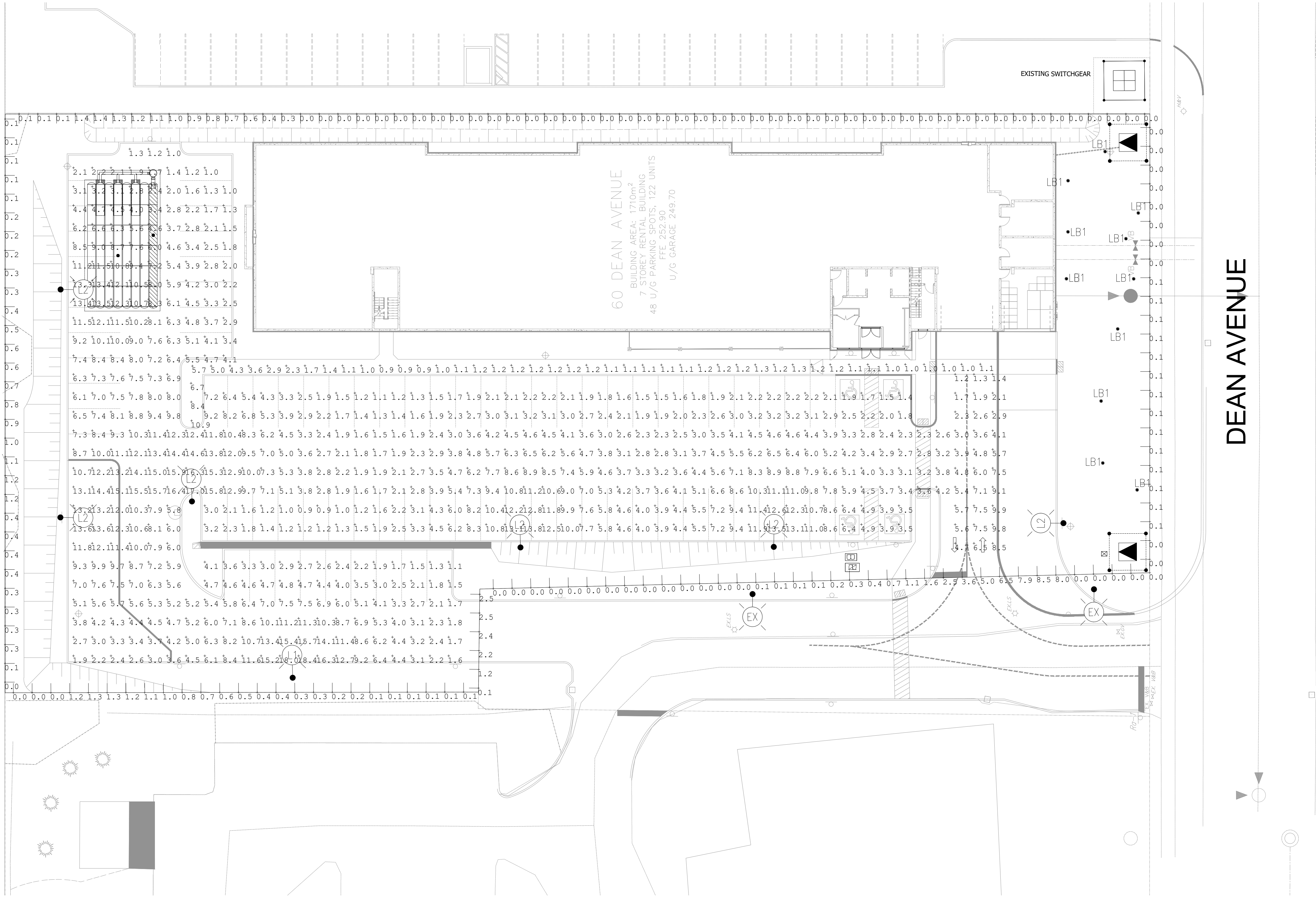
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DATE: MAR 2025

SCALE: 1:250

DWG:

E2.1



DEAN AVENUE

1
E2.2

PHOTOMETRICS

SCALE 1:250

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
Parking Area	Illuminance	Lux	5.64	17.9	0.9	6.27
Pathway	Illuminance	Lux	2.71	9.6	0.8	3.39
Property Line Light Spill	Illuminance	Lux	0.35	3.5	0.0	N.A.

Table 16-3: Minimum Illuminance Criteria for Walkways
Average Horizontal: 2 Lux
Average Vertical: 1 Lux
Uniformity Ratio Max. (Avg / Min): 6.0

Table 17-2: Minimum Illuminance Criteria for Parking Areas Including driveway
Minimum Horizontal: 2 Lux
Uniformity Ratio Max. (Max / Min): 20:1

Table 4-2: Recommended Maximum Vertical Illuminance Spill Light
Lighting Zone LZ-2 - LZ-3
Maximum Vertical Illuminance: 3-8 Lux

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SITE PLAN

PHOTOMETRICS



DESIGN: RSB

FILE: 125008

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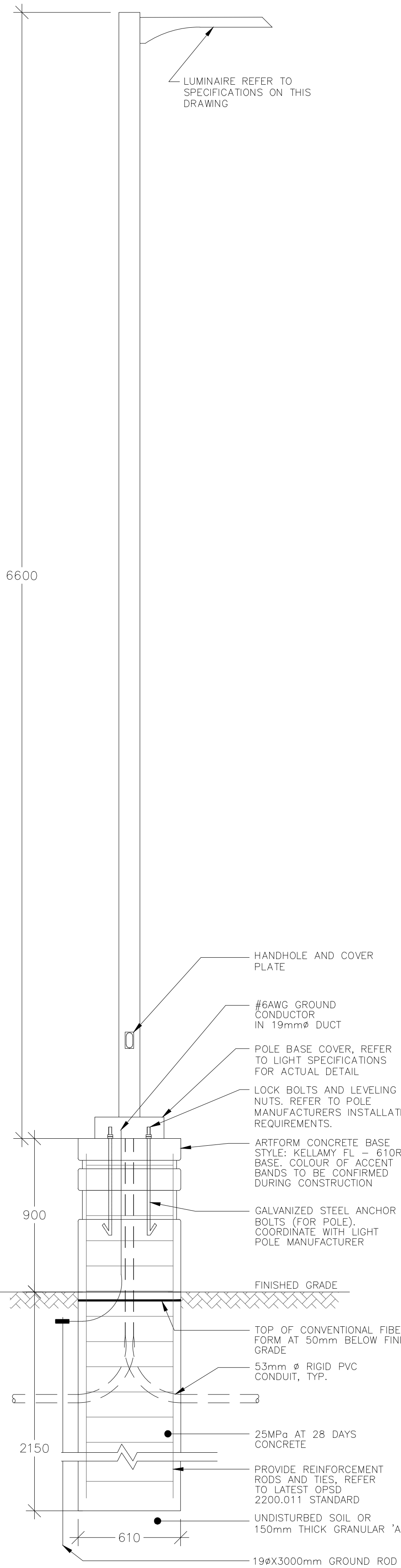
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CHECK: DL

SCALE: 1:250

E2.2



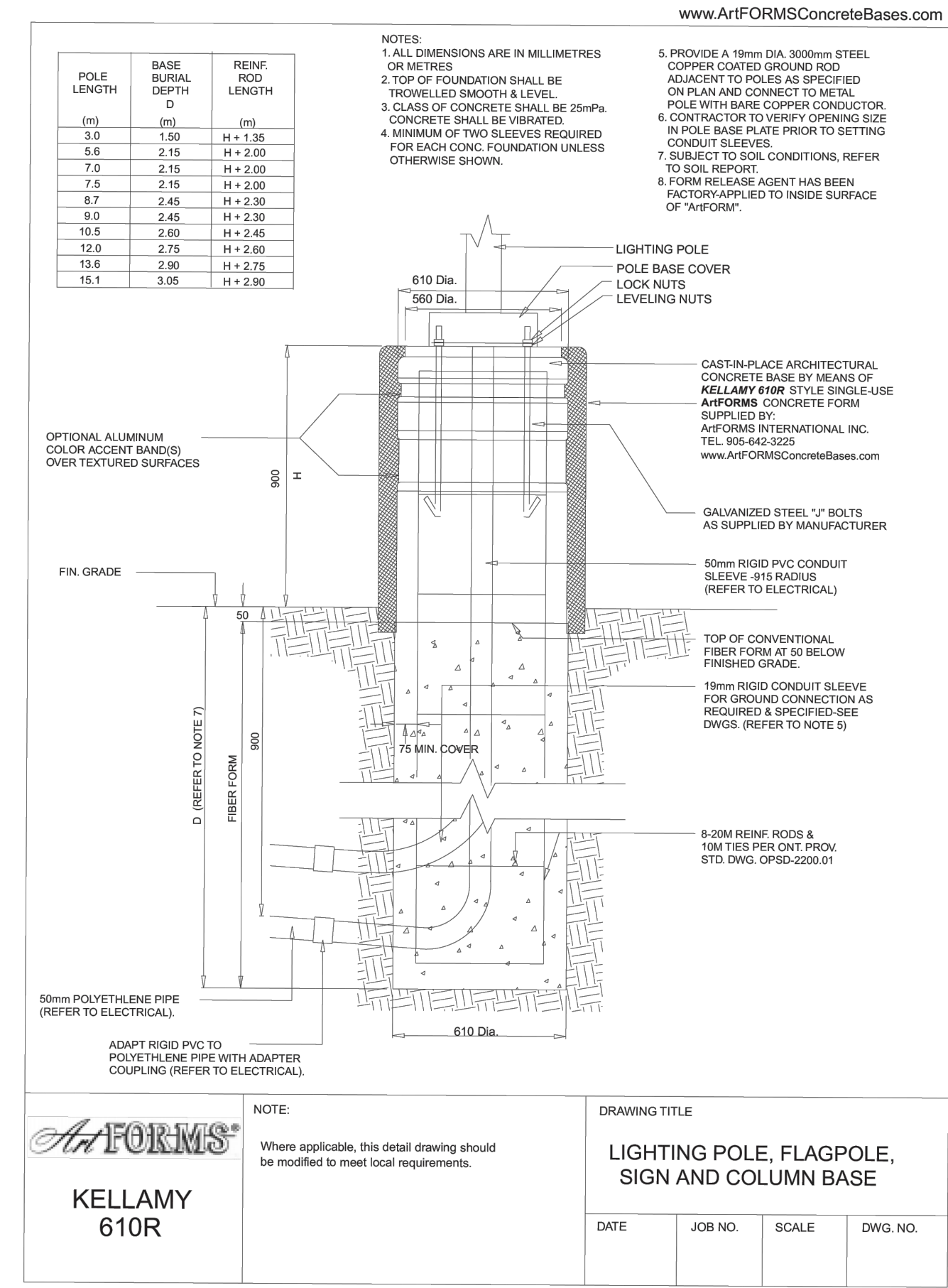
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E2.3 TYPICAL LUMINAIRE INSTALLATION
DETAIL: L1, & L2
NTS - DIMENSIONS SHOW IN MILLIMETRES.

LUMINAIRE SPECIFICATIONS			
L1			
LUMINAIRE LABEL:	L1		
MANUFACTURER:	HCI		
MODEL NUMBER:	HD-SL LED		
DISTRIBUTION TYPE:	TYPE IV		
VOLTAGE:	120V		
LUMINAIRE LUMENS:	2780		
WATTAGE:	30W		
COLOR TEMPERATURE:	3000K		
MOUNTING:	1 ARM CONFIGURATION		
COLOR:	BLACK		
OPTIONS:	7-PIN PHOTO RECEPTACLE, C/W PHOTOCCELL, HOUSE SIDE SHIELD		
BUG:	B0-U0-G1 (DARK SKY COMPLIANT)		
(BACKLIGHT, UPLIGHT, GLARE)			

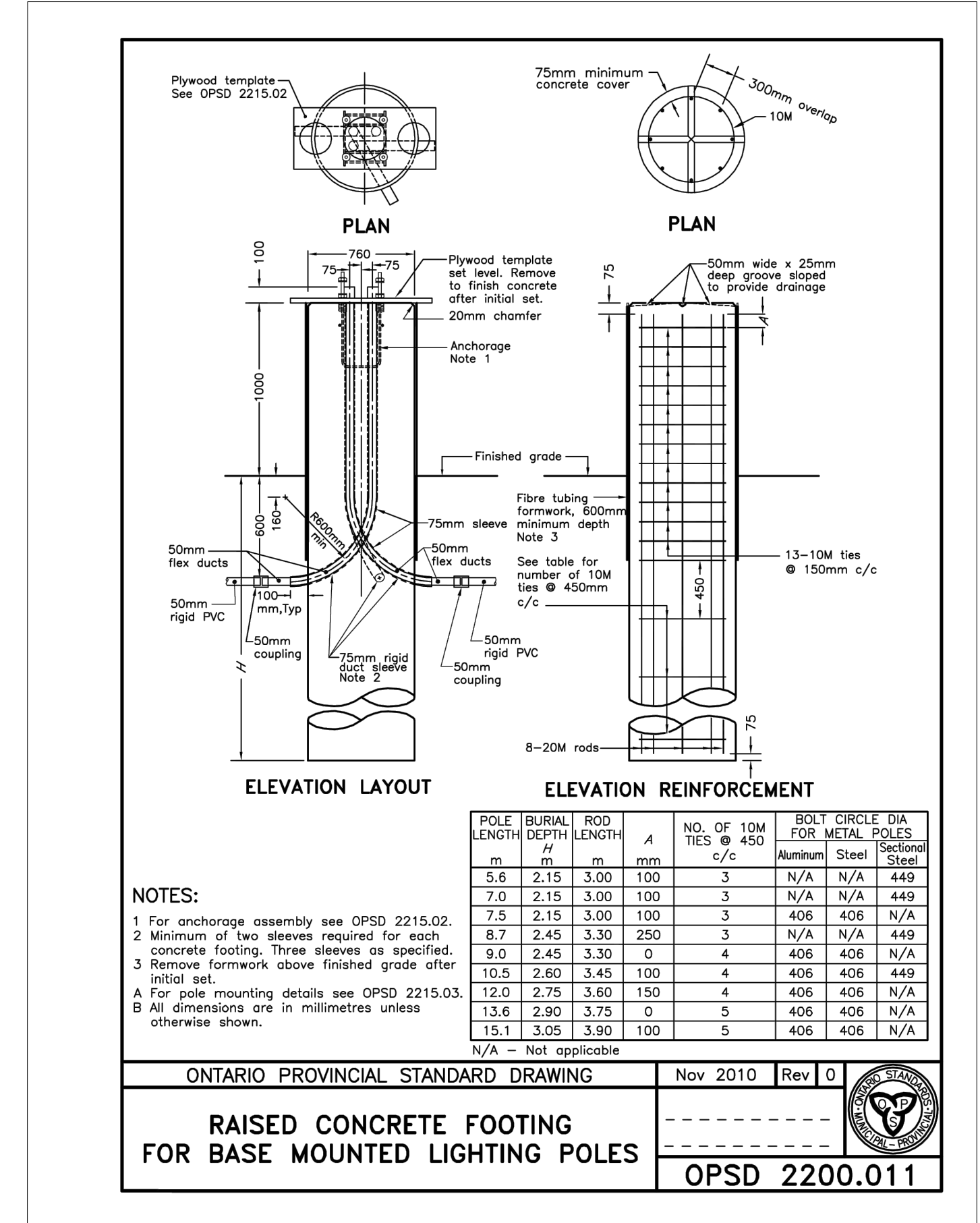
POLE SPECIFICATIONS			
POLE MANUFACTURER:	HCI ALUMINIUM SQUARE POLE		
MODEL NO.:	P422-SQ-5SQPC-22-BLACK		
POLE WIDTH:	127mm (5")		
POLE HEIGHT ABOVE BASE:	6600mm (22')		
TYPE:	ALUMINIUM		
COLOR:	TEXTURED BLACK		

LUMINAIRE SPECIFICATIONS			
L2			
LUMINAIRE LABEL:	L2		
MANUFACTURER:	HCI		
MODEL NUMBER:	HD-SL LED		
DISTRIBUTION TYPE:	TYPE III		
VOLTAGE:	120V		
LUMINAIRE LUMENS:	2896		
WATTAGE:	30W		
COLOR TEMPERATURE:	3000K		
MOUNTING:	1 ARM CONFIGURATION		
COLOR:	BLACK		
OPTIONS:	7-PIN PHOTO RECEPTACLE, C/W PHOTOCCELL, HOUSE SIDE SHIELD		
COLOS:	B0-U0-G1 (DARK SKY COMPLIANT)		
(BACKLIGHT, UPLIGHT, GLARE)			

POLE SPECIFICATIONS			
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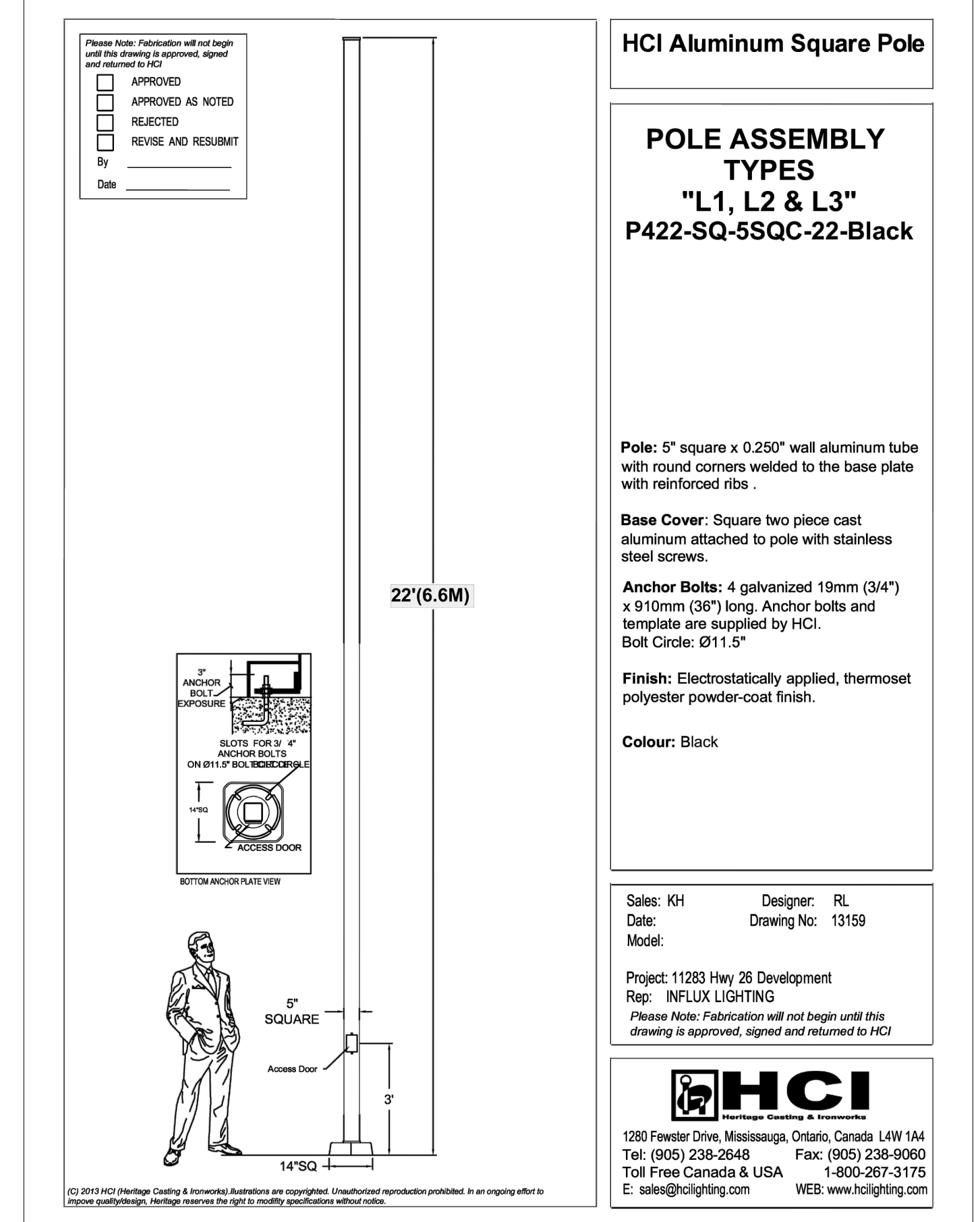


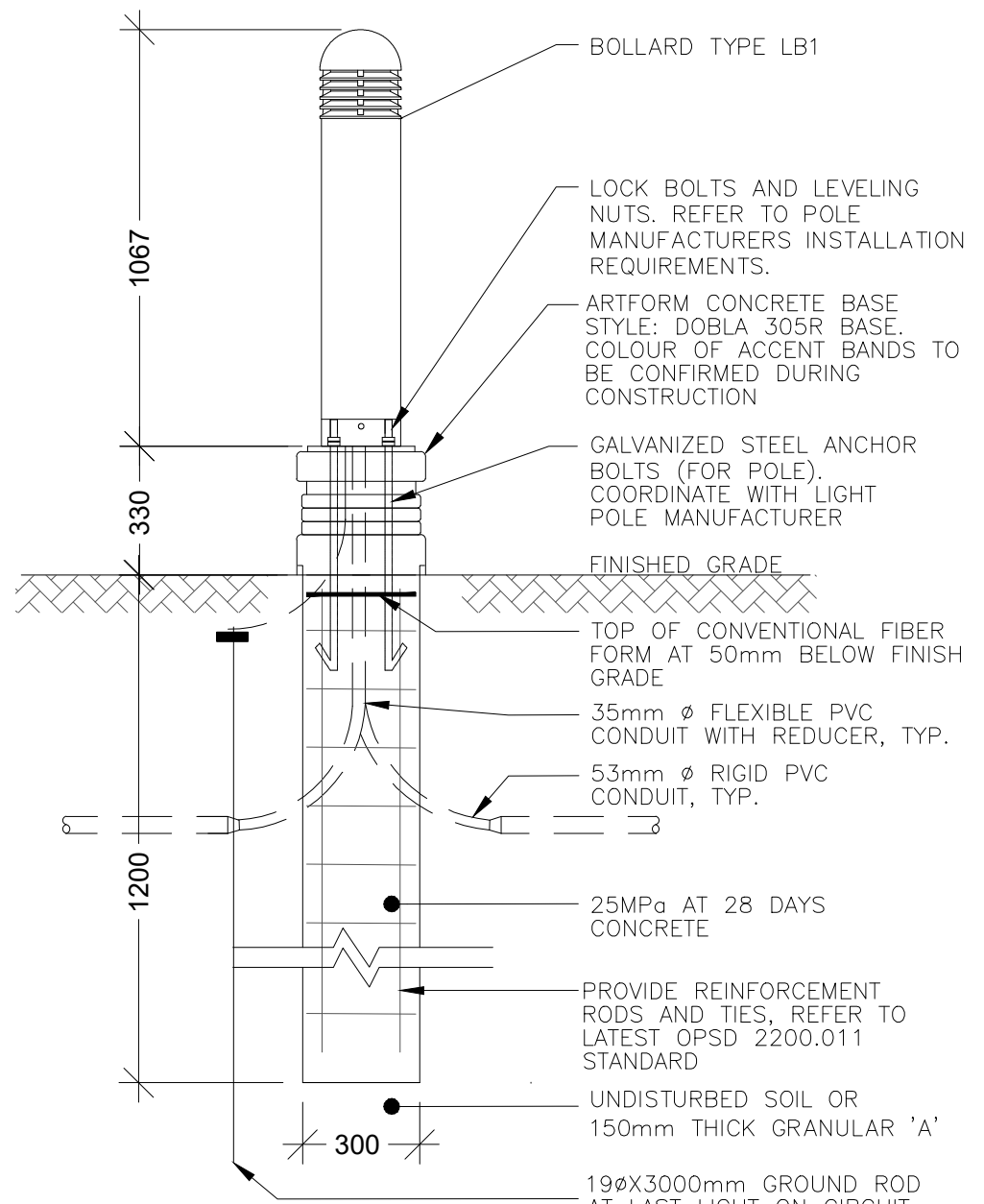
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E2.3 POLE BASE SPECIFICATIONS
-NTS



6
E2.3 OPSD STANDARD
-NTS

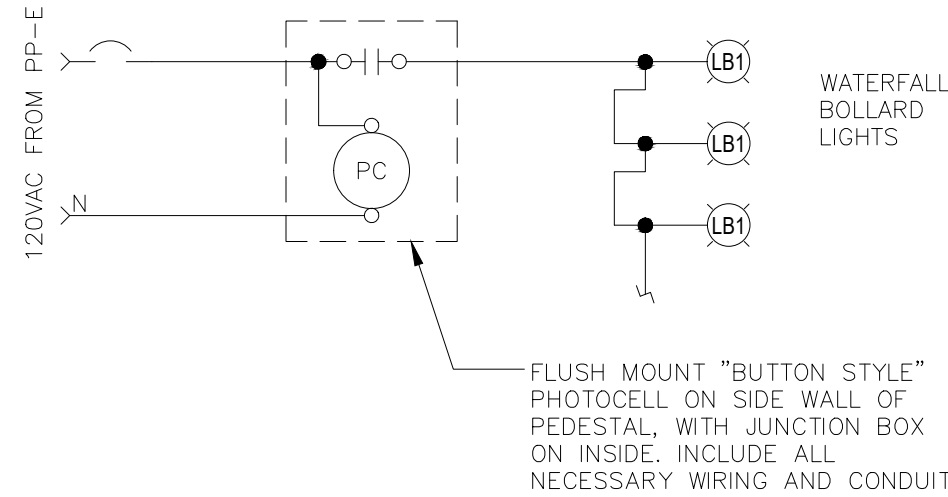
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E2.3 TYP. WIRING DETAIL FOR SITE LIGHTING LIGHTS
- NTS





1 LIGHT BOLLARD TYPICAL E2.4 INSTALLATION DETAIL: LB1

- NTS
- FOR INSTALLATION DETAILS REFER TO OPSD 2200.041



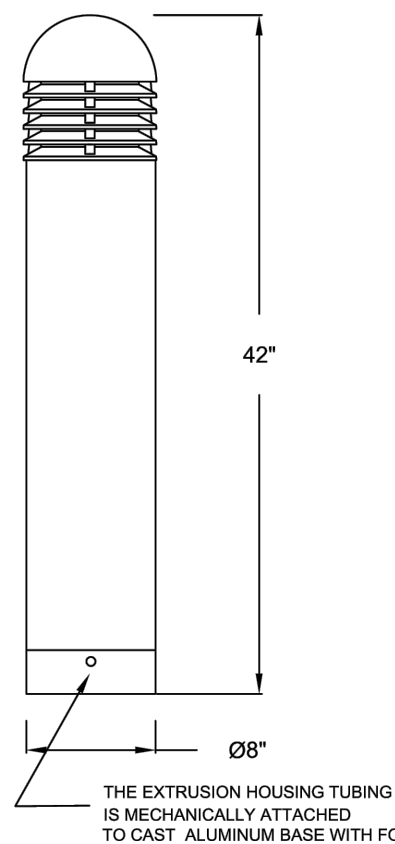
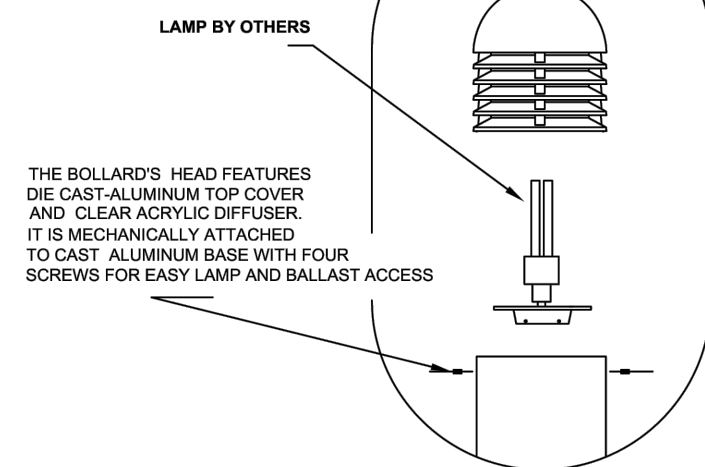
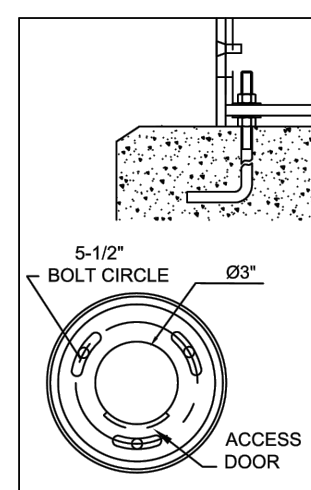
2 BOLLARD LIGHTS – WIRING CONTROL DIAGRAM

- PHOTOCELL FLSUH MOUNTED AT PEDESTAL, WITH SENSOR FACING SOUTH-EAST DIRECTION

● LB1 LUMINAIRE:
LUMINAIRE LABEL: LB1
MANUFACTURER: HCI LIGHTING
SERIES: B804
DISTRIBUTION TYPE: TYPE III
VOLTAGE: 120V
WATTAGE: 18W
COLOR TEMPERATURE: 3000K
COLOUR: TEXTURED FINISH BLACK
OPTIONS: SINGLE FUSE
SHIELD: B1=UO=G1 (DARK SKY COMPLIANT)
(B = BACKLIGHT, U= UPLIGHT, G = GLARE)

CONCRETE BASE:
MANUFACTURER: ARTFORMS
MODEL NO.: DOBLA 305R
BASE WIDTH: 300mm (12")
BASE HEIGHT ABOVE GRADE: 330mm (12")

ANCHOR BOLT DETAIL



Please Note: ALL HCI LUMINAIRES CONFORM TO APPLICABLE UL AND CSA STANDARDS.
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Lighted Bollard - Model B804

Top: Die Cast /Extrusion Aluminum

Diffuser Type: Clear

Diffuser Material: Acrylic.

Hardware: Stainless steel.

Wattage: 18W LED Voltage: 120V

Socket Type: GX24q-4.

Optical System: External Louver

Anchor Bolts: 3 galvanized steel 9.5mm (3/8") x 254mm (10") long, L-shape. Template supplied by HCI.(B.C.Ø5-1/2")

Finish: Electrostatically applied thermoset polyester powder-coat finish.

Colour: RAL9011 BLACK

February 2021
STL Lighting Group
Model Number:
B804-CAC-18WLED-3000K-120V-
IES5-RAL9011



1280 Feather Drive, Mississauga, Ontario, Canada L4W 1M4
Tel: (905) 238-2648 Fax: (905) 238-9060
Toll Free Canada & USA 1-800-267-3175
E: sales@hclighting.com WEB: www.hclighting.com

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ENGINEER STAMP



60 DEAN AVENUE, BARRIE SITE PLAN

BOLLARD LIGHTING DETAILS



DESIGN: RSB

DRAWN: RSB

CHECK: DL

FILE: 125008

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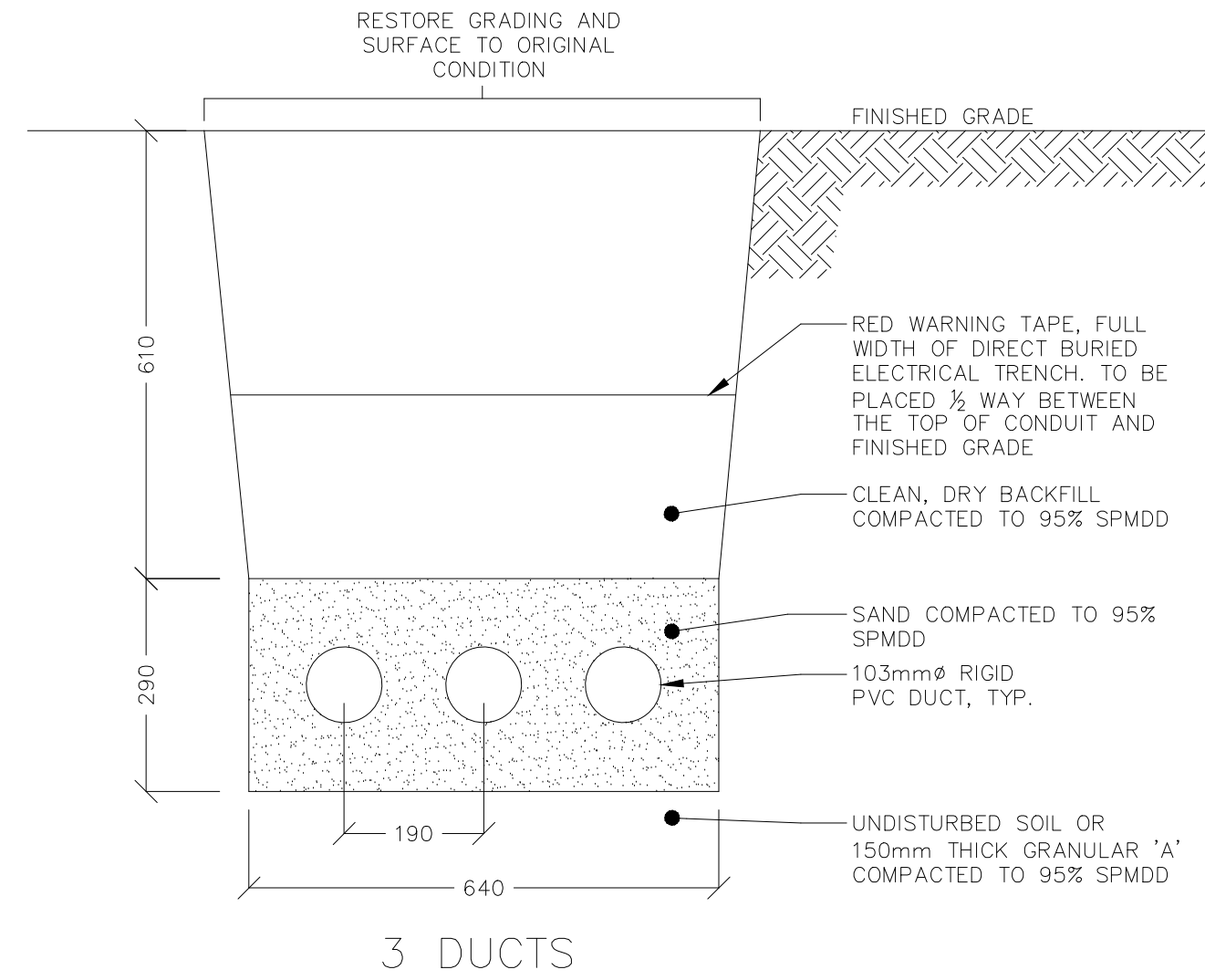
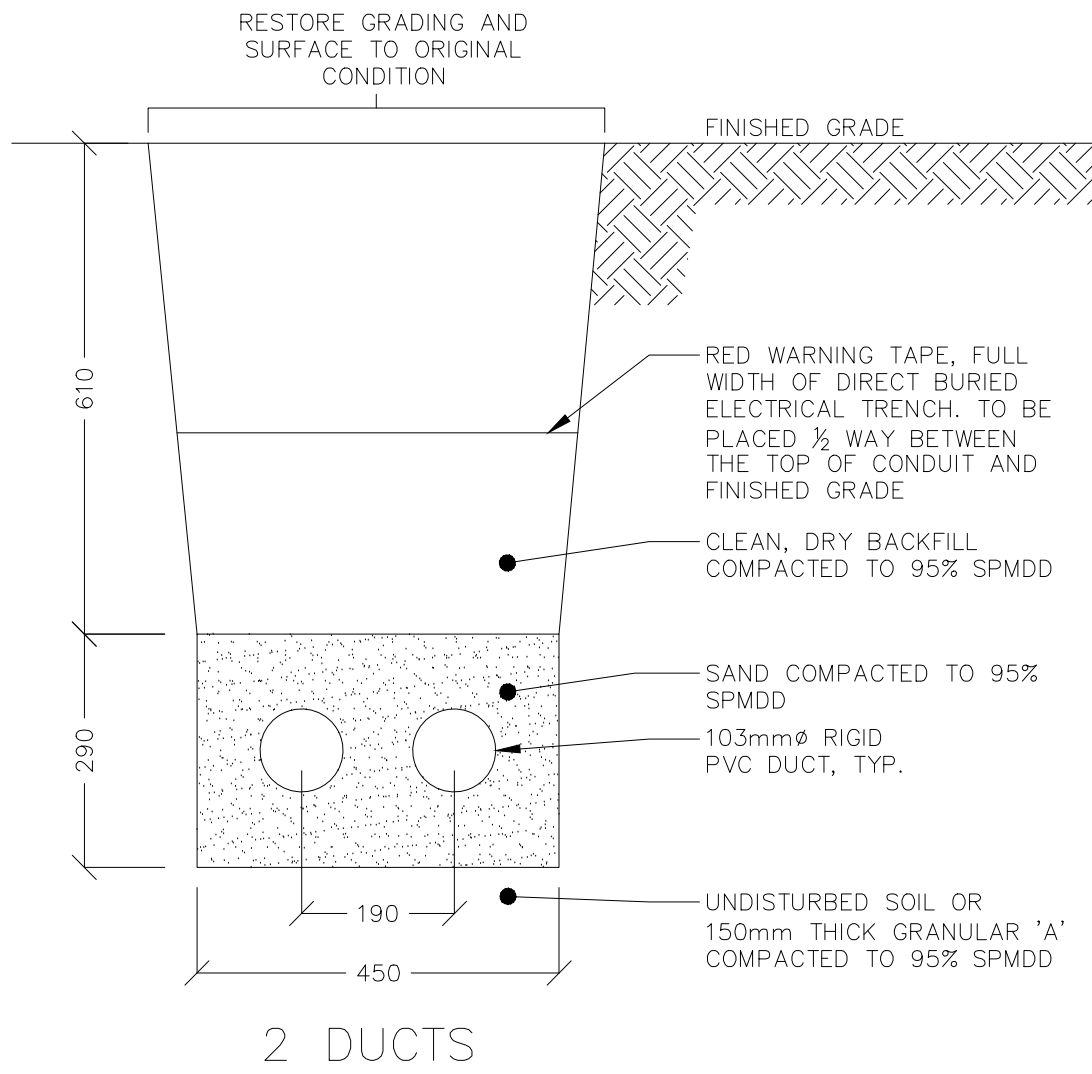
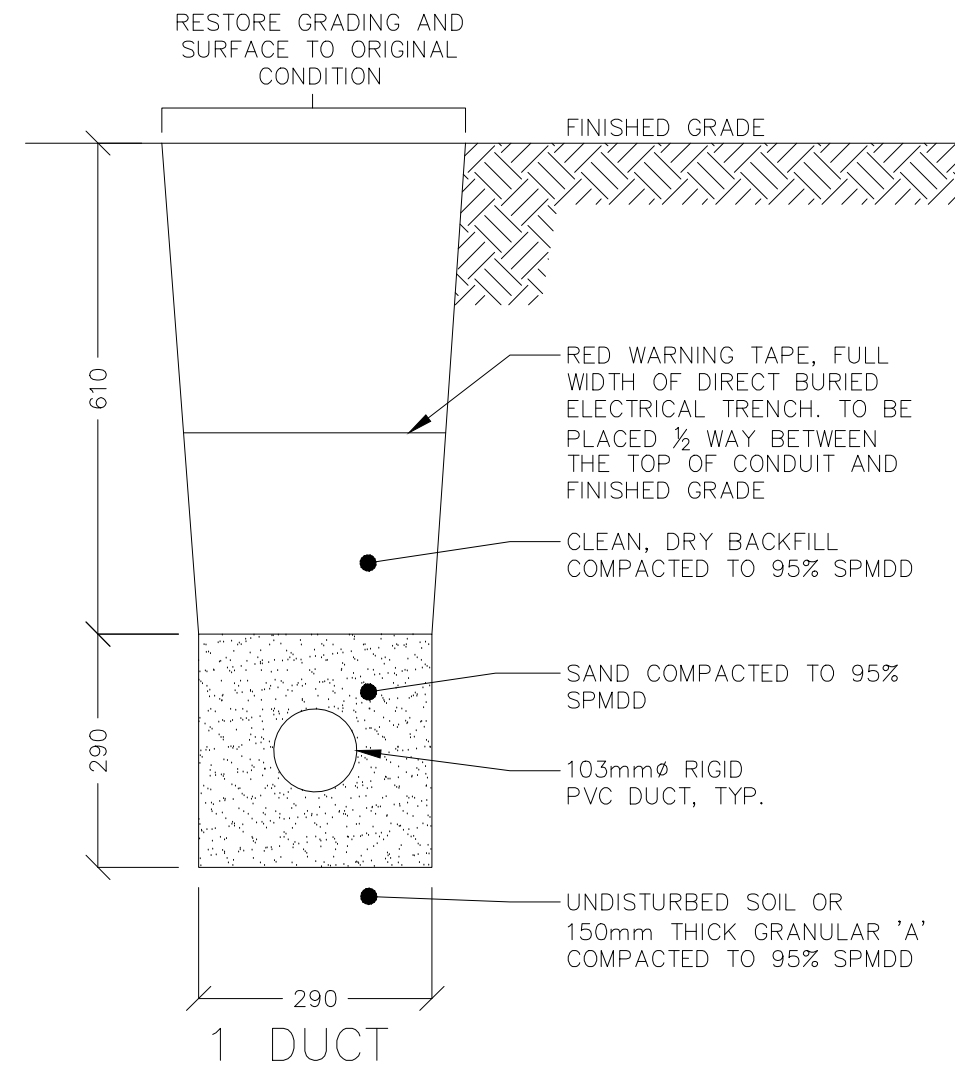
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DWG:

E2.4

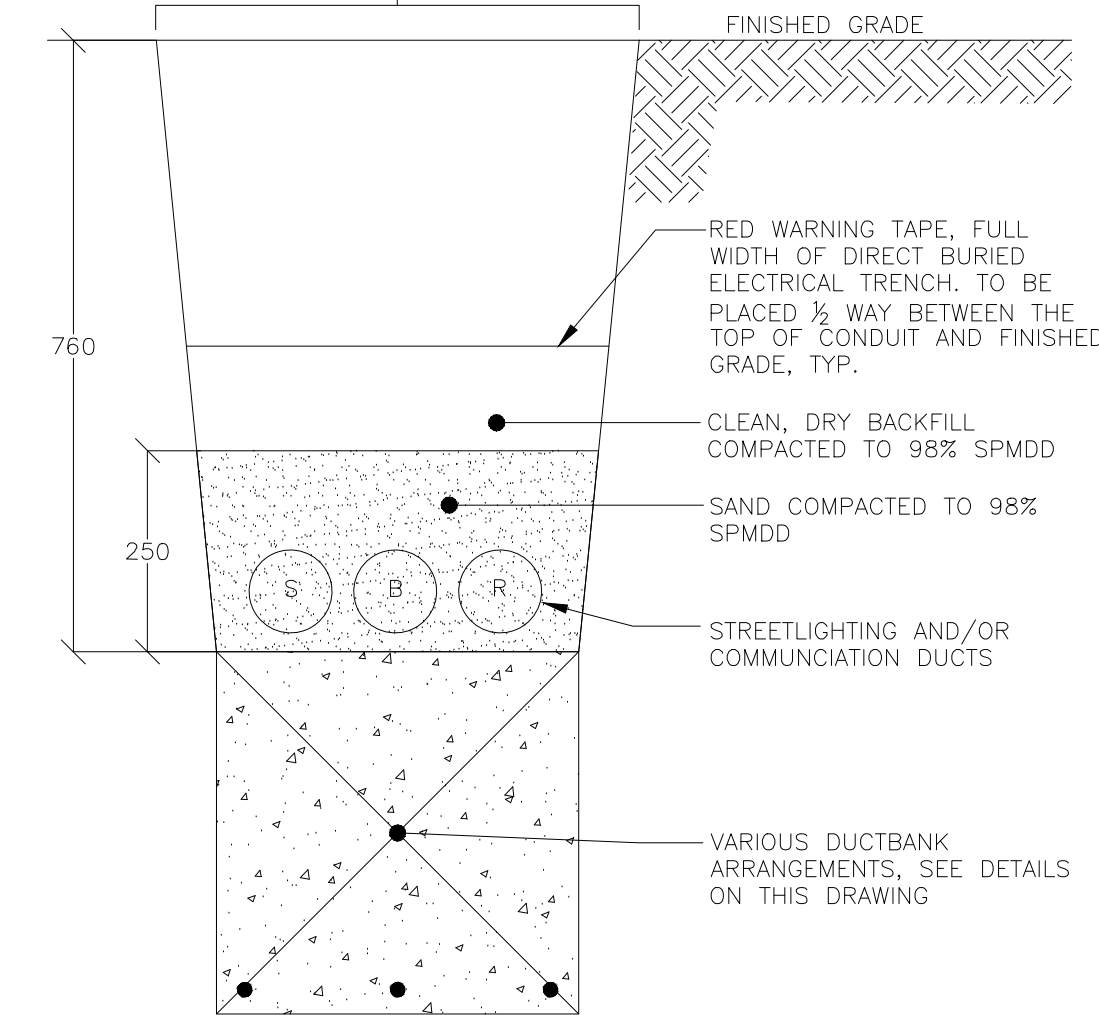
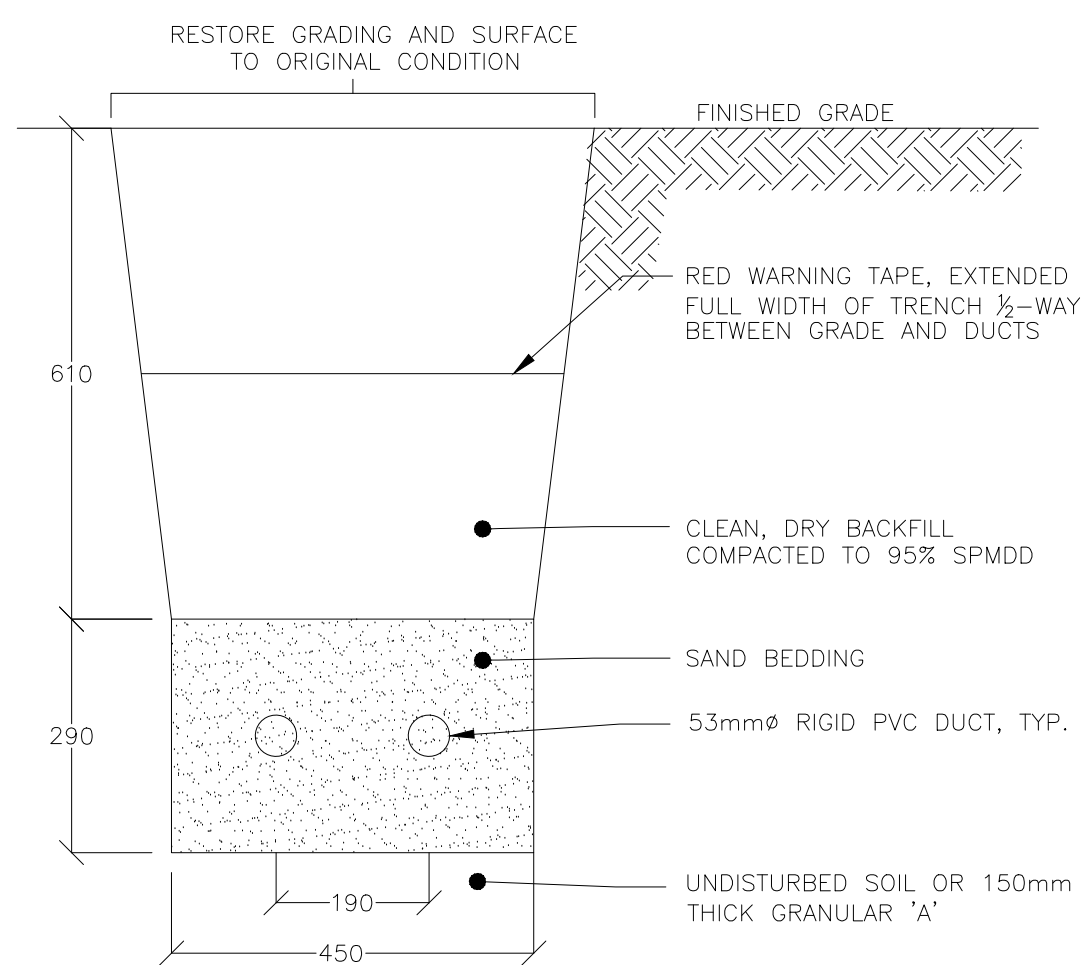
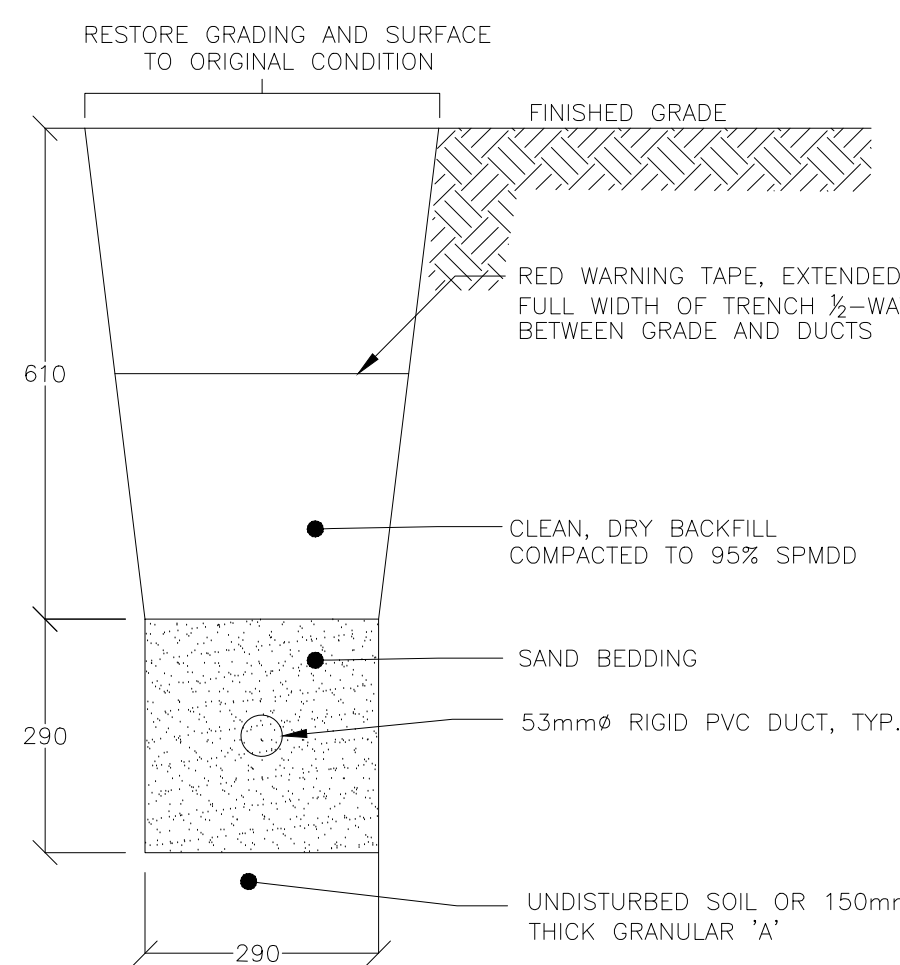
NOTES

- 1 DUCTBANK NOTES:
- DIMENSIONS SHOWN IN mm.
 - ALL DUCTS ARE 103mmØ TYPE PVC DB2, UNLESS OTHERWISE NOTED
 - PROVIDE 915mm "LONG SWEEP BENDS" FOR ALL BENDS: 90°, 45°, AND 22.5° BENDS
 - PROVIDE FISH ROPE IN EACH SPARE DUCT
 - INSTALL SPACERS EVERY 1524mm TO ASSEMBLE DUCTBANK. OFFSET OR STAGGER SPACERS
 - GLUE ALL PVC JOINTS
 - PROVIDE END-BELLS WHEN FINISHING DUCTS IN CHAMBER OR WALLS
 - B = BELL DUCTS, R = ROGERS DUCTS
 - L = LIGHTING, S = SPARE



7 TYP., SITE COMMUNICATION DUCTBANKS

E3.1 - NTS 1

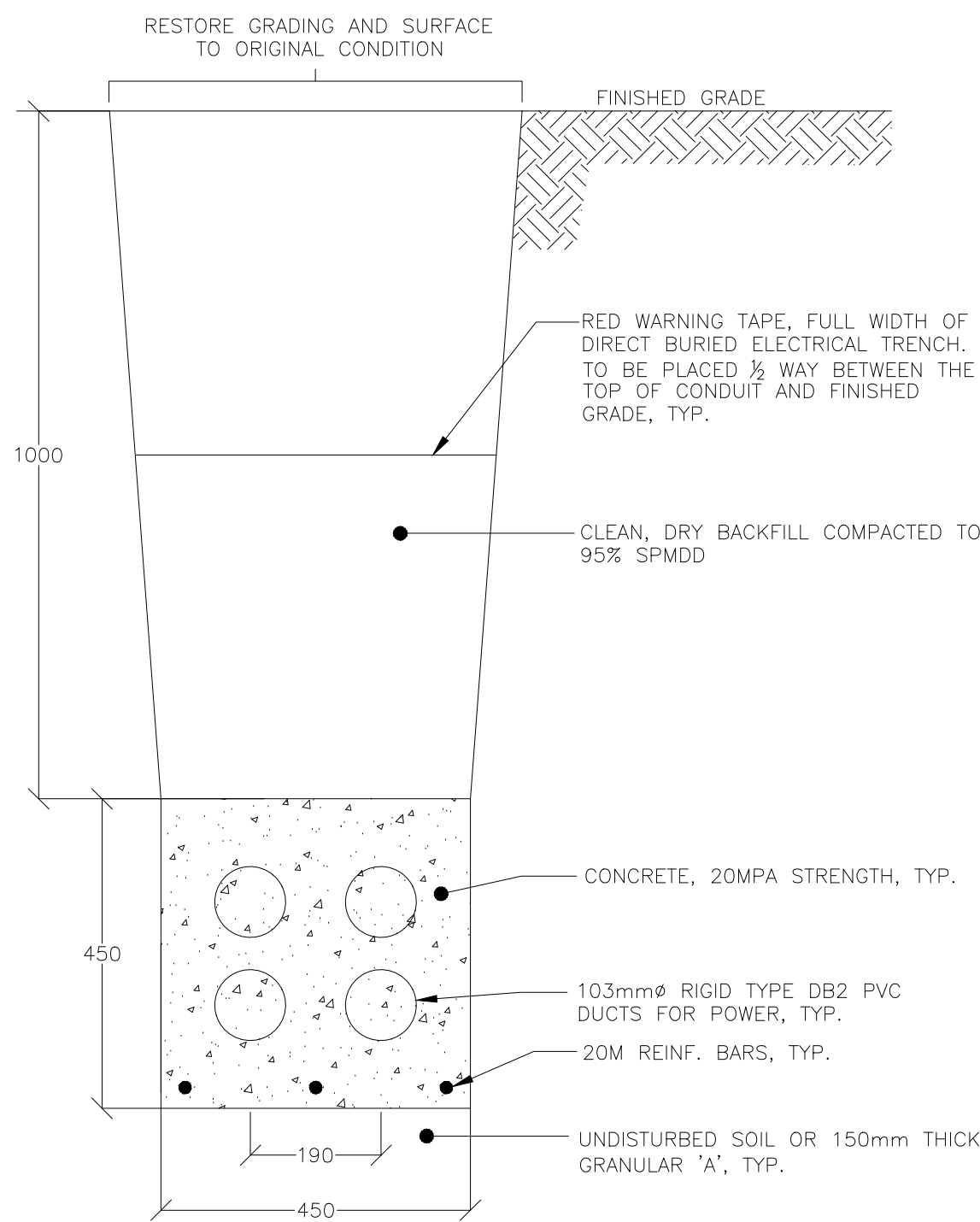


6 COMMUNICATION & LIGHTING COMMON TRENCH WITH SECONDARY DUCTBANK

E3.1 - NTS 1

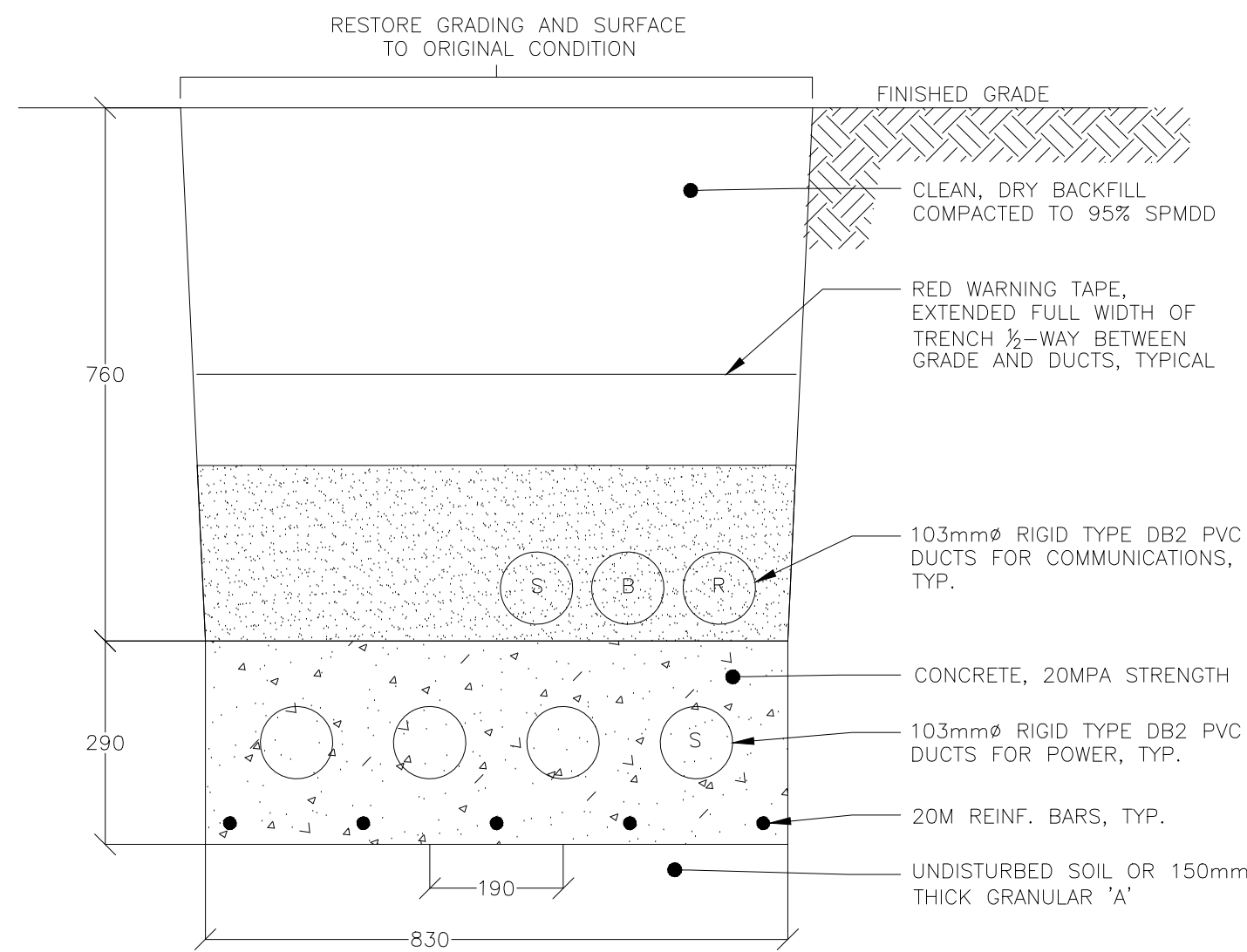
5 TYP., SITE LIGHTING DUCTBANKS

E3.1 - NTS 1



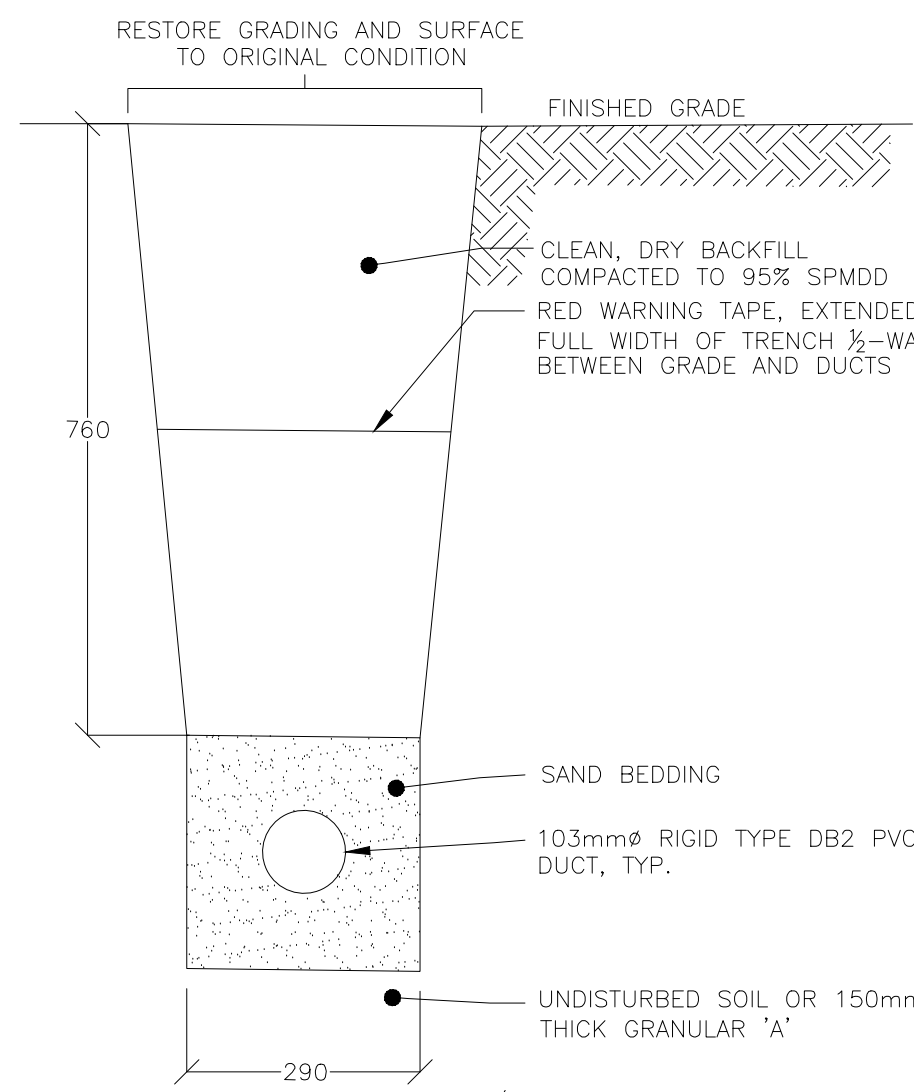
1 PRIMARY FEEDER DUCTBANK

E3.1 - NTS 1



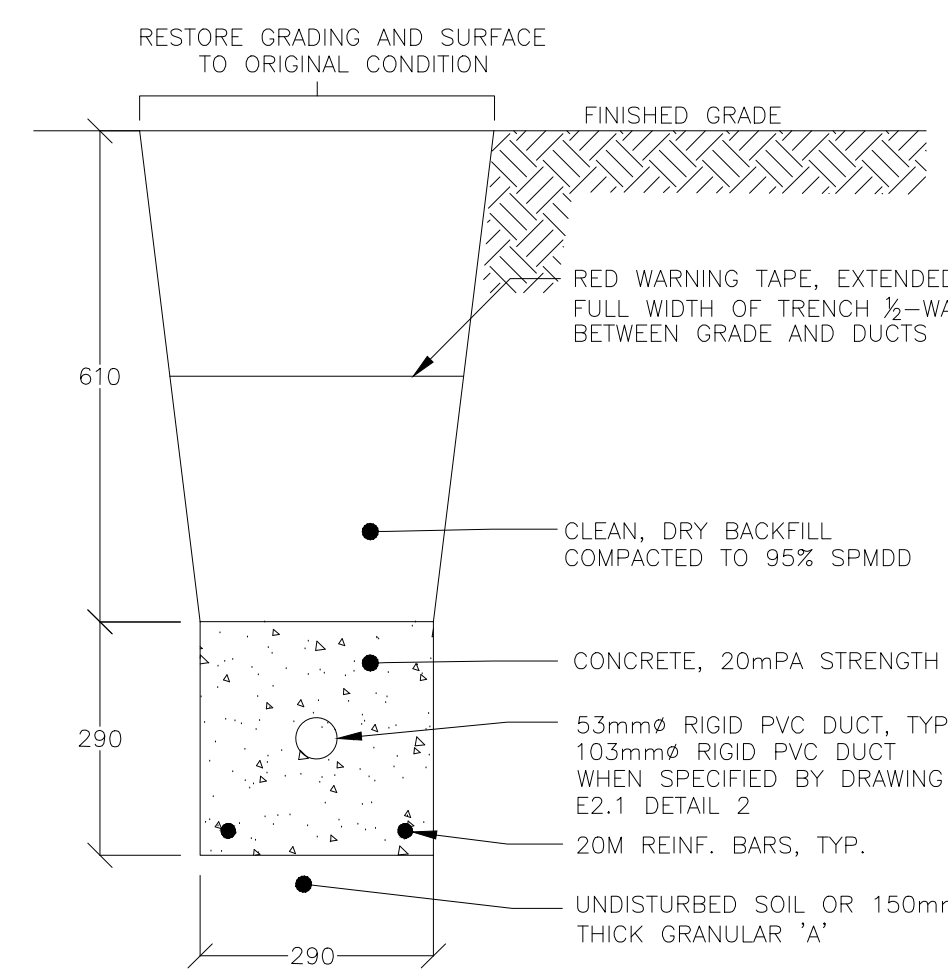
2 SECONDARY U/G DUCTBANK (3/PHASE + SPARE)

E3.1 - NTS 1



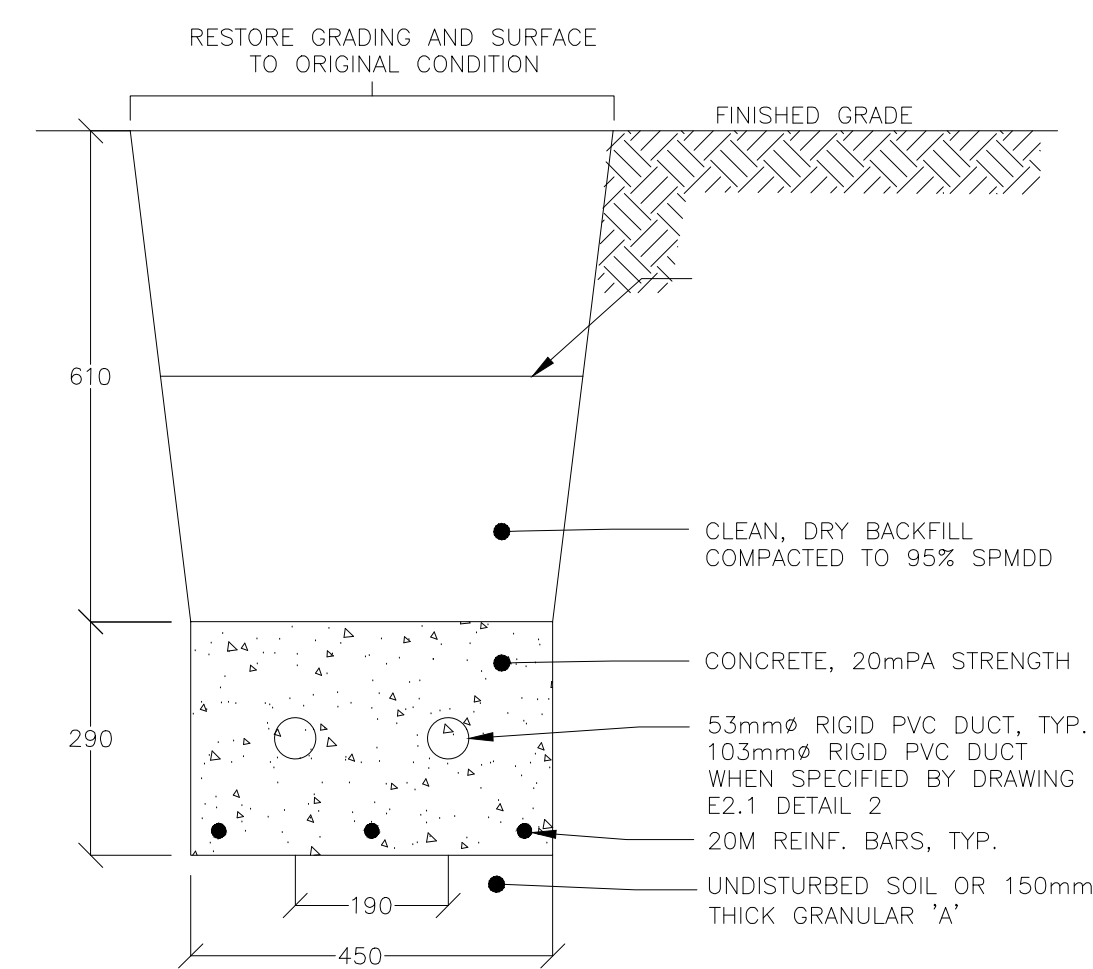
3 SECONDARY U/G DUCTBANK (1/PHASE)

E3.1 - NTS 1



4 TYP., SITE LIGHTING ROAD CROSSING DUCTBANK

E3.1 - NTS 1



RED WARNING TAPE, EXTENDED FULL WIDTH OF TRENCH ½-WAY BETWEEN GRADE AND DUCTS

DISCLAIMER AND COPYRIGHT

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.

TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

BENCHMARKS

NOTES

No.	REVISION DESCRIPTION	DATE
1.	ISSUED FOR COORDINATION	FEB 21/25
2.	ISSUED FOR COORDINATION	FEB 26/25
3.	ISSUED FOR SUBMISSION	MAR 05/25

ENGINEER STAMP



60 DEAN AVENUE, BARRIE
SITE PLAN

DUCTBANK DETAILS

TATHAM
ENGINEERING

DESIGN: RSB

FILE: 125008

DWG:

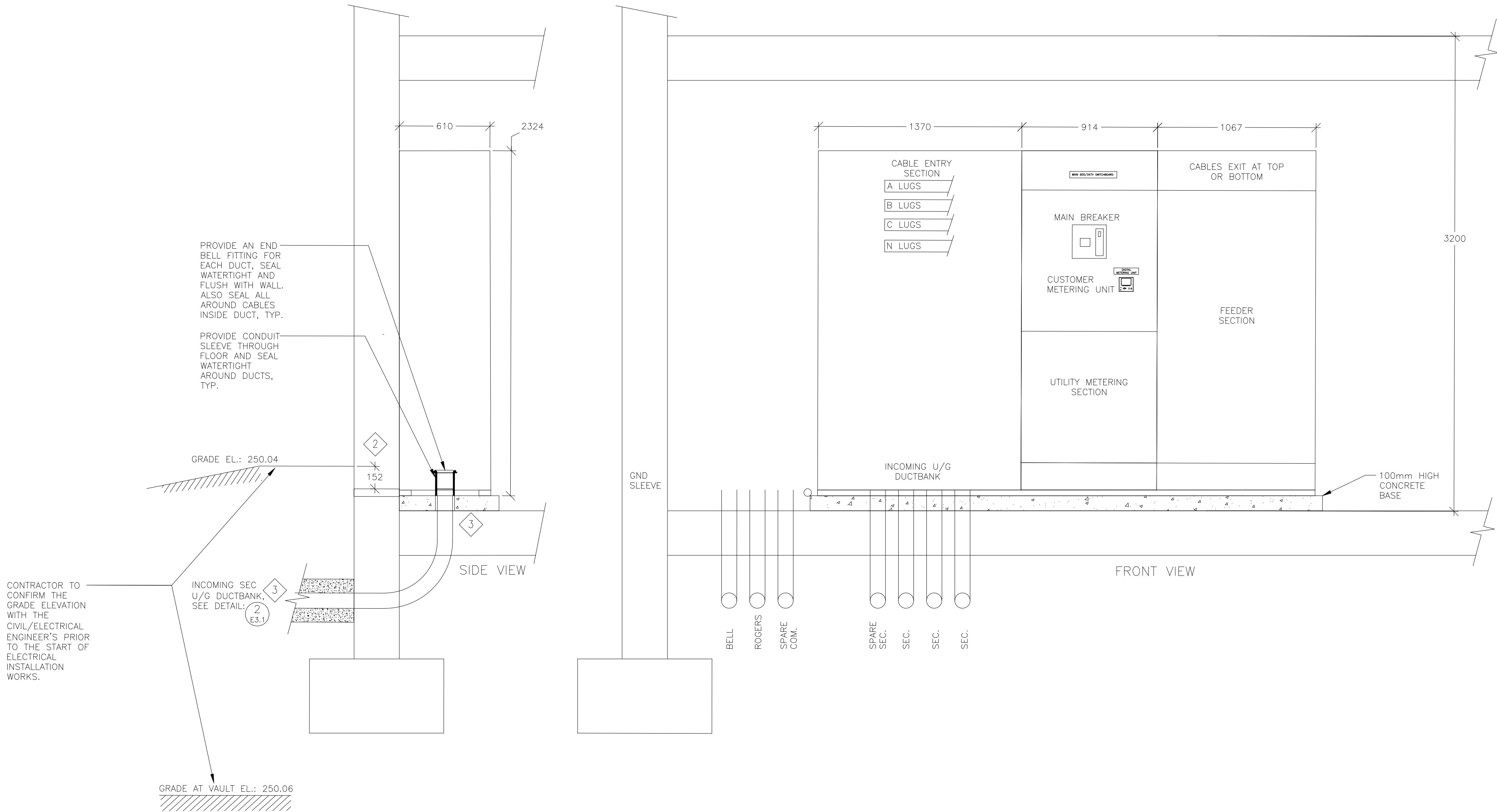
DRAWN: RSB

DATE: MAR 2025

E3.1

CHECK: DL

SCALE:



- 1 MAIN 600V SWITCHBOARD (SERVICE ENTRANCE RATED)
- NTS
 - SWITCHBOARD TO BE DESIGNED AND INSTALLED BY OTHERS

NOTES:

- 1 CONTRACT DRAWINGS DO NOT PORTRAY THE LOCATION OF ALL EXISTING UNDERGROUND SERVICES. PRIOR TO PERFORMING ANY TRENCHING OR DIGGING WORK, CONTRACTOR IS REQUIRED TO CONTACT ALL LOCAL UTILITIES AND REQUEST A STAKING OR MARKING OF ALL SEWERS, WATERMANS, GAS MAINS AND ALL TYPES OF CABLES AND CONDUITS. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE TO PAY FOR DAMAGES OR DISTURBANCES CAUSED TO ANY EXISTING UTILITY. REINSTATE GRAVEL AREA, ASPHALT AND GRASSED AREA WHERE DISTURBED DURING CONSTRUCTION.
- 2 CONTRACTOR TO COORDINATE THE GRADE ELEVATIONS FOR ALL THE ELECTRICAL WORKS PRIOR TO THE INSTALLATION OF UNDERGROUND OR ABOVE GROUND UTILITIES.
- 3 COORDINATE LIMIT OF CONSTRUCTION DEMARCATION POINT WITH BUILDING CONTRACTOR. DUCTS ENTERING BUILDING ARE TO BE PROVIDED BY BUILDING CONTRACTOR. ENSURE CABLES ARE INSTALLED CONTINUOUSLY FROM TRANSFORMER TO SWITCHBOARD.

DISCLAIMER AND COPYRIGHT

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ENGINEER STAMP



60 DEAN AVENUE, BARRIE
SITE PLAN

ELEVATION DETAILS



DESIGN: RSB

FILE: 125008

DWG:

DRAWN: RSB

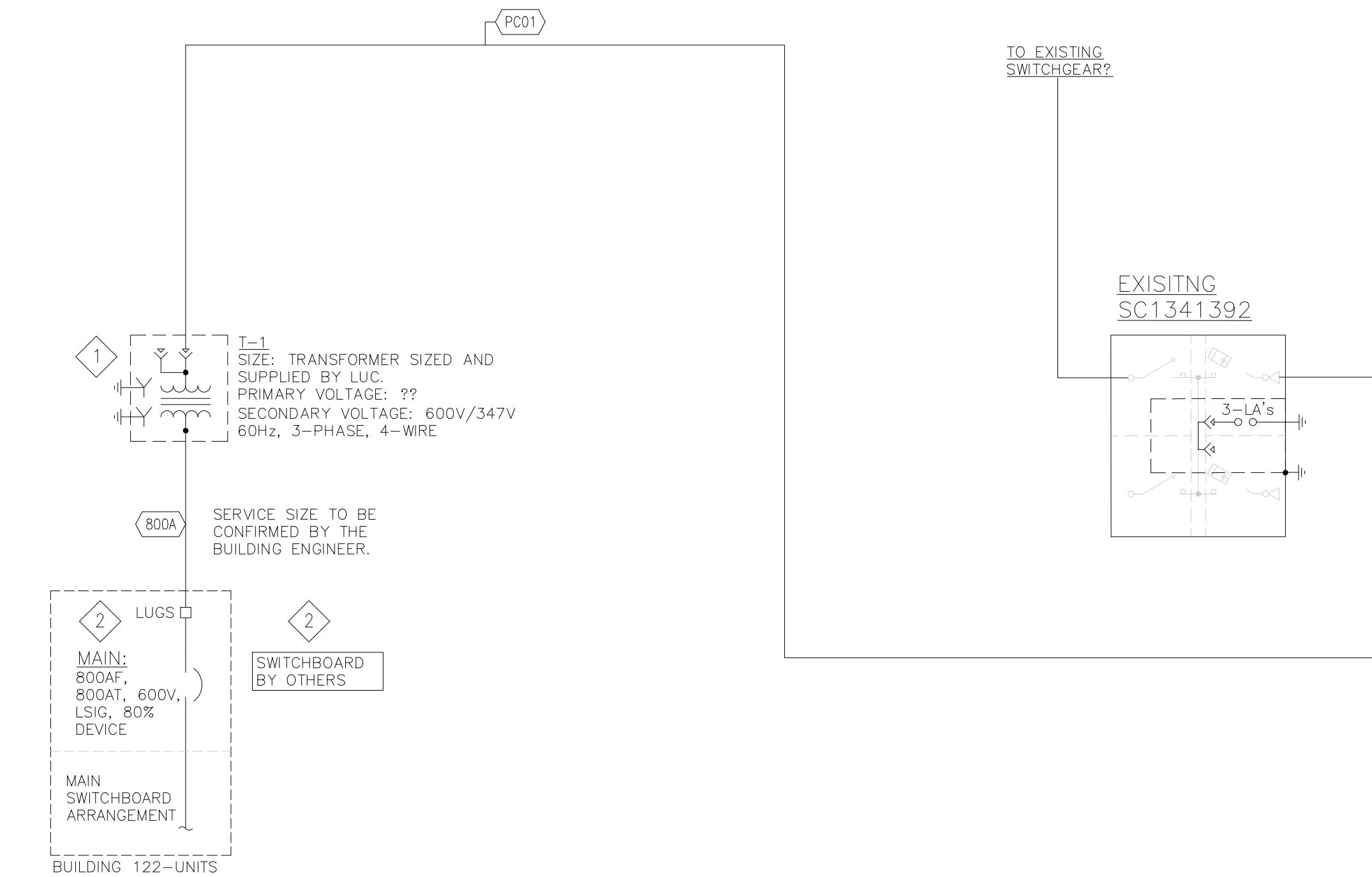
DATE: MAR 2025

CHECK: DL

SCALE: 1:200

E4.1

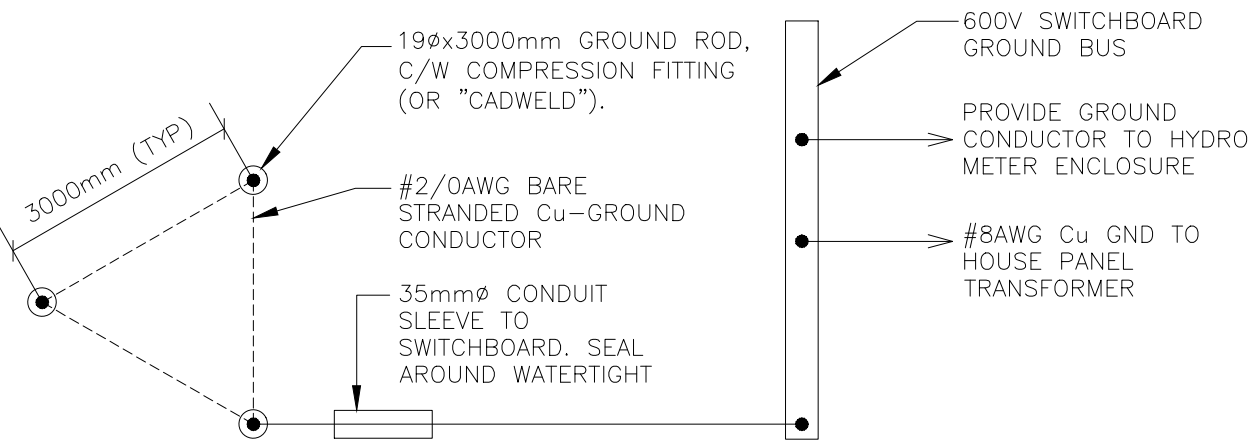
SLD FOR PRELIMINARY DISCUSSION ONLY



POWER CABLE SCHEDULE	
PC01	PRIMARY CABLE TO BE SUPPLIED AND INSTALLED BY ALECTRA UTILITIES IN UNDERGROUND DUCTBANK TO TRANSFORMER.
800A	9C#500MCM + 3C#500MCM NEUTRALS (3/PHASE), AL, RWU90, IN U/G DUCTBANK (OESC DIAGRAM D11, DETAIL #3)

NOTES:	
1	CONTRACTOR TO COORDINATE WORK WITH LUC (ALECTRA UTILITIES) ACCORDINGLY AND ARRANGE FOR NEW SERVICE. THE FOLLOWING EQUIPMENT WILL BE SUPPLIED, INSTALLED, OWNED AND MAINTAINED BY THE LUC: - PAD MOUNT TRANSFORMER. - PRIMARY CABLES AND TERMINATIONS. - SECONDARY TERMINATIONS AT TRANSFORMER END ONLY SERVICE ENTRANCE WORK PROVIDED BY ELECTRICAL CONTRACTOR INCLUDES: - PRIMARY DUCTBANK TO PROPERTY LINE, AS PER ALECTRA UTILITIES'S STANDARDS. - SECONDARY SERVICE DUCTBANK, SECONDARY CABLES AND TERMINATION IN NEW SWITCHBOARD ON DEVELOPMENT PROPERTY. - NEW SERVICE SWITCHBOARD AND ASSOCIATED GROUND GRID TO ALECTRA UTILITIES' STANDARDS. - PAD MOUNTED TRANSFORMER VAULT, BOLLARDS AND GROUND GRID. - COORDINATE WORK WITH LUC'S (ALECTRA UTILITIES) REPRESENTATIVE.
2	EACH BUILDING SWITCHBOARD IS SUPPLIED AND INSTALLED BY OTHERS. COORDINATE LIMIT OF CONSTRUCTION DEMARCATION POINT WITH BUILDING CONTRACTOR. DUCTS ENTERING BUILDING ARE TO BE PROVIDED BY BUILDING CONTRACTOR. ENSURE CABLES ARE INSTALLED CONTINUOUSLY FROM TRANSFORMER TO SWITCHBOARD.
3	PROPOSED CABLES ARE SIZED BASED ON OESC DIAGRAM D11 AND TABLE D11A. CONTRACTOR IS PERMITTED TO RE-SIZE THE SECONDARY SERVICE CABLES BASED ON OESC RULING 4-004 1) e) AND f). REFER TO APPENDIX B IN THE OESC FOR FURTHER REQUIREMENTS. IF THE CONTRACTOR PROCEEDS WITH THIS METHOD OF RESIZING THE SECONDARY SERVICE CABLES, SUBMIT THE FOLLOWING AS A SHOP DRAWING: - SUBMIT SUPPORTING CALCULATIONS, AS OUTLINED IN THE OESC. - SUBMISSION MUST BE STAMP BY A PROFESSION ENGINEER IN ONTARIO. - IDENTIFY THE COST SAVINGS IN THE TENDER FORM, NOTED UNDER "COST SAVING".

ALL TRANSFORMERS WILL BE OWNED AND MAINTAINED BY ALECTRA UTILITIES



1
E5.1

PROPOSED SINGLE LINE DIAGRAM: 600V/347V, 3-PHASE

2
E5.1

TYP., GROUND GRID DETAIL

- NTS, DIMENSIONS SHOWN IN mm
- ONLY MAIN ELECTRICAL EQUIPMENT SHOWN
- TYPICAL GROUND GRID FOR EACH BUILDING

DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.	BENCHMARKS	NOTES	No.	REVISION DESCRIPTION	DATE	ENGINEER STAMP	60 DEAN AVENUE, BARRIE SITE PLAN ELECTRICAL SLD	TATHAM ENGINEERING DESIGN: RSB DRAWN: RSB CHECK: DL FILE: 125008 DATE: MAR 2025 DWG: E5.1		
			1.	ISSUED FOR COORDINATION	FEB 21/25					
			2.	ISSUED FOR COORDINATION	FEB 26/25					
			3.	ISSUED FOR SUBMISSION	MAR 05/25					



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			1.	ISSUED FOR COORDINATION	FEB 21/25					
			2.	ISSUED FOR COORDINATION	FEB 26/25					
			3.	ISSUED FOR SUBMISSION	MAR 05/25					