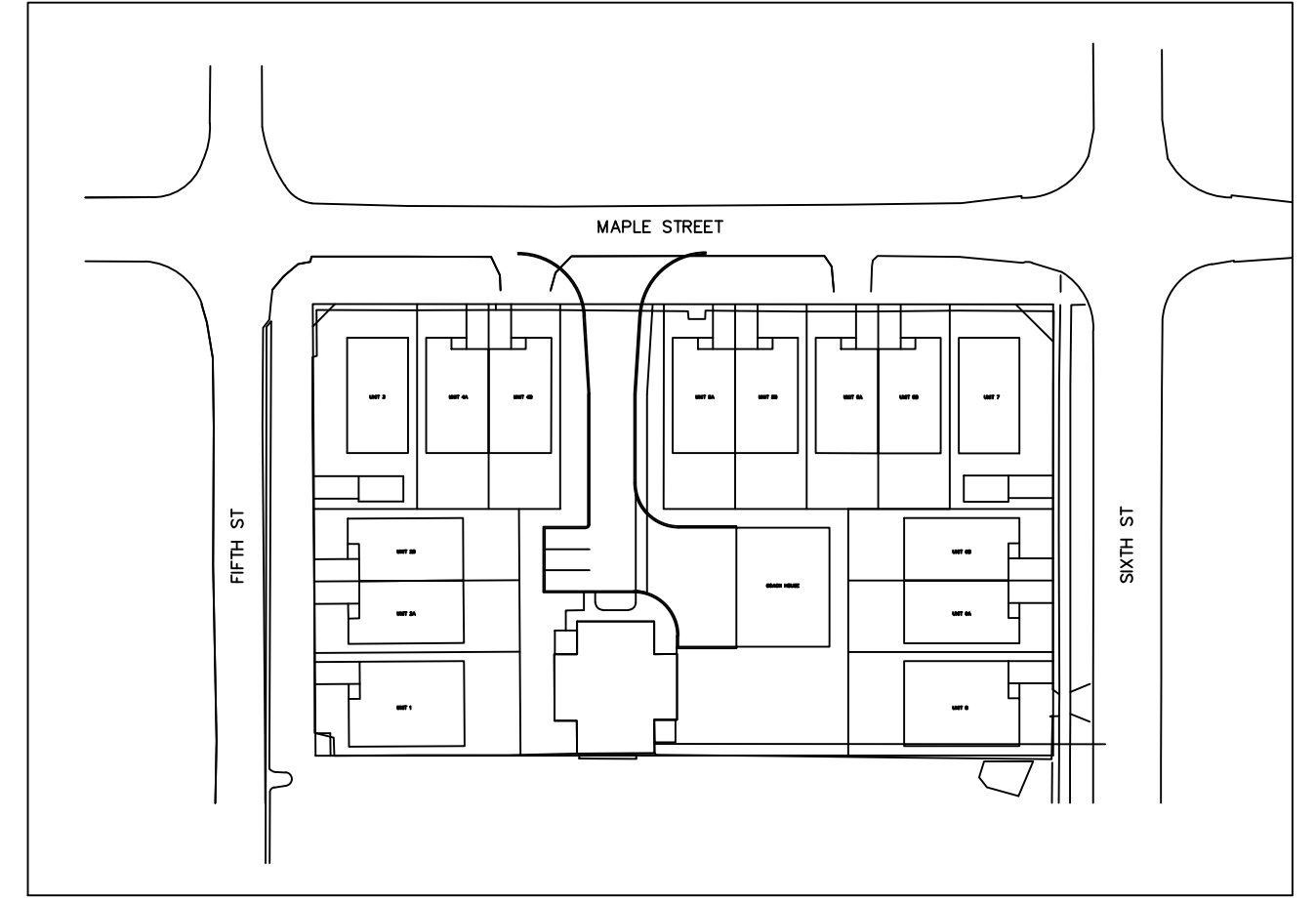
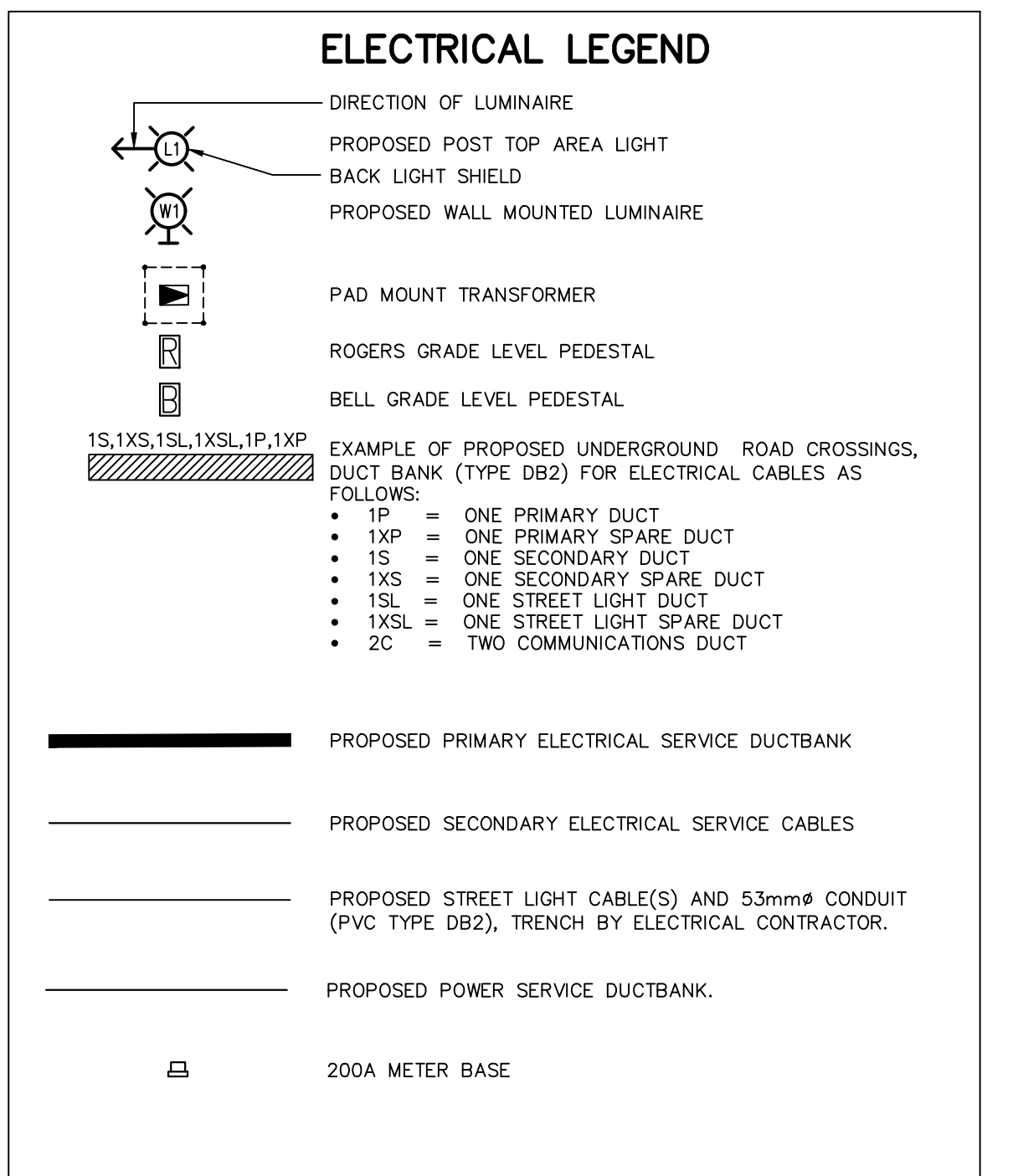


PRIMARY CABLE DESCRIPTION	INSTALLATION
PC01 FUTURE PRIMARY FEEDER CABLES: 10#1/0 AWG Cu CLASS B STRANDED, 15kV RATED, TRXLPE, 100% CONCENTRIC NEUTRAL, IN UNDERGROUND DUCTBANK, COMPLIES WITH CSA C68.3, LATEST ISSUE.	2-103mmØ TYPE DB2 DIRECT BURIED DUCT(S) (1-SPARE) WITH SAND BEDDING ALL AROUND.
PC02 3Ø#4/0, AL TYPE USE90, CLASS 'B' STRANDED, 600V RATED, 2-CONDUCTOR + 100% NEUTRAL, XLPE INSULATION PVC JACKET	1-103mmØ TYPE DB2 DIRECT BURIED DUCT(S) WITH SAND BEDDING ALL AROUND.

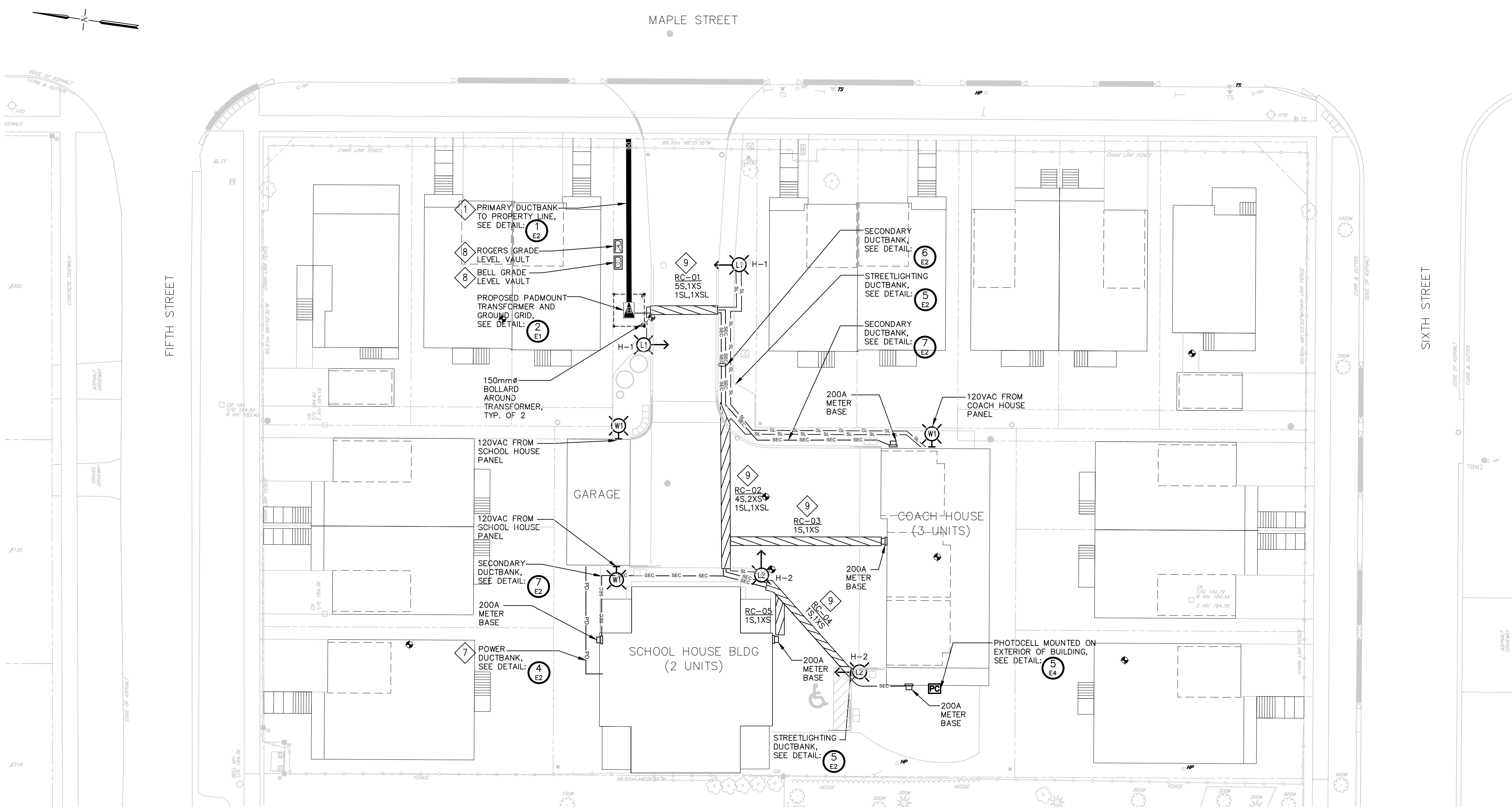
2 SINGLE LINE DIAGRAM - 120/240V
E1 - NTS



KEYPLAN n.t.s



- NOTES:**
- ALL PRIMARY AND SECONDARY CABLE TERMINATIONS INSIDE EACH TRANSFORMER WILL BE PERFORMED BY EPCOR.
 - ELECTRICAL SERVICE TO EACH UNIT: 200AMP MAX., 120/240VAC, 1-PHASE, 60Hz.
 - ALL EQUIPMENT AND CABLES TO BE OWNED AND OPERATED BY EPCOR.
 - SECONDARY CABLES TO INCLUDE CONCRETE ENCASE AND 103mmØ TYPE DB2 DUCT FOR EACH CABLE AT ALL ROAD CROSSINGS.
 - REFER TO EPCOR GENERAL CONTRACTOR INFORMATION, AS PROVIDED ON THEIR WEBSITE: www.epcor.com
 - CONTRACTOR TO COORDINATE CONNECTION OF DUCTBANK AT PROPERTY LIMITS WITH EPCOR.
 - CONTRACTOR TO PROVIDE POWER FEED FROM SCHOOL HOUSE BUILDING TO GARAGE BUILDING FOR LIGHTING AND EXTERIOR POWER LOADS.
 - COMMUNICATION VAULTS SHOWN FOR SITE PLAN APPROVAL LOCATIONS ONLY. CONTRACTOR TO COORDINATE WITH COMMUNICATIONS PROVIDERS FINAL LOCATION.
 - ROAD CROSSING DO NOT INCLUDE COMMUNICATION DUCTBANKS. CONTRACTOR TO COORDINATE WITH BOTH COMMUNICATION PROVIDERS DUCTBANK REQUIREMENTS.



1 ELECTRICAL SITE PLAN - ELECTRICAL POWER LAYOUT
E1 - SCALE 1:250. DIMENSIONS SHOWN IN MILLIMETERS (mm).

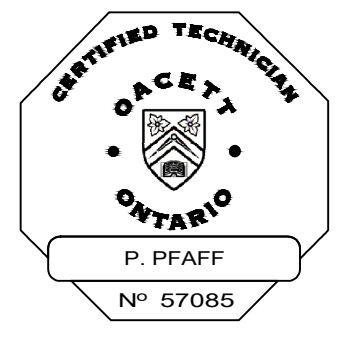
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43 Stewart Road,
Collingwood, Ontario
L9Y 3Z5

ACCEPTED FOR CONSTRUCTION EPCOR

per

Date:



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1	ISSUED FOR PRELIMINARY REVIEW	16/11/20	SRT
2	ISSUED FOR SITE PLAN APPROVAL	19/11/20	SRT
3	ISSUED FOR EPCOR APPROVAL	19/11/20	SRT
3	SECOND SUBMISSION TO TOWN	09/04/21	SRT

RUNGE ENGINEERING

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f: (705) 446-3588
www.rungeengineers.ca

Client
VICTORIA ANNEX DEVELOPMENT

Project Name
VICTORIA ANNEX DEVELOPMENT TOWN OF COLLINGWOOD ONTARIO

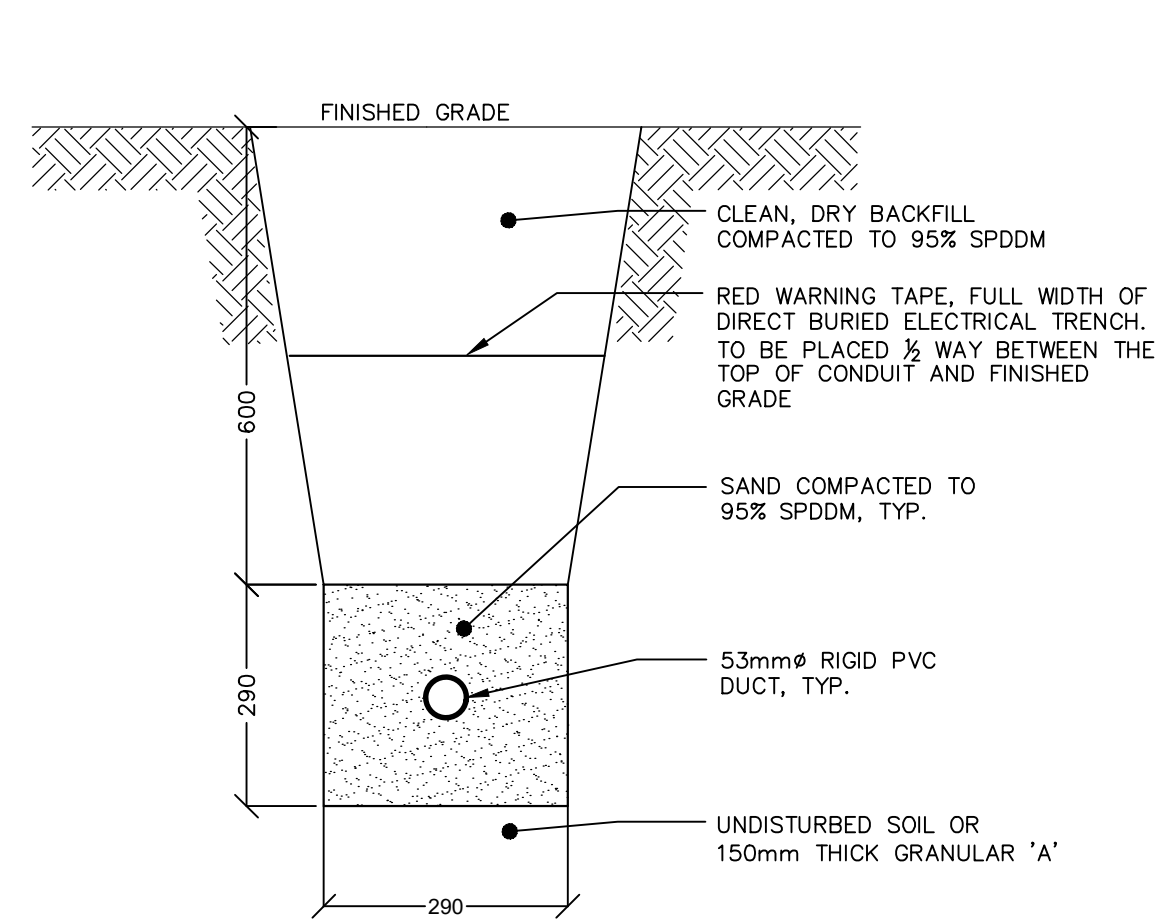
Drawing Title
SITE PLAN ELECTRICAL & LIGHTING LAYOUT

Drawn By
R.J.W.

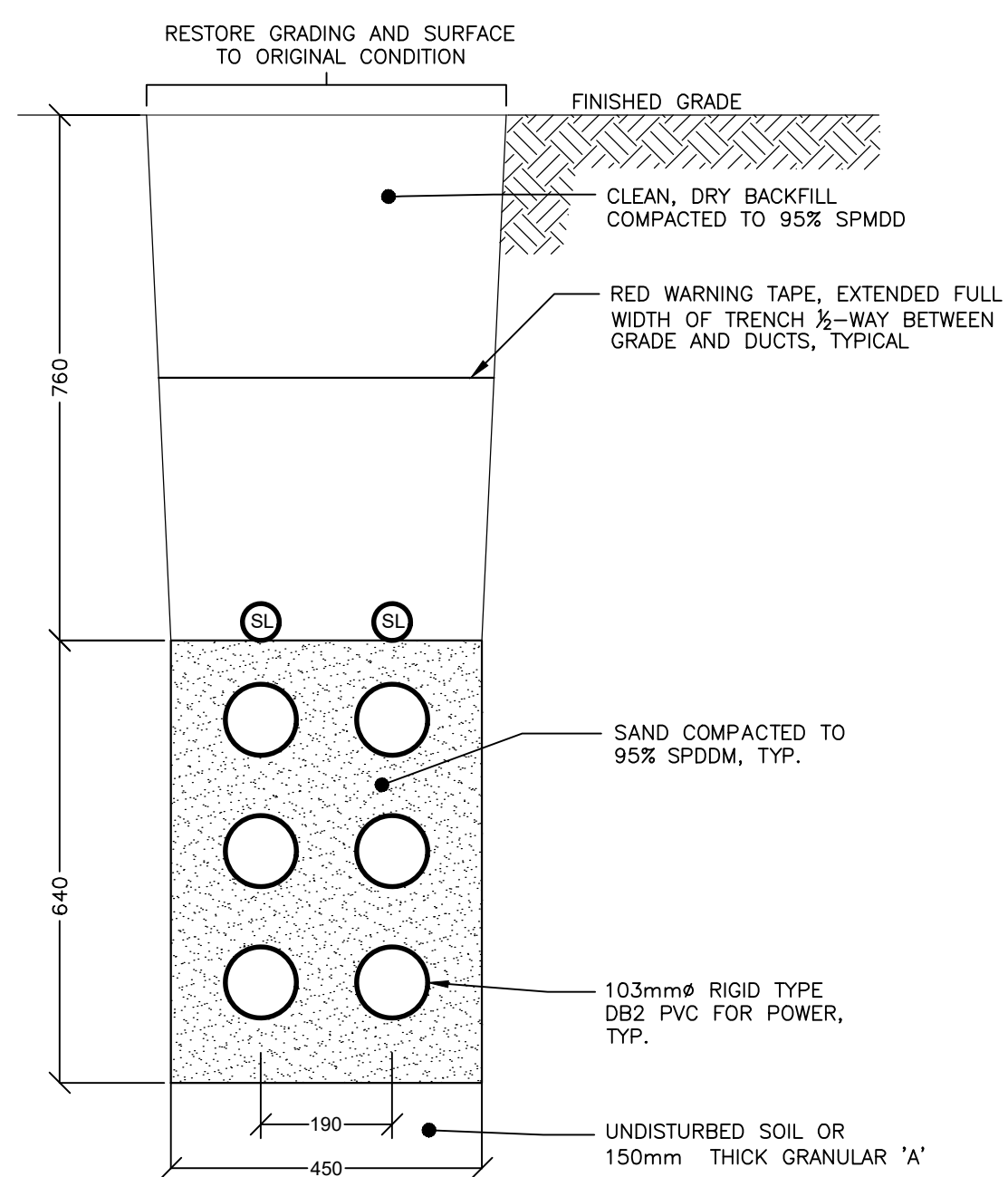
Checked By
G.G.R.

Project No.
20159P

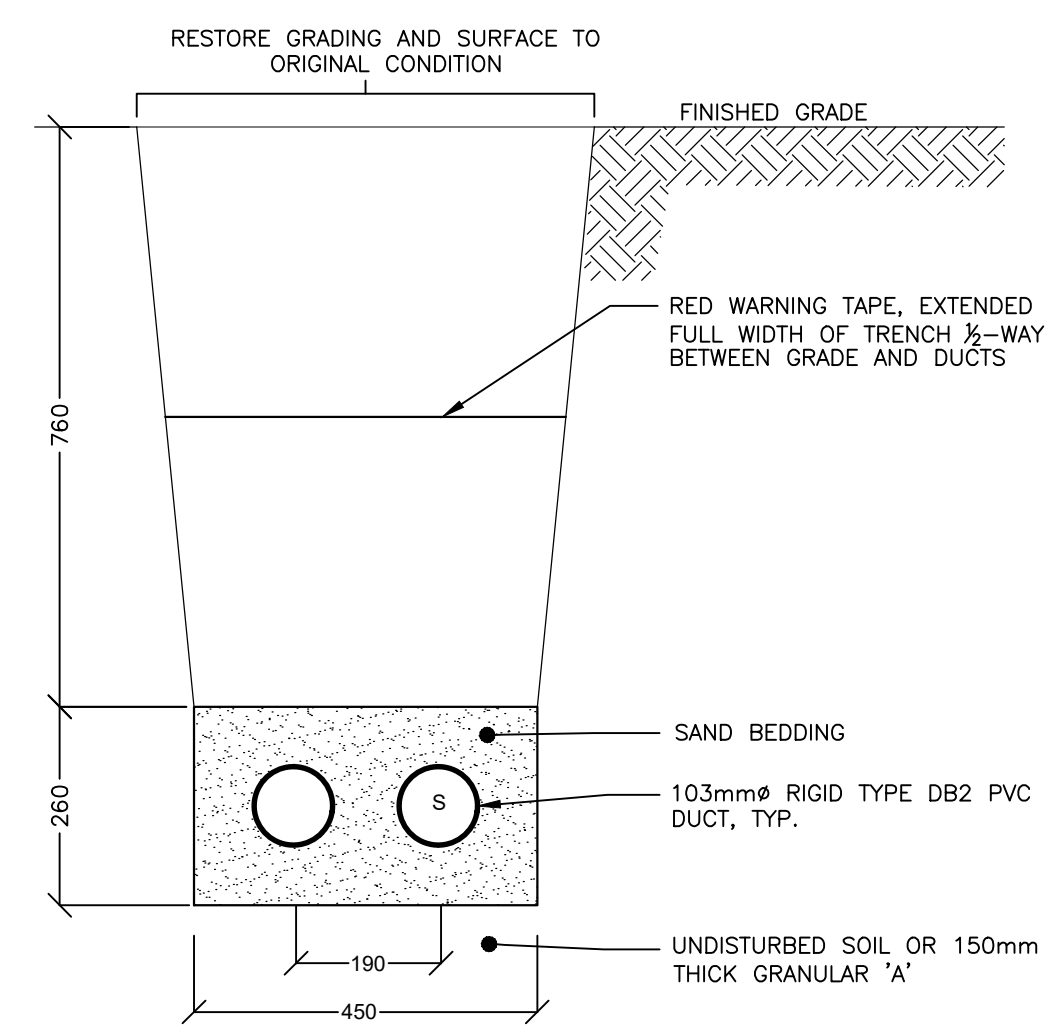
Drawing No.
E1



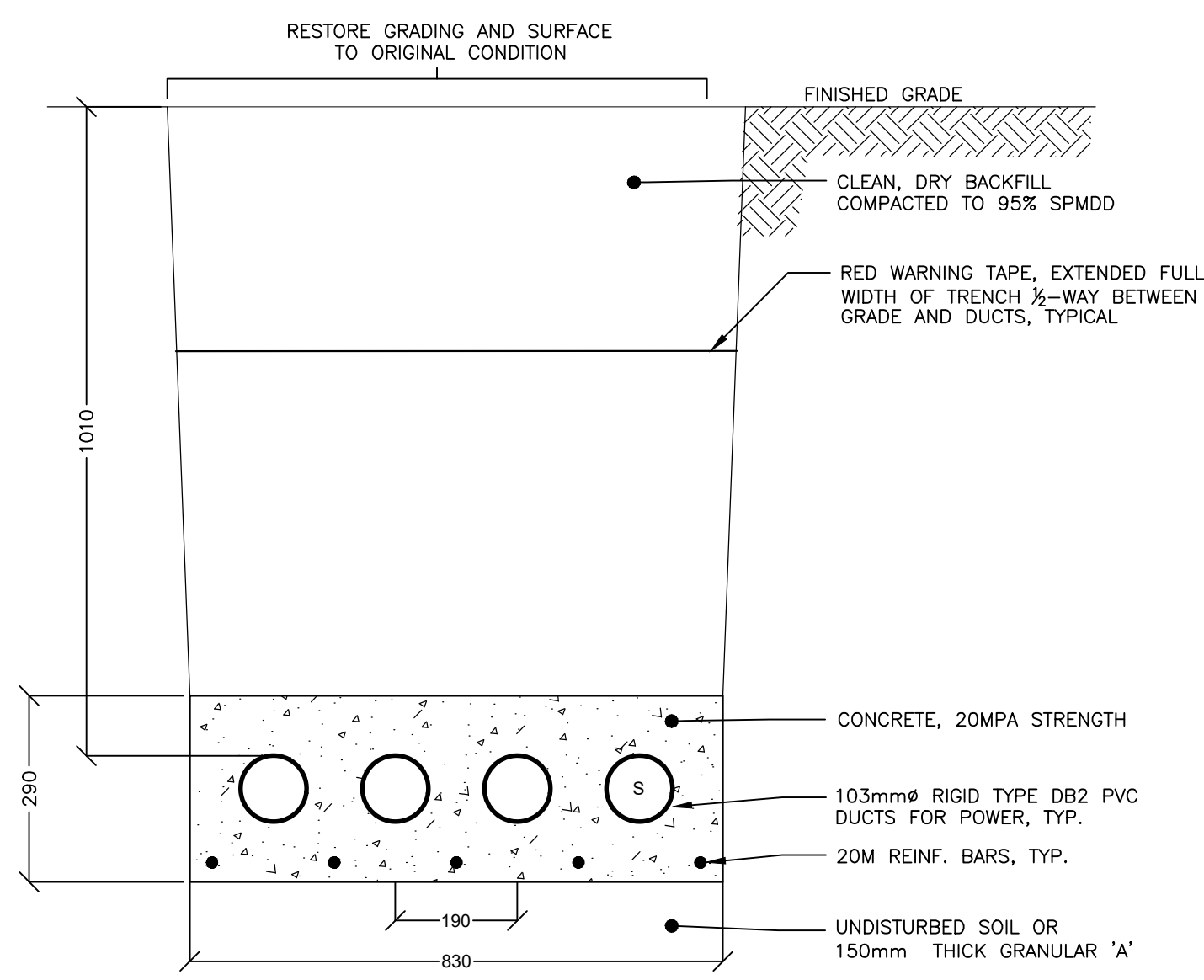
5 LIGHTING AND POWER DUCTBANK
- NTS 1



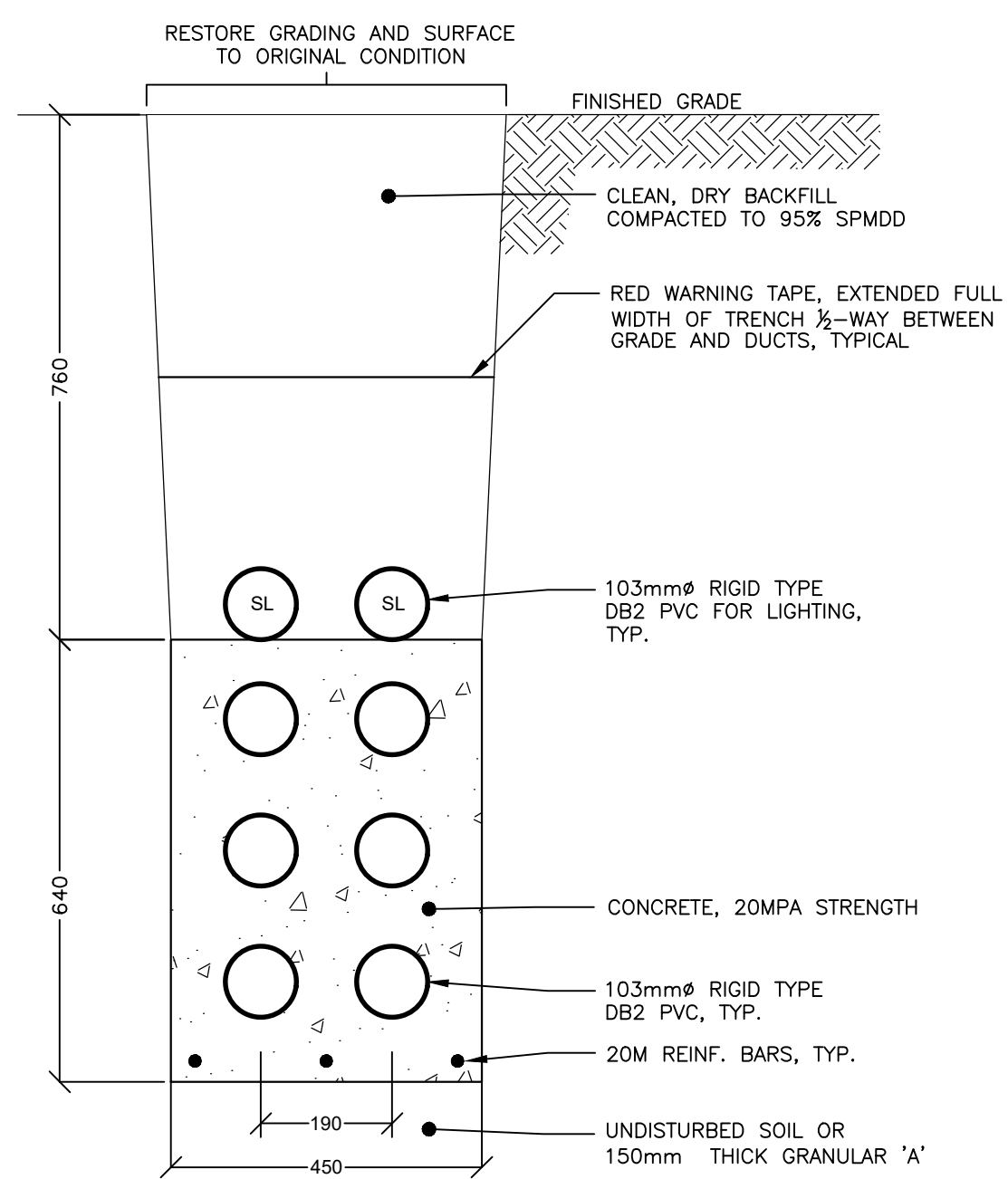
6 SECONDARY DUCTBANK
- NTS 1



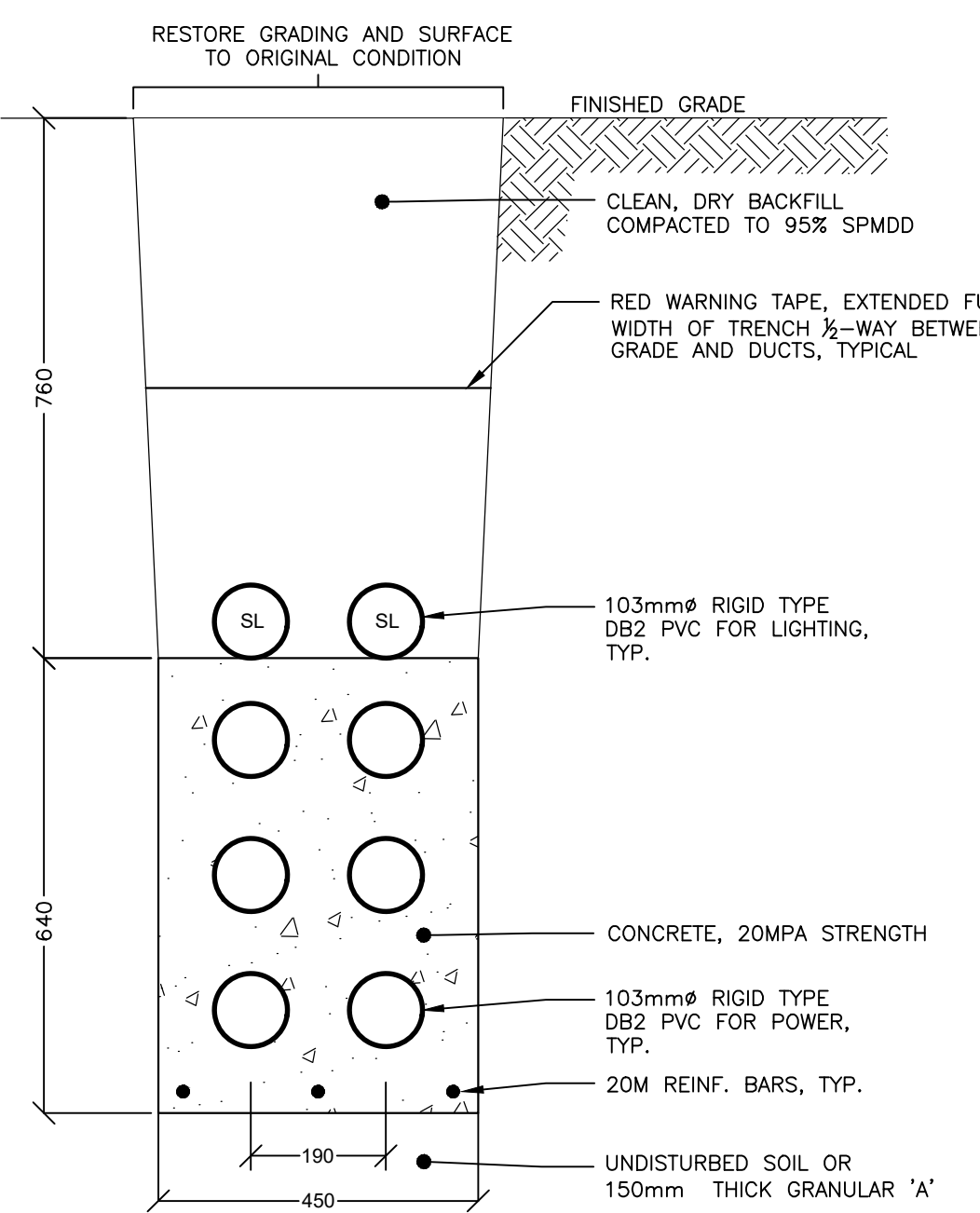
7 SECONDARY DUCTBANK
- NTS 1



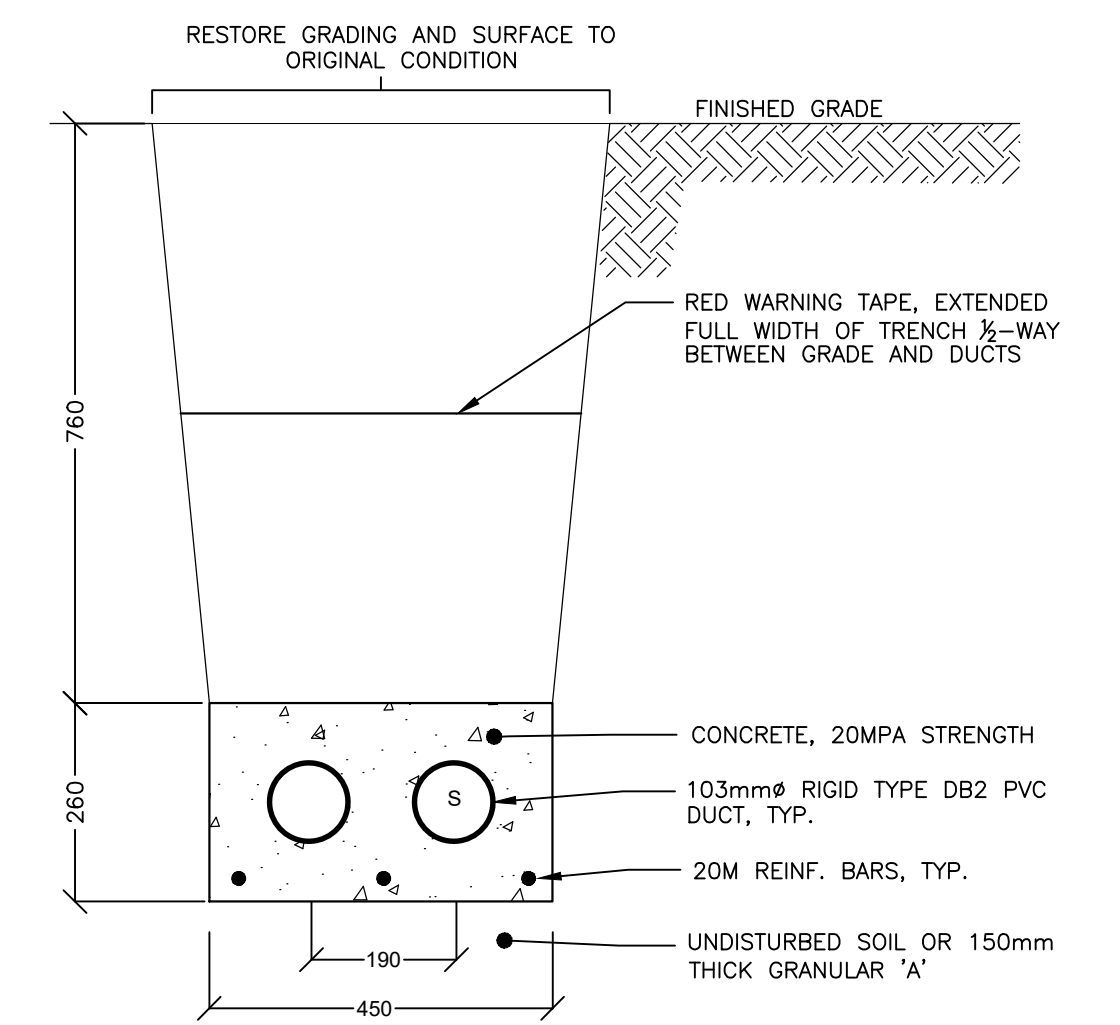
1 PRIMARY & COMMUNICATION DUCTBANK
- NTS 1



2 RC-01 ROAD CROSSING DUCTBANK
- NTS 1



3 RC-02 ROAD CROSSING DUCTBANK
- NTS 1

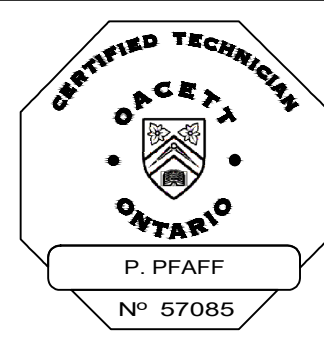


4 RC-03, RC-04 & RC-05 ROAD CROSSING DUCTBANK
- NTS 1

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Collingwood, Ontario
L9Y 3Z5

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CONSTRUCTION
EPCOR
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Date:



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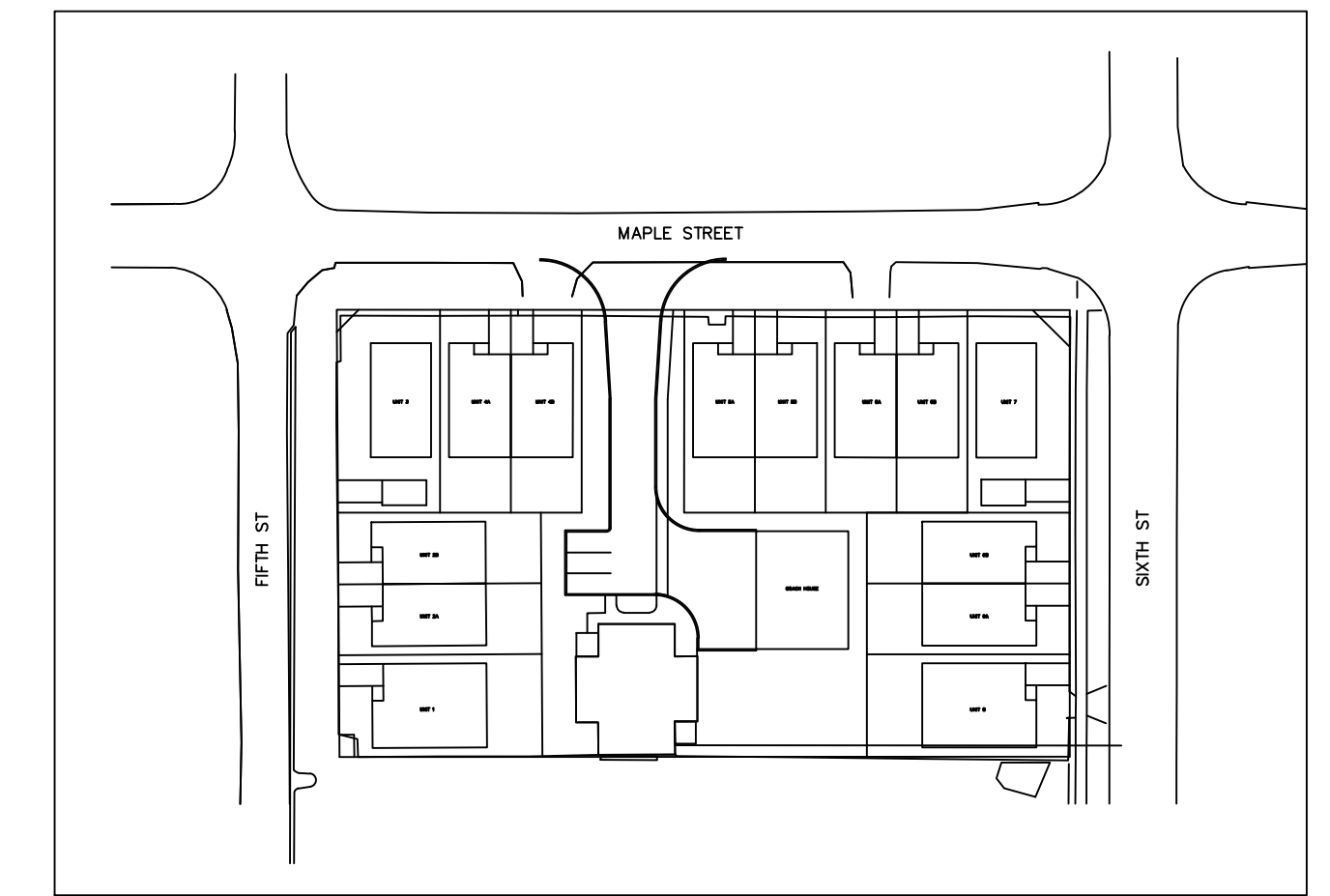


Client
VICTORIA ANNEX DEVELOPMENT

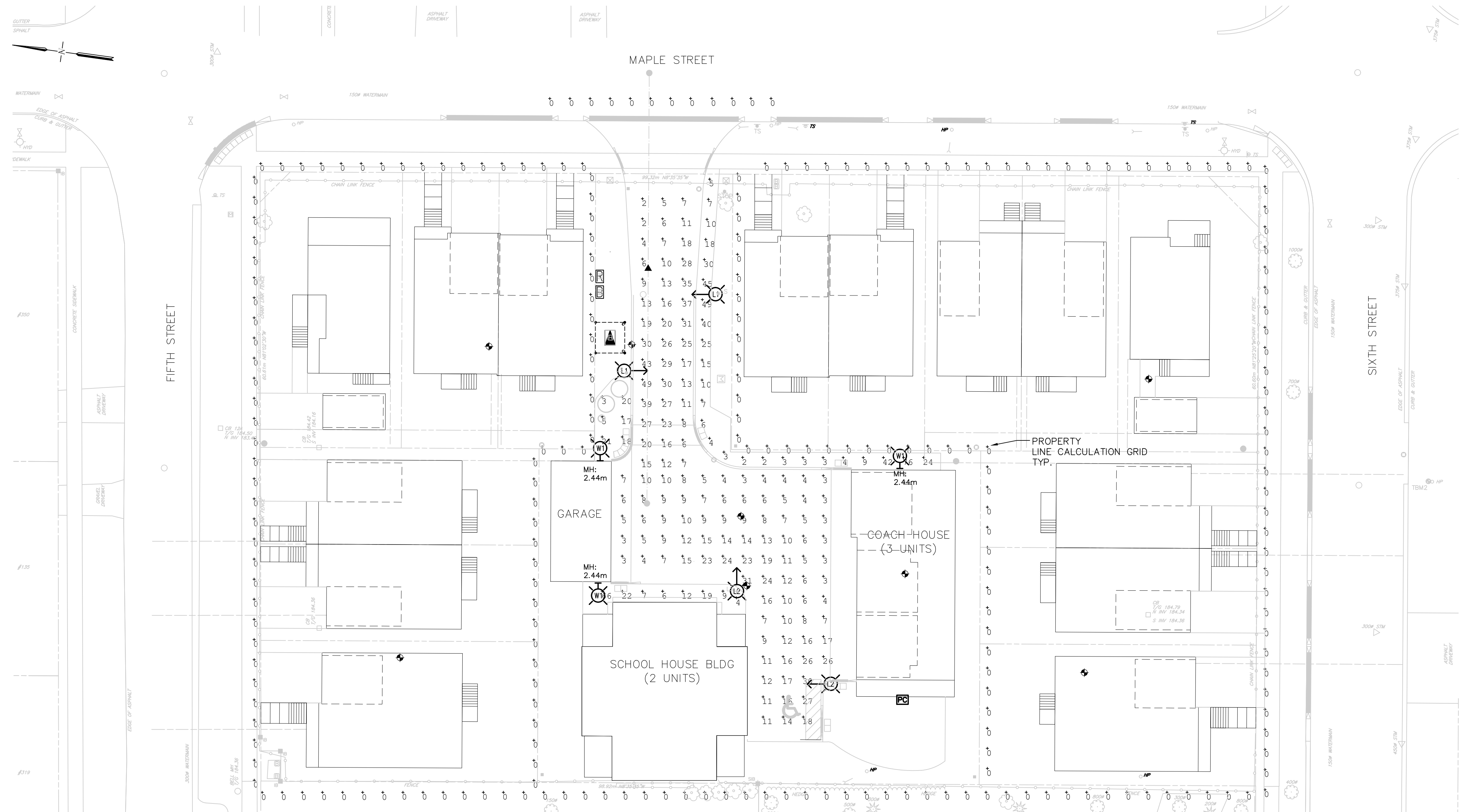
Project Name
VICTORIA ANNEX DEVELOPMENT
TOWN OF COLLINGWOOD
ONTARIO
Drawing Title
DUCTBANK DETAILS &
STREETLIGHT POWER PEDESTAL
Drawn By
R/WJ
Scale
Checked By
GGR
Project No.
20158P
Drawing No.
E2

Luminaire Schedule								
Symbol	Qty	Label	Arr.	Watts	lumens	LLF	Description	BUG Rating
	2	L1	SINGLE	36	3500	0.870	HCI-36LED-II-M--4-HSS-2x60D	B1-U0-G1
	2	L2	SINGLE	36	3090	0.870	HCI-36LED-IV-S-4-HSS-2x60D	B0-U0-G1
	3	W1	SINGLE	19	2649	0.435	SWP-2L-U-40-BRZ	B1-U0-G0

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	
01 Entrance	Illuminance	Lux	0.0	0	0	N.A.	
01 Entrance Road	Illuminance	Lux	18.4	49	2	9.2	
02 Parking	Illuminance	Lux	10.4	31	3	3.5	
03 Sidewalk 1	Illuminance	Lux	17.7	76	2	8.8	
03 Sidewalk 2	Illuminance	Lux	18.1	66	4	4.5	
04 Property Line East	Illuminance	Lux	0.0	0	0	N.A.	
04 Property Line Overall	Illuminance	Lux	0.0	0	0	N.A.	
04 Property Line West	Illuminance	Lux	0.0	0	0	N.A.	
05 Garbage Collection Area	Illuminance	Lux	14.0	21	3	4.7	



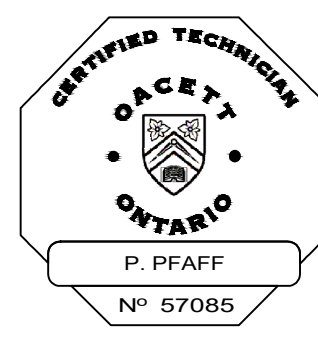
KEYPLAN n.t.s



1 ELECTRICAL SITE PLAN - PHOTOMETRIC LAYOUT
E3 - SCALE 1:250. DIMENSIONS SHOWN IN MILLIMETERS (mm).

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Date:

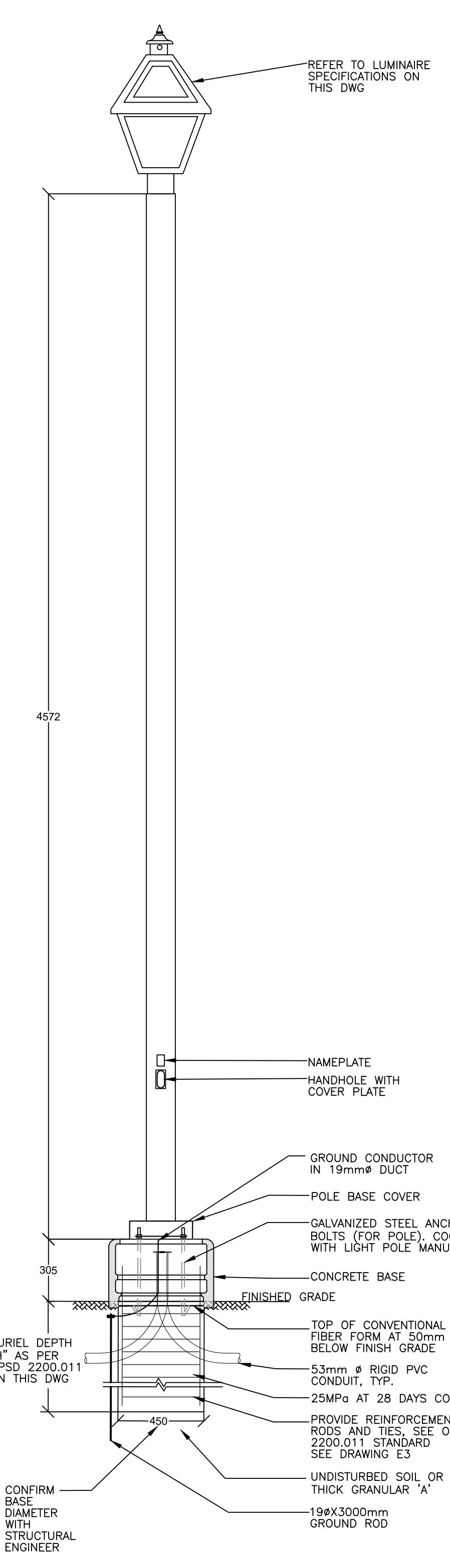


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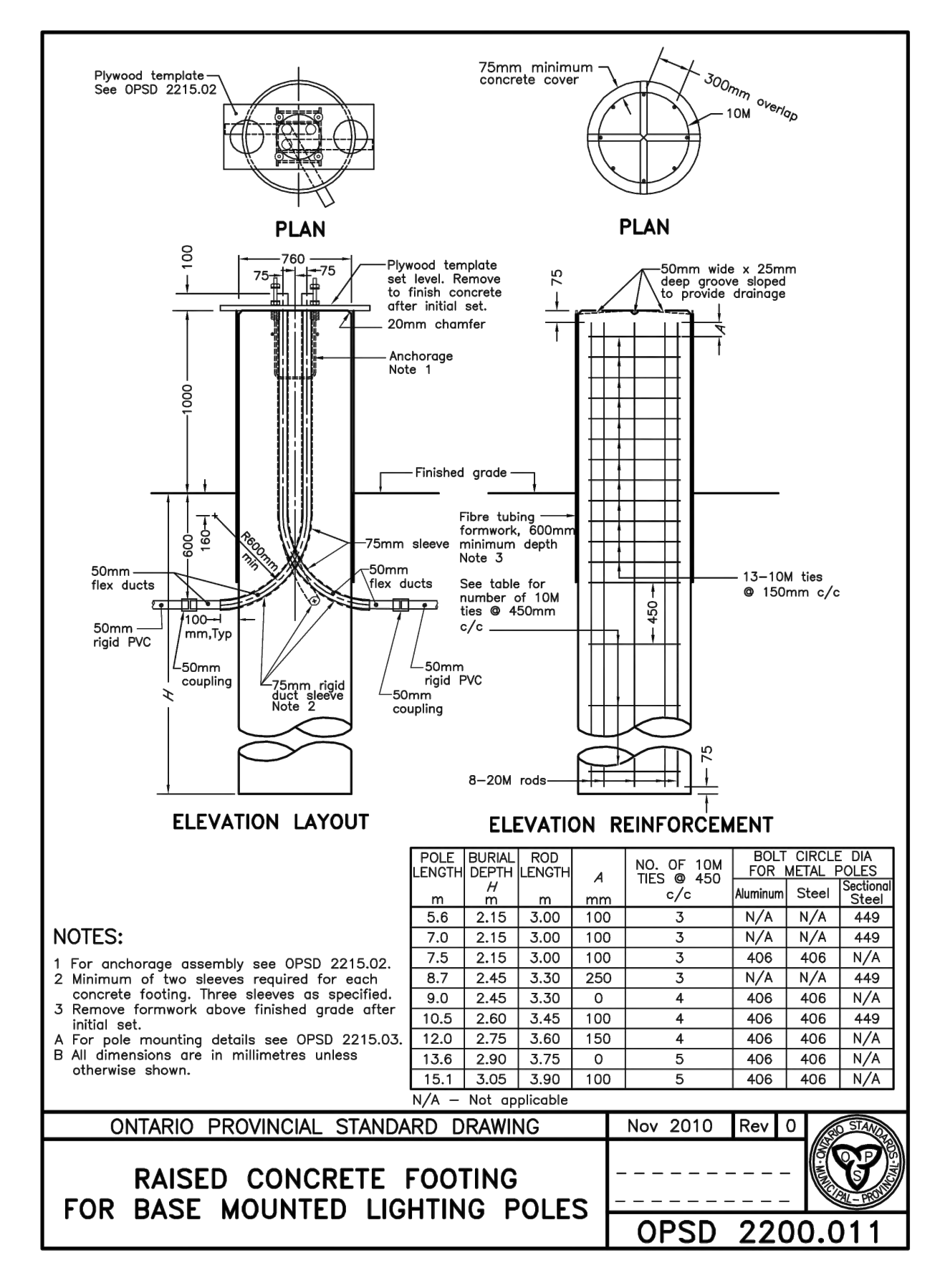
RUNGE ENGINEERING
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Collingwood, ON L9Y 3Z7
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f: (705) 446-3588
www.rungeengineers.ca

Client: VICTORIA ANNEX DEVELOPMENT
Project Name: VICTORIA ANNEX DEVELOPMENT TOWN OF COLLINGWOOD ONTARIO
Drawing Title: LIGHTING PHOTOMETRICS LAYOUT
Drawn By: RJW
Scale:

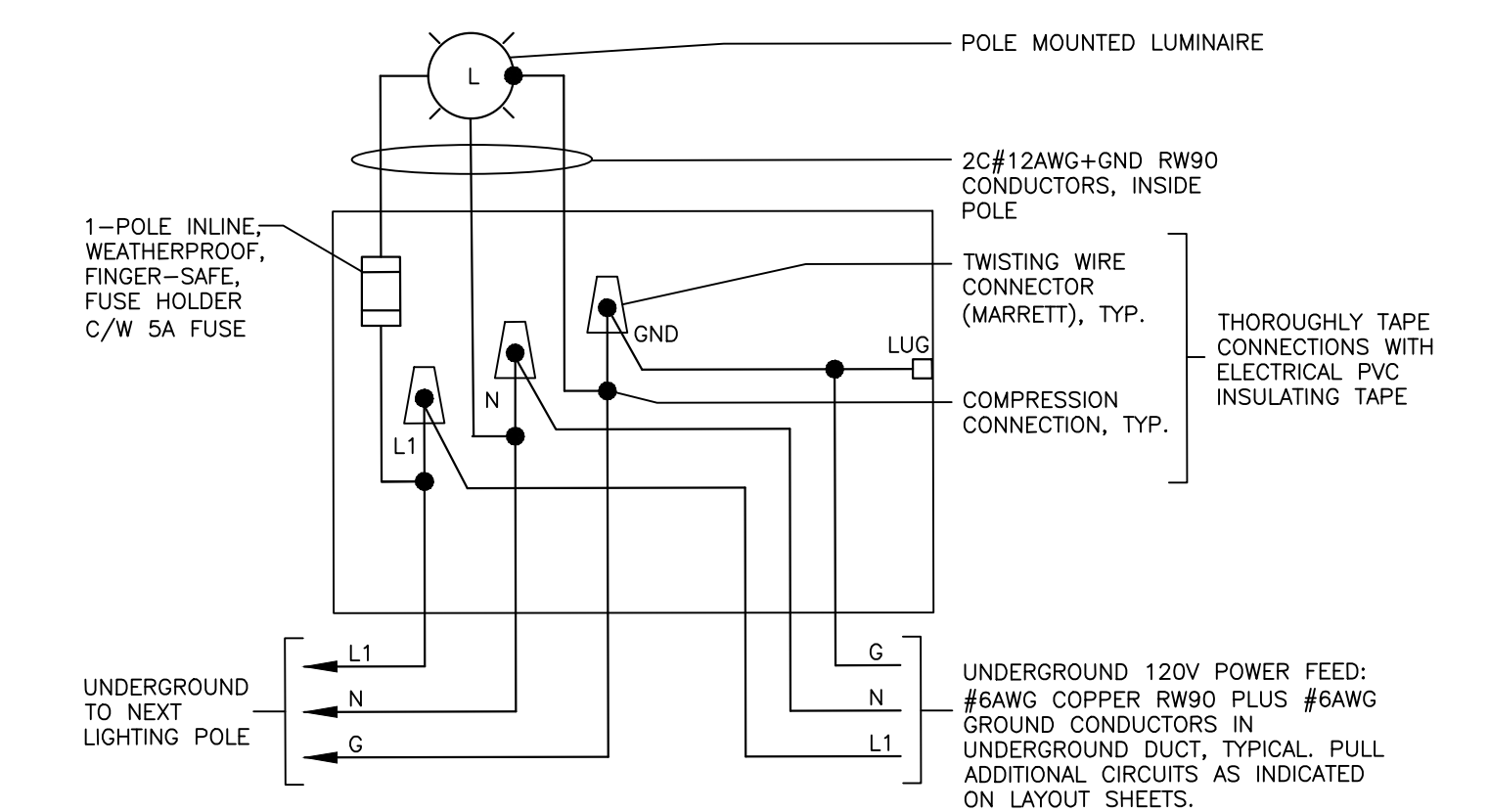
Checked By: GGR
Project No: 20159P
Drawing No: E3



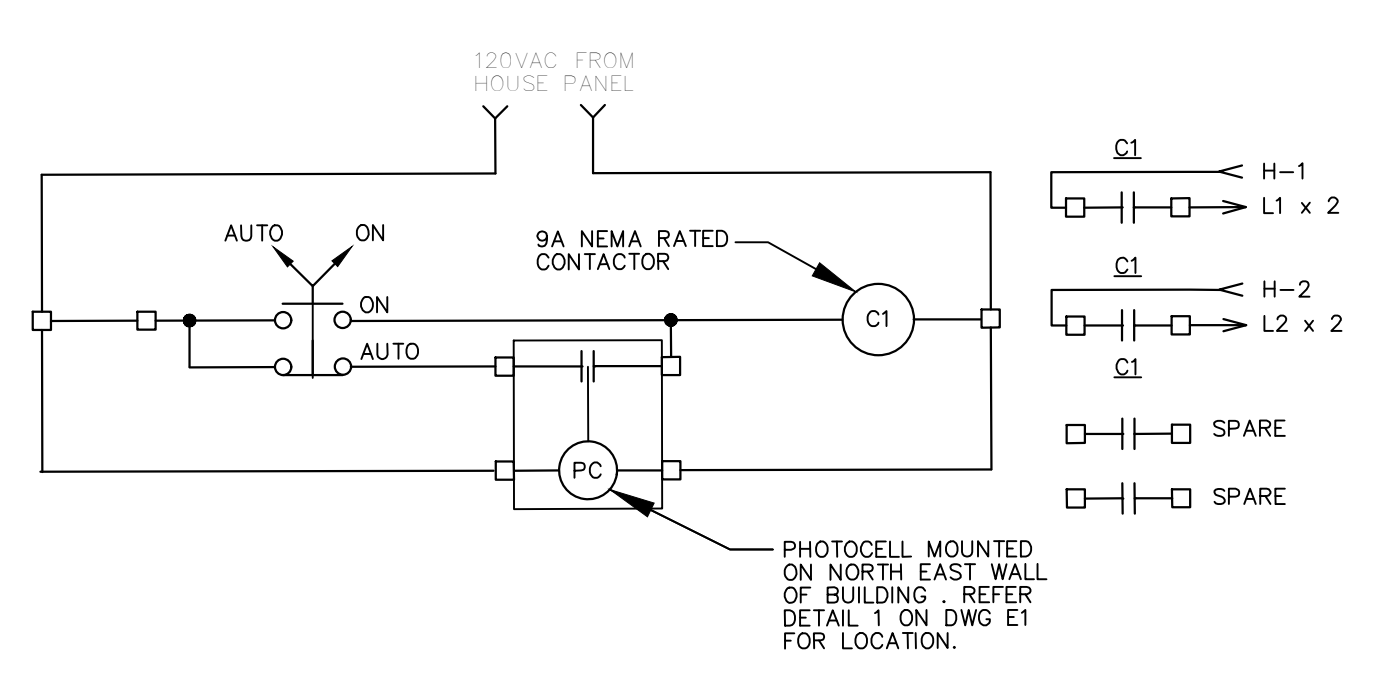
1 L1 & L2 LUMINAIRE AND POLE INSTALLATION DETAIL
- NTS, DIMENSIONS SHOWN IN MILLIMETERS (mm).



2 OPSD 2200.011 RAISED CONCRETE FOOTING STANDARD
- NTS, DIMENSIONS SHOWN IN MILLIMETERS (mm).
- CONTRACTOR TO VERIFY 450mm CONCRETE BASE IS STRUCTURALLY SUITABLE FOR MOUNTING OF PROPOSED POLE AND LUMINAIRE.



3 TYPICAL WIRING DETAIL FOR STREET LIGHT
- NTS



4 TYPICAL "OUTDOOR" LIGHTING PHOTOCELL CONTROL WIRING DIAGRAM
- NTS, PROVIDE ENCLOSURE TO SUIT CONTROL DEVICES
- DETAIL FOR EXTERIOR LIGHTING BEING SUPPLIED FROM BEACH HOUSE PANEL HH-1
- SIMILAR DETAIL FOR EXTERIOR LIGHTING BEING SUPPLIED FROM SCHOOL HOUSE HH-2.

Project Name: _____ Part Number: _____ Type: _____

VS VALUE SLIM WALL PACK
LED SLIM PROFILE WALL PACK

FEATURES

- Low profile die-cast aluminum housing
- Bronze polyester powder coat finish (std.)
- Custom and factory select colors available*
- Isolated optical compartment with tempered glass lens and silicone gaskets
- 90° adjustable Type IV distribution or Optional IDA fixed mode†
- Quick mount bracket standard for easy surface mount installation
- Three 1/2" coin plugs on side for conduit or electronic photocell
- 120-277V Universal Voltage or 347V-480V High Voltage‡
- 0-10V Dimmable Driver (std.)
- Deep box 10W CEC Title 20 compliant battery backup & cold weather battery†
- Optional Field Adjustable Output device (FAO) allows individual luminaire lumen output control
- 3000K, 4000K & 5000K CCT Selectable via Integral selector
- >70 Color Rendering Index (CRI)
- Calculated L70 >100,000 hrs @ 25°C per TM-21-11
- IP65 Rated Luminaire
- 5 Year Warranty
- ETL Listed for Wet Locations
- DesignLights Consortium® Premium Qualified Luminaire

SUITABLE APPLICATIONS

- Pedestrian Walkways
- Building Entrances
- Storage Facilities
- Multi-use Facilities
- Institutions
- Schools
- Industrial Facilities
- Parking Lots
- Loading Docks

ORDERING GUIDE: W1 - SWP-2L-U-4000K-BLK-SP2-IDA-SWP-FAO10V-SWP-BPS-BLK-PCU

SERIES	LUMENS	DRIVER	CCT	FINISH
SWP Value Slim Wall Pack	2L	U 120-277V	CCTS Selectable CCT (3000K, 4000K, 5000K)	BRZ Bronze
	3L	U 120-277V	CCTS Selectable CCT (3000K, 4000K, 5000K)	BLK Black
	3L	U 120-277V	CCTS Selectable CCT (3000K, 4000K, 5000K)	WHY White
	3L	U 120-277V	CCTS Selectable CCT (3000K, 4000K, 5000K)	SLV Silver

QUICK SHIP ITEMS:

SERIES	LUMENS	DRIVER	COLOR	FINISH
SWP Value Slim Wall Pack	2L	U 120-277V	CCTS Selectable CCT (3000K, 4000K, 5000K)	BRZ Bronze
	3L	U 120-277V	CCTS Selectable CCT (3000K, 4000K, 5000K)	BLK Black
	3L	U 120-277V	CCTS Selectable CCT (3000K, 4000K, 5000K)	WHY White
	3L	U 120-277V	CCTS Selectable CCT (3000K, 4000K, 5000K)	SLV Silver

2 LUMINAIRE AND POLE CATALOGUE SHEETS
- NTS, DIMENSIONS SHOWN IN MILLIMETERS (mm).

LUMINAIRES

PRODUCT TECHNICAL DATA SHEET

L1 & L2

SL20-LED SERIES

L1 - SL20-36W (3636im)-4000K-120V-II(2)-DIM-FUS-9011 BLACK

L2 - SL20-36W (3636im)-4000K-120V-IV(2)-DIM-FUS-9011 BLACK

INCLUDE BACKLIGHT SHIELD ON BOTH L1 AND L2

PHOTOMETRICS

Length: 20", Width: 20", Height: 8", Weight: 4.7 lbs, Luminaire Size: 3" (W x H), EPA: 3.20 ft²

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Approval Drawing

Pole Material: 05" O.D. x .226 wall extruded aluminum welded to aluminum base plate.

Base Cover: Two piece square cast aluminum base cover attached to pole with stainless steel screws.

Anchor Bolts: 4 galvanized 19mm (3/4") x 609.6mm (24") long. Anchor bolts and template are supplied by HCL (B.C. 8.5)

Finish: Electrostatically applied, thermoset polyester powder-coat finish.

Colour: Black RAL9011.

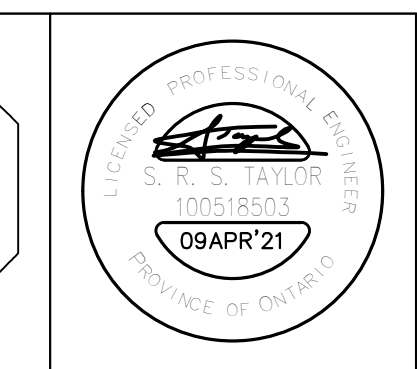
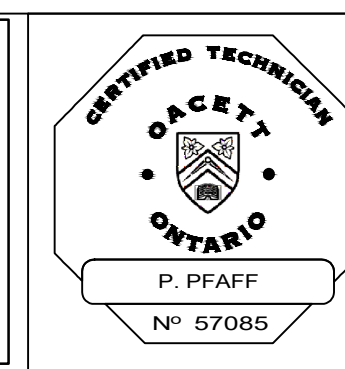
SALES: KIM
DESIGNER: HOWARD
Date: NOV 6, 2020 Drawing No: 13225-V1 Model: P424-2-SPC-15-RAL9011
Project: Victoria Annex Development
Rep: RUNGE

HCI
1280 Fawcett Drive, Mississauga, Ontario, Canada L4W 1A4
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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Client: VICTORIA ANNEX DEVELOPMENT

Project Name: VICTORIA ANNEX DEVELOPMENT TOWN OF COLLINGWOOD ONTARIO

Drawing Title: INSTALLATION DETAILS

Drawn By: RJW
Scale: _____

Checked By: GGR
Project No: 20159P

Drawing No: E4