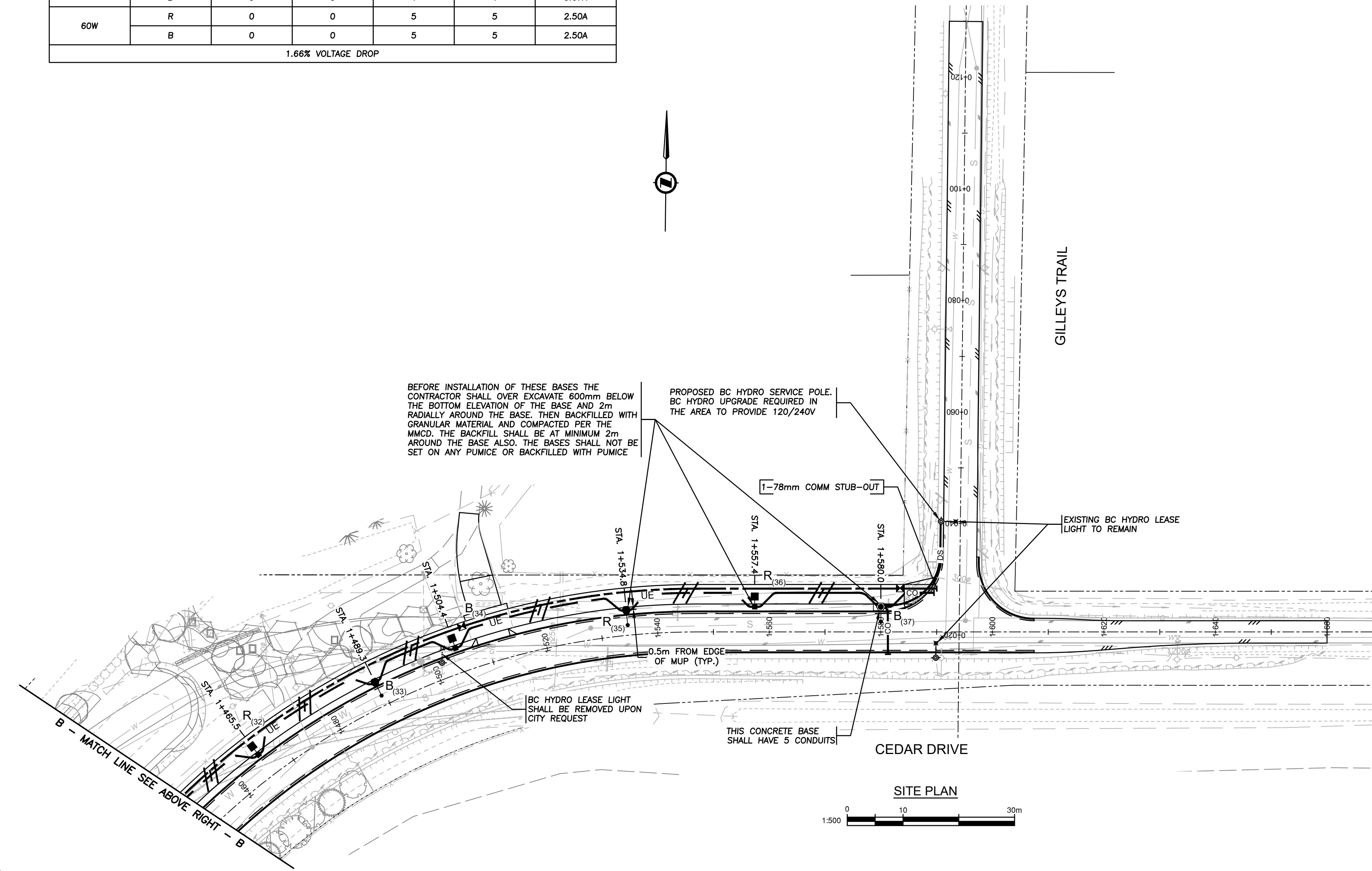
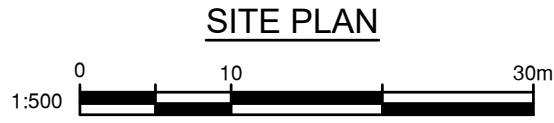


120V SERVICE LOAD (NEW 40A-120/240V SERVICE BASE NEAR GILLEYS TRAIL ON CEDAR DRIVE)						
WATTAGE (W)	CCT.PHASE	EXISTING	REMOVED	NEW	TOTAL No. OF LIGHTS	CURRENT(A)
20W	R	0	0	5	5	0.83A
	B	0	0	4	4	0.67A
60W	R	0	0	5	5	2.50A
	B	0	0	5	5	2.50A
1.66% VOLTAGE DROP						



WALKWAY LIGHTING DESIGN CRITERIA PER: (CITY BYLAW 3558)			
WALKWAY (NAME)		MULTI-USE PATHWAY	
WALKWAY CLASSIFICATION		LOW**	
ILLUMINANCE RECOMMENDED/DELIVERED		2.0 LUX	3.8 LUX
UNIFORMITY RECOMMENDED/DELIVERED		10.0:1	4.7:1
LIGHT LOSS FACTOR		0.85	
SPACING (SINGLE SIDED)		25.0m ALTERNATING PEDESTRIAN AND STREETLIGHT	
EQUIPMENT			
FIXTURE TYPE: LED	WATTAGE: 60W/20W	MTG. HEIGHT: 7.5m/5.0m	DIST TYPE: 2ES
IES FILE:	NXT-36S-525mA-2ES-3000K NXT-12S-525mA-2ES-3000K	MODEL: NXT-36S/NXT-12S	

\* BASED ON THE WORST CASE SCENARIO  
\*\* CALCULATIONS BASED ON DIMMING. TOTAL PEDESTRIAN LIGHT (NXT-12S) OUTPUT REDUCED BY 40% (LUMENS REDUCED TO 60% OF MAX. OUTPUT)

ROADWAY LIGHTING DESIGN CRITERIA PER: (CITY BYLAW 3558)			
INTERSECTION (NAME)		CEDAR DRIVE	
LAND USE CLASSIFICATION		RESIDENTIAL	
ROADWAY CLASSIFICATION & WIDTH		LOCAL-6.6m	
PEDESTRIAN ACTIVITY		MEDIUM	
LUMINANCE RECOMMENDED/DELIVERED		0.5 cd/m²	0.6 cd/m²
UNIFORMITY RECOMMENDED/DELIVERED (AVG:MIN)		6.0:1	2.1:1
UNIFORMITY RECOMMENDED/DELIVERED (MAX:MIN)		10.0:1	3.7:1
LV RATIO RECOMMENDED/ DELIVERED (VLMAX:AVG)		0.4:1	0.3:1
LIGHT LOSS FACTOR		0.85	
SPACING		50.0m ONE-SIDED	
EQUIPMENT			
FIXTURE TYPE: LED	WATTAGE: 60W	MTG. HEIGHT: 7.5m	DIST TYPE: 2ES
IES FILE:	NXT-36S-525mA-2ES-3000K	MODEL: NXT-36S SERIES	

\* BASED ON THE WORST CASE SCENARIO  
\*\* BASED ON A 20 YEAR FIXTURE LIFE & 10 YEAR CLEANING CYCLE

WALKWAY LIGHTING DESIGN CRITERIA PER: (CITY BYLAW 3558)			
WALKWAY (NAME)		MULTI-USE PATHWAY	
WALKWAY CLASSIFICATION		MEDIUM	
ILLUMINANCE RECOMMENDED/DELIVERED		5.0 LUX	5.5 LUX
UNIFORMITY RECOMMENDED/DELIVERED		5.0:1	3.3:1
LIGHT LOSS FACTOR		0.85	
SPACING (SINGLE SIDED)		25.0m ALTERNATING PEDESTRIAN AND STREETLIGHT	
EQUIPMENT			
FIXTURE TYPE: LED	WATTAGE: 60W/20W	MTG. HEIGHT: 7.5m/5.0m	DIST TYPE: 2ES
IES FILE:	NXT-36S-525mA-2ES-3000K NXT-12S-525mA-2ES-3000K	MODEL: NXT-36S/NXT-12S	

\* BASED ON THE WORST CASE SCENARIO

NOT FOR CONSTRUCTION

2025-12-16

CAUTION!  
EXCAVATION NEAR OVERHEAD UTILITY POLE

ANY UNDERGROUND EXCAVATION WITHIN SOIL FOUNDATION INTERACTION AREA REQUIRES TEMPORARY UTILITY POLE SUPPORT. REFER TO ES55 E3-04 GUIDE FOR CIVIL EXCAVATION NEAR DISTRIBUTION POLES FOR DETAILS. REFER TO BC HYDRO WORK ON WOOD POLES MANUAL (ON SAFEHUB) AND BC HYDRO 2017-1-F POLE HOLDING REQUIREMENTS FOR APPROVED TEMPORARY POLE SUPPORT METHODS. FOR MORE INFORMATION CONTACT [workmethods@bchydro.com](mailto:workmethods@bchydro.com)

LOCATING EQUIPMENT

FOR CLARITY CONDUITS, JUNCTION BOXES AND STREETLIGHT POLES MAY NOT BE SHOWN AT DESIGN OFFSETS. CONTRACTOR SHALL LOCATE ALL EQUIPMENT BASED ON STATIONS AND/OR OFFSETS AS NOTED AND SHALL NOT RELY ON COORDINATES OBTAINED FROM DMD DIGITAL DRAWINGS. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING EQUIPMENT.

CHECK BEFORE YOU DIG

CONTRACTOR SHALL REFER TO MUNICIPAL RECORD / CIVIL DESIGN DRAWINGS FOR ALL OTHER UTILITIES, SERVICE LOCATIONS, AND DETAILS. THE EXACT LOCATION OF THESE UTILITIES SHALL BE DETERMINED ON SITE BY THE CONTRACTOR. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING BASES.

OVERHEAD POWER LINE CONFLICTS

CONTRACTOR SHALL CONFIRM ON SITE PRIOR TO CONSTRUCTION THAT POLES & EQUIPMENT WILL MEET WorkSafeBC CLEARANCE REQUIREMENTS FOR OVERHEAD PRIMARY AND SECONDARY LINES. CONTRACTOR TO REPORT ANY CONFLICTS OR DISCREPANCIES TO DMD & ASSOCIATES PRIOR TO ORDERING POLES AND INSTALLING CONCRETE BASES.



COQ. ASBUILT No.

EXXXX

ENSURE ALL LUMINAIRES ARE INSTALLED PARALLEL TO THE ROAD GRADE.

Benchmark:

Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.

Plot Date: December 16, 2025

**DMD**  
**DMD & Associates**  
**Electrical Consultants Ltd.**  
#12-17358 104A Avenue, Surrey, BC, Canada V4N 5M3  
www.dmdeng.com 604-589-8010  
office@dmdeng.com Fax 604-589-8012  
DMD PROJECT No. 7295-21-03 of 04

No.	Date	By	Revisions
16-12-2025	JM	ISSUED FOR TENDER	

ACCEPTED FOR CONSTRUCTION  
Date:

Manager of  
Development Servicing

**Coquitlam**

Engineering & Public Works  
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

PERMIT TO PRACTICE

Signature: \_\_\_\_\_

Date: 16-12-2025

PERMIT NUMBER: 1000771

The Association of Professional Engineers  
and Geoscientists of British Columbia

Seal:



Design by  
JM  
Date 09-06-2021  
Drawn by  
Y.J.  
Date 09-06-2021  
Checked by  
DIS  
Date 09-06-2021  
Approved by  
NB  
Date 09-06-2021

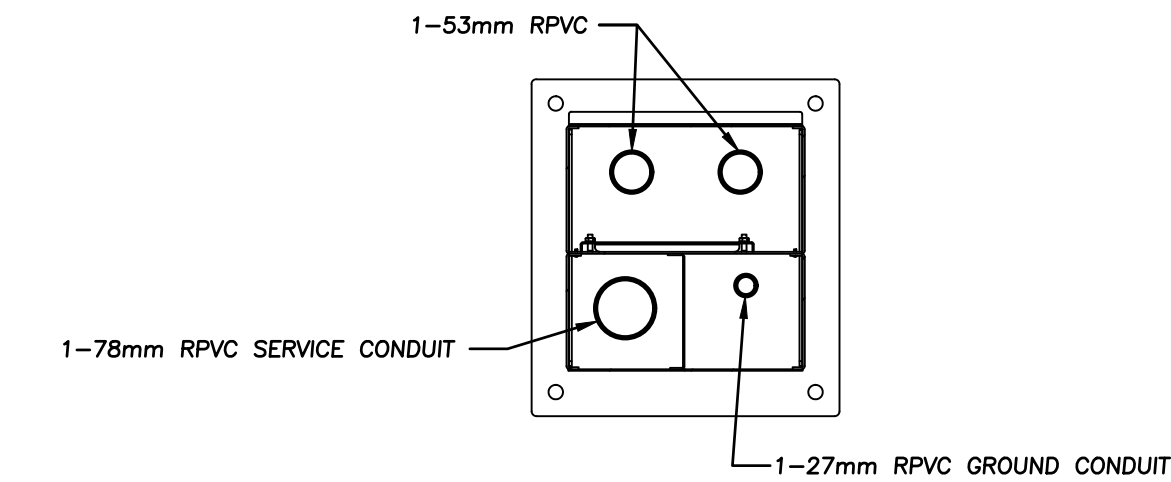
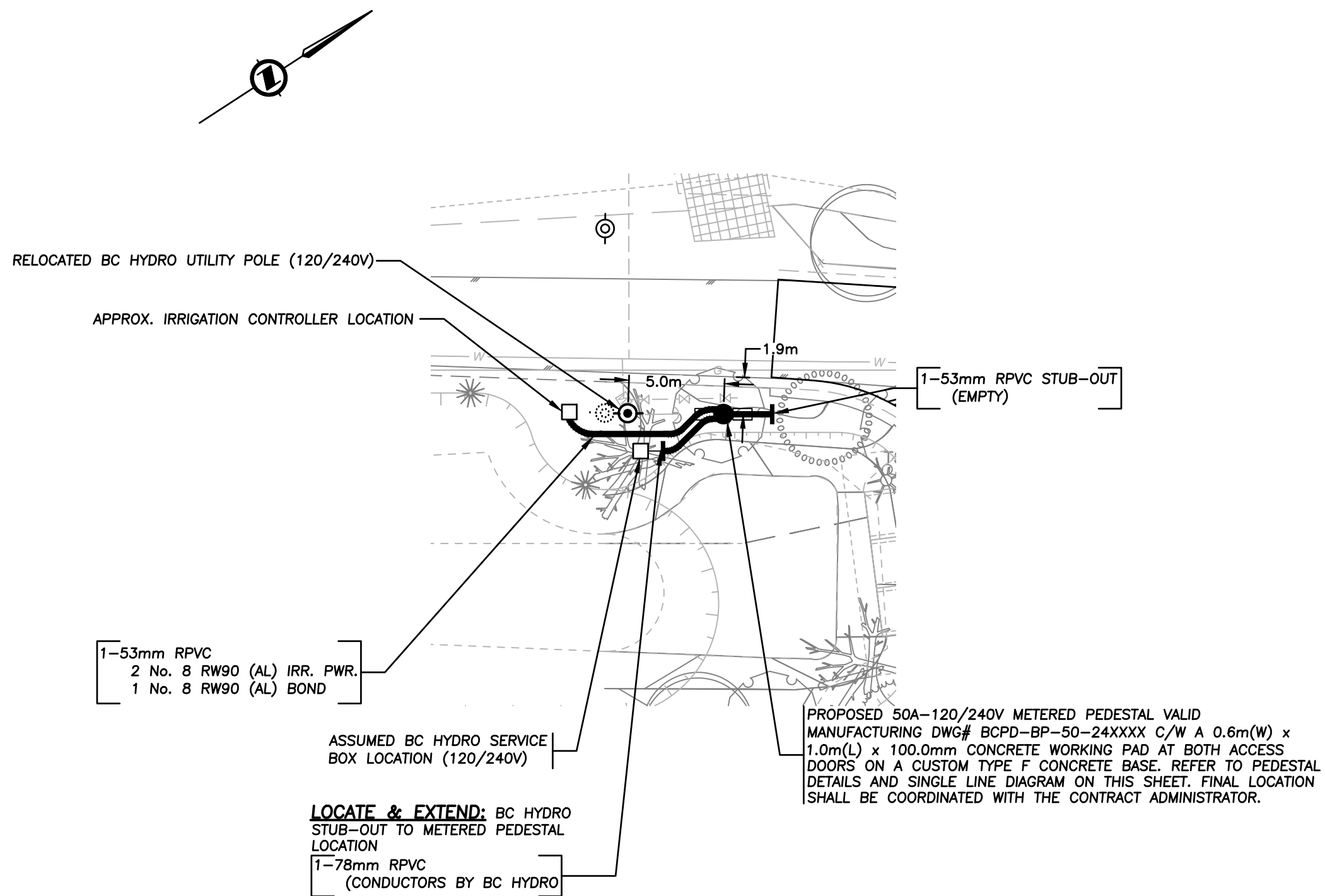
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1:500  
Sheet of  
3 OF 4  
Eng. Project No.

Project

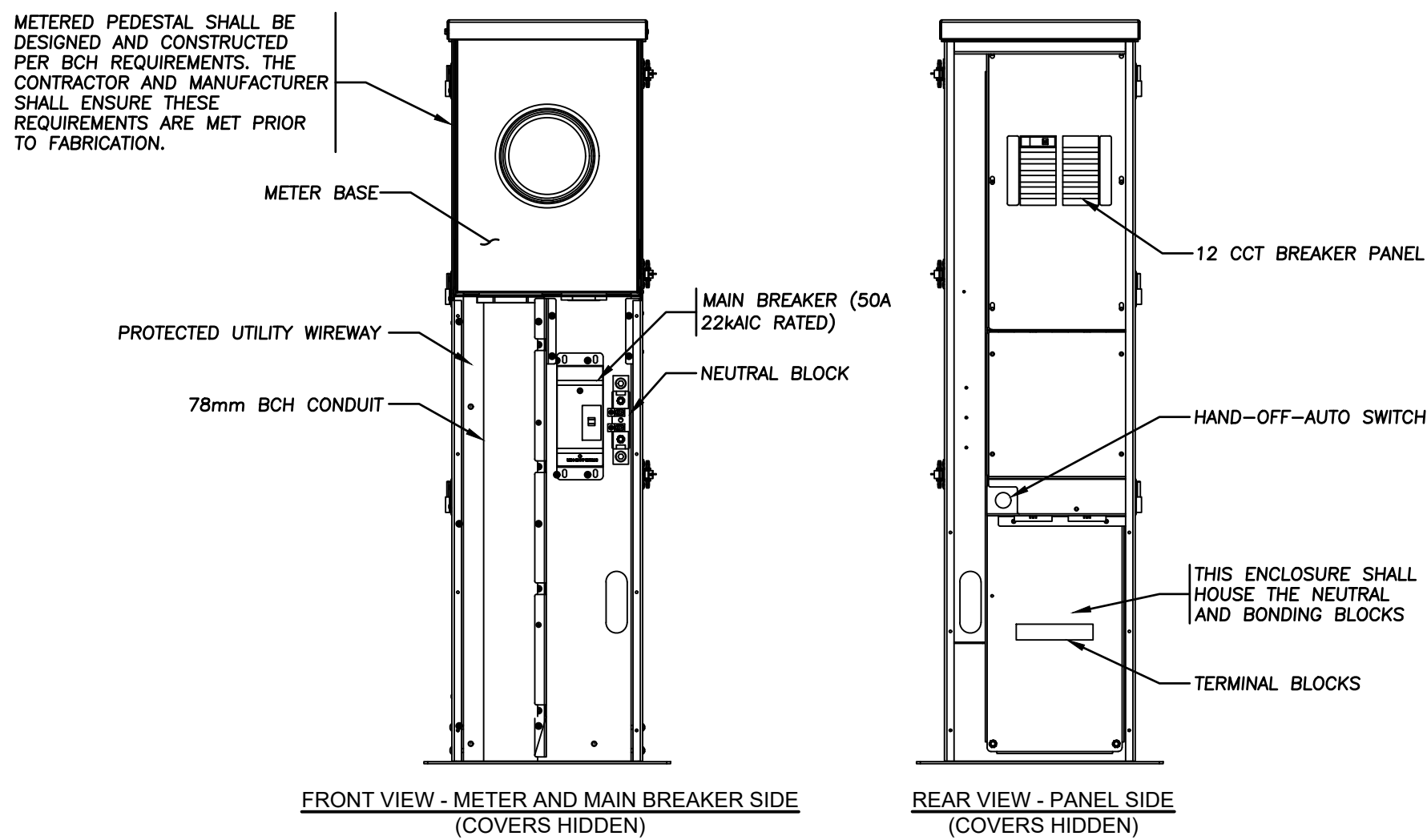
**CEDAR DRIVE  
GILLEYS TRAIL TO THE SOUTH 1km  
STREET LIGHTING**

File: 7295-21

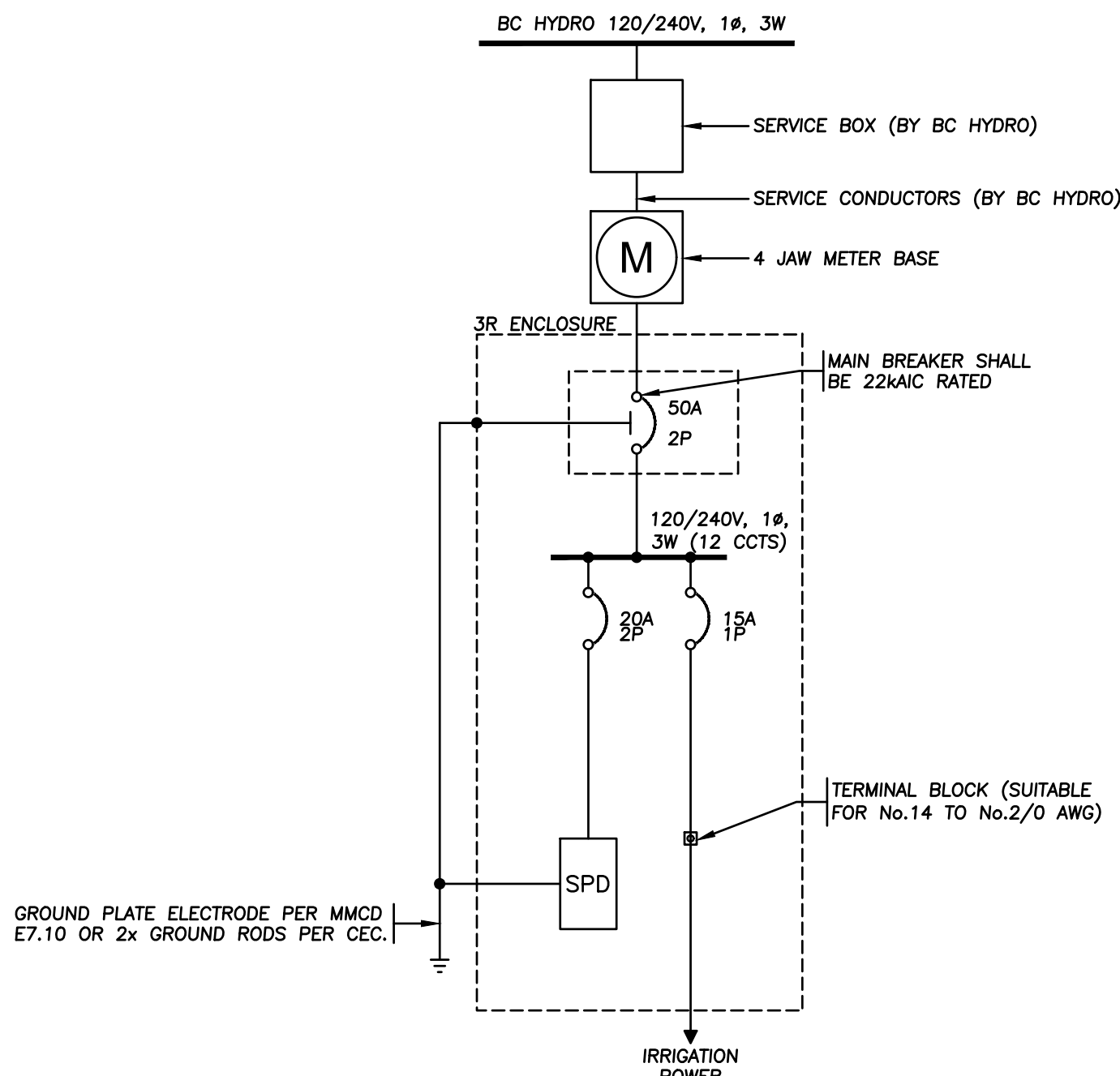
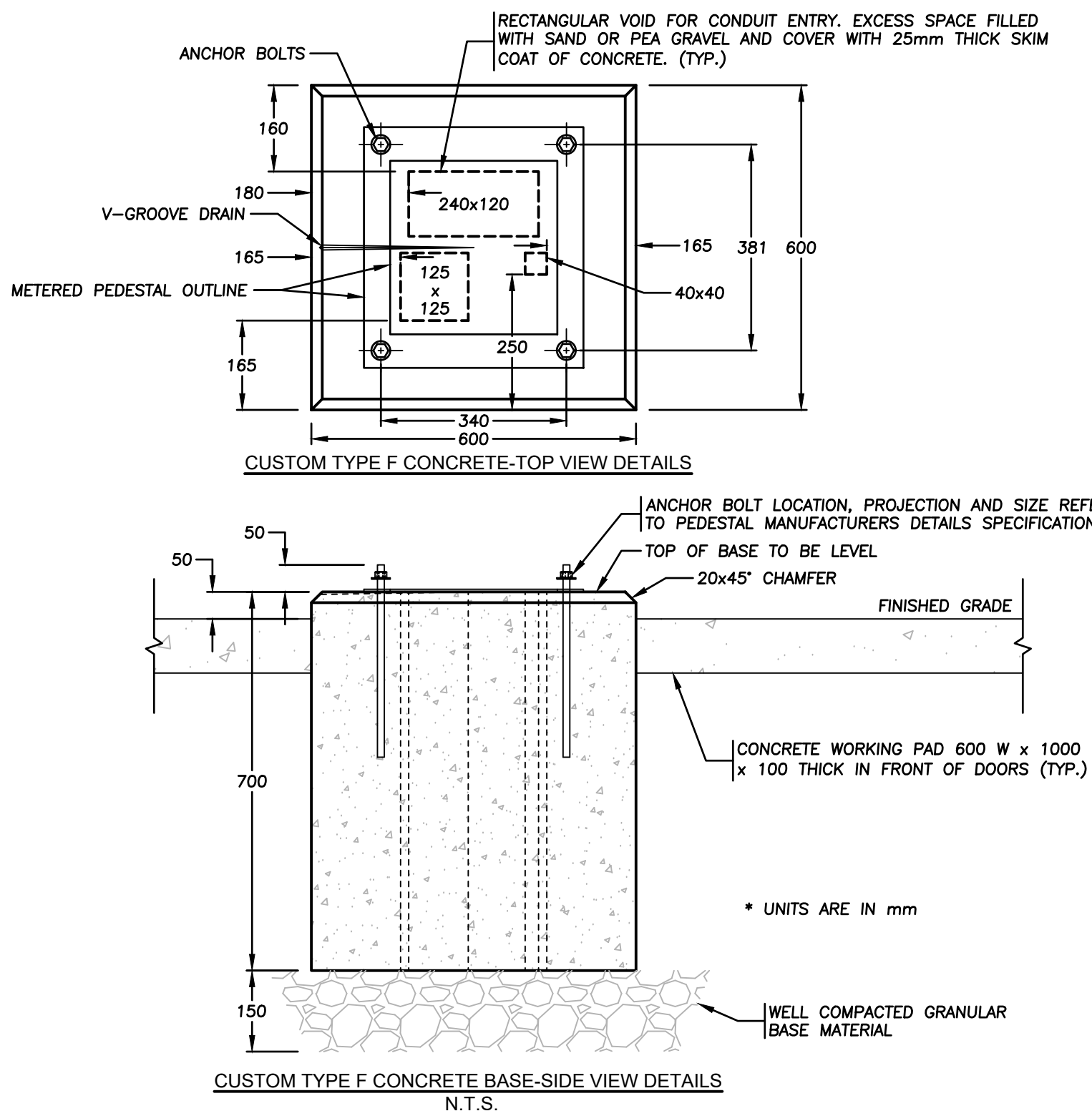




**BOTTOM SECTION**



**METERED PEDESTAL AND CONCRETE BASE DETAIL**  
N.T.S.



**METERED PEDESTAL SINGLE LINE DIAGRAM**  
N.T.S.

REFER TO SHEETS 2 & 3 FOR STREET LIGHTING DETAILS

**NOT FOR CONSTRUCTION**  
2025-12-16



COQ. ASBUILT No.  
**EXXXX**

Benchmark:

Contractor to contact Telus, BC Hydro, FortisBC and BC one call prior to construction to confirm locations of utilities and appurtenances requiring adjustment.



No.	Date	By	Revisions
16-12-2025	JM	ISSUED FOR TENDER	

ACCEPTED FOR CONSTRUCTION  
Date:

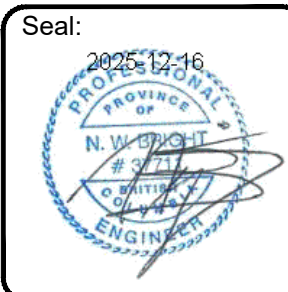
Manager of Development Servicing

**Coquitlam**

Engineering & Public Works  
3000 Guildford Way, Coquitlam, B.C. V3B 7N2

PERMIT TO PRACTICE

Signature: [Signature]  
Date: 16-12-2025  
PERMIT NUMBER: 1000771  
The Association of Professional Engineers and Geoscientists of British Columbia



Design by JM Date 09-06-2021  
Drawn by YJ Date 09-06-2021  
Checked by DIS Date 09-06-2021  
Approved by NB Date 09-06-2021

Scale AS NOTED  
Sheet of 4 OF 4  
Eng. Project No.

Project **CEDAR DRIVE**  
**GILLEYS TRAIL TO THE SOUTH 1km**  
Description **IRRIGATION CONTROLLER POWER**

File: 7295-21