

Project Name **Q-Kids Childcare Project**
Project Number **00507**
Date Issued **July 22, 2022**

To **To All Bidders and Plan Holders**

1. INTENT

This addendum is issued prior to signing of the contract to provide for certain provisions to and clarifications of the work and contract documents. Execute work required by this addendum in accordance with applicable drawings and specifications. Except as directed below, all other terms of the contract documents remain unchanged and in full force.

2. GENERAL

- 2.0 **Q:** Can the Appendix C - #9 Break Out of Proposed Price be submitted 24 hours after the bid closing submission deadline?
A: Yes, the Break Out of Proposed Price (#9 in Appendix C Pricing Form) can be submitted 24 hours after the bid closing deadline.
- 2.1 **Q:** Can you please confirm if there is a threshold dollar amount for subcontractors to be included in Appendix C - #9 Break Out of Proposed Price?:
A: The threshold dollar amount for subcontractors to be included in Appendix C #9 Break out of Proposed Price is \$25,000.
- 2.2 **Q:** General Conditions within the contract exist up to GC 3.4.1. Through the supplemental conditions – GC 3.4.4 and GC 3.4.5 were added. Please provide GC 3.4.2 & GC 3.4.3 or renumber above referenced.
A: In Appendix F Proposed Supplementary General Conditions, change the numbering for GC 3.4.4 and GC 3.4.5 to GC 3.4.2 and GC 3.4.3.
- 2.3 **Q:** General Conditions within the contract exist up to GC 6.1.2. Through the supplemental conditions – GC 6.1.14 through 6.1.22 were added. Please provide GC 6.1.3 through 6.1.13 or renumber above referenced.
A: In Appendix F Proposed Supplementary General Conditions, change the numbering for GC 6.1.14 – GC 6.1.22 to GC 6.1.3 – GC 6.1.11.
- 2.4 **Batt Insulation Alternative:** Refer to attached Bulletin:
As we have the combustible type of construction, non-metallic sheathed electrical wiring/cabling could potentially get damaged by the spray foam application. Therefore, Genyk Nature Spray Foam not approved.
- 2.5 **Q:** Will the ERV's have booster switches in the washrooms?
A: No. The ERVs run continuously during operating hours.
- 2.6 **Q:** Where in the building should the ERV time clock be installed? (Please provide a room number or grid lines).
A: Time clock to be installed in the mechanical room near the furnaces.

3. DRAWINGS

- 3.0 Refer to Electrical E0.1, Architectural A2.02: Service Entrance Conductors: Can these be moved to outside walls of stairwell behind Electrical Room?
The wood trellis above exterior stair does not allow installation of service musts as per BC Hydro and CEC requirements.

4. SPECIFICATIONS

Not Applicable

5. ATTACHMENTS

- 5.0 B-E3 070327 1 R1: Application of Polyurethane Spray Foam Insulation on Non-Metallic-Sheathed Cables.
- 5.1 WE-005 RFI Q-Kids Childcare Centre – AG 220719
- 5.2 Electrical Addendum #1

END OF ADDENDUM

APPLICATION OF POLYURETHANE SPRAY FOAM INSULATION ON NON-METALLIC-SHEATHED CABLES

This Information Bulletin supersedes B-E3 060815 3 issued on August 15, 2006.

Date of Issue: February 29, 2016

NO: B-E3 070327 1
Revision: 01

Topic: Polyurethane Spray Foam Insulation

Attention: Building owners, general contractors, applicators of polyurethane spray foam insulation, electrical contractors.

This Bulletin provides information to all stakeholders, including applicators of polyurethane spray foam insulation. Strict adherence to the manufacturer's application instructions is necessary when this type of product is applied in contact with electrical non-metallic sheathed cables. Non-conformance with these requirements could result in a condition known as 'reversion', which results in a hard lacquer-like coating. This lacquer-like coating may bond to the nonmetallic cable sheath resulting in damage to the cable sheath when mechanical strain is applied to the cable. It is essential to pay particular attention to the required ambient and product application temperatures specified.

It has been observed that where reversion occurs, the resulting lacquer-like coating bonds tightly to the non-metallic cable sheath. When mechanical strain is subsequently applied to this section of cable, the lacquer-like coating may break. Due to the tight bond between the lacquer-like coating and the non-metallic cable sheath, this may cause the cable sheath to be pulled apart or crack. It should be noted that damage to cable sheaths has only been observed where application has resulted in 'reversion' and mechanical stress has subsequently been applied to the cables. This product has not been observed as having caused direct damage to the cable or cable sheaths due to contact. Damage has only been observed where the two conditions noted above have been met.

It is strongly recommended that moving, relocating or re-use of cables after they have had polyurethane spray foam insulation applied to them be avoided. Any such work should only be performed by a registered electrical contractor. Contact with any substance, including polyurethane spray foam insulation, could compromise the flexibility requirements of Canadian Standards Association CAN/CSA – C22.2 No. 48-09 (R2014) which requires these cables to be bent around a radius of 4 times the thickness of a 2 conductor cable and six times the diameter of a twisted conductor cable, without fracturing or opening up of the insulation or jacket.

This photograph shows a typical spray foam installation.



This photograph shows an example of damage to cable sheath



Ulrich Janisch
Provincial Safety Manager – Electrical

B-E3 070327 1 Revision: 01

PAGE 2 of 3



British Columbia Safety Authority

505 6th Street, Suite 200 New Westminster BC V3L 0E1 T 1.866.566.7233 E contact@safetyauthority.ca www.safetyauthority.ca



INFORMATION BULLETIN

References:

Safety Standards Act
Electrical Safety Regulation
Safety Standards General Regulation
Safety Standards Act Repeal and Transitional Provisions Regulations

For more information on the British Columbia Safety Authority, please visit our web site at:
www.safetyauthority.ca



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ELECTRICAL ADDENDUM #01

Date: July 22, 2022
Project: Q-Kids Daycare Centre
Project No: 2108

To: Eclipse Projects
Address: BOX 4451, QUESNEL, BC V2J 3J4
Email: go.eclipse@live.ca

Re: Q&A and Changes

This Addendum forms part of the Contract Documents and is to be read, interpreted and coordinated with all other parts. The cost of all work contained herein is to be included in the Contract price. The following revisions supersede the information contained in the original drawings and specifications issued for the above named project to the extent referenced and shall become part thereof.

1. Q: E2.4 asks for remote annunciator to duplicate the main FACP with control. This requires LCD type. E5.0 31.9 asking for LED type. Which kind is required for project LCD or LED? Is a PASSIVE GRAPHIC required?
A: LCD type annunciator is not required. Proposed FACP NFS-320C has mandatory LED annunciator and secondary LCD. The remote multi-zone LED annunciator as per Drawing E5.0 31.9 and the Fire Alarm Map as per 31.1 and Drawing E2.4 is required.
2. Q: Horn/strobe should be WP type?
A: Yes, refer to updated attached Drawing E2.0.
3. Q: Pull station missing from electrical room.
A: Yes, refer to updated attached Drawing E2.0.
4. Q: Kitchen device should be a fixed temp 196 HEAT, not a CO with sounder.
A: No, combined fixed heat and CO detectors with sounder base is required. The symbol of fixed temperature detector with CO detector shown in the sounder base.
5. Q: 2 Control module missing from exits (door control).
A: Refer to Drawing E4.0.
6. Q: FACP location Riser indicates electrical room – not indicated on floor plans.
A: Refer to Drawing E0.2, Drawing E0.3, Drawing E2.4.
7. Q: Recommend strobe device in preschool area – after school area – infants.
A: Not required.
8. Q: Horns should be horn/strobe type in Foyer 110 and in Staff 115.
A: No, horns only.

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-
9. Q: Sequence of operations indicates shut downs of air moving equipment. How many CM will be required for shut down operations?
A: Sequence of operations indicates shut downs of air moving equipment if it is equipped with control of smoke movement. The air conditioning and ventilation fans do not equipped with control of smoke movement.
10. Relocate combined smoke/CO detector with sounder base as shown.
11. Add circuits A-16 in Staff 115 and A-90, A-92 in Kitchen 104.
12. Exterior pushbutton for the door operator to be weather proof.
13. Add second duplex receptacle in Office 112 for Video intercom as shown.
14. Add General Note 6. Refer to Drawing E2.0.
15. Relocate lighting control and EM remote head in Room 102 as shown.
16. Add lighting control and EM remote head in Toilet 103 as shown.
17. Washroom 2 108 and Washroom 3 117 luminaires to be Type A1 as shown.
18. Outdoor scones to be Type F. Refer to attached updated Drawing E3.0.
19. Due to product discontinued, Type F1 description to be KEENE LytePro LPW7-10-WW-2-120-BZ.
20. Clarification: Pole Light Type P SCSD-15000Lm-3000K-UNV-SPD-CPL-TY4-SD-MS-TCO-BL-on-12-feet pole.
21. Clarification: Drawing E4.0. Drawing Name is Security Plan.

Updated Drawing E2 and Drawing E3 attached.

- END OF ELECTRICAL ADDENDUM #01 -

ALEGO WEST
Aleksandr Gordeyev, P.Eng.
Principal
aleks@alegowest.ca

E:\2108 Quesnel Childcare\6 TENDER\220720 Electrical Addendum #01\Electrical Addendum #1.docx

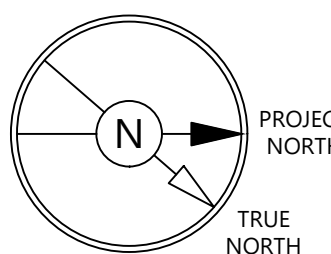
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6	ISSUED FOR ELEC. ADDENDUM #01	JUL 20/22
5	ISSUED FOR TENDER ONLY. R1	JUN 24/22
4	ISSUED FOR BUILDING PERMIT AND TENDER ONLY	JUN 15/22
3	ISSUED FOR PRE-TENDER REVIEW ONLY	JUN 10/22
2	ISSUED FOR REVIEW	SEP 29/21
1	ISSUED FOR COORDINATION	JUL 26/21
NO.	REVISIONS	DATE

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PROJECT:

**Q-KIDS DAYCARE
CENTRE**

420 Webster Avenue
Quesnel, BC

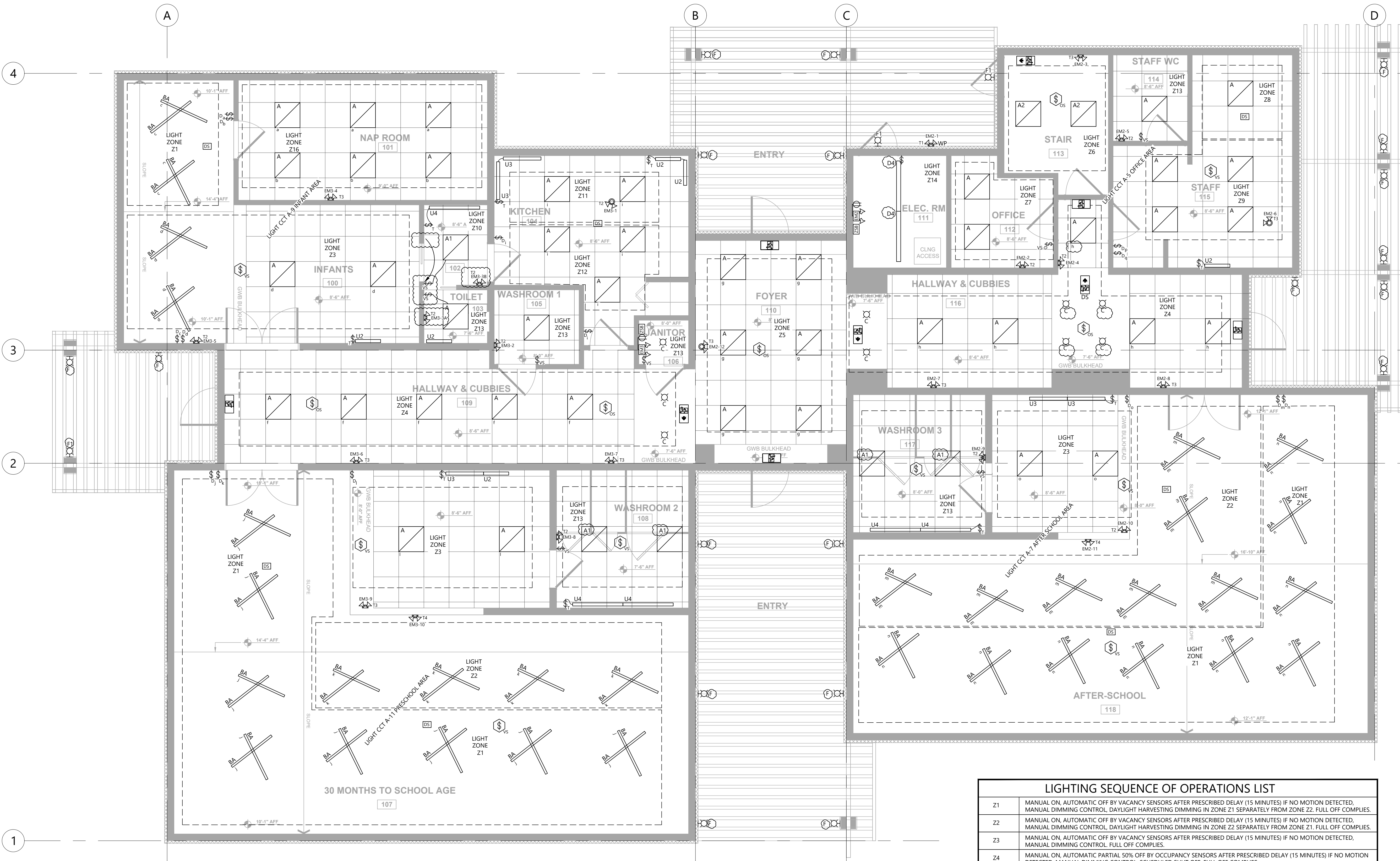
DRAWING:

**REFLECTED
CEILING PLAN**

PROJECT NO.:	CHECKED BY:
2108	A.G.
DATE:	SCALE:
JULY 26, 2021	1/4" = 1' - 0"

DRAWING NO.:

E3.0



LIGHTING SEQUENCE OF OPERATIONS LIST

Z1	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (15 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL, DAYLIGHT HARVESTING DIMMING IN ZONE Z1 SEPARATELY FROM ZONE Z2. FULL OFF COMPLIES.
Z2	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (15 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL, DAYLIGHT HARVESTING DIMMING IN ZONE Z2 SEPARATELY FROM ZONE Z1. FULL OFF COMPLIES.
Z3	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (15 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.
Z4	MANUAL ON, AUTOMATIC PARTIAL 50% OFF BY OCCUPANCY SENSORS AFTER PRESCRIBED DELAY (15 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. SCHEDULED SHUT OFF. FULL OFF COMPLIES.
Z5	MANUAL ON, AUTOMATIC PARTIAL 50% OFF BY OCCUPANCY SENSORS AFTER PRESCRIBED DELAY (15 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. SCHEDULED SHUT OFF. FULL OFF COMPLIES.
Z6	AUTOMATIC PARTIAL 50% OFF BY OCCUPANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED.
Z7	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.
Z8	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.
Z9	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.
Z10	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.
Z11	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL, DAYLIGHT HARVESTING DIMMING. FULL OFF COMPLIES.
Z12	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.
Z13	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (20 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.
Z14	MANUAL ON, MANUAL OFF. MECHANICAL AND ELECTRICAL ROOMS.
Z15	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (15 MINUTES) IF NO MOTION DETECTED. FULL OFF COMPLIES.
Z16	MANUAL ON, MANUAL OFF, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.

LIGHTING ZONES Z4, Z5 AND Z6 ARE ON BY DRY CONTACT FROM SECURITY SYSTEM AND FULL OFF WHEN SECURITY SYSTEM IS ARMED.

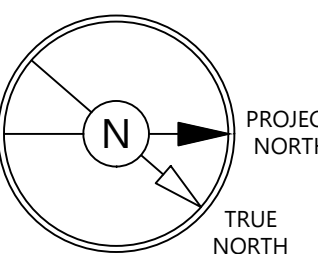
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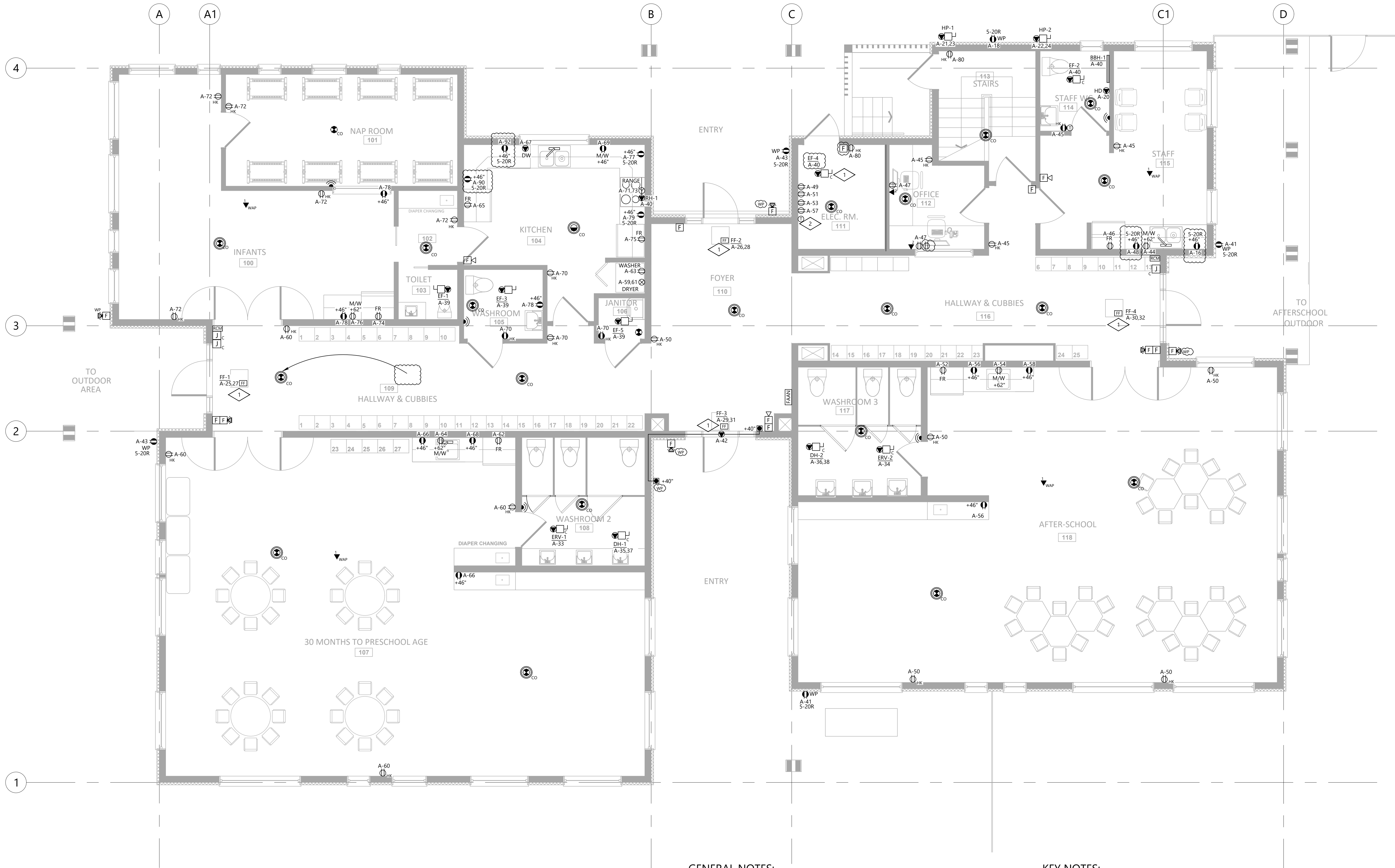
DRAWING:

POWER PLAN

PROJECT NO.: 2108	CHECKED BY: A.G.
DATE: JULY 26, 2021	SCALE: 1/4" = 1' - 0"

DRAWING NO.:

E2.0



Q-KIDS DAYCARE CENTRE

420 Webster Avenue
Quesnel, BC, V2J 1A5

LIGHTING LEGEND	
	2'x4' RECESSED LED LUMINAIRE
	2'x2' RECESSED LED LUMINAIRE
	2'x4' SURFACE MOUNTED LED LUMINAIRE
	1'x4' LED WRAP LUMINAIRE
	4' LED STRIP LUMINAIRE
	LED WALL MOUNTED LUMINAIRE
	LED SURFACE MOUNTED LUMINAIRE
	LED RECESSED LUMINAIRE
	'RUNNING MAN' EXIT SIGN WALL MOUNTED DS - DOUBLE SIDED
	'RUNNING MAN' EXIT SIGN CEILING MOUNTED ARROW INDICATE DIRECTION, DS - DOUBLE SIDED
	EMERGENCY LIGHT UNIT WITH TWO REMOTE LAMPS, # - EMERGENCY LIGHT UNIT NUMBER
	TWO REMOTE EMERGENCY LIGHTS CEILING MOUNTED
	TWO REMOTE EMERGENCY LIGHTS WALL MOUNTED
	EMERGENCY LIGHT ZONE SENSING BOX
	EMERGENCY LIGHT ZONE SENSING PANEL BY MANUFACTURER
	PHOTO CELL
	SINGLE POLE SWITCH
	THREE-WAY SWITCH
	SWITCH 'a' CONTROLS LUMINAIRE 'a'
	WALL VACANCY SENSOR SWITCH WITH DIMMER
	DIMMER SWITCH
	DAYLIGHT HARVESTING SENSOR
	LOW VOLTAGE MASTER SWITCH
	VACANCY SENSOR SWITCH
	TRACK LIGHT WITH LIGHT HEADS
	TIMER SWITCH LEVITON LT812-1L OR EQUAL (8-12 HRS)
	PIR OCCUPANCY SENSOR CEILING MOUNTED
	PIR VACANCY SENSOR CEILING MOUNTED
	POLE MOUNTED LED LUMINAIRE

POWER LEGEND	
	SINGLE PHASE JUNCTION BOX
	SINGLE OR MULTIPLE PHASE JUNCTION BOX
	DUPLEX RECEPTACLE
	HOUSEKEEPING DUPLEX RECEPTACLE NEMA 5-20R
	GROUND FAULT DUPLEX RECEPTACLE NEMA 5-20R
	DIRECT HARDWIRED CONNECTION TO DEVICE
	LINE VOLTAGE THERMOSTAT
	PANELBOARD
	MISCELLANEOUS CABINET
	MOTOR
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	WIREMOLD RACEWAY
	RANGE RECEPTACLE NEMA 14-50R 50A
	DRYER RECEPTACLE NEMA 14-30R 30A
	ELECTRIC FORCE FLOW HEATER
	DOOR OPERATOR PUSHBUTTON

ABBREVIATION LEGEND	
C	DENOTES DEVICE MOUNTED IN CEILING SPACE
WP	WEATHER PROOF
+18"	18" ABOVE FINISHED FLOOR
MW	MICROWAVE
FR	FRIDGE
HD	HAND DRYER
DW	DISHWASHER


FIRE ALARM LEGEND	
	FIRE ALARM MANUAL STATION
	FIRE ALARM BELL
	FIRE ALARM HORN / BUZZER
	FIRE ALARM COMBINATION HORN/STROBE
	FIRE ALARM STROBE LIGHT WALL MOUNTED
	SMOKE DETECTOR
	THERMAL DETECTOR - RATE OF RISE
	THERMAL DETECTOR - FIXED TEMPERATURE
	FIRE ALARM CONTROL PANEL
	FIRE ALARM REMOTE ANNUNCIATOR
	FIRE ALARM END-OF-LINE DEVICE
	FIRE ALARM DIGITAL DUAL COMMUNICATION TRANSMITTING UNIT
	MAGNETIC DOOR HOLDER
	JUNCTION BOX FOR FIRE ALARM SYSTEM
	FIRE ALARM FAULT ISOLATION MODULE
	FIRE ALARM RELAY CONTROL MODULE
	FIRE ALARM INPUT MONITOR MODULE
	FIRE ALARM LIGHTNING ARRESTER
	SMOKE DETECTOR - DUCT TYPE
	FIRE ALARM BEAM SMOKE DETECTOR
	REFLECTOR FOR FIRE ALARM BEAM SMOKE DETECTOR
	SPRINKLER TAMPER SWITCH
	SPRINKLER PRESSURE SWITCH
	SPRINKLER FLOW SWITCH
	FIRE ALARM REMOTE LED INDICATION POINT
	COMBINED SMOKE AND CARBON MONOXIDE DETECTOR
	COMBINED SMOKE AND CARBON MONOXIDE DETECTOR WITH SOUNDER BASE

CCTV & SECURITY LEGEND	
	KEYPAD
	WINDOW / DOOR CONCEALED CONTACT
	P.I.R. REQUEST TO EXIT
	REQUEST TO EXIT PUSHBUTTON
	PUSHBUTTON
	PROX. CARD READER
	ELECTRIC DOOR STRIKE
	MAGLOCK
	P.I.R. MOTION SENSOR 360-DEGREE, DS9370 OR EQUAL
	P.I.R. MOTION SENSOR 180-DEGREE
	P.I.R. MOTION SENSOR 90-DEGREE, ISC-CDL1-WA12G, -WA-15G, -W15G OR EQUAL
	INTRUSION ALARM CONTROL PANEL
	INTRUSION ALARM ARMING STATION
	INTRUSION ALARM SIREN
	EMERGENCY MANUAL STATION
	SECURITY AND/OR ACCESS CONTROL JUNCTION BOX
	VIDEO INTERCOM
	VIDEO INTERCOM MASTER STATION
	CCTV CAMERA OUTLET, C/W BACK BOX AND CAT.6 DROP (R/I) - ROUGH-IN ONLY.
	NETWORK VIDEO RECORDER
	MANAGED SWITCH
	CAT6 DATA LINE LIGHTNING SURGE PROTECTOR
	POE INJECTOR


COMMUNICATIONS LEGEND	
	TELEVISION OUTLET - WALL MOUNTED
	WIRELESS ACCESS POINT OUTLET - CEILING MOUNTED, # INDICATES CAT.6 DROP QTY
	COMPUTER OUTLET - WALL MOUNTED, # INDICATES CAT.6 DROP QTY
	TELEPHONE OUTLET - WALL MOUNTED, C/W CAT.6 DROP
	DATA CABLING PULL BOX
	COMM. TRAY

ELECTRICAL DRAWING LIST	
E0.0 - SYMBOL LEGENDS AND DRAWING LIST	
E0.1 - PROPOSED SITE PLAN	
E0.2 - SINGLE LINE DIAGRAM AND SERVICE DETAILS	
E0.3 - SERVICE PROFILE	
E0.4 - SITE PLAN EXTERIOR WORK	
E1.0 - BASEMENT POWER AND LIGHTING PLAN	
E2.0 - POWER PLAN	
E2.1 - LUMINAIRE SCHEDULE AND DETAILS	
E2.2 - MECHANICAL AND PANEL SCHEDULES	
E2.3 - DETAILS	
E2.4 - FIRE ALARM RISER	
E3.0 - REFLECTED CEILING PLAN	
E4.0 - SECURITY PLAN	
E5.0 - ELECTRICAL SPECIFICATIONS	




PROJECT LEGAL DESCRIPTION	
LOT: 1 BLOCK: 1 PLAN: PGP6719 DL 704 CARIBOO DISTRICT PID: 013-492-900	





THE CITY OF QUESNEL
410 Kinchant Street
Quesnel B.C.
V2J 7J5



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PROJECT NO. 00475

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7	ISSUED FOR TENDER ONLY. R1	JUN 24/22
6	ISSUED FOR BUILDING PERMIT AND TENDER ONLY	JUN 15/22
5	ISSUED FOR PRE-TENDER REVIEW ONLY	JUN 10/22
4	ISSUED FOR COORDINATION WITH UTILITIES R3	JUN 08/22
3	ISSUED FOR REVIEW	SEP 29/21
2	ISSUED FOR COORDINATION WITH UTILITIES	AUG 26/21
1	ISSUED FOR COORDINATION	JUL 26/21
NO.	REVISIONS	DATE

ELECTRICAL CONSULTANT:



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PROJECT:

Q-KIDS DAYCARE CENTRE

420 Webster Avenue
Quesnel, BC

DRAWING:
SYMBOL LEGENDS AND DRAWING LIST

PROJECT NO.: 2108	CHECKED BY: A.G.
DATE: JULY 26, 2021	SCALE: N.T.S.

DRAWING NO.:

E0.0

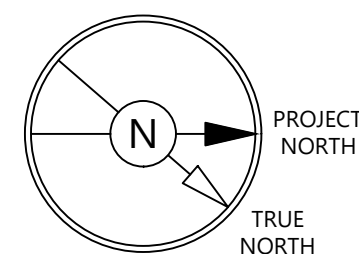
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6	ISSUED FOR COORDINATION WITH UTILITIES R3	JUN 08/22
5	ISSUED FOR COORDINATION WITH UTILITIES REV.2	NOV 02/21
4	ISSUED FOR REVIEW	SEP 29/21
3	ISSUED FOR COORDINATION WITH UTILITIES REV.1	SEP 28/21
2	ISSUED FOR COORDINATION WITH UTILITIES	AUG 26/21
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PROJECT:
Q-KIDS DAYCARE CENTRE

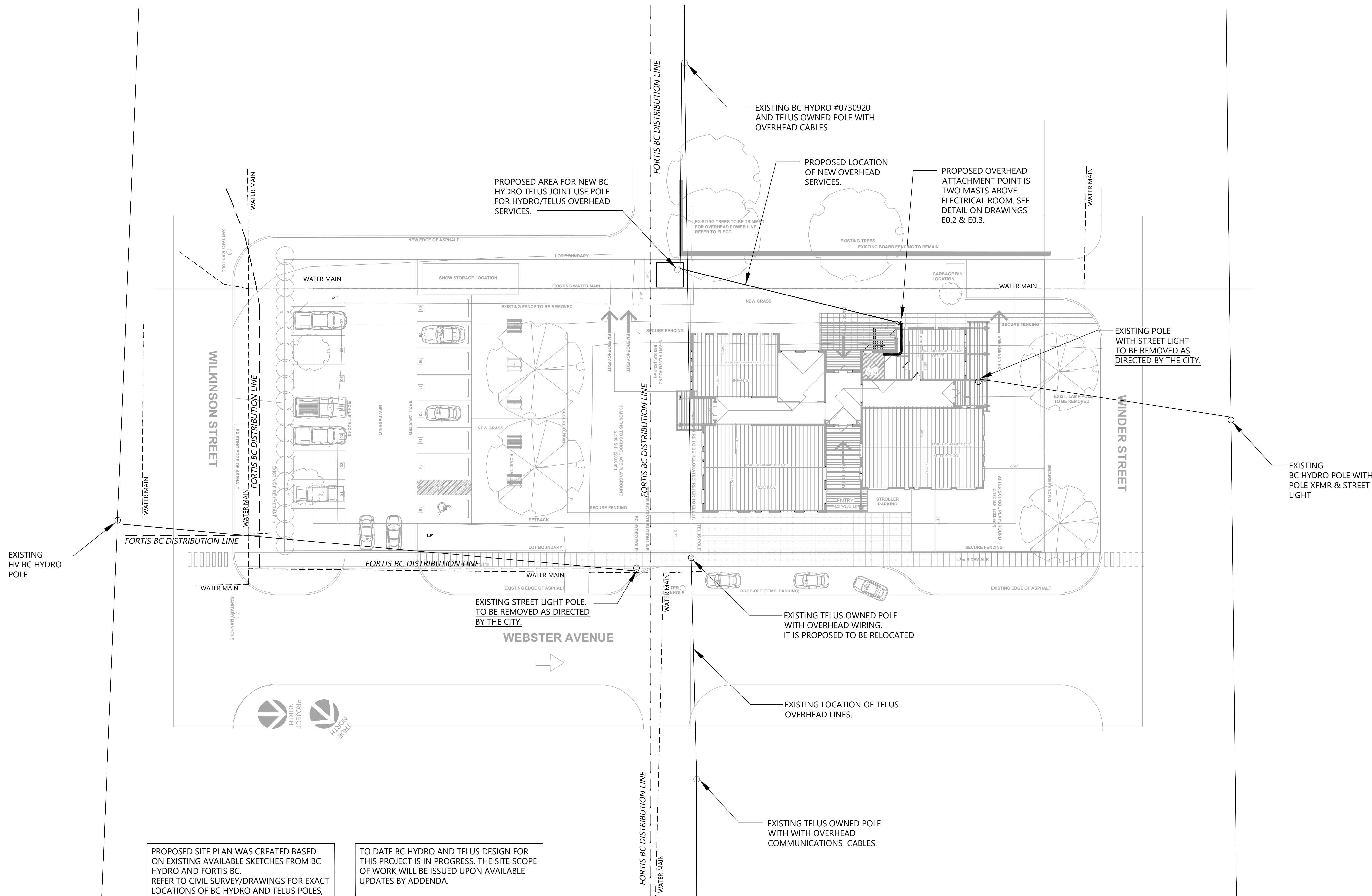
420 Webster Avenue
Quesnel, BC

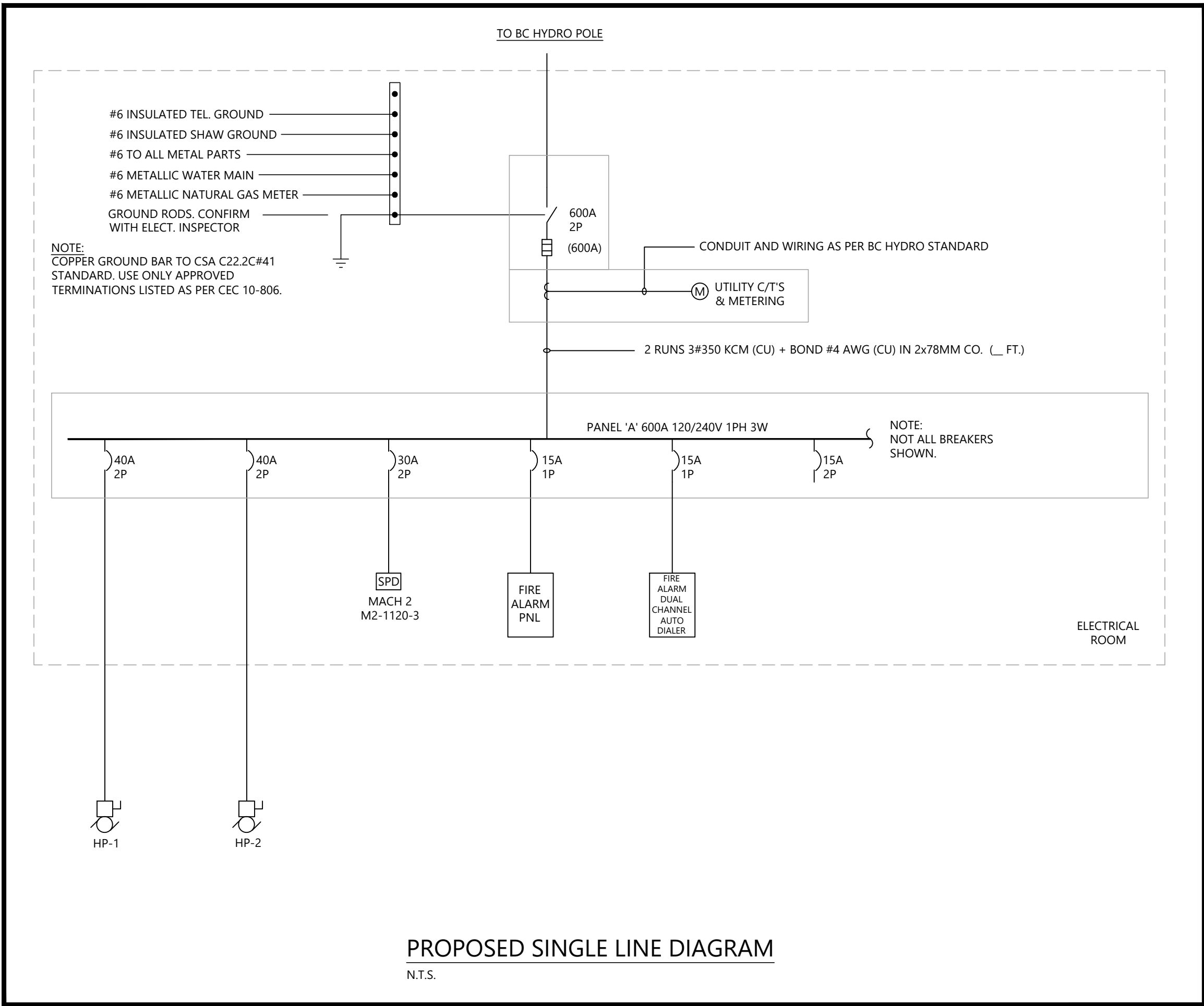
DRAWING:
PROPOSED SITE PLAN

PROJECT NO.: 2108	CHECKED BY: A.G.
DATE: JULY 26, 2021	SCALE: 1/16" = 1' - 0"

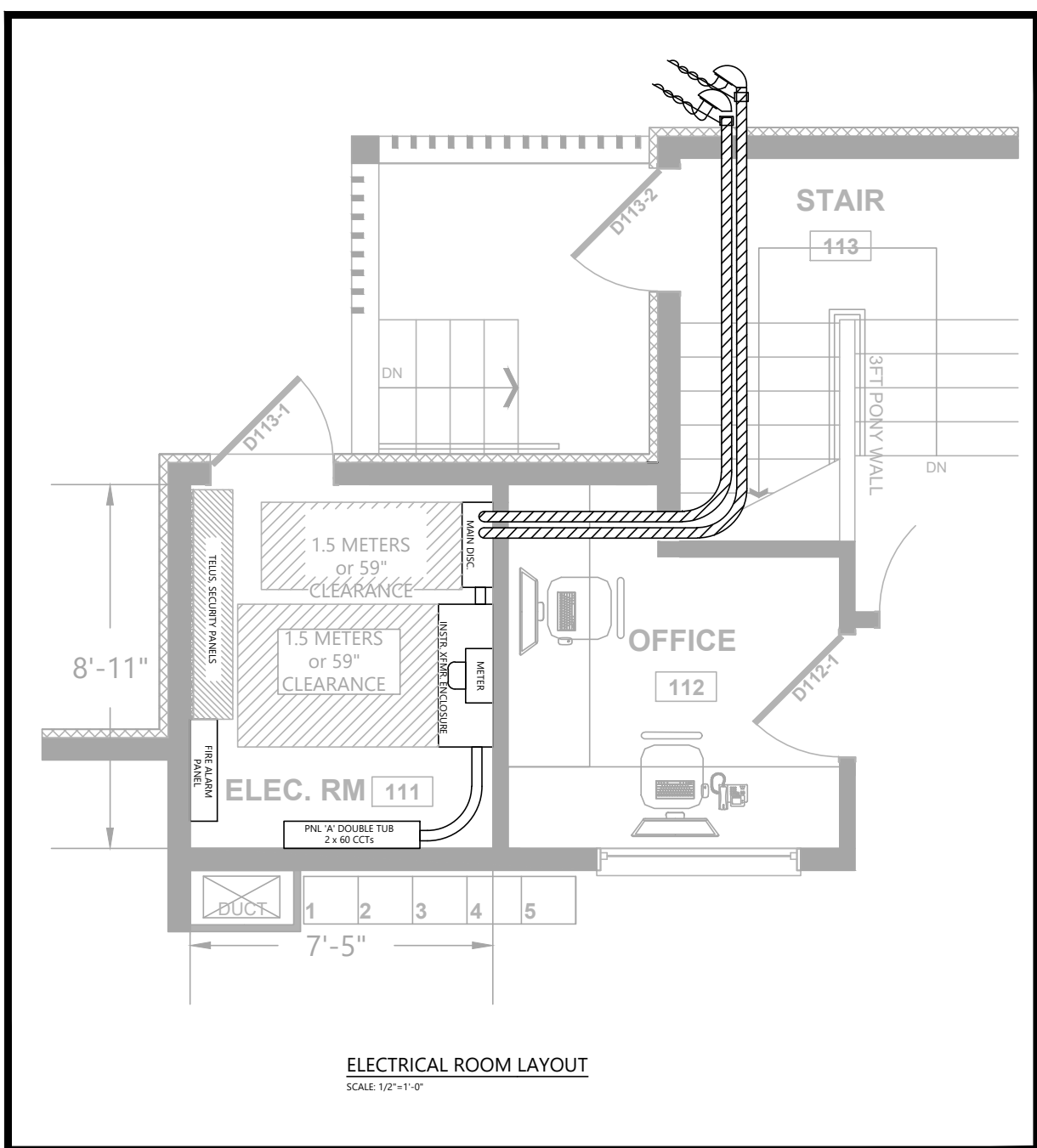
DRAWING NO.:

E0.1



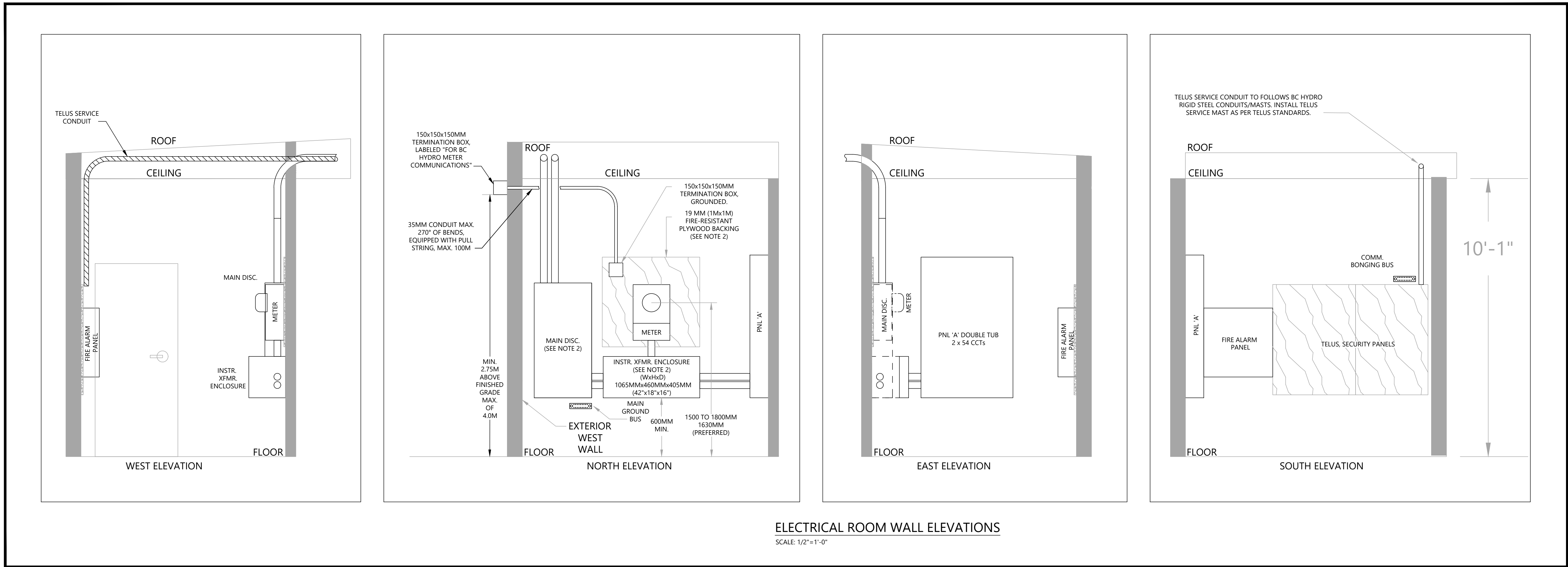


West Quesnel Childcare Preliminary Load Calc.					
Total Building Area	=	4,759 sq. ft.	or	442.13 sq.m	
Allowed W/sq.m	=	25 W/sq.m	11053.25 @	100%	11.05 kW
Mechanical Load	=				
Total Mechanical Load	=				34.42 kW
Laundry Equipment	=	7.20 kW	x	65%	4.68 kW
Kitchen Equipment	=				
Fridge x 3	=	3.00 kW	x	80%	2.40 kW
Microwaves x 3	=	4.32 kW	x	80%	3.46 kW
Stove x 1	=	7.68 kW	x	80%	6.14 kW
Kitchen Total Load	=				12.00 kW
Owner's Equipment	=	10.00 kW	x	100%	10.00 kW
Future Equipment	=	15.00 kW	x	100%	15.00 kW
Electrical Vehide Charging Stations	=				
EVCS 1	=	7.68 kW	x	100%	7.68 kW
EVCS 2	=	7.68 kW	x	100%	7.68 kW
Total EVCSs	=				15.36 kW
Total Load	=				102.52 kW
At 120/240V/1Ph	=				427.16 Amps
At 125%	=				533.94 Amps
Recommended BC Hydro Service - 600A, 120/240V, 1 Phase, 3W, Overhead					



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7	ISSUED FOR TENDER ONLY. R1	JUN 24/22
6	ISSUED FOR BUILDING PERMIT AND TENDER ONLY	JUN 15/22
5	ISSUED FOR PRE-TENDER REVIEW ONLY	JUN 10/22
4	ISSUED FOR COORDINATION WITH UTILITIES R3	JUN 08/22
3	ISSUED FOR REVIEW	SEP 29/21
2	ISSUED FOR COORDINATION WITH UTILITIES	AUG 26/21
1	ISSUED FOR COORDINATION	JUL 26/21
NO.	REVISIONS	DATE

ELECTRICAL CONSULTANT:



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7	ISSUED FOR TENDER ONLY. R1	JUN 24/22
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NO.	REVISIONS	DATE

ELECTRICAL CONSULTANT:



HARBOURFRONT BUSINESS CENTRE
SUITE 500 - 224 WEST ESPLANADE
NORTH VANCOUVER, BC, V7M 1A4
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PROJECT:

**Q-KIDS DAYCARE
CENTRE**

420 Webster Avenue
Quesnel, BC

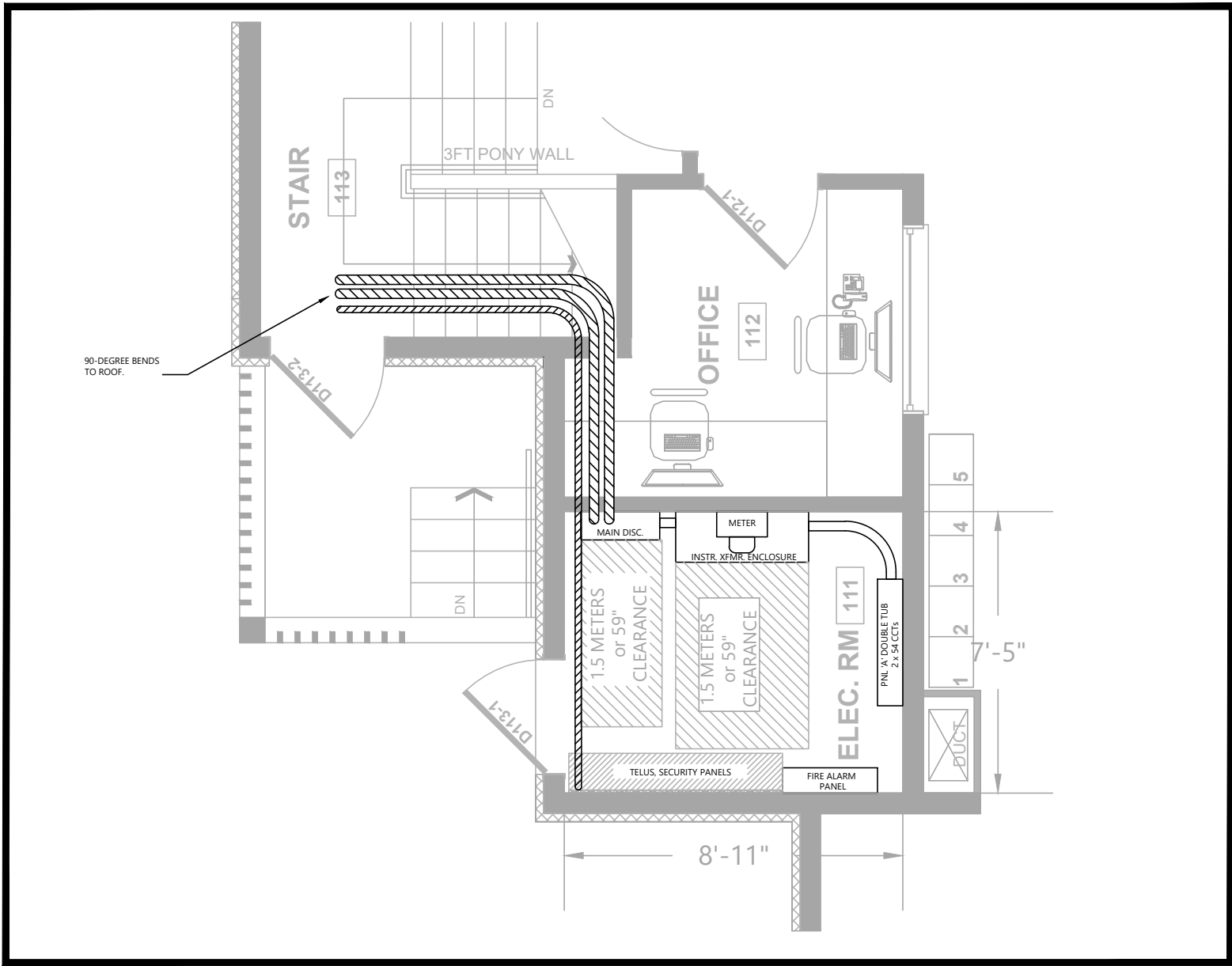
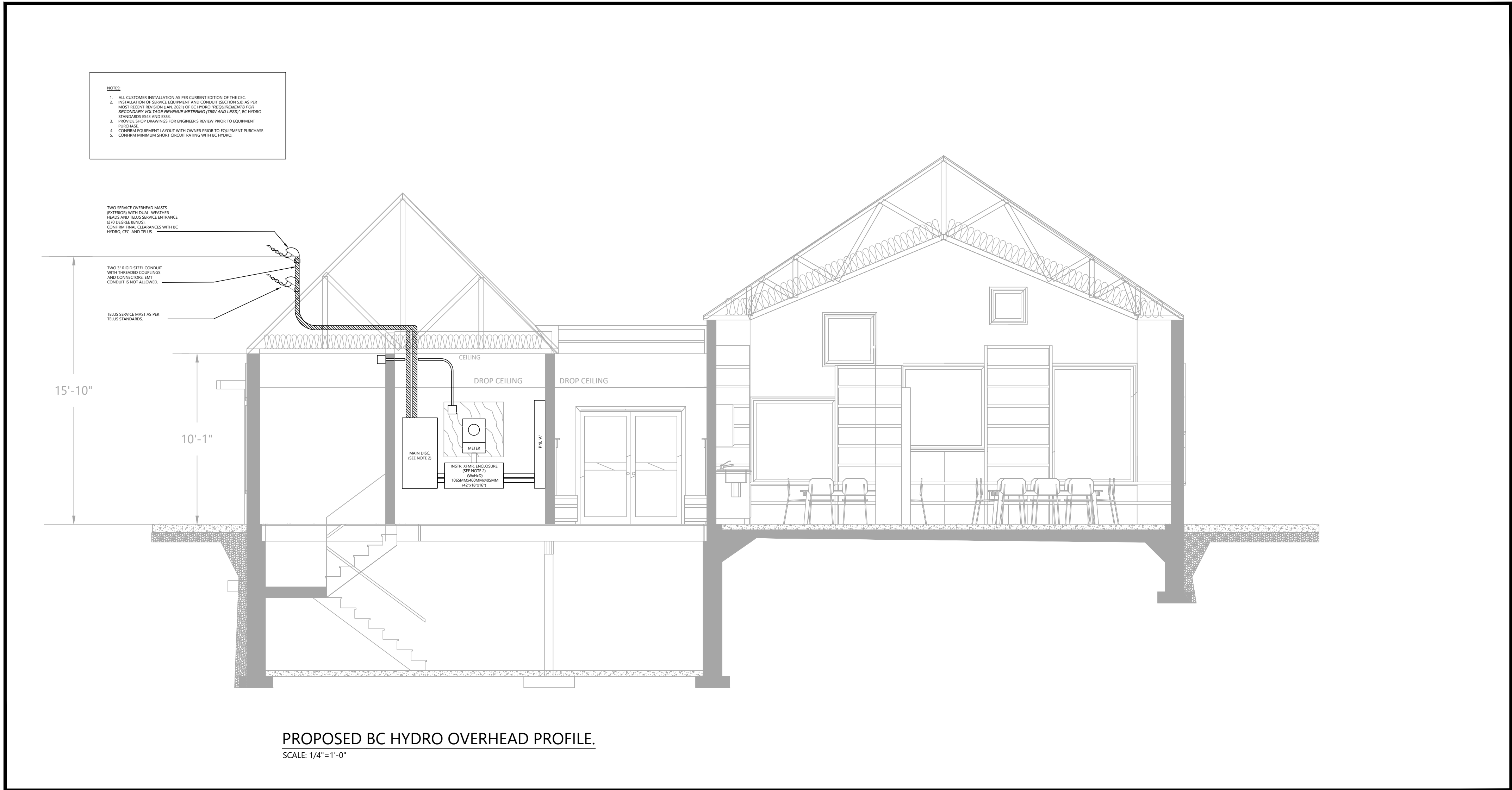
DRAWING:

**SERVICE
PROFILE**

PROJECT NO.: 2108	CHECKED BY: A.G.
DATE: JULY 26, 2021	SCALE: 1/4" = 1' - 0"

DRAWING NO.:

E0.3



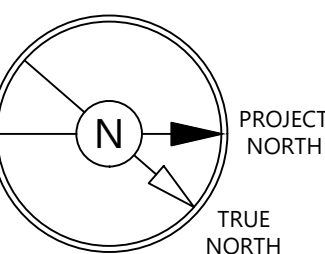
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3	ISSUED FOR TENDER ONLY. R1	JUN 24/22
2	ISSUED FOR BUILDING PERMIT AND TENDER ONLY	JUN 15/22
1	ISSUED FOR PRE-TENDER REVIEW ONLY	JUN 10/22
NO.	REVISIONS	DATE

ELECTRICAL CONSULTANT:

ALEGO
WEST

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PROJECT:

**Q-KIDS DAYCARE
CENTRE**

420 Webster Avenue
Quesnel, BC

DRAWING:

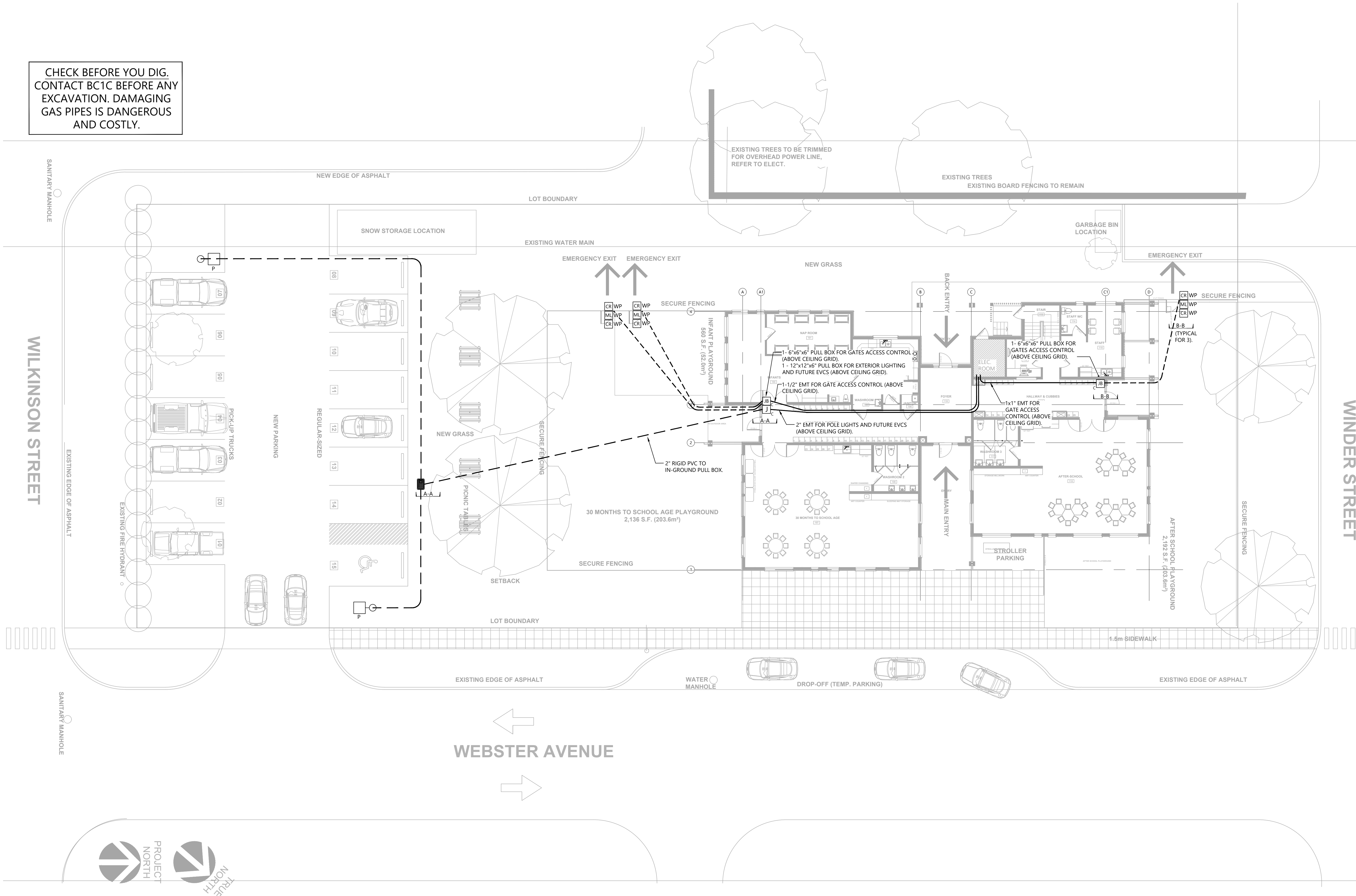
**SITE PLAN
EXTERIOR WORK**

PROJECT NO.: 2108	CHECKED BY: A.G.
DATE: JULY 26, 2021	SCALE: 3/32" = 1' - 0"

DRAWING NO.:

E0.4

CHECK BEFORE YOU DIG.
CONTACT BC1C BEFORE ANY
EXCAVATION. DAMAGING
GAS PIPES IS DANGEROUS
AND COSTLY.





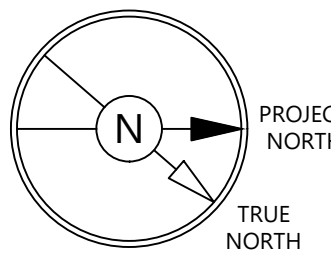
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1	ISSUED FOR COORDINATION	JUL 26/21
NO.	REVISIONS	DATE

ELECTRICAL CONSULTANT:

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PROJECT:

**Q-KIDS DAYCARE
CENTRE**

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Quesnel, BC

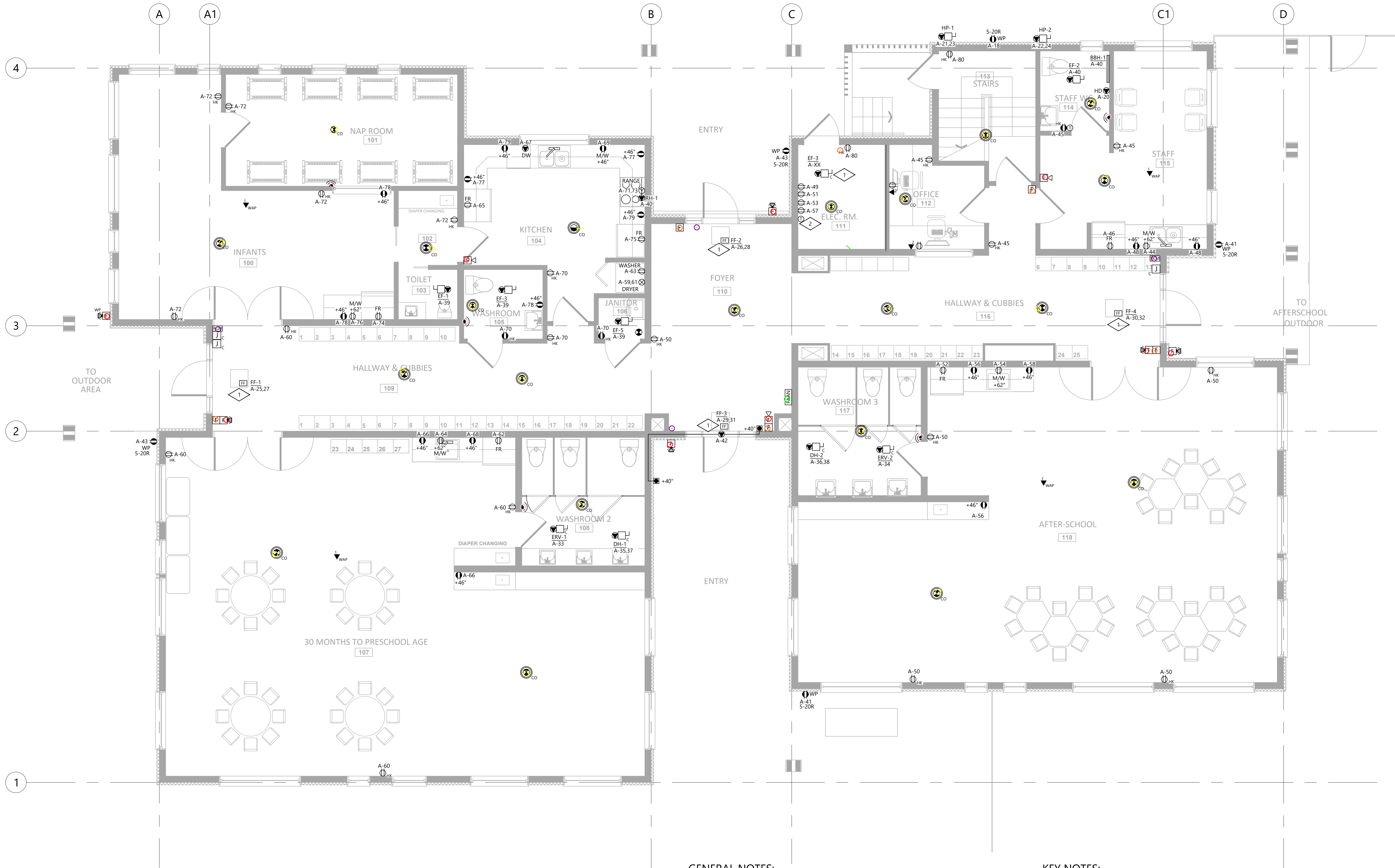
DRAWING:

POWER PLAN

PROJECT NO.: 2108	CHECKED BY: A.G.
DATE: JULY 26, 2021	SCALE: 1/4" = 1' - 0"

DRAWING NO.:

E2.0



GENERAL NOTES:

- ELECTRICAL CONTRACTOR TO PROVIDE FORCE-FLOW HEATERS, BASEBOARD HEATER, AND LINE VOLTAGE ELECTRONIC THERMOSTATS.
- FORCE-FLOW HEATERS FF-1, FF-2, FF-3, AND FF-4 TO BE STELPRO ACF4002C, C/W T-BAR ADAPTER CFTBA1. CONFIRM FINISH COLOUR WITH ARCHITECT. ELECTRONIC THERMOSTAT TO BE DOUBLE-POLE OR C/W 2-POLE 20A-240V CONTACTOR AT THE UNIT IN CEILING SPACE. ALLOW FOR 15 METERS OF 4#12AWG WIRING FROM FORCE-FLOW HEATERS TO THERMOSTAT FOR TENDER PURPOSES. REFER TO MECHANICAL DRAWINGS FOR EXACT THERMOSTAT LOCATION AND ELEVATION.
- THE BASEBOARD HEATER TO BE 500W 120V STELPRO AB0501. CONFIRM FINISH COLOUR WITH ARCHITECT. ELECTRONIC THERMOSTAT TO BE STELPRO ST302P.
- PROVIDE LINE VOLTAGE TIMER 20/40/60MINUTES FOR EXHAUST FANS EF-1, EF-2, EF-3, AND EF-5. ALLOW FOR 2#12AWG WIRING FOR WALL TIMER WITHIN THE ROOM.
- PROVIDE REVERSE-ACTING THERMOSTAT FOR EF-4. REFER TO MECHANICAL DRAWINGS FOR CATALOGUE NUMBER.

KEY NOTES:

- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT.
- CONFIRM EXACT LOCATION OF EQUIPMENT RECEPTACLES/OUTLETS FOR COMMUNICATIONS, SECURITY AND ACCESS CONTROL WITH DIVISION 27 AND DIVISION 28 CONTRACTORS.

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4	ISSUED FOR TENDER ONLY. R1	JUN 24/22
3	ISSUED FOR BUILDING PERMIT AND TENDER ONLY	JUN 15/22
2	ISSUED FOR PRE-TENDER REVIEW ONLY	JUN 10/22
1	ISSUED FOR REVIEW	SEP 29/21
NO.	REVISIONS	DATE

ELECTRICAL CONSULTANT:



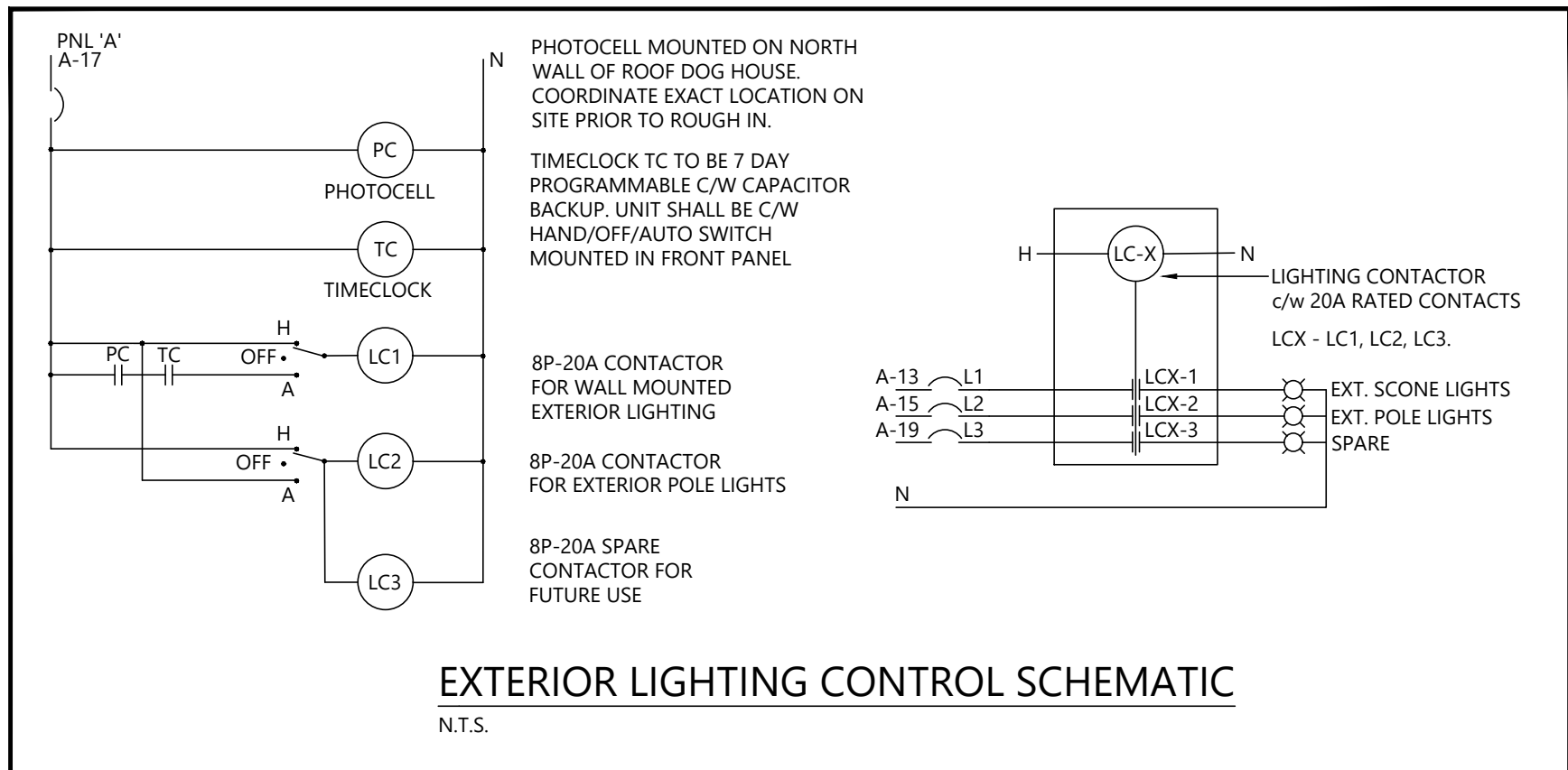
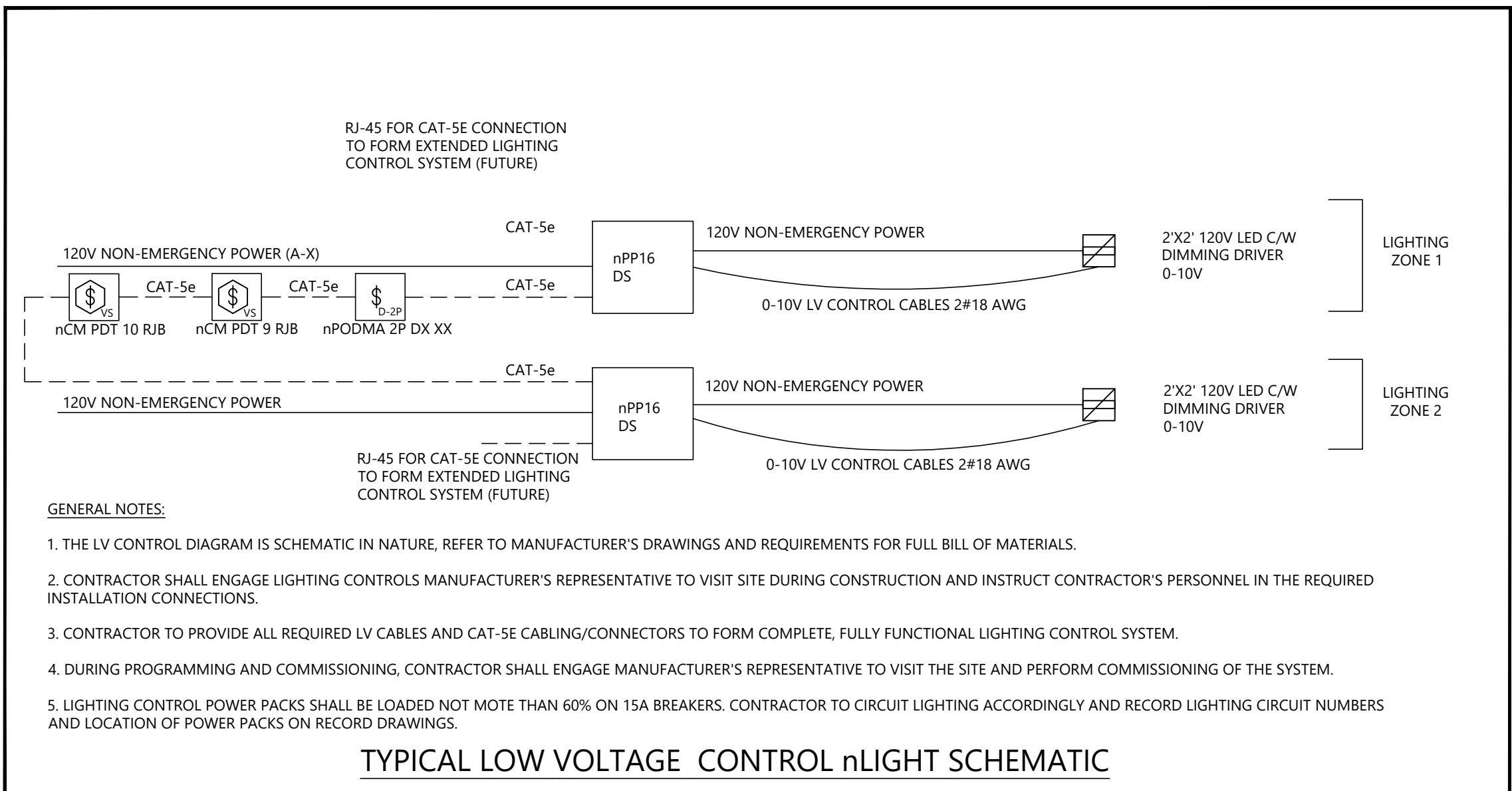
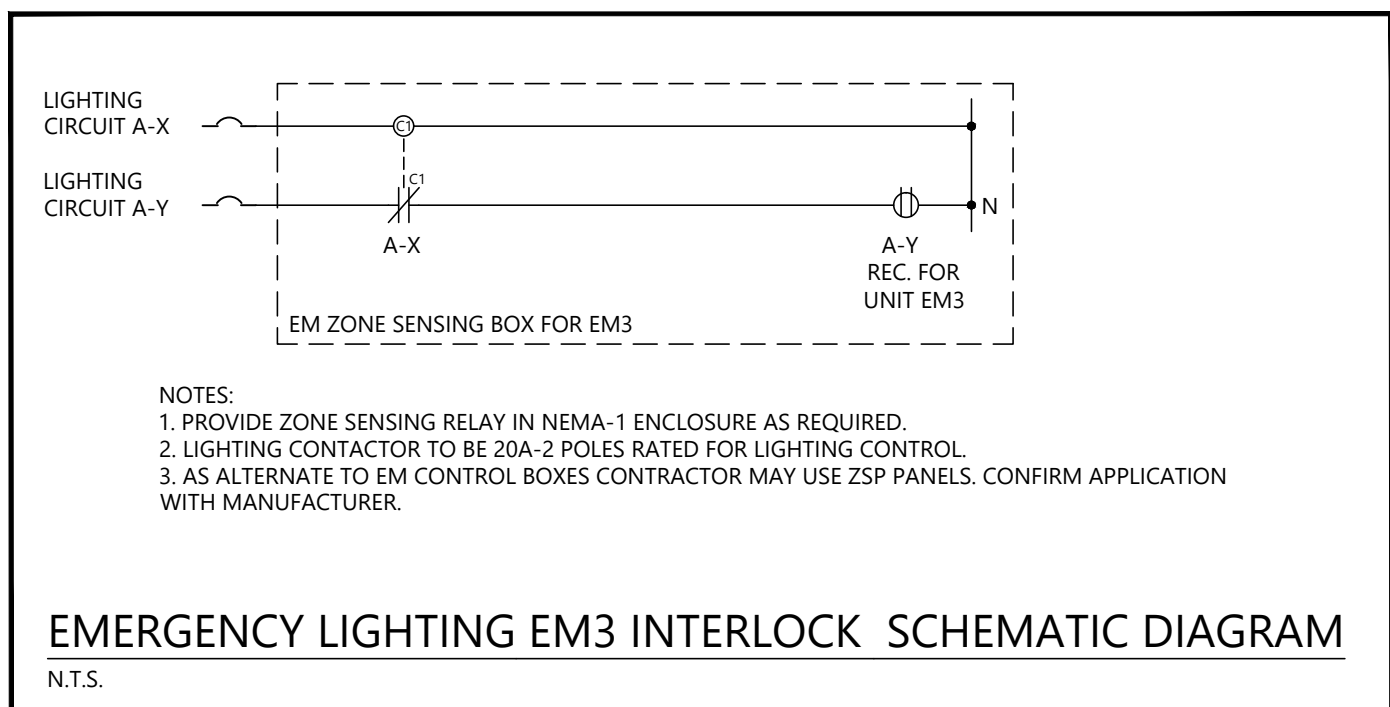
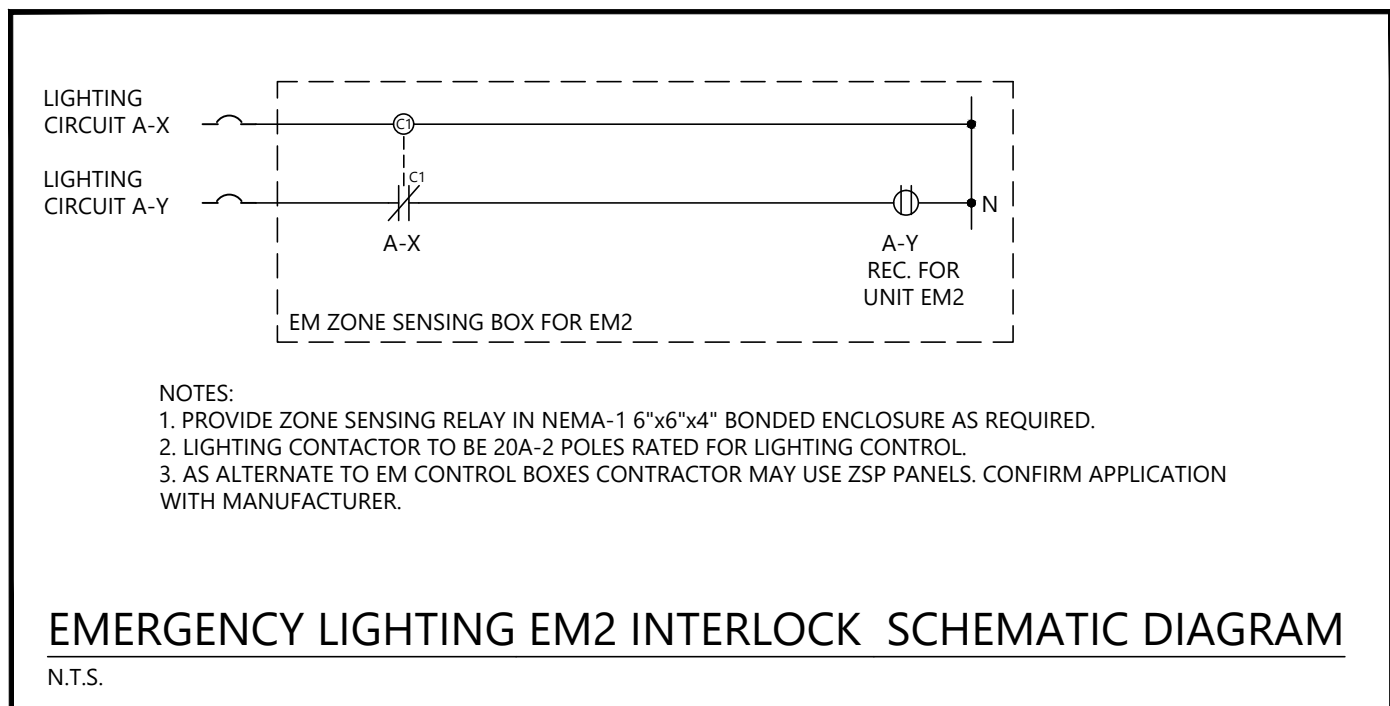
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EMERGENCY BATTERY PACK SUMMARY			
BATTERY PACK ID	LOCATION	BATTERY PACK WATTAGE CAPACITY	CONNECTED LOAD, WATTS
EM1	MECHANICAL ROOM /STORAGE	36	28
EM2	ELECTRICAL ROOM	144	120
EM3	JANITOR	144	102

EMERGENCY LUMINAIRE SCHEDULE		
TYPE	DESCRIPTION	WATTS
T1	READY-LITE EXTERIOR NMMP-LD7-GY-c/w WIRE GUARDS 060.0029-RL 2x5W LED	8
T2	READY-LITE RM-2-LD7 2x4W LED	8
T3	READY-LITE RM-2-LD9 2x5W LED	10
T4	READY-LITE RM-2-LD10 2x6W LED	12
EM1	READY-LITE LDX12-36-AD-2-LD7 LED	8
EM2	READY-LITE LDX12-144-AD-2-LD7 LED	8
EM3	READY-LITE LDX12-144-AD-2-LD7 LED	8

EXIT SIGN SCHEDULE	
TYPE/DESCRIPTION	READY-LITE CM-SS-SP-RL OR APPROVED EQUAL



LUMINAIRE SCHEDULE														Remarks
Type	Description	Lamp Type	Driver / Ballast Type	Lamps per Luminaire	Watts per Luminaire	CRI	Initial Lumens	Color Temperature (K)	Lamp Life (Hours)	Mounting	Manufacturer	Catalogue Number		
A	2x2' LED RECESSED	LED	120V DIM	1	28	80	4000	3500	60,000	T-BAR	LITHONIA	SPX 2x2 4000LM 80CRI 35K MPL MVOLT MW		
A1	2x2' LED RECESSED	LED	120V DIM	1	35	80	4800	3500	60,000	T-BAR	LITHONIA	SPX 2x2 4800LM 80CRI 35K MPL MVOLT MW		
A2	2x2' LED RECESSED	LED	120V DIM	1	28	80	4800	3500	60,000	DRYWALL	LITHONIA	SPX 2x2 4000LM 80CRI 35K MPL MVOLT MW C/W DGA 22		
BA	ARCHITECTURAL PENDANT	LED	120V DIM	1	17.6	80	2481	3500	-	PENDANT	EUREKA LIGHTING	EXPO 74545-48 LED 35K 80 120V DV AC 60 REG C/W SWIVEL 2820-16MM WHITE-WHE-WH		
C	ROUND DOWNLIGHT	LED	120V DIM	1	13.6	90	1070	3500	50,000	RECESSED	JUNO	JPDZ4-DB-ALO10-SWW5WD-3500K-90CRI-JPDZ4RDNCMF-MVOLT-ZT10-WWH		
D2	LENSED STRIPLIGHT	LED	120V DIM	1	23	80	2680	4000	50,000	SURFACE	COOPER	2SLSTP2040DD-UNV		
D4	LENSED STRIPLIGHT	LED	120V DIM	1	41	80	4927	4000	50,000	SURFACE	COOPER	4SLSTP4040DD-UNV		
F	OUTDOOR SCONE	LED	120V DIM	1	19.5	-	910	3000	-	SURFACE	WAC	WS-W1414-BZ		
F1	MINI SECURITY LIGHT	LED	120V DIM	1	11	-	663	3500	100,000	SURFACE	ACCULITE	MSL235KUNBZMS (BRONZE WITH MOTION SENSOR)		
U2	UNDERCABINET LIGHT	LED	120V	1	10.2	90	742	3000	50,000	SURFACE	LITHONIA	UCEL-24IN-30K-90CRI-WH-UCD JB-UC ERC-UC ERC24		
U3	UNDERCABINET LIGHT	LED	120V	1	14.8	90	1162	3000	50,000	SURFACE	LITHONIA	UCEL-36IN-30K-90CRI-WH-UCD JB-UC ERC-UC ERC24		
U4	UNDERCABINET LIGHT	LED	120V	1	19.5	90	1603	3000	50,000	SURFACE	LITHONIA	UCEL-48IN-30K-90CRI-WH-UCD JB-UC ERC-UC ERC24		
P	POLE LIGHT	LED	120V	TBD	TBD	-	9000	3000	-	POLE	SOLERA	SCSD-TBD-9000-3000K-UNV-SPD-CPL-TY4-TCO-PC-BK 12-FEET POLE CW PPB-1.8-1.8M PYRAMD PARKING LOT BASE BY FRASERWAY PREKAST LTD.		
General Notes (applies to all luminaires):														
A - Electrical Contractor is responsible for receiving, storage and reporting of damages whether luminaires are supplied by Owner or Contractor.														
B - Contractor is to provide one hour fire rated enclosure around all recessed fixtures where required by Code. All recessed luminaires shall be I.C. rated.														
C - All luminaires to be adequately attached directly to the building structure. All T-bar luminaires to be suspended independently of T-bar. Plastic inserts or anchors are not acceptable.														
D - Lot pricing of luminaires by manufacturers, distributors, wholesalers or suppliers will not be accepted.														
E - Cost allowances (if any in this project) for luminaires shall include all applicable taxes and freight cost only. Markups, installation, offloading, etc. shall be included in base tender quote.														
F - all luminaire shop drawings shall be submitted with driver information.														
Remarks:														
1 - MOUNT VERTICALLY ON COLUMN IN BASEMENT														
2 - MOUNT HORIZONTALLY ON WALL IN BASEMENT														



THE CITY OF QUESNEL
410 Kinchant Street
Quesnel B.C.
V2J 7J5



PROJECT NO. 00475

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4	ISSUED FOR TENDER ONLY R1	JUN 24/22
3	ISSUED FOR BUILDING PERMIT AND TENDER ONLY	JUN 15/22
2	ISSUED FOR PRE-TENDER REVIEW ONLY	JUN 10/22
1	ISSUED FOR REVIEW	SEP 29/21
NO.	REVISIONS	DATE

ELECTRICAL CONSULTANT:



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PROJECT:

Q-KIDS DAYCARE CENTRE

420 Webster Avenue
Quesnel, BC

DRAWING:

MECHANICAL AND PANEL SCHEDULES

PROJECT NO.: 2108	CHECKED BY: A.G.
DATE: JULY 26, 2021	SCALE: N.T.S.

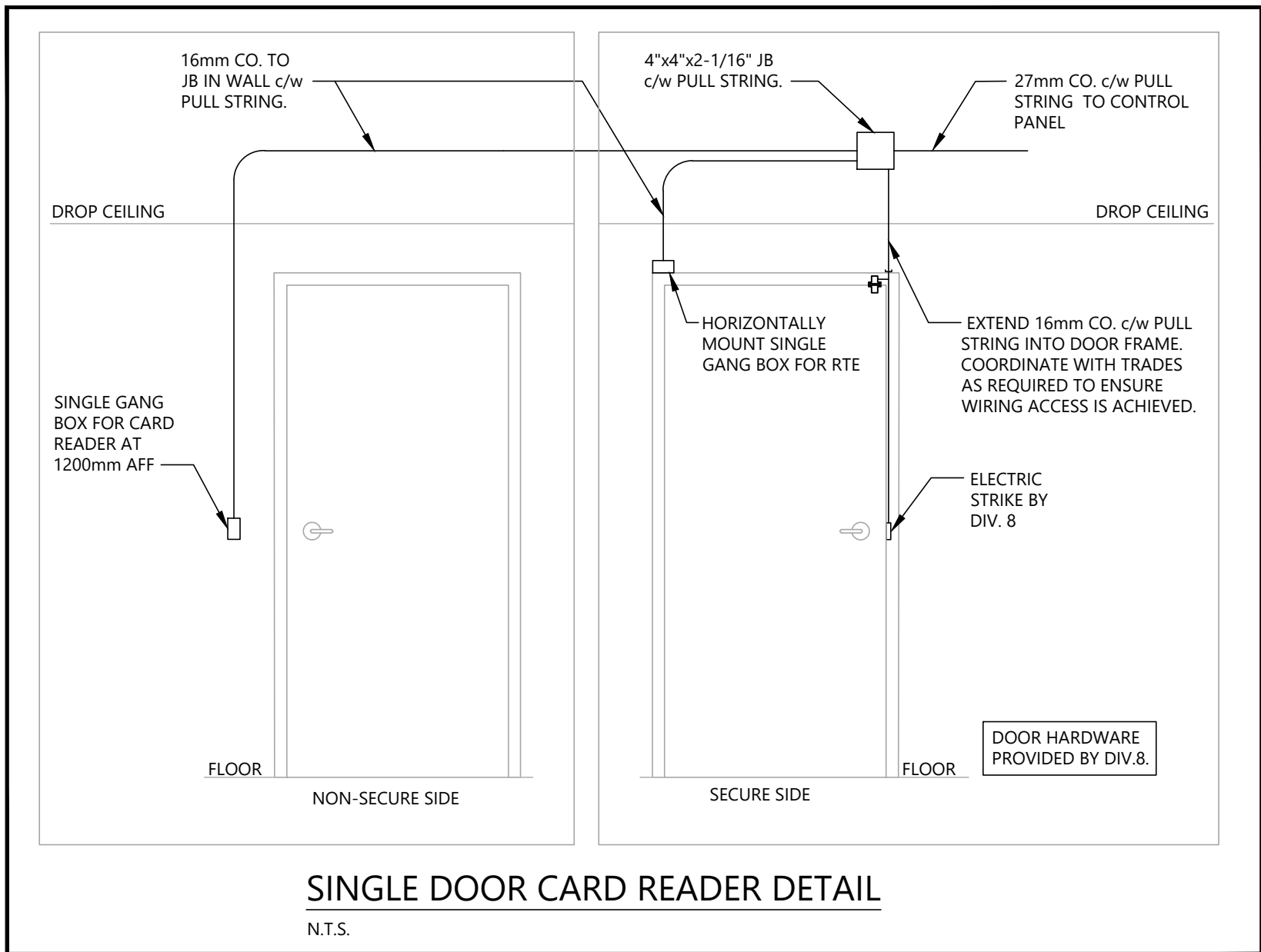
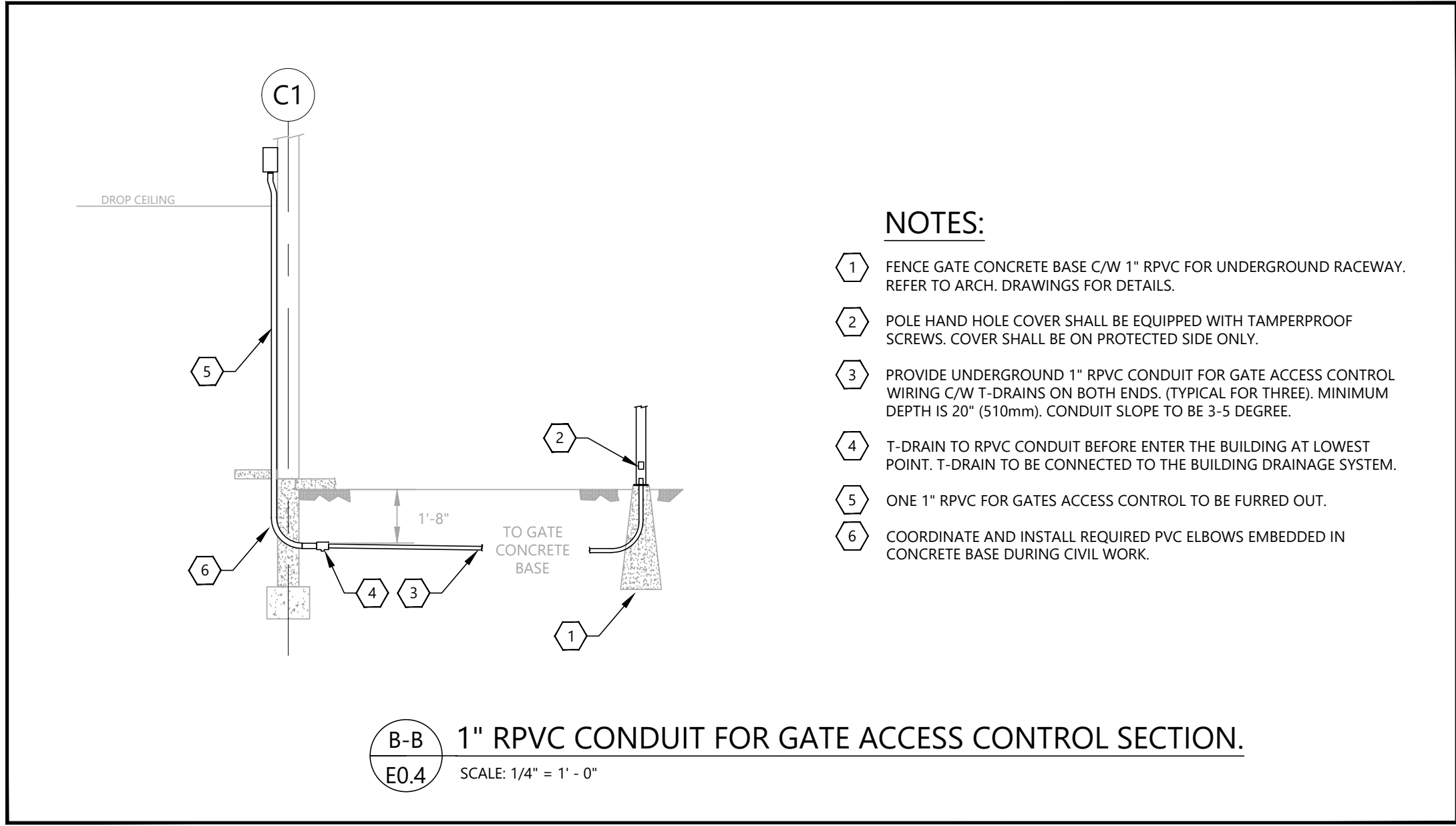
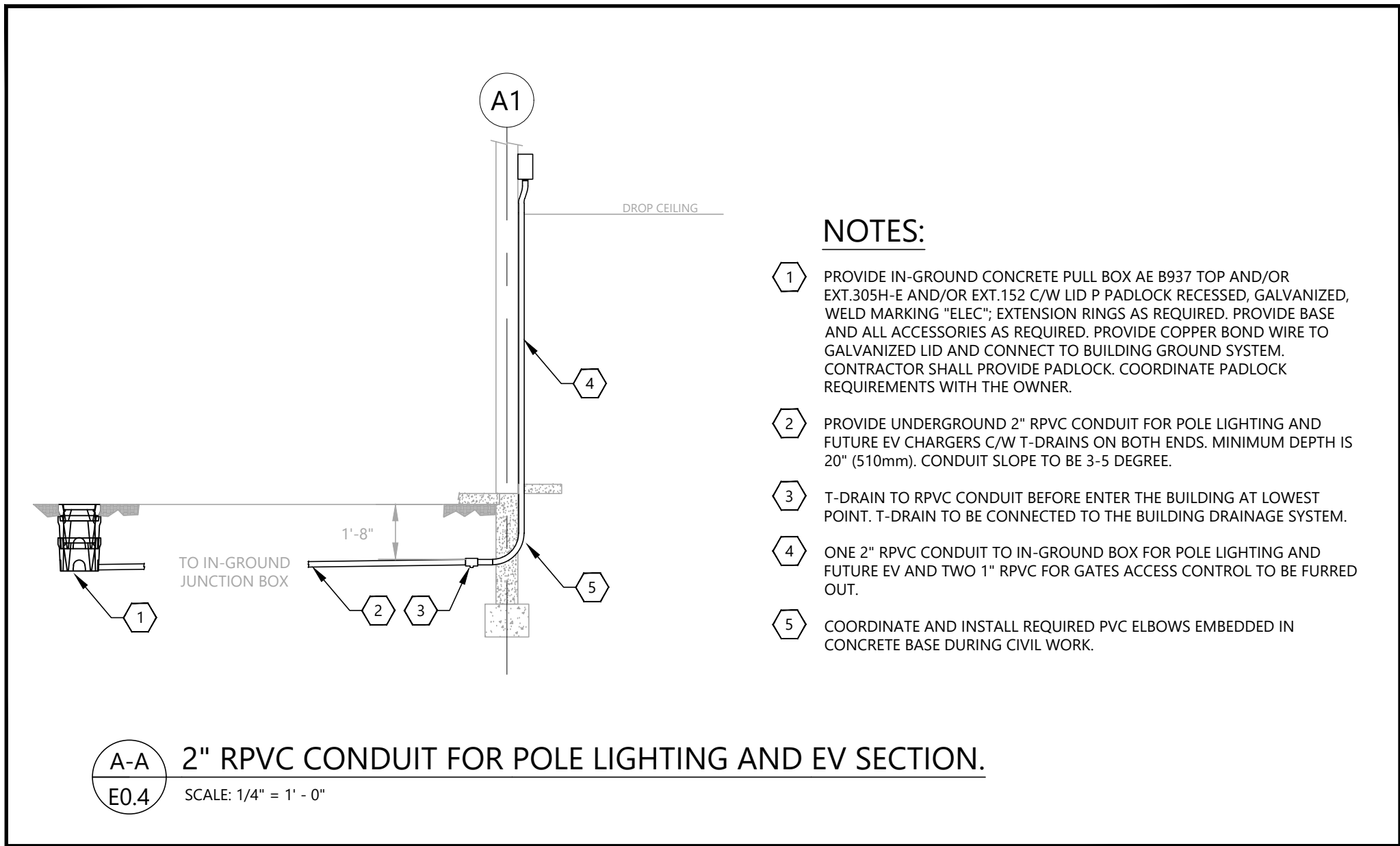
DRAWING NO.:

E2.2

MECHANICAL EQUIPMENT SCHEDULE																														
Project #2108 WEST QUESNEL CHILDCARE																														
LEGEND: E ELECTRICAL CONTRACTOR M MECHANICAL CONTRACTOR T-lh THERMOSTAT - LINE VOLTAGE T-lv THERMOSTAT - LOW VOLTAGE, BY DIV.15 T-rv THERMOSTAT - REVERSE ACTING T-D THERMOSTAT - DUCT, SCR CONTROLLER VFD VARIABLE FREQUENCY DRIVE Mag MAGNETIC STARTER (HOA) Man MANUAL STARTER										FPC FACTORY PROVIDED CONTROL CO CO/VG GAS SENSOR TC TIMECLOCK PCS PACKAGED CONTROL SYSTEM S-lh SWITCH - LINE VOLTAGE ON/OFF S-vs SWITCH - VARIABLE SPEED S-sp SWITCH - PRESSURE S-h SWITCH - HAND/OFF/AUTO S-f SWITCH - FLOAT OC OCCUPANCY SENSOR (LIGHTING CONTROLS SYSTEM) TS TIMER SWITCH				GENERAL NOTES: 1 REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL EQUIPMENT DETAILS. 2 LOCATION ON DRAWING NOT CONFIRMED. 3 ALL FEEDERS/WIRING AND CONDUITS TO BE UPSIZED TO OVERCOME VOLTAGE DROP AS REQUIRED. 4 ALL FEEDERS/WIRING IS COPPER. EQUIPMENT NOTES 1 UNIT SERVES FUR-1 2 UNIT SERVES FUR-2 3 EQUIPMENT SUPPLIED BY DIV. 16. FACTORY PROVIDED THERMOSTAT IS ON UNIT. 4 CONNECTED TO CCT A-39 5 CONNECTED TO CCT A-40 6																
										SUPPLY EQUIPMENT		FEEDER		EQUIPMENT RESPONSIBILITIES																
TAG	DESCRIPTION	LOCATION	HP	WATTS	FLA	MCA	VOLTAGE	PHASE	BREAKER	# OF POLES	SOURCE	CCT#	# OF CONDUCTORS	WIRE SIZE	SUPPLY INSTALL	UNIT CONNECTION	DISCONNECT FUSED	SUPPLY INSTALL	CONNECTION	STARTER TYPE	SUPPLY INSTALL	CONNECTION	TYPE	SUPPLY INSTALL	CONNECTION	EQUIPMENT NOTES				
ERV-1	HEAT RECOVERY UNIT	PRESCHOOL WASHROOM				9.0	120	1	15	1	PNL 'A'	A-33	2	#12	M	M	E	-	E	E	E	Mag	M	E	TC	M	E	E		
ERV-2	HEAT RECOVERY UNIT	AFTERSCHOOL WASHROOM				9.0	120	1	15	1	PNL 'A'	A-34	2	#12	M	M	E	-	E	E	E	Mag	M	E	TC	M	E	E		
DH-1	DUCT HEATER	PRESCHOOL WASHROOM		3500			240	2	20	2	PNL 'A'	A-35,37	2	#12	M	M	E	-	M	E	E	-	-	-	-	T-D	M	M	E	
DH-2	DUCT HEATER	AFTERSCHOOL WASHROOM		3500			240	2	20	2	PNL 'A'	A-36,38	2	#12	M	M	E	-	M	E	E	-	-	-	-	T-D	M	M	E	
HWT-1	DOMESTIC HOT WATER TANK	MECHANICAL ROOM				5.0	120	1	15	1	PNL 'A'	A-14	2	#12	M	M	E	-	E	E	E	-	-	-	-	S-lh	M	E	E	
HWRP-1	HOT WATER RECIRC. PUMP	MECHANICAL ROOM	1/6				120	1	16	1	PNL 'A'	A-14	2	#12	M	M	E	-	E	E	E	PCS	M	-	E	T-in	M	E	E	
EF-1	EXHAUST FAN	INFANT WASHROOM		80			120	1	15	1	PNL 'A'	A-39	2	#12	M	M	E	-	E	E	E	Man	E	E	E	S-lh	E	E	E	4
EF-2	EXHAUST FAN	STAFF WASHROOM		80			120	1	15	1	PNL 'A'	A-40	2	#12	M	M	E	-	E	E	E	Man	E	E	E	S-lh	E	E	E	5
EF-3	EXHAUST FAN	ACCESSIBLE WASHROOM		80			120	1	SEE NOTE 4		PNL 'A'	A-39	2	#12	M	M	E	-	E	E	E	Man	E	E	E	S-lh	E	E	E	4
EF-4	EXHAUST FAN	ELECTRICAL ROOM		80			120	1	SEE NOTE 5		PNL 'A'	A-40	2	#12	M	M	E	-	E	E	E	Man	E	E	E	S-lh	E	E	E	5
EF-5	EXHAUST FAN	JANITOR ROOM		80			120	1	SEE NOTE 4		PNL 'A'	A-39	2	#12	M	M	E	-	E	E	E	Man	E	E	E	T-rv	FPC	-	-	4
RH-1	RANGE HOOD	KITCHEN			1.9		120	1	SEE NOTE 4		PNL 'A'	A-39	2	#12	M	M	E	-	E	E	E	-	-	-	-	FPC	-	-	-	4
FUR-1	FURNACE	MECHANICAL BASEMENT			10.9		120	1	15	1	PNL 'A'	A-6	2	#12	M	M	E	-	E	E	E	FPC	M	E	E	T-in	M	E	E	
FUR-2	FURNACE	MECHANICAL BASEMENT			8.4		120	1	15	1	PNL 'A'	A-8	2	#12	M	M	E	-	E	E	E	FPC	M	E	E	T-in	M	E	E	
HP-1	HEAT PUMP	OUTSIDE OF STAIRS			21.1	25.8	240	1	40	2	PNL 'A'	A-21,23	2	#8	M	M	E	-	E	E	E	FPC	M	M	E	T-in	M	E	E	1
HP-2	HEAT PUMP	OUTSIDE OF STAIRS			17.3	20.9	240	1	35	2	PNL 'A'	A-22,24	2	#8	M	M	E	-	E	E	E	FPC	M	M	E	T-in	M	E	E	2
SP-1	SUMP PUMP	MECHANICAL BASEMENT	1/2				120	1	15	1	PNL 'A'	A-2	2	#12	M	M	E	-	E	E	E	FPC	M	M	E	S-f	M	E	E	
STP-1	STORM SUMP PUMP	MECHANICAL BASEMENT	1/2				120	1	15	1	PNL 'A'	A-4	2	#12	M	M	E	-	E	E	E	FPC	M	M	E	S-f	M	E	E	
FF-1	FORCE FLOW HEATER	SE ENTRANCE		4000			240	1	20	2	PNL 'A'	A-25,27	2	#10	E	E	E	-	E	E	E	-	E	E	E	FPC	E	E	E	3
FF-2	FORCE FLOW HEATER	SW ENTRANCE		4000			240	1	20	2	PNL 'A'	A-26,28	2	#10	E	E	E	-	E	E	E	-	E	E	E	FPC	E	E	E	3
FF-3	FORCE FLOW HEATER	NE ENTRANCE		4000			240	1	20	2	PNL 'A'	A-29,31	2	#10	E	E	E	-	E	E	E	-	E	E	E	FPC	E	E	E	3
FF-4	FORCE FLOW HEATER	NW ENTRANCE		4000			240	1	20	2	PNL 'A'	A-30,32	2	#10	E	E	E	-	E	E	E	-	E	E	E	FPC	E	E	E	3
BBH-1	BASEBOARD HEATER	STAFF WASHROOM		500			120	1	SEE NOTE 5		PNL 'A'	A-40	20	#12	E	E	E	-	E	E	E	-	E	E	E	FPC	E	E	E	5

PANEL A (2 TUBSx54CCTs)						LOCATION: ELECTRICAL ROOM		
NOTE	DESCRIPTION	BKR	CCT	PHASE	CCT	BKR	DESCRIPTION	NOTE
	EXIT SIGNS	15A	1	A	2	15A	SP-1	
	LTG BASEMENT	15A	3	B	4	15A	STP-1	
	LTG OFFICE AREA	15A	5	A	6	15A	FUR-1	
	LTG AFTERSCHOOL AREA	15A	7	B	8	15A	FUR-2	
	LTG INFANT AREA	15A	9	A	10	15A	SPARE	
	LTG PRESCHOOL AREA	15A	11	B	12	15A	BASEMENT GFCI REC.	
	LTG EXTERIOR SCONES	15A	13	A	14	15A	HWT-1, HWRP-1	
	LTG EXTERIOR POLES	15A	15	B	16	15A	SPARE	
	LTG INT./EXT. CONTROLS	15A	17	A	18	20A	GFCI REC. EXTERIOR	
	LTG SPARE	15A	19	B	20	15A	STAFF WC HAND DRYER	
	HP-1	40A	21	A	22	35A		
		2P	23	B	24	2P	HP-2	
	FF-1	20A	25	A	26	20A		
		2P	27	B	28	2P	FF-2	
	FF-3	20A	29	A	30	20A		
		2P	31	B	32	2P	FF-4	
	EVR-1	15A	33	A	34	15A	EVR-2	
	OH-1	20A	35	B	36	20A		
		2P	37	A	38	2P	DH-2	
	EF-1, EF-3, EF-5, RH-1	15A	39	B	40	15A	EF-2, EF-4, BBH-1	
	GFCI REC. EXTERIOR	20A	41	A	42	15A	MAIN ENTRANCE DOOR OPERATOR	
	GFCI REC. EXTERIOR	20A	43	B	44	15A	STAFF MICROWAVE REC.	
	HOUSEKEEPING REC.	15A	45	A	46	15A	STAFF FRIDGE REC.	
	OFFICE REC.	15A	47	B	48	20A	STAFF COUNTERTOP GFCI REC.	
	TELUS REC.	15A	49	A	50	15A	AFTERSCHOOL HOUSEKEEPING REC.	
	TRANSMITTER REC.	15A	51	B	52	15A	AFTERSCHOOL FRIDGE REC.	
	SECURITY REC.	15A	53	A	54	15A	AFTERSCHOOL MICROWAVE REC.	
	FIRE ALARM CONTROL PANEL	15A	55	B	56	20A	AFTERSCHOOL COUNTERTOP REC.	
	FIRE ALARM TRANSMITTER	15A	57	A	58	20A	AFTERSCHOOL COUNTERTOP REC.	
	KITCHEN WASHER/DRYER	30A	59	B	60	15A	PRE-SCHOOL HOUSEKEEPING REC.	
		2P	61	A	62	15A	PRE-SCHOOL FRIDGE REC.	
	KITCHEN WASHER	15A	63	B	64	15A	PRE-SCHOOL MICROWAVE REC.	
	KITCHEN FRIDGE REC.	15A	65	A	66	20A	PRE-SCHOOL COUNTERTOP GFCI REC.	
	KITCHEN DISHWASHER	20A	67	B	68	15A	PRE-SCHOOL COUNTERTOP GFCI REC.	
	KITCHEN MICROWAVE	15A	69	A	70	15A	HOUSEKEEPING REC.	
		40A	71	B	72	15A	HOUSEKEEPING REC.	
	KITCHEN RANGE	2P	73	A	74	15A	INFANTS FRIDGE REC.	
	KITCHEN FRIDGE REC.	15A	75	B	76	15A	INFANTS MICROWAVE REC.	
	KITCHEN COUNTERTOP REC.	20A	77	A	78	15A	INFANTS COUNTERTOP REC.	
	KITCHEN COUNTERTOP REC.	20A	79	B	80	15A	HOUSEKEEPING REC.	
	EV-1 (FUTURE)	40A	81	A	82	40A		
		2P	83	B	84	2P	EV-3 (FUTURE)	
	EV-2 (FUTURE)	40A	85	A	86	40A		
		2P	87	B	88	2P	EV-4 (FUTURE)	
	SPARE	15A	89	A	90	15A	SPARE	
	SPARE	15A	91	B	92	15A	SPARE	
	SPARE	15A	93	A	94	15A	SPARE	
	SPARE	15A	95	B	96	15A	SPARE	
	SPARE	15A	97	A	98	15A	SPARE	
	SPARE	15A	99	B	100	15A	SPARE	
	SPARE	15A	101	A	102	15A	SPARE	
	SPARE	15A	103	B	104	15A	SPARE	
	SPARE	15A	105	A	106	15A	SPARE	
	SPARE	15A	107	B	108	15A	SPARE	
FED FROM MAIN FUSED DISCONNECT SWITCH. PROTECTED BY 600A FUSES.								
NOTES:								
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2								

PROJECT NO.: 2108	CHECKED BY: A.G.
DATE: JULY 26, 2021	SCALE: N.T.S.



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4	ISSUED FOR TENDER ONLY. R1	JUN 24/22
3	ISSUED FOR BUILDING PERMIT AND TENDER ONLY	JUN 15/22
2	ISSUED FOR PRE-TENDER REVIEW ONLY	JUN 10/22
1	ISSUED FOR REVIEW	SEP 29/21
NO.	REVISIONS	DATE

ELECTRICAL CONSULTANT:



HARBOURFRONT BUSINESS CENTRE
SUITE 500 - 224 WEST ESPLANADE
NORTH VANCOUVER, BC, V7M 1A4
778.997.5175 <https://alegowest.ca>

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PROJECT:

**Q-KIDS DAYCARE
CENTRE**

**420 Webster Avenue
Quesnel, BC**

DRAWING:

DETAILS

PROJECT NO.: 2108	CHECKED BY: A.G.
DATE: JULY 26, 2021	SCALE: AS SHOWN

DRAWING NO.:

E2.3

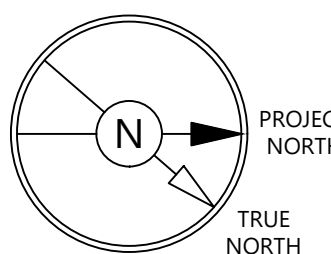
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1	ISSUED FOR COORDINATION	JUL 26/21
NO.	REVISIONS	DATE

ELECTRICAL CONSULTANT:

ALEGO
WEST

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PROJECT:

**Q-KIDS DAYCARE
CENTRE**

420 Webster Avenue
Quesnel, BC

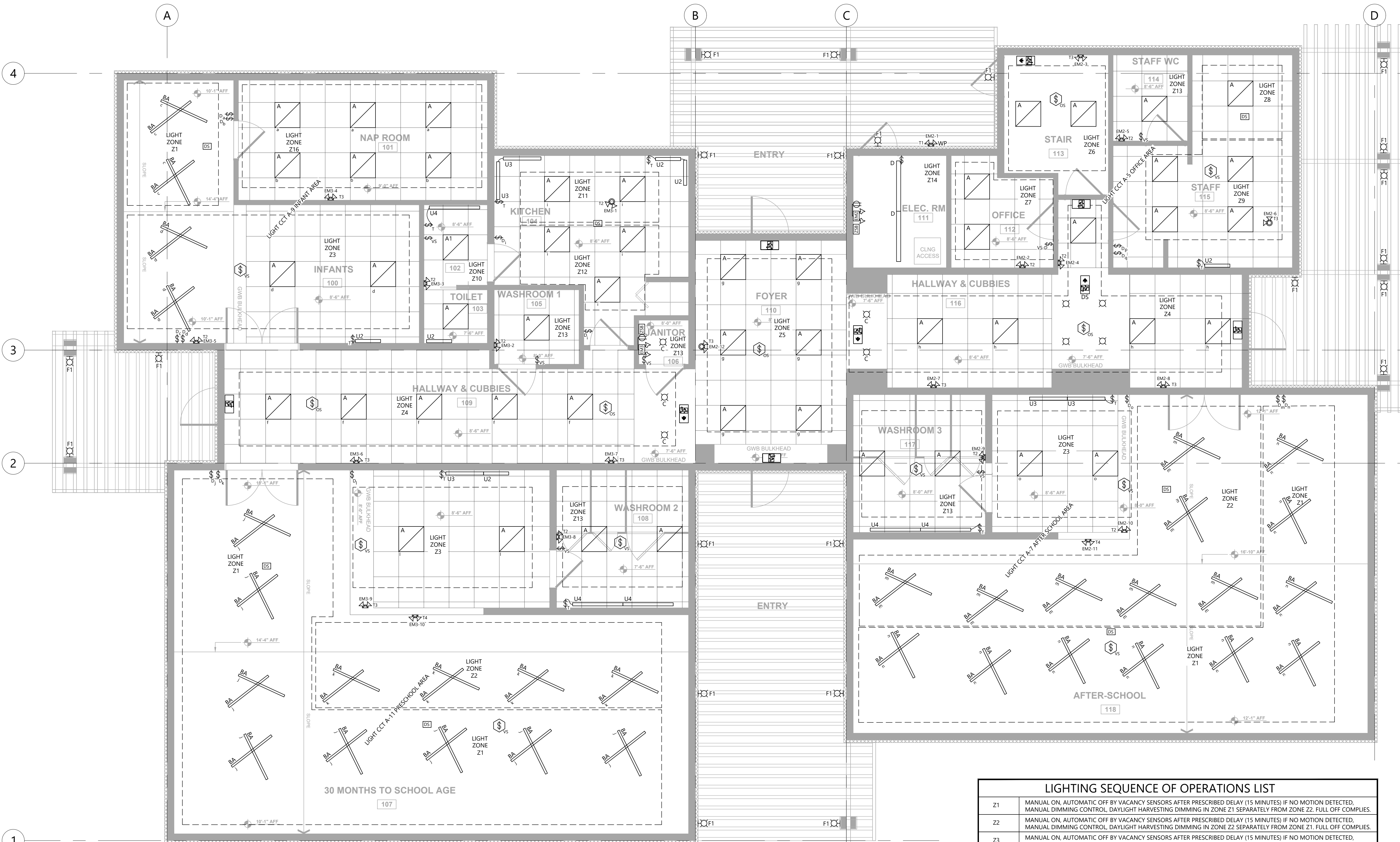
DRAWING:

**REFLECTED
CEILING PLAN**

PROJECT NO.:	CHECKED BY:
2108	A.G.
DATE:	SCALE:
JULY 26, 2021	1/4" = 1' - 0"

DRAWING NO.:

E3.0



LIGHTING SEQUENCE OF OPERATIONS LIST

Z1	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (15 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL, DAYLIGHT HARVESTING DIMMING IN ZONE Z1 SEPARATELY FROM ZONE Z2. FULL OFF COMPLIES.
Z2	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (15 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL, DAYLIGHT HARVESTING DIMMING IN ZONE Z2 SEPARATELY FROM ZONE Z1. FULL OFF COMPLIES.
Z3	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (15 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.
Z4	MANUAL ON, AUTOMATIC PARTIAL 50% OFF BY OCCUPANCY SENSORS AFTER PRESCRIBED DELAY (15 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. SCHEDULED SHUT OFF. FULL OFF COMPLIES.
Z5	MANUAL ON, AUTOMATIC PARTIAL 50% OFF BY OCCUPANCY SENSORS AFTER PRESCRIBED DELAY (15 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. SCHEDULED SHUT OFF. FULL OFF COMPLIES.
Z6	AUTOMATIC PARTIAL 50% OFF BY OCCUPANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED.
Z7	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.
Z8	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL, DAYLIGHT HARVESTING DIMMING. FULL OFF COMPLIES.
Z9	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.
Z10	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.
Z11	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL, DAYLIGHT HARVESTING DIMMING. FULL OFF COMPLIES.
Z12	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (10 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.
Z13	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (20 MINUTES) IF NO MOTION DETECTED, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.
Z14	MANUAL ON, MANUAL OFF. MECHANICAL AND ELECTRICAL ROOMS.
Z15	MANUAL ON, AUTOMATIC OFF BY VACANCY SENSORS AFTER PRESCRIBED DELAY (15 MINUTES) IF NO MOTION DETECTED, FULL OFF COMPLIES.
Z16	MANUAL ON, MANUAL OFF, MANUAL DIMMING CONTROL. FULL OFF COMPLIES.

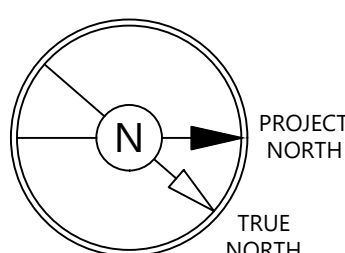
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1	ISSUED FOR COORDINATION	JUL 26/21
NO.	REVISIONS	DATE

ELECTRICAL CONSULTANT:

ALEGO
WEST

HARBOURFRONT BUSINESS CENTRE
SUITE 500 - 224 WEST ESPLANADE
NORTH VANCOUVER, BC, V7M 1A4
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PROJECT:

Q-KIDS DAYCARE CENTRE

420 Webster Avenue
Quesnel, BC

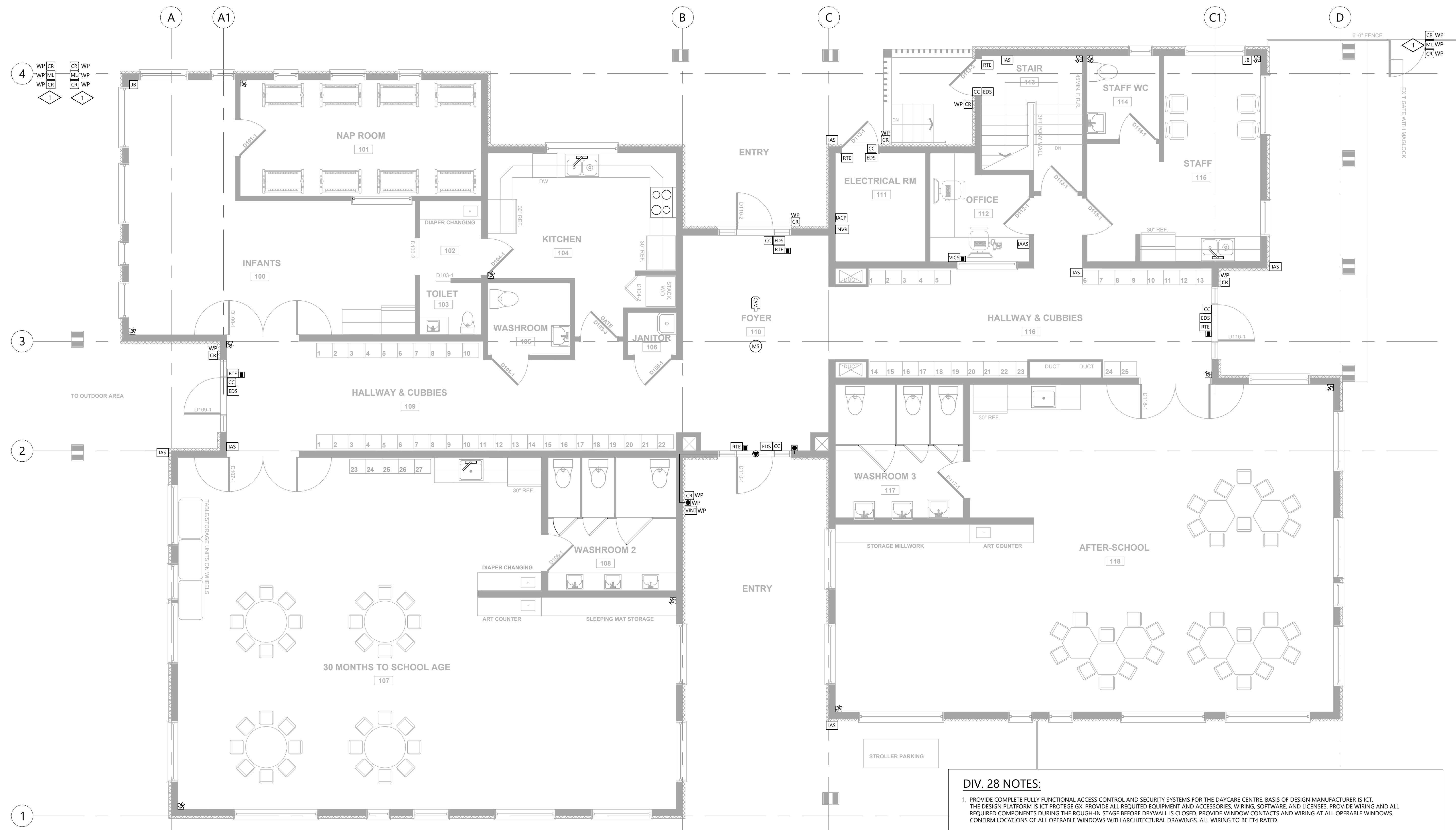
DRAWING:

POWER PLAN

PROJECT NO.: 2108	CHECKED BY: A.G.
DATE: JULY 26, 2021	SCALE: 1/4" = 1' - 0"

DRAWING NO.:

E4.0



KEY NOTES:

- 1 REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF GATES WITH MAGLOCKS. MAGLOCK AT GATE CONNECTED TO FIRE ALARM. REFER TO DRAWING E0.4 AND DRAWING E2.3 FOR DETAILS. COORDINATE INSTALLATION OF UNDERGROUND PVC CONDUIT TO GATE POLE WITH FENCE CONTRACTOR. ALL EXTERIOR PULL BOXES AND/OR JUNCTION BOXES TO BE INSTALLED ON PROTECTED SIDE OF THE GATE.

DIV. 28 NOTES:

- PROVIDE COMPLETE FULLY FUNCTIONAL ACCESS CONTROL AND SECURITY SYSTEMS FOR THE DAYCARE CENTRE. BASIS OF DESIGN MANUFACTURER IS ICT. THE DESIGN PLATFORM IS ICT PROTEGE GX. PROVIDE ALL REQUIRED EQUIPMENT AND ACCESSORIES: WIRING, SOFTWARE, AND LICENSES. PROVIDE WIRING AND ALL REQUIRED COMPONENTS DURING THE ROUGH-IN STAGE BEFORE DRYWALL IS CLOSED. PROVIDE WINDOW CONTACTS AND WIRING AT ALL OPERABLE WINDOWS. CONFIRM LOCATIONS OF ALL OPERABLE WINDOWS WITH ARCHITECTURAL DRAWINGS. ALL WIRING TO BE FT4 RATED.
- PROVIDE VIDEO INTERCOM SYSTEM AIPHONE JF SERIES WITH JF-DV VIDEO DOOR STATION, ONE JF-2MED VIDEO MASTER STATION IN OFFICE 112. PROVIDE DEDICATED PS-1820UL POWER SUPPLY. QUANTITY OF POWER SUPPLIES IS AS REQUIRED. VIDEO IMAGE ALSO TO BE CONNECTED TO VIDEO SURVEILLANCE SYSTEM AND RECORDED ON NVR NOT LESS THAN 16 DAYS.
- VIDEO SURVEILLANCE SYSTEM SHALL BE IP BASED. C/W 1080P CAMERA(S). NVR IS REQUIRED. VIDEO SURVEILLANCE SYSTEM CAMERA SHALL BE AVIGILON 2.0MP OR EQUAL. CAMERA SHALL BE SUPPLIED AND INSTALLED BY VIDEO SURVEILLANCE CONTRACTOR. CONTRACTOR IS TO PROVIDE REQUIRED BACK BOXES IN LOCATIONS AS INDICATED ON THIS DRAWING. CAT.6 CABLES. CABLES TO BE LABELED AND TERMINATED ON PATCH PANEL IN THE ELECTRICAL ROOM; LABELED AND TERMINATED IN EACH BACK BOX WITH A MINIMUM 9-INCH SLACK AND MALE CAT.6 CABLE CONNECTOR. PROVIDE CABLE TEST RESULTS FOR REVIEW.
- ACCESS CONTROL SYSTEM SHALL USE PROXIMITY TECHNOLOGY.
- PROVIDE COMPLETE RACEWAY SYSTEM FOR ACCESS CONTROL AND SECURITY SYSTEM WITH OUTLET BOXES, BACK BOXES, CONDUIT AND CAT.6 WIRING AS REQUIRED. ALL JUNCTION AND PULL BOXES SHALL BE ON MOUNTED ON SECURE SIDE ONLY. ALL OUTLETS SHALL BE 4"x4" (103 MMx103 MM) DEEP BOXES COMPLETED WITH A SINGLE GANG MUD RING AND SINGLE GANG COVER PLATE. PROVIDE PULL STRINGS IN ALL CONDUITS. CONDUITS SHALL BE 3/4" (19 MM) MINIMUM.
- PROVIDE CAT.6 CABLEING FOR FOUR WIRELESS ACCESS POINTS, TELEPHONE AND DATA OUTLETS AS INDICATED ON THE DRAWINGS.
- PROVIDE CABLEING FOR THE ACCESS CONTROL AND SECURITY SYSTEM AS REQUIRED.
- SUBMIT SHOP DRAWINGS FOR REVIEW BEFORE TO PLACE ORDER.
- PROVIDE ONE-YEAR WARRANTY FOR MATERIAL AND LABOUR. INCLUDE MANUFACTURER'S WARRANTY FOR ALL EQUIPMENT IN THE OPERATIONS AND MAINTENANCE MANUALS.
- ALL DEVICES AND WIRING SHALL BE APPROVED BY ULC, CSA OR OTHER ACCREDITED CERTIFICATION AGENCY RECOGNIZED BY THE AUTHORITY HAVING JURISDICTION.
- AS PER THE CITY OF QUESNEL PRE-APPROVED ACCESS CONTROL AND SECURITY CONTRACTOR IS TELUS SECURITY. CONTRACTOR IS CONTACT TO TELUS SECURITY FOR COORDINATION AND ADDITIONAL REQUIREMENTS FOR EQUIPMENT AND RACEWAY INSTALLATION.

ELECTRICAL SPECIFICATION

1. GENERAL

- 1.1 THE GENERAL REQUIREMENTS AND CONDITIONS OF THE CONTRACT SHALL APPLY AND GOVERN THIS SECTION OF THE SPECIFICATION.
- 1.2 THE CONTRACTOR SHALL VISIT THE SITE, ASCERTAIN FIELD CONDITIONS AND BECOME ACQUAINTED WITH ALL DRAWINGS BEFORE SUBMITTING A TENDER QUOTE. NO EXTRA CLAIM WILL BE ACCEPTED FOR LOSS, DAMAGE OR UNFORESEEN WORK DUE TO NON-COMPLIANCE WITH THIS REQUIREMENTS.
- 1.3 PROVIDE ALL ITEMS, NECESSARY LABOUR, MATERIAL, TOOLS, TRANSPORTATION, SERVICES AND DOCUMENTATION FOR THE COMPLETE FULLY FUNCTIONAL ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND/OR SPECIFIED HEREIN AND IN COMPLIANCE WITH CODE.
- 1.4 SHOULD ANY WORK AND MATERIALS NOT SHOWN ON THE DRAWINGS AND NOT MENTIONED IN SPECIFICATIONS THAT IS OBVIOUSLY NECESSARY OR REASONABLE IMPIED TO COMPLETE ELECTRICAL INSTALLATION AS REQUIRED, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.
- 1.5 WHERE DOUBT FOR INTERPRETATION OF DRAWINGS OR SPECIFICATION EXISTS, OBTAIN CLARIFICATION PRIOR TO TENDER.
- 1.6 COVID-19 CONTRACTOR SHALL FOLLOW CSA COVID-19 STANDARD PROTOCOLS FOR ALL CANADIAN CONSTRUCTION SITES, AND ALL PERTINENT WORKSAFE BC COVID-19 RELATED PROTOCOLS. ALL ASSOCIATED COSTS AND SCHEDULE REQUIREMENTS SHALL BE INCLUDED IN CONTRACTOR'S BASE TENDER.
- 1.7 COVID-19 CONTRACTOR SHALL ALLOW FOR THE LATEST EQUIPMENT DELIVERY TIMES AND BORDER ISSUES DUE TO COVID-19 RELATED SUPPLY CHAIN DISRUPTIONS, ALL COSTS AND SCHEDULE REQUIREMENTS SHALL BE INCLUDED IN CONTRACTOR'S BASE TENDER.

2. DEFINITIONS

- 2.1 THE WORD "CODE" SHALL MEAN 'APPLICABLE FEDERAL, PROVINCIAL AND MUNICIPAL BUILDING AND ELECTRICAL CODES, STANDARDS, RULES AND REQUIREMENTS, WORKERS' COMPENSATION BOARD REGULATIONS, MUNICIPAL BYLAWS, LOCAL FIRE DEPARTMENTS'.
- 2.2 THE WORD "PROVIDE" SHALL MEAN 'SUPPLY, INSTALL, CONNECT AND TEST'.
- 2.3 FIELD REVIEW MEANS A REVIEW OF THE WORK AT A BUILDING SITE THAT THE CONSULTANT CONSIDERS NECESSARY TO ASCERTAIN WHETHER THE WORK SUBSTANTIALLY COMPLIES WITH THE CONTRACT DOCUMENTS. FIELD REVIEWS ARE NOT AN INSPECTION OF THE WORK OR SAFETY AT THE CONTRACTOR-CONTROLLED SITE OR A SITE MANAGED BY OTHERS, NOR ARE THEY A REVIEW OF THE RELEVANT SAFETY PROGRAM.
- 2.4 RECORD DRAWINGS MEANS DRAWINGS PREPARED BY ELECTRICAL CONTRACTOR AS A RECORD OF WHAT WAS ACTUALLY CONSTRUCTED.
3. CODES, STANDARDS AND RULES
- 3.1 ALL ELECTRICAL INSTALLATION SHALL CONFORM WITH THE CURRENT EDITION OF RELEVANT BUILDING CODE, ELECTRICAL SAFETY ACT, APPLICABLE STANDARDS, RULES, AND REGULATIONS AND TO SATISFACTION OF THE AUTHORITY HAVING JURISDICTION AND DESIGN CONSULTANT.
4. FEES AND PERMITS
- 4.1 OBTAIN ALL APPLICABLE PERMITS AND LICENSES RELATED TO THE WORK AND PAY ALL FEES AND TAXES REQUIRED FOR THE ELECTRICAL INSTALLATION, INSPECTION AND RE-INSPECTION AS REQUIRED. INCLUDE ALL COST AND TAXES IN TENDER QUOTE.
5. CERTIFICATE OF INSPECTION
- 5.1 OBTAIN A CERTIFICATE OF INSPECTION AND APPROVAL FROM THE ELECTRICAL INSPECTION DEPARTMENT HAVING JURISDICTION OVER THE WORK. THE FINAL CERTIFICATE OF INSPECTION SHALL BE SIGNED BY THE ELECTRICAL INSPECTOR FOR THE PROJECT AND SUBMITTED TO THE CONSULTANT BEFORE OCCUPANCY DOCUMENT SUBMITTAL. CONTRACTOR'S DECLARATION IS NOT ACCEPTABLE.
6. MATERIALS
- 6.1 ALL MATERIALS SHALL BE NEW, OF THE TYPE SPECIFIED AND APPROVED BY CSA OR OTHER ACCREDITED CERTIFICATION AGENCY RECOGNIZED BY AUTHORITY HAVING JURISDICTION.
- 6.2 ALL MATERIALS SHALL BE HIGH QUALITY OF COMMERCIAL GRADE OR AS SPECIFIED AND FREE FROM DEFECTS.
7. SHOP DRAWINGS
- 7.1 WITHIN FIVE (5) WORKING DAYS OF AWARD OF CONTRACT, EACH COMPLETED SHOP DRAWING SHALL BE SUBMITTED FOR CONSULTANT'S REVIEW SIGNED, STAMPED AND DATED BY BOTH GENERAL AND ELECTRICAL CONTRACTORS BEFORE MANUFACTURING AND INSTALLATION CAN PROCEED.
- 7.2 REVIEW OF SHOP DRAWINGS BY CONSULTANT IS FOR SOLE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT AND FOR GENERAL ARRANGEMENT ONLY SHOWN ON THE CONSTRUCTION DOCUMENTS. THIS REVIEW DOES NOT MEAN APPROVAL OF DETAILED DESIGN INHERENT IN SHOP DRAWINGS, RESPONSIBILITY FOR WHICH REMAINS WITH THE CONTRACTOR SUBMITTED SHOP DRAWINGS.
- 7.3 BY SUBMITTING SHOP DRAWINGS THE CONTRACTOR SIGNIFIES THAT SHE/HI HAS CAREFULLY REVIEWED AND VERIFIED MATERIALS, FIELD MEASUREMENTS AND RELATED FIELD CONSTRUCTION CRITERIA.
- 7.4 SUBMITTED SHOP DRAWINGS WITHOUT CONTRACTOR'S STAMP, DATE AND SIGNATURE WILL NOT BE REVIEWED BY CONSULTANT, AND WILL BE RETURNED WITH WORDING "NOT REVIEWED".

8. WORKMANSHIP

- 8.1 ONLY QUALIFIED PERSONNEL SHALL BE EMPLOYED ON THIS CONTRACT. SUPERVISION SHALL BE BY JOURNEMEN ELECTRICIAN AND WORK CARRIED OUT BY JOURNEMEN AND/OR REGISTERED APPRENTICES AS PER TECHNICAL SAFETY BC REGULATIONS.
- 8.2 THE COMPLETE ELECTRICAL INSTALLATION SHALL BE CARRIED OUT IN NEAT AND WORKMANLIKE MANNER TO THE SATISFACTION OF THE CLIENT'S REPRESENTATIVE. PROJECT ELECTRICAL INSPECTOR AND THE CONSULTANT.
- 8.3 THE CLIENT'S REPRESENTATIVE AND THE CONSULTANT SHALL HAVE THE RIGHT TO RECTIFY ANY ITEM THAT, IN THEIR OPINION, DOES NOT CONFORM TO AN ACCEPTABLE APPEARANCE AND PERFORMANCE. THE CONTRACTOR MUST RECTIFY UNACCEPTABLE MATERIAL AND/OR WORKMANSHIP TO THE APPROVAL OF THE CLIENT'S REPRESENTATIVE AND CONSULTANT.
9. CLEAN UP
- 9.1 MAINTAIN ALL EQUIPMENT CLEAN DURING THE CONSTRUCTION AND AT THE COMPLETION OF THE PROJECT.
- 9.2 REMOVE ALL DEBRIS, SURPLUS MATERIALS AND PACKAGING FROM THE SITE PERIODICALLY, DO NOT ALLOW ACCUMULATE ON SITE.
- 9.3 CLEAN EXPOSED SURFACES AND RESTORE FINISH.
10. RENOVATION SPECIFICATION IN EXISTING BUILDINGS
- 10.1 PROVIDE FOR ALL WORKS FOR DEMOLITION AND REMODELING AS INDICATED ON THE DRAWINGS, DESCRIBED HEREIN AND AS REQUIRED.
- 10.2 MAINTAIN OPERATION OF ALL SYSTEMS AS REQUIRED.
- 10.3 OBTAIN COST OF PREMIUM TIME IN TENDER PRICE FOR WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE OF NORMAL WORKING HOURS NECESSARY TO MAINTAIN ALL ELECTRICAL SERVICES IN OPERATIONS.
- 10.4 THIS CONTRACTOR SHALL CONFIRM ALL LOCATIONS AND ROUTING OF ANY EXISTING SERVICES WHICH MAY AFFECT EQUIPMENT INSTALLATION (ELECTRICAL, MECHANICAL, OTHER RELEVANT TRADES) IN THE AREA OF RENOVATION.
- 10.5 CONTRACTOR SHALL REWIRE, EXTEND WIRING AND RACEWAYS, SUPPORT, ETC. OR INSTALL NEW FOR ANY RELOCATED ELECTRICAL DEVICES AND SERVICES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED.
- 10.6 CONTRACTOR SHALL RELOCATE, EXTEND WIRING AND RACEWAYS, REWIRE, OR RE-ROUTE ALL WIRING, JUNCTION AND PULL BOXES, RACEWAYS WHICH PASSES THROUGHOUT RENOVATED AREA TO ENSURE PROPER OPERATION OF ALL ELECTRICAL SYSTEMS OUTSIDE OF RENOVATED AREA.
- 10.7 ALL ELECTRICAL DEVICES SHOWN ON THE DRAWINGS SHALL BE NEW UNLESS OTHERWISE NOTED.
- 10.8 INCLUDE ALL COST FOR TEST AND VERIFICATION OF RELOCATED DEVICES IN TENDER QUOTE.
- 10.9 BEGINNING OF DEMOLITION MEANS THE CONTRACTOR ACCEPTS EXISTING CONDITIONS.
- 10.10 ALL MODIFIED AND NEW ELECTRICAL SYSTEMS SHALL BE FULLY FUNCTIONAL, AFTER RENOVATION AND BE ACCEPTED BY THE OWNER'S REPRESENTATIVE AND THE CONSULTANT.
- 10.11 CONTRACTOR SHALL COORDINATE AND ENSURE THAT A MINIMUM DISRUPTION OCCURS TO THE OWNER'S PRIMARY BUSINESS DURING THEIR NORMAL HOURS OF OPERATION. SHOULD POWER DISRUPTION OCCUR, THAT DISABLED THE FIRE ALARM SYSTEM, PROVIDE A FIRE WATCH IN AFFECTED AREAS IN ACCORDANCE WITH BC FIRE CODE AND AUTHORITY HAVING JURISDICTION.
- 10.12 ALL REMOVED AND UNUSED ELECTRICAL DEVICES AND MATERIALS SHALL BE TURNED OVER TO OWNER UNLESS OTHERWISE DIRECTED.
- 10.13 ANY ELECTRICAL DEVICES, LUMINAIRES, ETC. DAMAGED DURING AND AFTER REMOVAL SHALL BE REPLACED WITH NEW APPROVED EQUIPMENT AT CONTRACTOR'S COST.
11. PENETRATIONS
- 11.1 ALL CONCRETE FLOOR AND WALL PENETRATIONS SHALL BE SCANNED AND WRITTEN PERMISSION FROM STRUCTURAL CONSULTANT SHALL BE OBTAINED BEFORE COMMENCE ANY WORK FOR CORING, NOTCHING, AND DRILLING FOR ANCHORS.
- 11.2 ALL PENETRATION SHALL BE SEALED IN ACCORDANCE WITH CURRENT CODE. REFER TO FIRESTOPPING SECTION OF SPECIFICATION FOR PENETRATION FIRESTOPPING REQUIREMENTS.
- 11.3 BUILDING ENVELOPE PENETRATION RELATED TO ANY ELECTRICAL SYSTEMS SHALL BE FULLY WEATHERPROOF IN ACCORDANCE WITH BUILDING STANDARDS ACCEPTABLE TO AUTHORITY HAVING JURISDICTION. PROVIDE FOR REQUIRED SEALING SYSTEM AND ALL COMPONENTS (GASKETS, SEALING RINGS, COVERS, CAPS, ETC.), COORDINATE ALL REQUIREMENTS WITH WORKS WITH A/HI, BUILDING ENVELOPE CONSULTANT AND OTHER RELEVANT CONSULTANTS AND CONTRACTORS. ALEGO WEST DOES NOT PROVIDE CONSULTING SERVICE FOR BUILDING ENVELOPE, WATERPROOFING AND OTHER NON-ELECTRICAL WORKS.
12. CUTTING AND PATCHING
- 12.1 CUTTING AND PATCHING RELATED TO ELECTRICAL INSTALLATION SHALL BE DONE BY GENERAL CONTRACTOR.
- 12.2 NO CUTTING OF STRUCTURAL MEMBER SHALL BE DONE WITHOUT SCANNING AND WRITTEN PERMISSION FROM ARCHITECT AND/OR STRUCTURAL CONSULTANT.
13. PROTECTION OF EQUIPMENT
- 13.1 CONTRACTOR IS RESPONSIBLE FOR APPROPRIATE PROTECTION OF EQUIPMENT, FURNITURE, ELECTRICAL DATA AND FIBER OPTIC CABLES AND RACEWAYS FROM EXPOSURE TO ANY ELEMENTS PRESENT ON RENOVATION AREA (DUST, PAINT, ETC.).
- 13.2 CONTRACTOR SHALL PROVIDE SUFFICIENT PROTECTION (PLASTIC COVER, TAPES, CORRUGATED PAPER WRAPS, ETC) DURING THE CONSTRUCTION.
14. GUARANTEE
- 14.1 CONTRACTOR SHALL PROVIDE WRITTEN GUARANTEE FOR PERIOD OF ONE YEAR FROM FINAL ACCEPTANCE FOR ALL WORK AND MATERIAL COVERED IN THE WHOLE CONTRACT (NOT FINAL ACCEPTANCE OF DIVISION 26 WORK ONLY).
- 14.2 ANY DEFECT IN WORKMANSHIP OR MATERIAL WHICH MAY APPEAR WITHIN ONE YEAR FROM FINAL ACCEPTANCE OF THE WORK MUST BE PROMPTLY CORRECTED; AND MATERIAL OR EQUIPMENT REPLACED, REPAIRED OR INSTALLED NEW AT NO COST TO THE OWNER. THIS IS IN ADDITION TO ANY MANUFACTURER'S WARRANTY PROVIDED FOR SUPPLY OF MATERIALS AND EQUIPMENT.
15. COORDINATION WITH OTHER TRADES
- 15.1 COORDINATE ALL WORK, EQUIPMENT AND OUTLETS LOCATIONS AND SCHEDULE ELECTRICAL INSTALLATION WITH OTHER TRADES TO AVOID CONFLICTS DURING AND AFTER INSTALLATION.
- 15.2 REVIEW ALL RELEVANT DOCUMENTS (DRAWINGS, SHOP DRAWINGS, INSTALLATION MANUALS, ETC.) FOR ELECTRICAL INSTALLATION (ARCHITECTURAL, MECHANICAL, STRUCTURAL, SPECIALTY, ETC.) AND COORDINATE WITH OTHER TRADES FOR POSSIBLE RESTRICTIONS OF ELECTRICAL INSTALLATION. MAINTAIN ACCESS REQUIREMENTS FOR ELECTRICAL JUNCTION AND PULL BOXES DURING AND AFTER INSTALLATION AS PER CODE.
- 15.3 COORDINATE WITH OTHER TRADES FOR PROPER DRAINAGE OF ELECTRICAL CONDUITS, CONDUITS AND CABLES ENTERING THE BUILDING, PENETRATING THE ROOF AND PARTITIONS.
- 15.4 PROVIDE TO GENERAL CONTRACTOR DIMENSIONS AND COORDINATE LOCATION FOR REQUIRED CUTTING.

16. SHUTDOWNS

- 16.1 SCHEDULE ALL REQUIRED SHUTDOWNS WITH THE OWNER IN ADVANCE TO MINIMIZE DISRUPTION OF OPERATIONS.
- 16.2 INFORM OWNER IN WRITING FOR PERMISSION IF POWER SHUTDOWN IS NECESSARY AND STATE TIME AND DURATION OF POWER INTERRUPTION OF EACH DISTRIBUTION PANEL.
- 16.3 CONSULT WITH OWNER AND DETERMINE THE EQUIPMENT REQUIRED TO BE ENERGIZED 24-HOURS PER DAY AND ARRANGE FOR TEMPORARY POWER SERVICES, RACEWAY AND WIRING AS NECESSARY. INCLUDE ALL COSTS IN TENDER QUOTE.
17. REQUIRED WORK OUTSIDE OF DIVISION 26
- 17.1 REFER TO RELEVANT SECTIONS OF GENERAL SPECIFICATION TO PERFORM WORKS EXCLUDED FROM DIVISION 26 SCOPE OF WORK, BUT REQUIRED TO COMPLETE ELECTRICAL INSTALLATION. OBTAIN DIRECTION FROM RELEVANT CONSULTANT.
- 17.2 FOLLOWING WORK EXCLUDED FORM DIVISION 26 SCOPE OF WORK BUT REQUIRED TO BE PERFORMED IN ORDER TO FACILITATE ELECTRICAL INSTALLATION:
- EXCAVATION AND BACKFILL
 - WATERPROOFING
 - SCANNING OR X-RAYING FOR CUTTING AND CORING
 - ALL CIVIL WORK RELATED TO ELECTRICAL INSTALLATION
 - PRECAST OR CAST IN PLACE CONCRETE PRODUCTS RELATED TO ELECTRICAL INSTALLATION (PULL BOXES, LIGHT POLE BASES, PULL PITS, CONCRETE PADS FOR TRANSFORMERS, GENERATORS, SERVICE AND OTHER EQUIPMENT)
 - DRAINAGE EQUIPMENT RELATED TO ELECTRICAL INSTALLATION
 - FIRE-RATED ENCLOSURES FOR ELECTRICAL EQUIPMENT.
18. OPERATION AND MAINTENANCE MANUALS
- 18.1 PROVIDE SET OF OPERATION AND MAINTENANCE MANUALS FOR ALL MATERIALS AND EQUIPMENT SPECIFIED IN THIS CONTRACT IN FORM OF HARD COVER 3-RING BINDERS WITH INDEX TAB SEPARATORS AND ONE DIGITAL COPY IN PDF FORMAT.
- 18.2 THESE OPERATION AND MAINTENANCE MANUALS SHALL BE COMPLETED AND TURNED OVER TO THE OWNER NO LATER THAN APPLICATION FOR SUBSTANTIAL PERFORMANCE.
- 18.3 SUBMIT PDF COPY OF OPERATION AND MAINTENANCE MANUALS TO THE CONSULTANT FOR REVIEW BEFORE SUBSTANTIAL PERFORMANCE AND FINAL ACCEPTANCE OF THE PROJECT WILL BE GRANTED.
- 18.4 OPERATION AND MAINTENANCE MANUALS SHALL INCLUDE BUT NOT LIMITED TO: SERVICE EQUIPMENT, GENERATORS AND TRANSFER SWITCHES, DISTRIBUTION, PANELS, MOTOR CONTROL CENTRES, TRANSFORMERS, DISCONNECT SWITCHES AND STARTERS, LUMINAIRES AND LIGHTING CONTROL, EMERGENCY LIGHTING, EXIT SIGNS, FIRE ALARM, AND OTHER ELECTRICAL SYSTEMS SPECIFIED IN THIS CONTRACT. ALL LATEST REVIEWED LEGIBLE SHOP DRAWINGS, DRAWINGS FROM SUPPLIERS, TESTS AND COMMISSIONING DOCUMENTS, WIRING DIAGRAMS, INSTALLATION MANUALS, LIST OF EQUIPMENT LOCAL SUPPLIERS WITH ADDRESSES AND CONTACT INFORMATION.
19. RECORD DRAWINGS
- 19.1 CONTRACTOR TO MAINTAIN RECORDS OF ALL CHANGES DURING CONSTRUCTION AS DIRECTED BY SITE INSTRUCTIONS, CHANGE ORDERS, CHANGE DIRECTIVES AND OTHER CONSTRUCTION DOCUMENTS AFFECTED ELECTRICAL INSTALLATION ON SITE. DRAWINGS MAY INCLUDE MEASUREMENTS, ELEVATIONS AND SIZES, UNDERGROUND CONDUIT ROUTES AND LAYOUTS IN SLABS.
- 19.2 CONTRACTOR'S RECORD DRAWINGS SHALL REFLECT CHANGES IN DEVICE LOCATION AND CIRCUITING.
- 19.6 A HOLIDAY WORK ADDRESS IF HORIZONTAL CABLING INSTALLATION AND TERMINATION IS USED IN CONTRACT, FIRE ALARM DEVICE ADDRESSES, ALL HOME RUNS, JUNCTION AND PULL BOXES, ABANDONED RACEWAY SYSTEMS.
- 19.3 A CLEAN SET OF RECORD DRAWINGS SHALL BE ON SITE DURING CONSTRUCTION WITH APPROVED AND INSTALLED CHANGES RECORDED.
- 19.4 CONSULTANT MAY REVIEW OF PROGRESS OF RECORD DRAWINGS DURING PERIODICAL FIELD REVIEWS.
- 19.5 SUBMIT TWO HARDCOPY SETS OF RECORD DRAWINGS MARKED UP IN RED INK TO DIVISION 26 CONSULTANT FOR REVIEW AND DIGITAL RECORD DRAWING PRODUCTION BASED ON CONTRACTOR'S MARK-UPS.
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