

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

DESIGN • PLANNING • CONSULTING • MANAGEMENT

Box 4451, QUESNEL, BC V2J 3J6
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PROJECT NO. 00475

11		
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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:

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:

SYMBOL LEGENDS AND DRAWING LIST

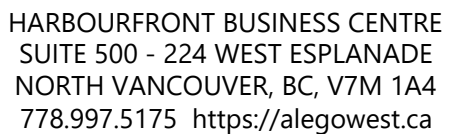
PROJECT NO.: 2108	CHECKED BY: A.G.
DATE: JULY 26, 2021	SCALE: N.T.S.

DRAWING NO.:

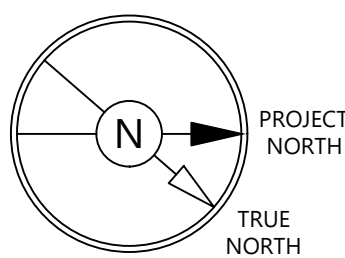
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5	ISSUED FOR COORDINATION WITH UTILITIES REV.2	NOV 02/21
4	ISSUED FOR REVIEW	SEP 29/21
3	ISSUED FOR COORDINATION WITH UTILITIES REV.1	SEP 28/21
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PROJECT:

Q-KIDS DAYCARE CENTRE

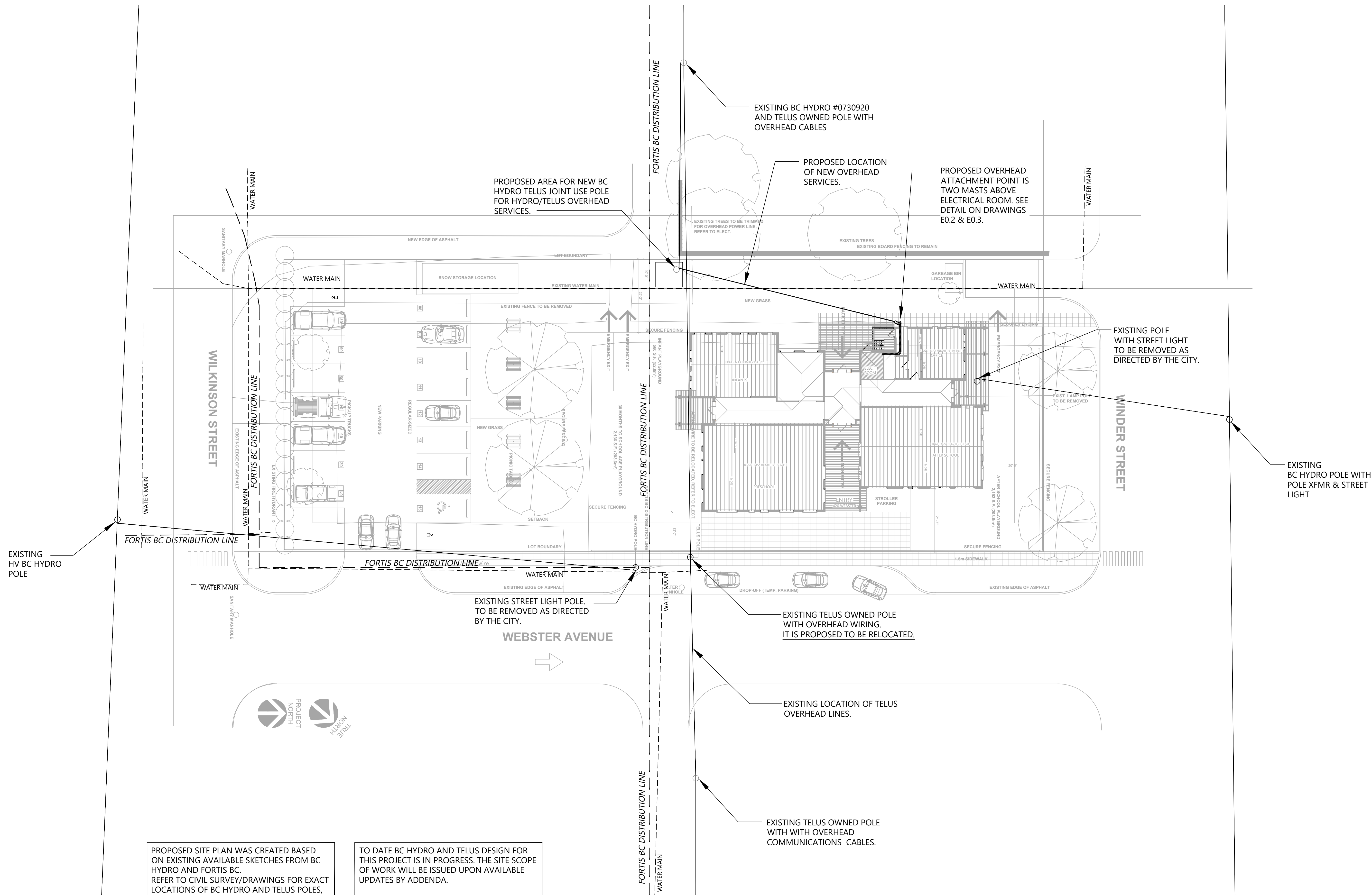
**420 Webster Avenue
Quesnel, BC**

DRAWING:
PROPOSED SITE
PLAN

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

DRAWING NO.:

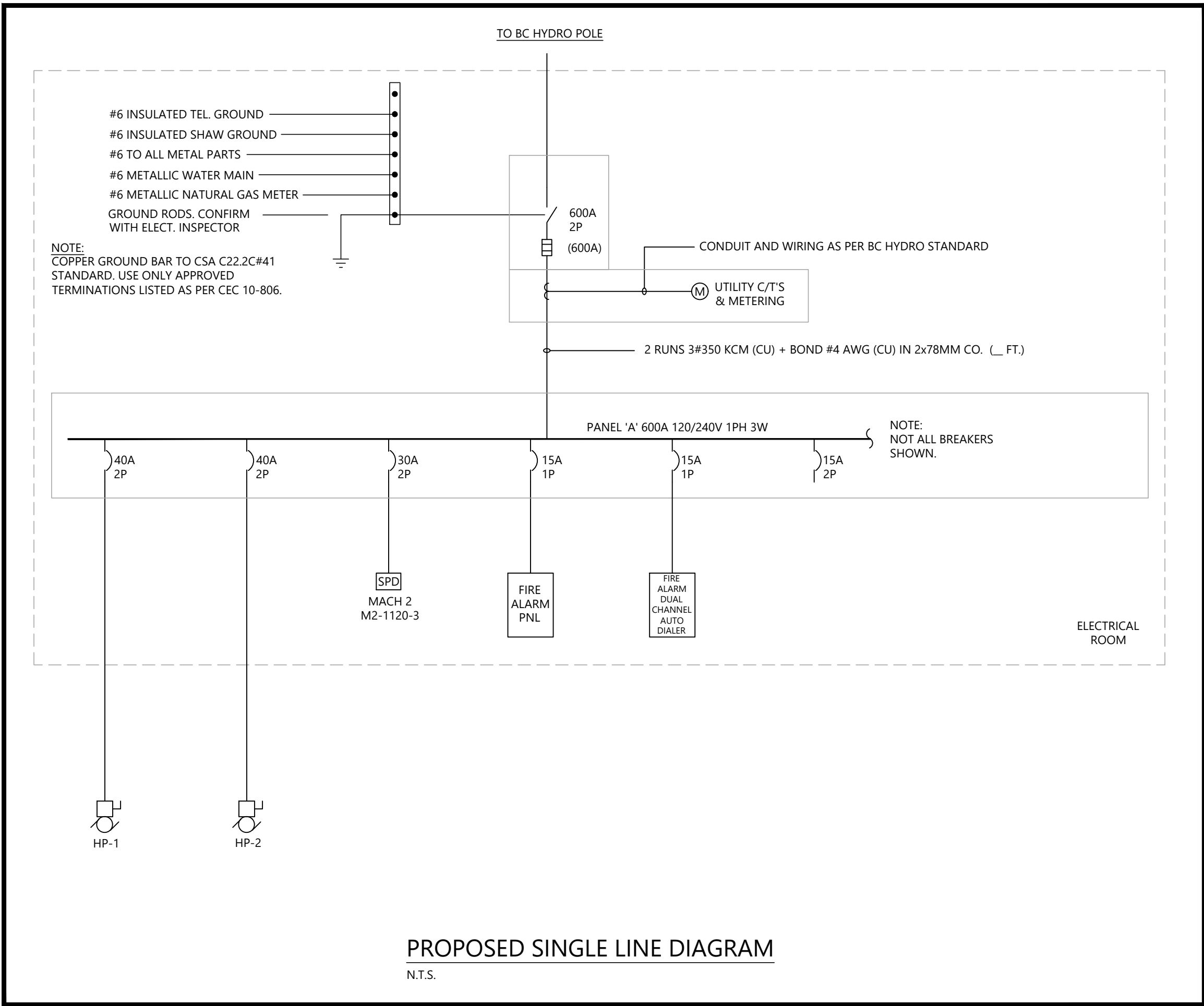
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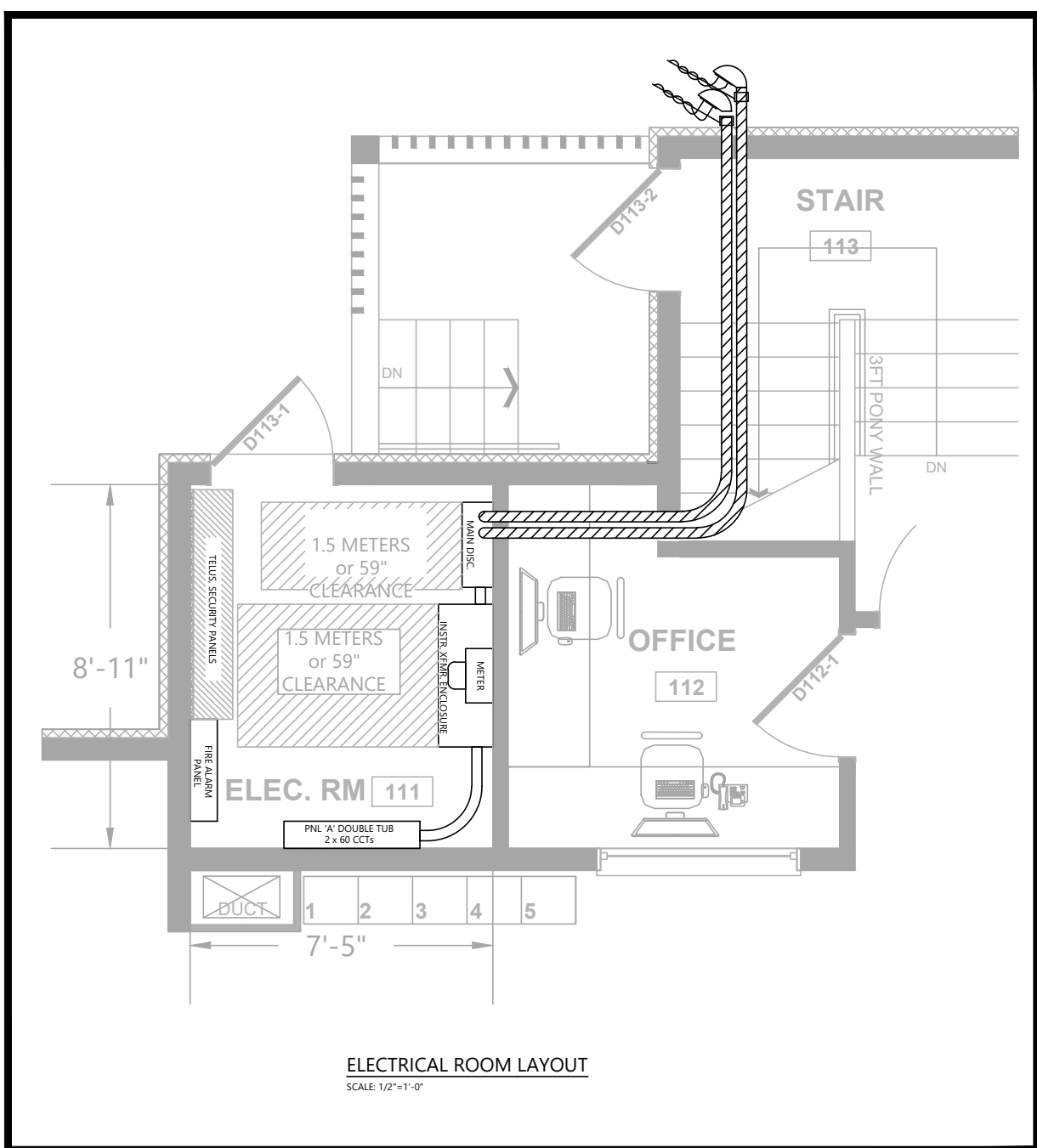
PROPOSED SITE PLAN WAS CREATED BASED ON EXISTING AVAILABLE SKETCHES FROM BC HYDRO AND FORTIS BC.
REFER TO CIVIL SURVEY/DRAWINGS FOR EXACT LOCATIONS OF BC HYDRO AND TELUS POLES, UNDERGROUND GAS AND WATER LINES, ETC.

TO DATE BC HYDRO AND TELUS DESIGN FOR THIS PROJECT IS IN PROGRESS. THE SITE SCOPE OF WORK WILL BE ISSUED UPON AVAILABLE UPDATES BY ADDENDA.

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



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	=				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					



CITY OF Quesnel

THE CITY OF QUESNEL
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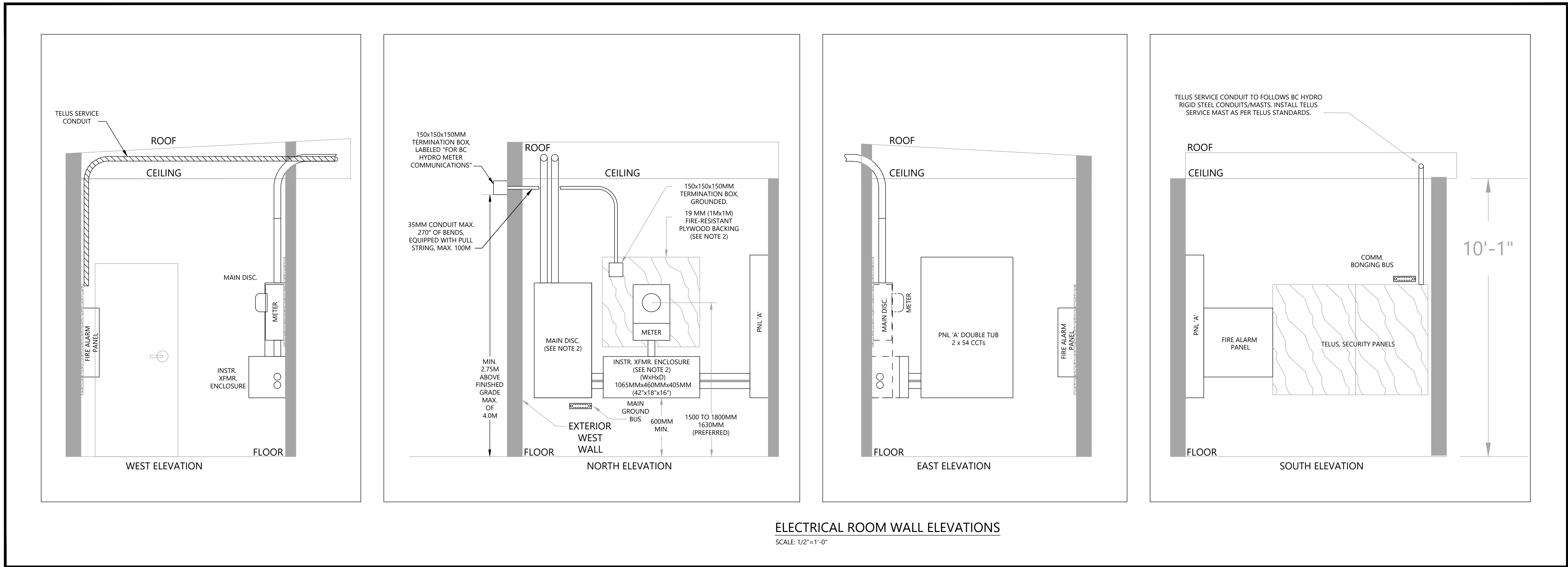
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PROJECT NO. 00475

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ELECTRICAL CONSULTANT:



ALEGO WEST

HARBOURFRONT BUSINESS CENTRE
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PROJECT NORTH
TRUE NORTH

PROJECT:
Q-KIDS DAYCARE CENTRE

420 Webster Avenue
Quesnel, BC

DRAWING:
SINGLE LINE DIAGRAM AND SERVICE DETAILS

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

DRAWING NO.:

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PROJECT:

**Q-KIDS DAYCARE
CENTRE**

420 Webster Avenue
Quesnel, BC

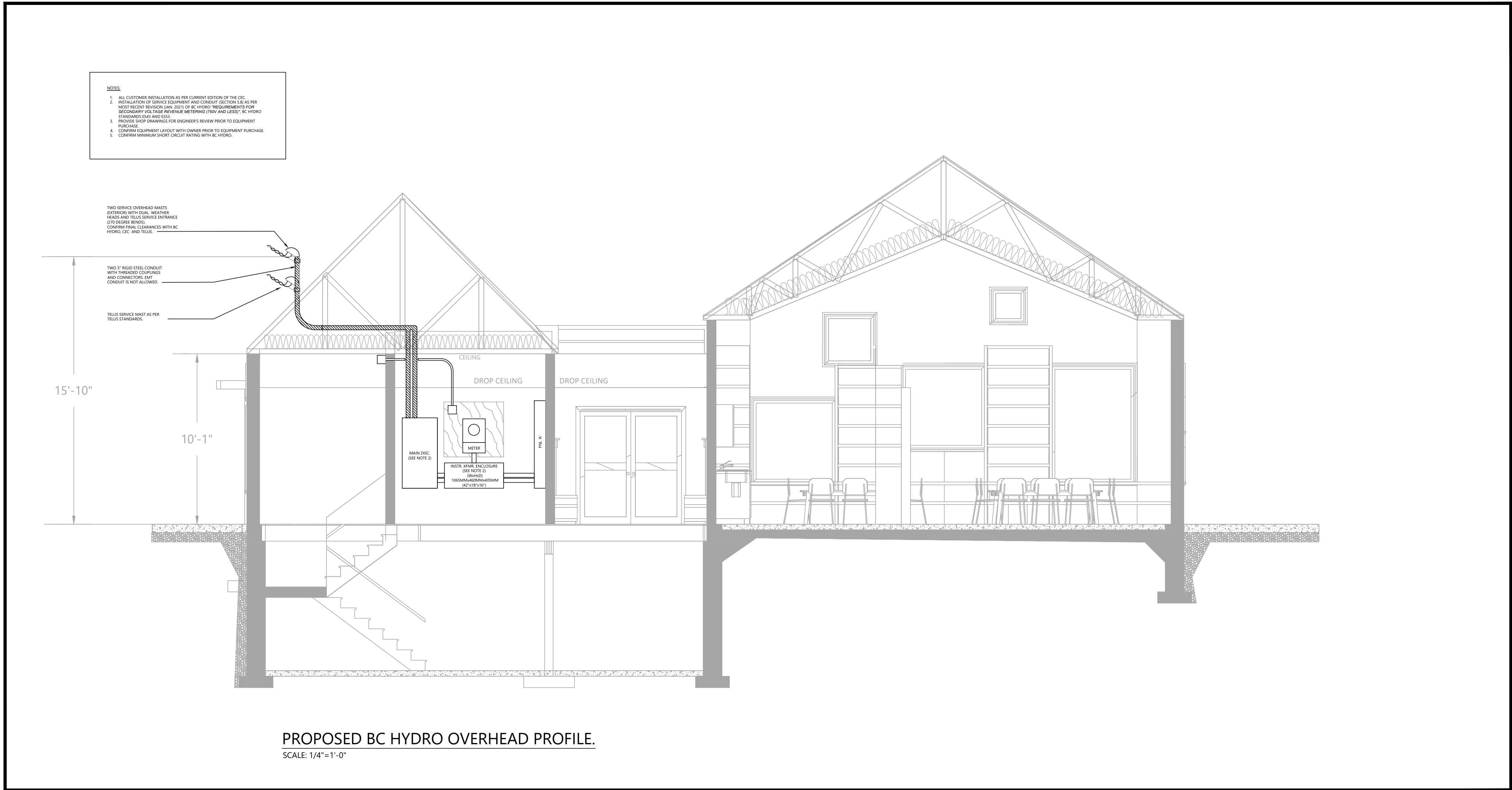
DRAWING:

**SERVICE
PROFILE**

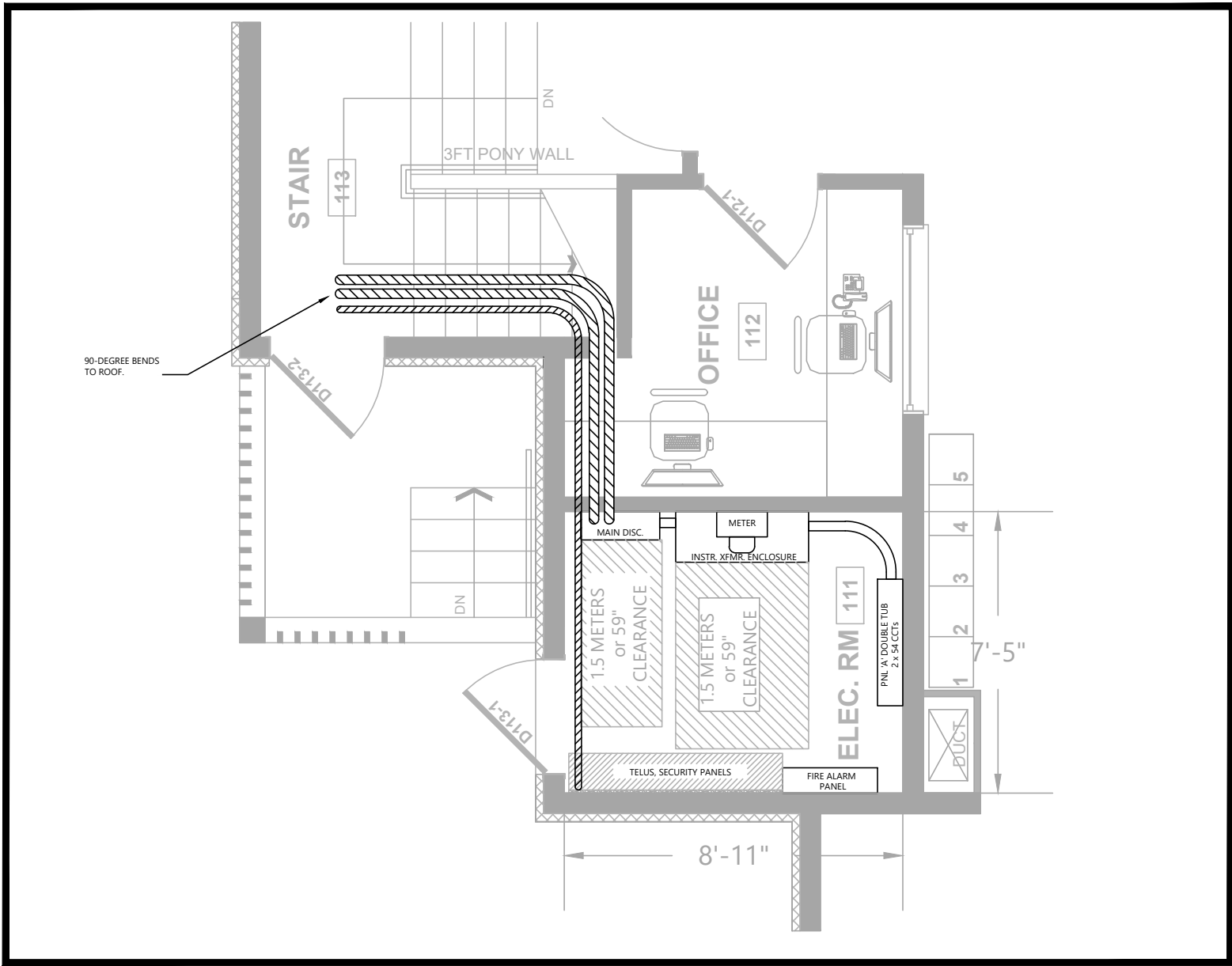
PROJECT NO.: 2108	CHECKED BY: A.G.
DATE: JULY 26, 2021	SCALE: 1/4" = 1' - 0"

DRAWING NO.:

E0.3

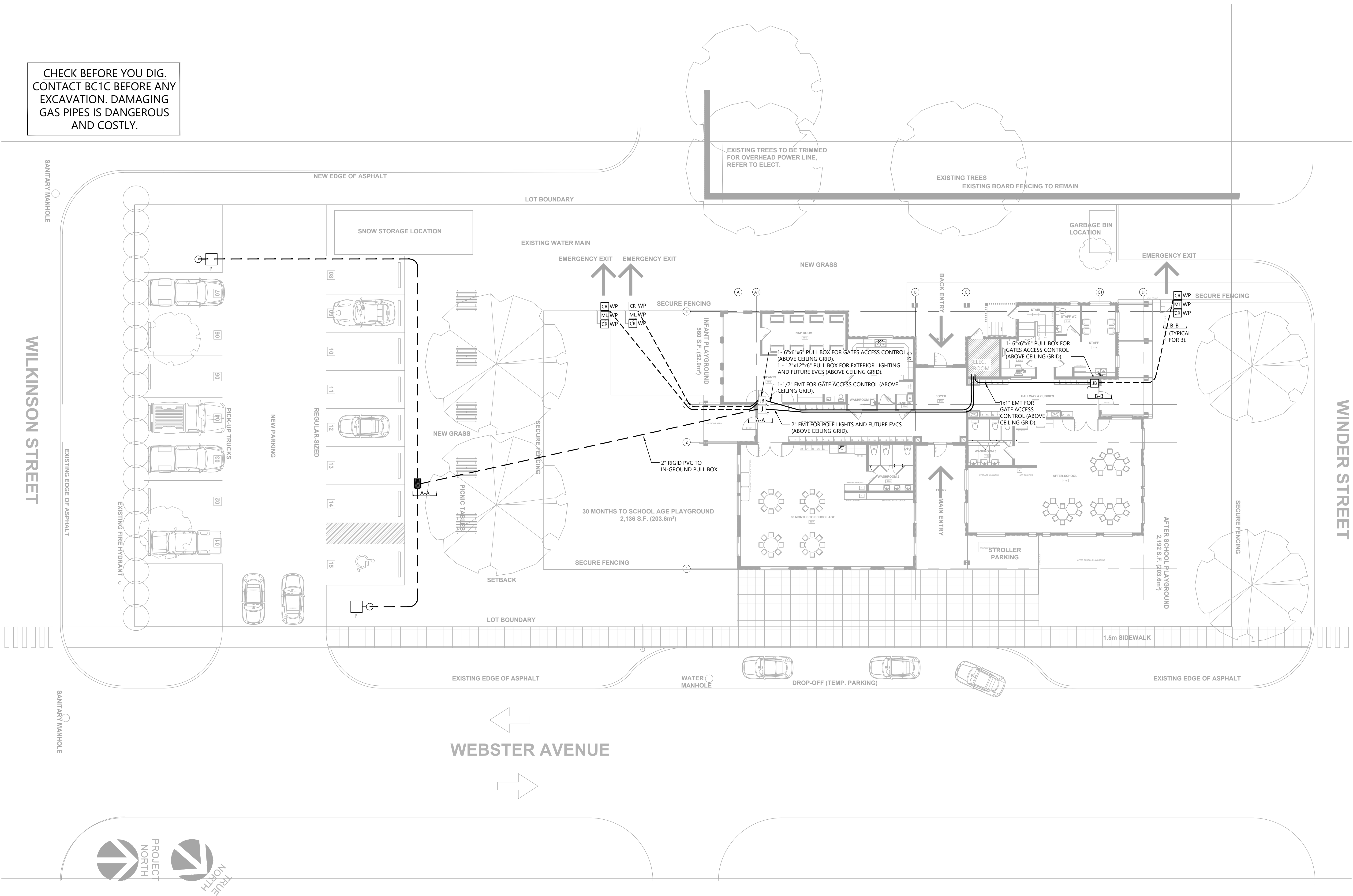


PROPOSED BC HYDRO OVERHEAD PROFILE.
SCALE: 1/4"=1'-0"



PROPOSED BC HYDRO OVERHEAD MAST LAYOUT
SCALE: 1/4"=1'-0"

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



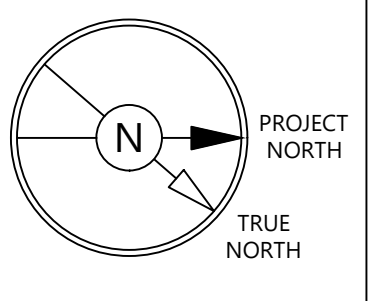
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ELECTRICAL CONSULTANT:

ALEGO WEST

HARBOURFRONT BUSINESS CENTRE
SUITE 500 - 224 WEST ESPLANADE
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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



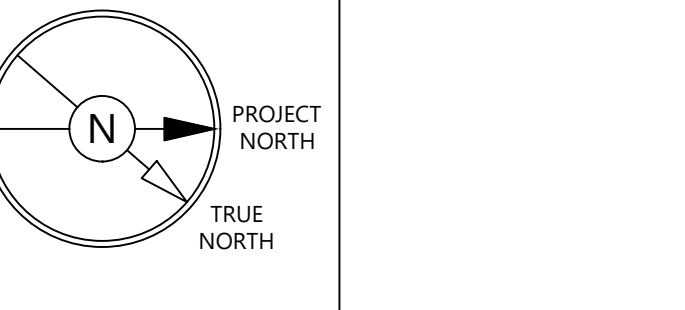
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PROJECT:

Q-KIDS DAYCARE CENTRE

**420 Webster Avenue
Quesnel, BC**

DRAWING:

**BASEMENT
POWER AND
LIGHTING PLAN**

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

DRAWING NO.:

E1.0

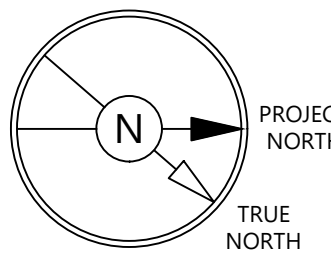
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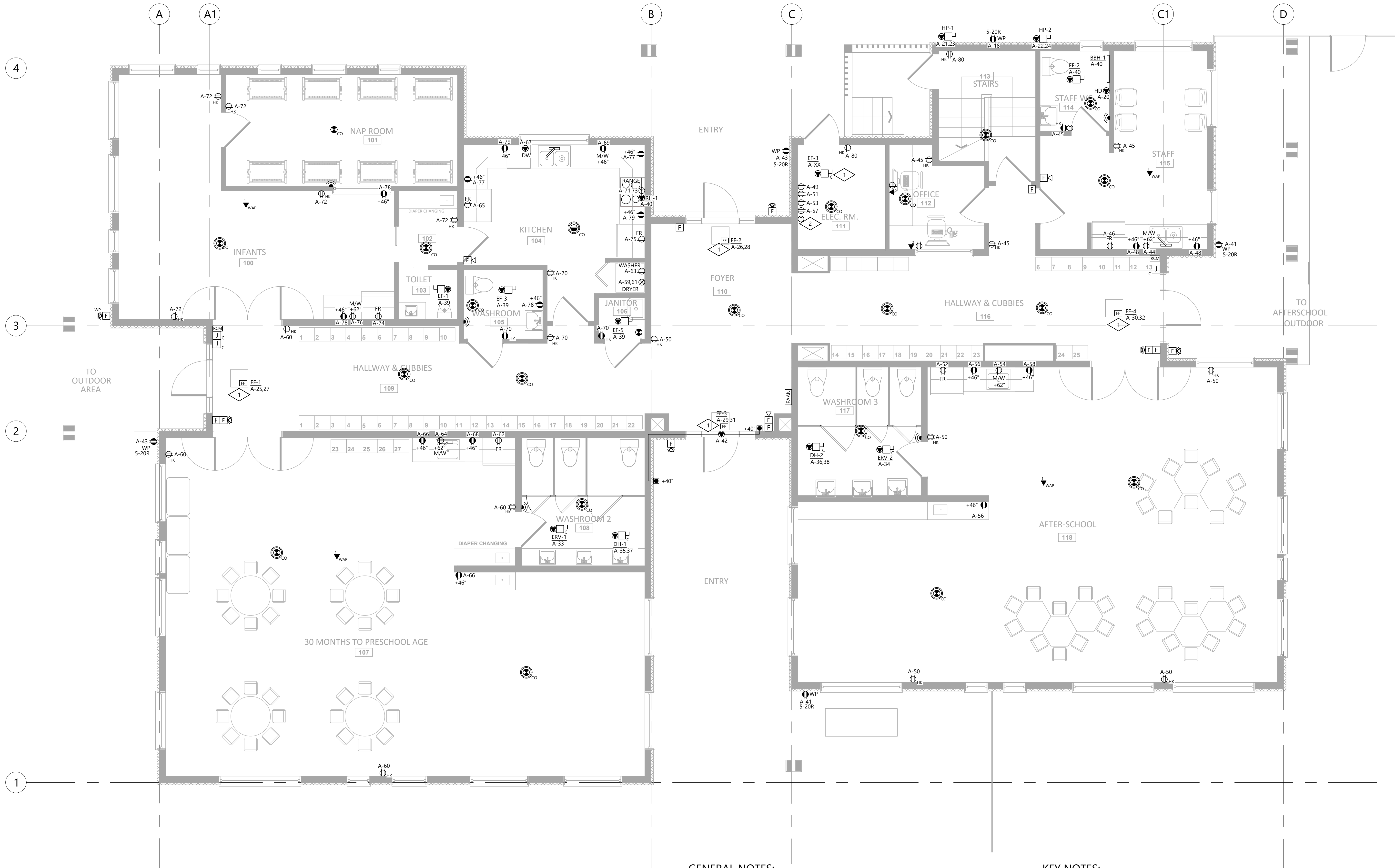
DRAWING:

POWER PLAN

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DRAWING NO.:

E2.0



EMERGENCY LUMINAIRE SCHEDULE		
TYPE	DESCRIPTION	WATTS
T1	READY-LITE EXTERIOR NMMP-LD7-GY-c/w WIRE GUARDS 460.0029-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

NOTES:

1. PROVIDE ZONE SENSING RELAY IN NEMA-1 6"x6"x4" BONDED ENCLOSURE AS REQUIRED.
2. LIGHTING CONTACTOR TO BE 20A-2 POLES RATED FOR LIGHTING CONTROL.
3. AS ALTERNATE TO EM CONTROL BOXES CONTRACTOR MAY USE ZSP PANELS. CONFIRM APPLICATION WITH MANUFACTURER.

EMERGENCY LIGHTING EM2 INTERLOCK SCHEMATIC DIAGRAM

N.T.S.

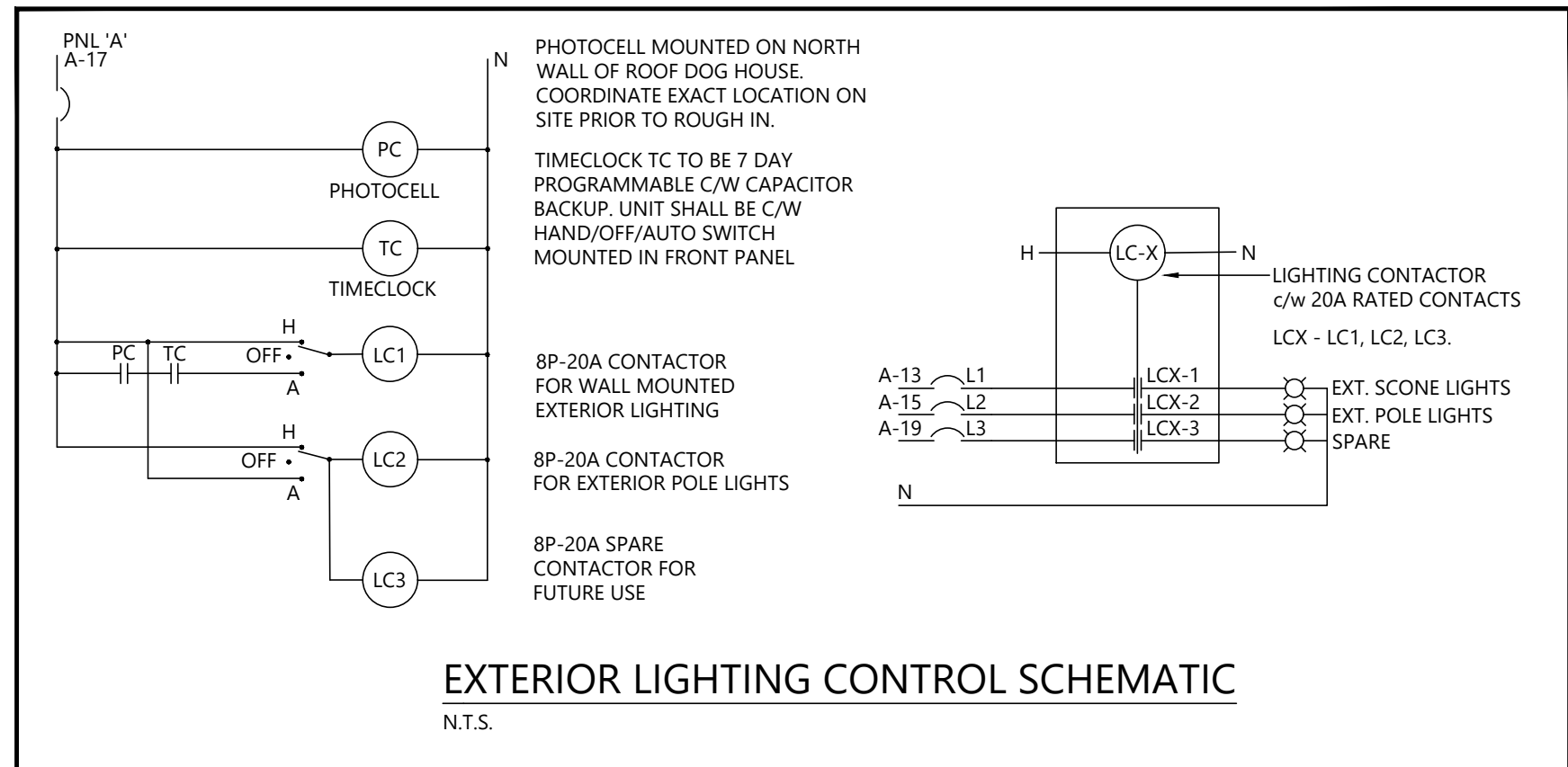
The diagram shows a schematic for an EM3 interlock system. It features two input lines on the left: 'LIGHTING CIRCUIT A-X' and 'LIGHTING CIRCUIT A-Y'. These lines enter a dashed rectangular box labeled 'EM ZONE SENSING BOX FOR EM3'. Inside the box, the 'A-X' line passes through a normally open contact labeled 'A-X'. The 'A-Y' line passes through a normally open contact labeled 'A-Y'. Both lines then connect to a common terminal labeled 'N'. A label 'REC. FOR UNIT EM3' is placed near the 'A-Y' contact. The entire schematic is enclosed in a dashed rectangular box.

NOTES:

1. PROVIDE ZONE SENSING RELAY IN NEMA-1 ENCLOSURE AS REQUIRED.
2. LIGHTING CONTACTOR TO BE 20A-2 POLES RATED FOR LIGHTING CONTROL.
3. AS ALTERNATE TO EM CONTROL BOXES CONTRACTOR MAY USE ZSP PANELS. CONFIRM APPLICATION WITH MANUFACTURER.

EMERGENCY LIGHTING EM3 INTERLOCK SCHEMATIC DIAGRAM

N.T.S.



PROJECT:

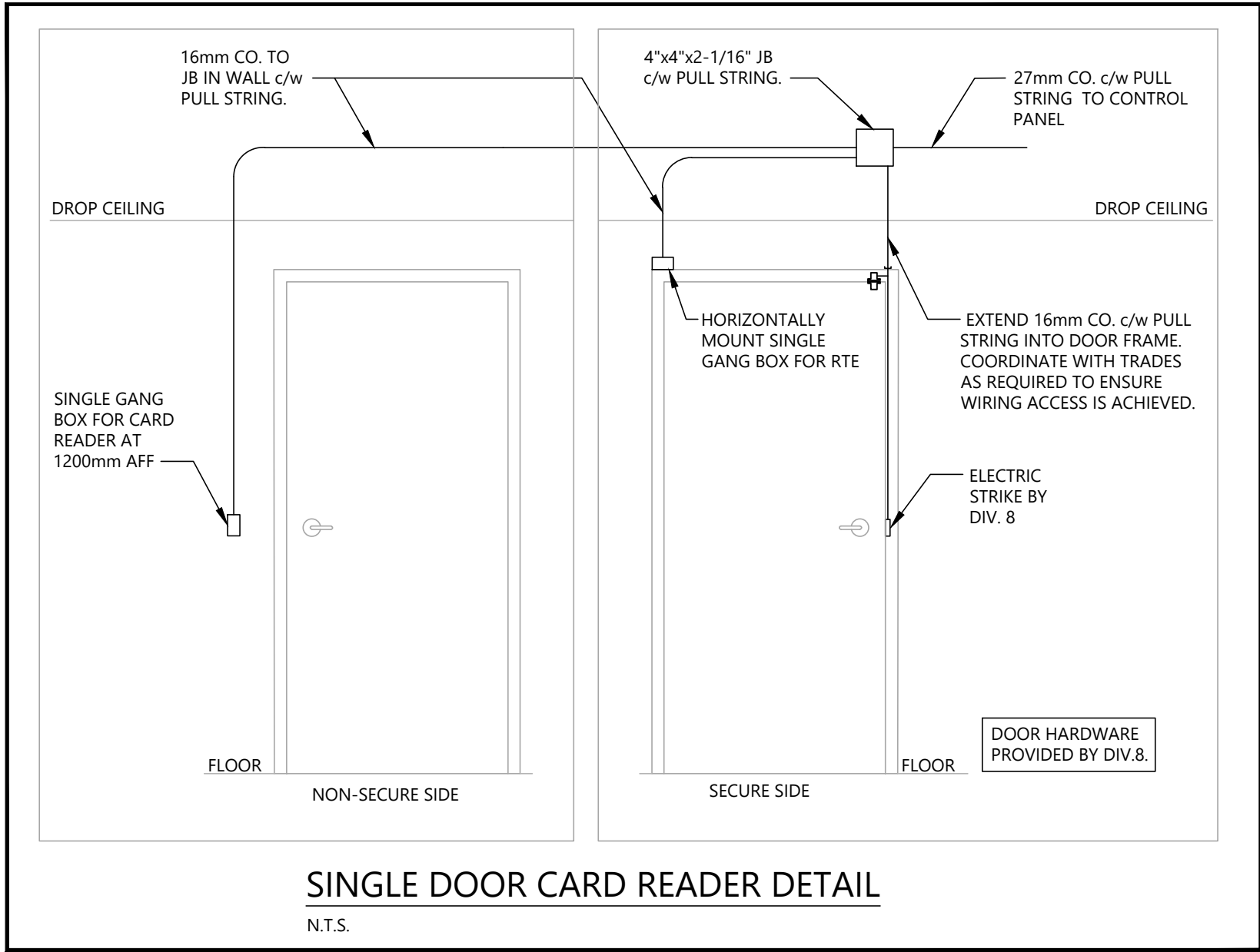
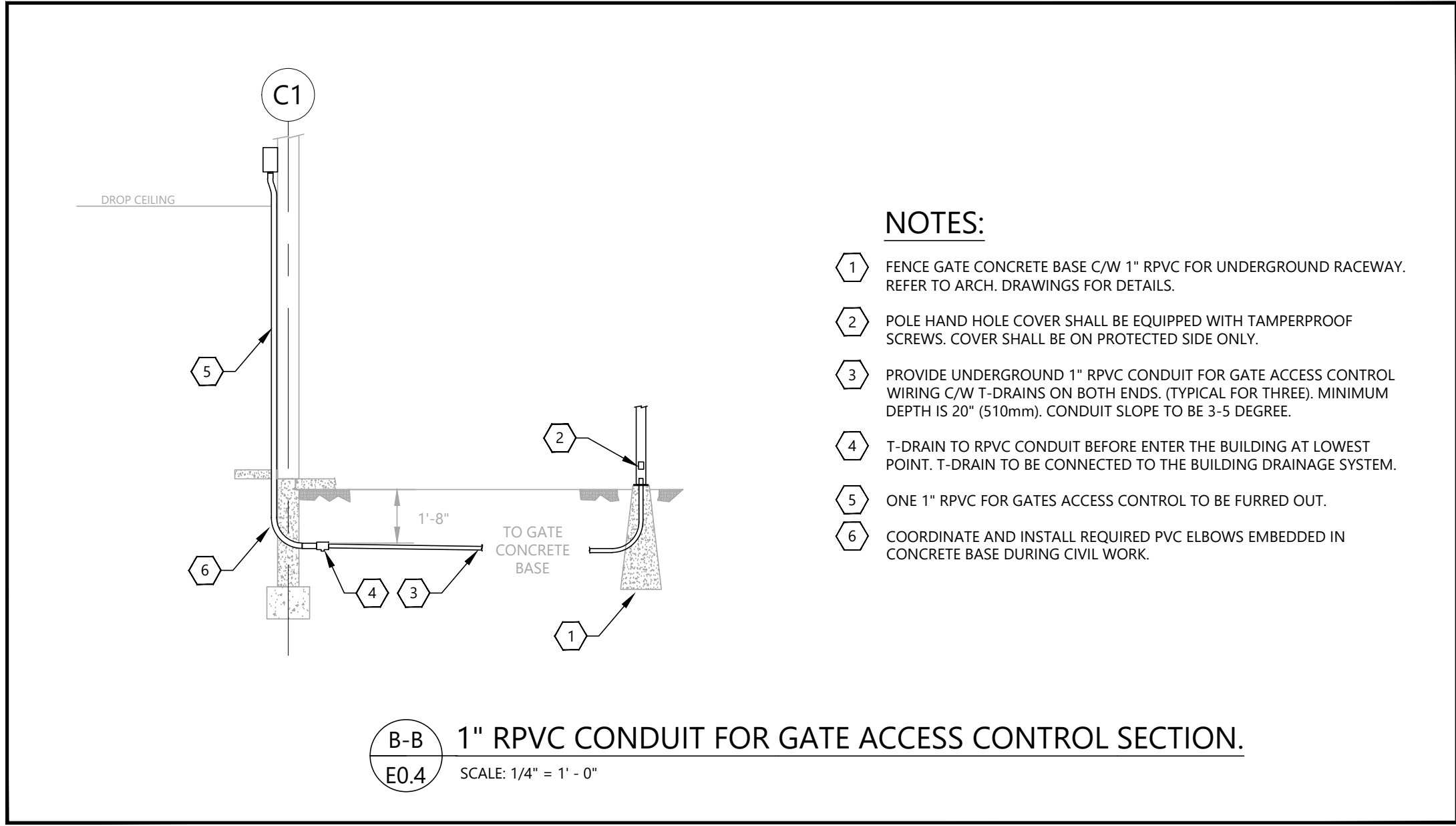
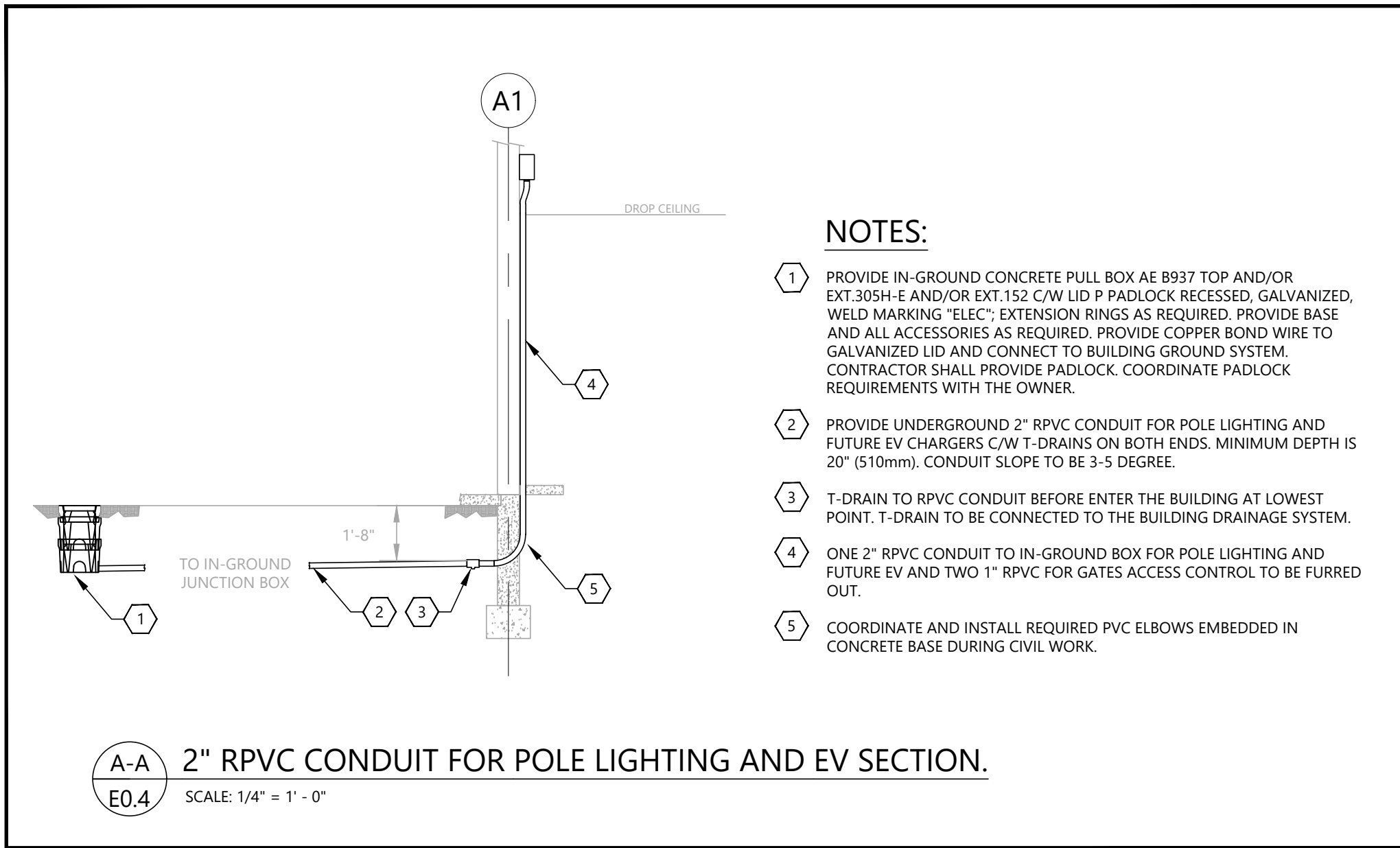
**420 Webster Avenue
Quesnel, BC**

LUMINAIRE SCHEDULE AND DETAILS

DRAWING NO.:

Project #2108 WEST QUESNEL CHILDCARE																																
LEGEND:				FPC		FACTORY PROVIDED CONTROL		GENERAL NOTES:																								
E	ELECTRICAL CONTRACTOR		CO	CO/VG GAS SENSOR		1 REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL EQUIPMENT DETAILS.																										
M	MECHANICAL CONTRACTOR		TC	TIMECLOCK		2 LOCATION ON DRAWING NOT CONFIRMED.																										
T-In	THERMOSTAT - LINE VOLTAGE		PCS	PACKAGED CONTROL SYSTEM		3 ALL FEEDERS/WIRING AND CONDUITS TO BE UPSIZED TO OVERCOME VOLTAGE DROP AS REQUIRED.																										
T-Iv	THERMOSTAT - LOW VOLTAGE, BY DIV.15		S-In	SWITCH - LINE VOLTAGE ON/OFF		4 ALL FEEDERS/WIRING IS COPPER.																										
T-Rv	THERMOSTAT - REVERSE ACTING		S-vs	SWITCH - VARIABLE SPEED		EQUIPMENT NOTES																										
T-D	THERMOSTAT - DUCT, SCR CONTROLLER		S-p	SWITCH - PRESSURE		1 UNIT SERVES FUR-1																										
VFD	VARIABLE FREQUENCY DRIVE		S-h	SWITCH - HAND/OFF/AUTO		2 UNIT SERVES FUR-2																										
Mag	MAGNETIC STARTER (HOA)		S-f	SWITCH - FLOAT		3 EQUIPMENT SUPPLIED BY DIV. 16. FACTORY PROVIDED THERMOSTAT IS ON UNIT.																										
Man	MANUAL STARTER		OC	OCCUPANCY SENSOR (LIGHTING CONTROLS SYSTEM)		4 CONNECTED TO CCT A-39																										
			TS	TIMER SWITCH		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	UNIT		DISCONNECT		STARTER		CONTROLS		EQUIPMENT NOTES									
															SUPPLY INSTALL	CONNECTION	FUSED	SUPPLY INSTALL	CONNECTION	TYPE	SUPPLY INSTALL	CONNECTION		TYPE	SUPPLY INSTALL	CONNECTION						
ERV-1	HEAT RECOVERY UNIT	PRESCHOOL WASHROOM				9.0	120	1	15	1	PNL 'A'	A-33	2	#12	M	M	E	E	-	-	E	Mag	M	E	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	Mag	M	E	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	E	-	-	-	-	-	-	-	-	T-D	M	E	E		
DH-2	DUCT HEATER	AFTERSCHOOL WASHROOM		3500			240	2	20	2	PNL 'A'	A-36,38	2	#12	M	M	E	E	-	-	-	-	-	-	-	-	T-D	M	E	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	E	-	-	-	E	T-In	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	E	PCS	M	E	E	S-In	E	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	E	Man	E	E	E	E	S-In	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	E	Man	E	E	E	E	S-In	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	E	Man	E	E	E	E	S-In	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	E	Man	E	E	E	E	S-In	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	E	Man	E	E	E	E	T-rv	E	E	E	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	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	E	FPC	M	E	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	E	FPC	M	E	E	E	T-In	M	E	E	
HP-1	HEAT PUMP	OUTSIDE OF STAIRS				21.1	25.8	240	40	2	PNL 'A'	A-21,23	2	#8	M	M	E	E	-	E	E	E	FPC	M	M	E	E	T-In	M	E	E	1
HP-2	HEAT PUMP	OUTSIDE OF STAIRS				17.3	20.9	240	35	2	PNL 'A'	A-22,24	2	#8	M	M	E	E	-	E	E	E	FPC	M	M	E	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	E	FPC	M	M	E	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	E	FPC	M	M	E	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	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	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	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	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	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		
	DH-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.		
	KITCHEN RANGE	40A	71	B	72	15A	HOUSEKEEPING REC.		
		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:									
1									
2									



11		
10		
9		
8		
7		
6		
5		
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

FIRE ALARM DEVICE MOUNTING HEIGHTS:

MANUAL PULL STATION: 1050 MM - 1150 MM ABOVE THE FINISHED FLOOR LEVEL MEASURED FROM THE CENTRE OF THE MANUAL STATION (FROM THE CENTRE OF BACKBOX).

AUDIBLE SIGNAL DEVICES: THE TOP OF THE DEVICE SHALL NOT BE LESS THAN 2300 MM ABOVE THE FINISHED FLOOR LEVEL WHERE CEILING HEIGHTS ALLOW; WALL MOUNTED AUDIBLE SIGNAL DEVICES SHALL BE INSTALLED AT LEAST 150 MM BELOW THE CEILING, MEASURED TO THE TOP EDGE OF THE DEVICE.

VISUAL SIGNAL DEVICES: WALL-MOUNTED STROBE LIGHT ENTIRE LENS IS NOT LESS THAN 2000 MM AND NOT MORE THAN 2400 MM ABOVE THE FINISHED FLOOR LEVEL.

THE VISUAL DISPLAYS AND OPERATING CONTROLS OF THE ANNUNCIATOR(S) AND MAIN CONTROL PANEL SHALL BE NOT LESS THAN 600 MM AND NOT MORE THAN 1800 MM ABOVE THE FINISHED FLOOR LEVEL.

REFER TO CAN/ULC-5524-2019 FOR EXACT REQUIREMENTS AND INSTALLATION.

FIRE ALARM DIGITAL DUAL COMMUNICATING TRANSMITTER:

INSTALLER TO ARRANGE FOR, COORDINATE INSTALLATION AND CONNECTION OF FIRE ALARM DIGITAL ALARM DUAL COMMUNICATIONS SIGNAL TRANSMITTING UNIT TO REMOTE N.F.P.A. APPROVED CENTRAL DEDICATED ULC LISTED MONITORING AGENCY.

INSTALLER SHALL SUPPLY AND INSTALL ALL NECESSARY DEVICES AND WIRING TO ALLOW FOR CORRECT MONITORING OF:

- FIRE ALARM SIGNAL
- FIRE ALARM TROUBLE SIGNAL
- CARBON MONOXIDE TROUBLE SIGNAL

DEVICES SHALL INCLUDE BUT NOT LIMITED TO FIRE ALARM PANEL, ALL NECESSARY ADDITIONAL MODULES, RELAYS, DIGITAL ALARM COMMUNICATING TRANSMITTER, ULC-LISTED TRANSPONDER AND RECEPTACLE ON DEDICATED CIRCUIT. PROVIDE SILENT KNIGHT MODEL #51048 FIRE CONTROL COMMUNICATOR OR APPROVED ULC LISTED EQUAL ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.

BREAKER FOR DIGITAL ALARM COMMUNICATING TRANSMITTER TO BE PAINTED RED c/w LAMICOID LABEL TO READ "FIRE ALARM DIGITAL ALARM COMMUNICATING TRANSMITTER - DO NOT OPERATE EXCEPT TO TEST"

INSTALLER TO ENSURE DIGITAL ALARM COMMUNICATING TRANSMITTER IS TESTED AND INSPECTED DURING THE FIRE ALARM VERIFICATION AND IS REPORTED ON THE WORKSHEETS. COORDINATE WITH MONITORING COMPANY TO ENSURE THAT THEY SUBMIT LETTER TO ENGINEER CONFIRMING THAT ALL SIGNALS NOTED ABOVE ARE BEING RECEIVED, THAT THEY ARE A ULC-LISTED COMPANY AND THAT ALL DEVICES USED ARE ULC APPROVED.

ALL WIRING BETWEEN A FIRE ALARM CONTROL PANEL AND DUAL AUTO-DIALER, AND BETWEEN DUAL AUTO-DIALER AND TELEPHONE SERVICE BOX SHALL BE MECHANICALLY PROTECTED, IN METAL RACEWAY (EMT, FLEX OR WIREMOLD 500/700 SERIES). A MINIMUM SIZE OF WIRING IS #18 AWG. THE INSTALLATION IS AS PER CAN/ULC-5561-13 (R2018), CAN/ULC-5524-2019, CEC AND AUTO-DIALER INSTALLATION MANUAL.

FIRE ALARM SYSTEM DESCRIPTION:

SINGLE STAGE SYSTEM SHALL SUPERVISE WIRING, ANNUNCIATOR(S), EQUIPMENT AND DEVICES FOR ALARM INITIATION, ANNUNCIATION, AND AUDIBLE SIGNALING CONTINUOUSLY FOR OPENS, SHORTS OR GROUNDS (TROUBLE), PROVIDE EACH ALARM INITIATING DEVICE CIRCUIT WITH ILLUMINATED AND AUDIBLE ANNUNCIATION OF BOTH TROUBLE SUPERVISORY AND ALARM CONDITIONS. NON-ILLUMINATION SHALL INDICATE A NORMAL CONDITION.

SYSTEM SHALL NOT INCORPORATE A TIME DELAY FOR ANY OF THE ALARM INITIATING DEVICES. ALL ALARMS TO BE CONSIDERED AS CONFIRMED ALARM.

ACCOMPLISH DETECTION AND REPORTING OF FIRE CONDITIONS BY THE FOLLOWING BASIC METHODS:

1. MANUAL STATIONS
2. SMOKE DETECTORS
3. DUCT SMOKE DETECTORS
4. HEAT DETECTORS
5. CARBON MONOXIDE DETECTORS

SUBDIVIDE FIRE ALARM SYSTEM INPUTS FURTHER AS FOLLOWS, FOR A MORE DEFINED INDICATION OF LOCATIONS AND NATURE OF THE FIRE ALARM OR TROUBLE CONDITIONS:

1. MANUAL STATION BY ADDRESS AND LOCATION (ROOM NAME AND NUMBER)
2. SMOKE AND/OR HEAT DETECTOR BY ADDRESS AND LOCATION (ROOM NAME AND NUMBER)
3. CARBON MONOXIDE DETECTORS BY ADDRESS AND LOCATION

ALARM CONDITION TO OVERRIDE TROUBLE INDICATION, TROUBLE INDICATION TO RE-APPEAR AFTER ALARM RESET.

FIRE ALARM ZONES SHALL BE AS SHOWN ON FIRE ALARM ZONE SCHEDULE.

SELECTIVE MANUAL TESTING OF ANY DEVICE POINT IN THE SYSTEM TO DETERMINE NORMAL, TROUBLE OR ALARM STATUS.

REMOTE ANNUNCIATOR(S) TO DUPLICATE ANNUNCIATION FROM THE MAIN FIRE ALARM PANEL. SYSTEM SHALL BE CAPABLE OF MANUAL OPERATION IN THE EVENT OF CENTRAL PROCESSOR MALFUNCTION. SUPPLIER SHALL INCLUDE A STATEMENT IN THE SYSTEM SHOP DRAWING SUBMITTAL EXPLAINING THE MANUAL OPERATING CAPABILITY OF THE SYSTEM. PROVIDE REDUNDANT PROCESSOR TO DUPLICATE PRIMARY PROCESSOR FUNCTION.

SEQUENCE OF OPERATION UNDER ALARM CONDITION:

1. ACTUATION OF ANY ALARM INITIATING DEVICE TO:
 1. CAUSE ELECTRONIC LATCH TO LOCK-IN ALARM STATE AT MAIN CONTROL PANEL.
 2. INDICATE ZONE OF ALARM AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR.
 3. CAUSE AUDIBLE SIGNALING DEVICES TO SOUND CONTINUOUSLY THROUGHOUT BUILDING.
 4. TRANSMIT SIGNAL TO FIRE DEPARTMENT VIA ULC-LISTED MONITORING STATION.
 5. CAUSE AIR CONDITIONING AND VENTILATION FANS TO SHUT DOWN OR TO FUNCTION TO PROVIDE REQUIRED CONTROL OF SMOKE MOVEMENT (IF EQUIPPED).
2. ACKNOWLEDGING ALARM, INDICATED AT MAIN CONTROL PANEL.
3. POSSIBLE TO SILENCE SIGNALS BY "ALARM SILENCE" SWITCH AT MAIN CONTROL PANEL, AFTER 60S PERIOD OF OPERATION.
4. SUBSEQUENT ALARM, RECEIVED AFTER PREVIOUS ALARM HAS BEEN SILENCED, TO RE-ACTIVATE SIGNALS.

SEQUENCE OF OPERATION UNDER ACTUATION OF CARBON MONOXIDE DETECTOR CONDITION:

- AUDIBLE SIGNALS INITIATED BY CARBON MONOXIDE DETECTOR SHALL BE A LOCALIZED TEMPORAL 4 PATTERN AS SPECIFIED IN CAN/ULC-5588-2017 STANDARD FOR GAS AND VAPOUR DETECTORS AND SENSORS.
 - SIGNALS GENERATED BY CARBON MONOXIDE DETECTION DEVICES SHALL ACTIVATE A DISTINCTIVE CARBON MONOXIDE EVENT NOTIFICATION (REQUIRING ACKNOWLEDGEMENT) TO THE BUILDING OPERATOR VIA THE FIRE ALARM CONTROL UNIT.
 - AN END-OF-LIFE SIGNAL FROM CARBON MONOXIDE DETECTOR SHALL INITIATE A TROUBLE SIGNAL AT THE CONTROL UNIT.
 - EMERGENCY POWER SUPPLY SHALL PROVIDE NOT LESS THAN 12 HOURS OF CARBON MONOXIDE SIGNALING IN ADDITIONAL TO THE REQUIREMENTS OF THE FIRE ALARM SIGNALING 24 HOURS OF STANDBY LOAD PLUS THE DURATION OF RATED ALARM LOAD AS REQUIRED BY BCBC-2018, UNLESS THE SYSTEM MONITORED BY A FIRE SIGNAL RECEIVING CENTRE WITH EMERGENCY RESPONSE.
5. ACTIVATION OF ANY CARBON MONOXIDE DETECTORS SHALL:
 1. CAUSE LOCALIZED AUDIBLE SIGNAL (ACTIVATE SOUNDER BASE) WITHIN THE AFFECTED AREA TO OPERATE;
 2. NOT GENERATE SIGNALS THROUGHOUT THE BUILDING; AND
 3. PROVIDE A LOCAL AUDIBLE INDICATION, AND A VISIBLE INDICATION THAT DESCRIBES THE PHYSICAL LOCATION OF THE ACTIVATED CARBON MONOXIDE DETECTOR ON THE FIRE ALARM ANNUNCIATOR AND CONTROL PANEL;
 4. NOTIFY THE FIRE SIGNAL RECEIVING CENTRE THAT A CARBON MONOXIDE SIGNAL HAS BEEN ACTIVATED.

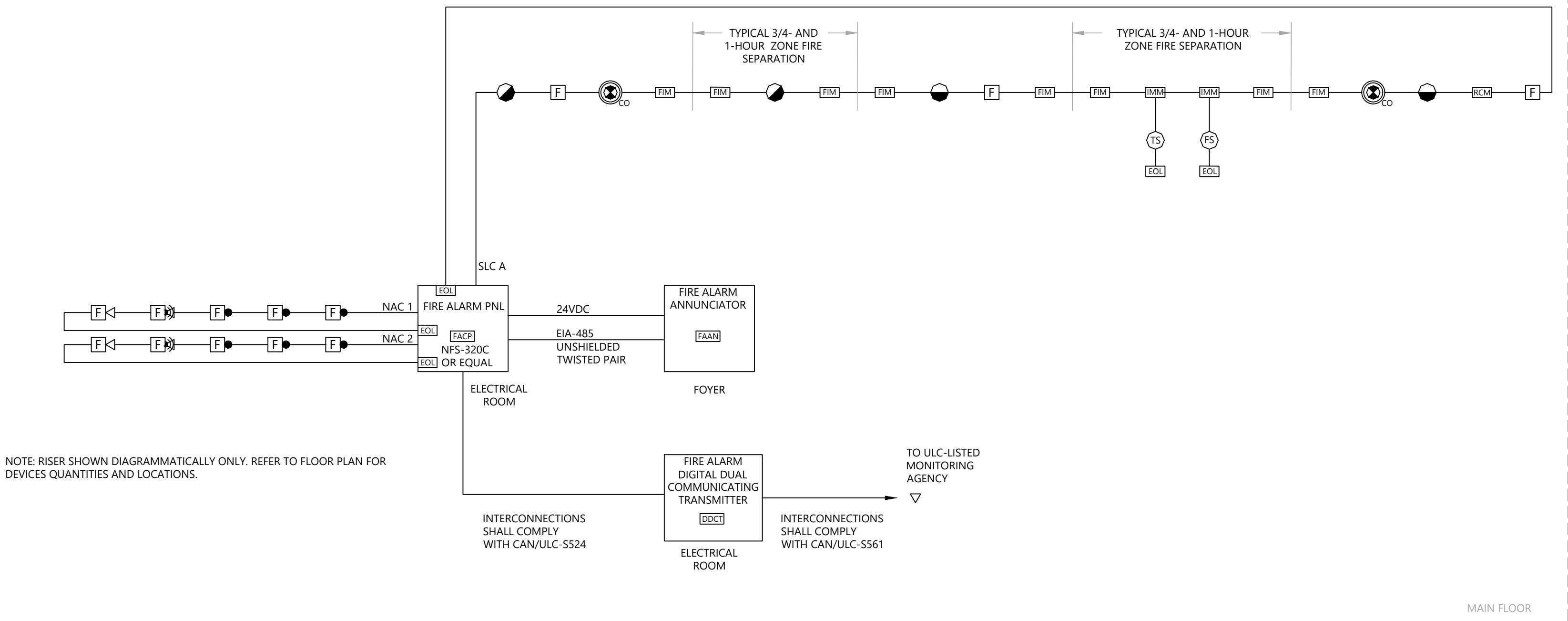
SEQUENCE OF OPERATION UNDER TROUBLE CONDITION:

6. TROUBLE ON SYSTEM TO:
 1. INDICATE CIRCUIT IN TROUBLE AT MAIN CONTROL PANEL.
 2. ACTIVATE "SYSTEM TROUBLE" INDICATION, BUZZER AND COMMON TROUBLE SEQUENCE.
8. ACKNOWLEDGING TROUBLE CONDITION TO SILENCE AUDIBLE INDICATION; WHEREAS VISUAL INDICATION TO REMAIN UNTIL TROUBLE IS CLEARED AND SYSTEM IS BACK TO NORMAL.
9. TROUBLE ON SYSTEM: SUPPRESSED DURING COURSE OF ALARM.
10. TROUBLE CONDITION ON ANY CIRCUIT IN SYSTEM NOT TO INITIATE ALARM CONDITIONS.

FIRE ALARM ZONE SCHEDULE

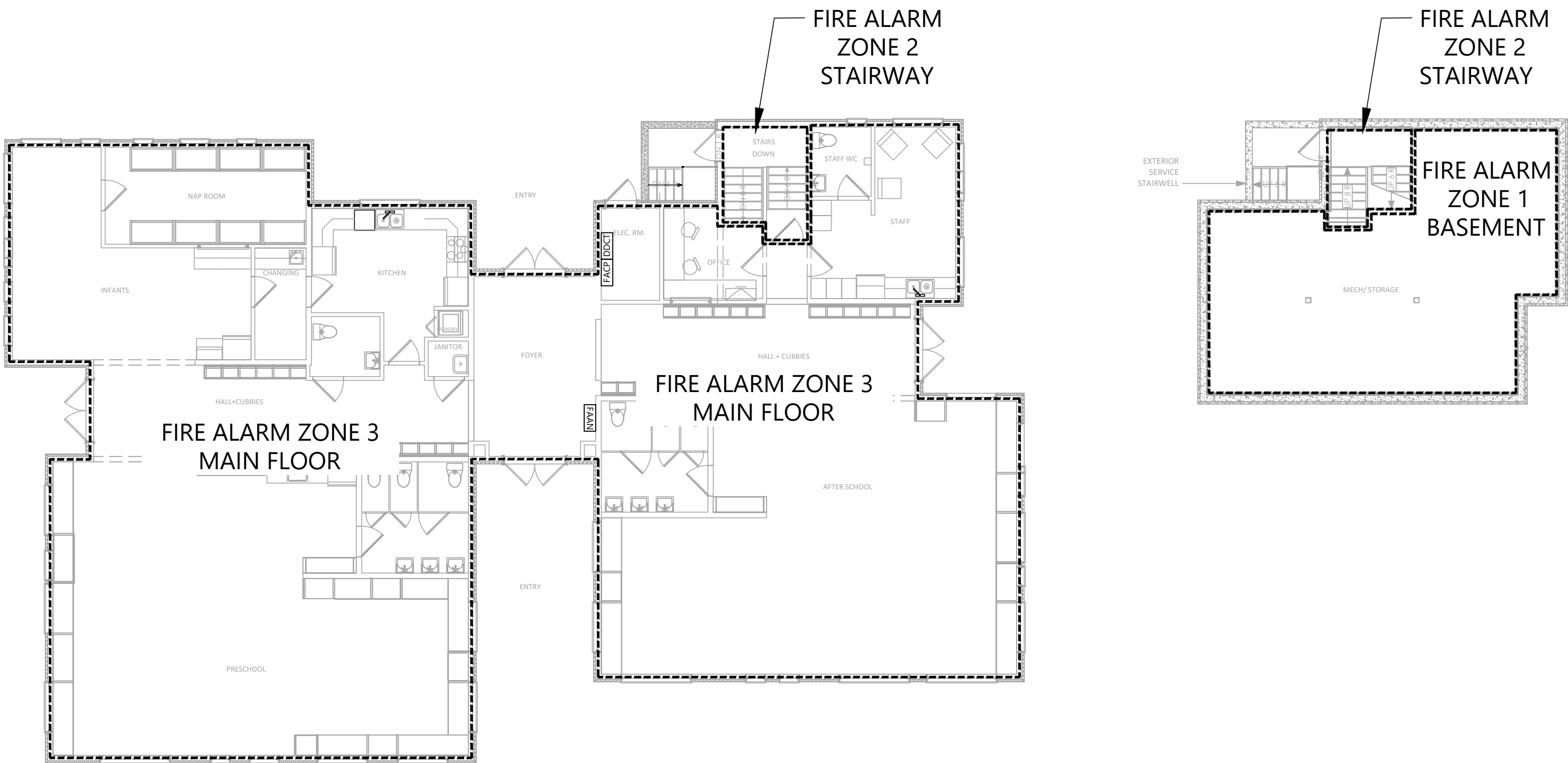
FIRE ALARM ZONE	DESCRIPTION	DEVICES	SIGNAL TYPE
1	BASEMENT MECHANICAL / STORAGE	PULL STATION, HEAT & SMOKE DETECTORS	ALARM
2	STAIRWAY	SMOKE DETECTOR	ALARM
3	MAIN FLOOR	PULL STATIONS, HEAT & SMOKE DETECTORS	ALARM
4	SPARE	-	
5	SPARE	-	

NOTES:
1. THE SECURITY MONITORING COMPANY IS TELUS.
2. THE CITY OF QUESNEL HAS SELECTED TELUS AS ULC LISTED FIRE ALARM MONITORING COMPANY. SUPPLY AND INSTALL COST TO BE INCLUDED IN BID PRICE. CONTACT TELUS SECURITY FOR DETAILS.



PROPOSED FIRE ALARM RISER DIAGRAM

N.T.S.



PROPOSED FIRE ALARM ZONE MAP

N.T.S.

11		
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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

ELECTRICAL CONSULTANT:

ALEGO WEST

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:

FIRE ALARM
RISER

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

DRAWING NO.:

E2.4

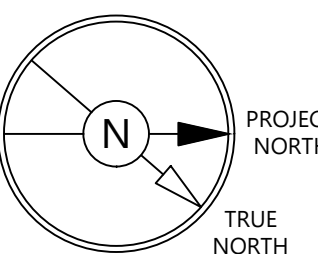
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PROJECT:

**Q-KIDS DAYCARE
CENTRE**

420 Webster Avenue
Quesnel, BC

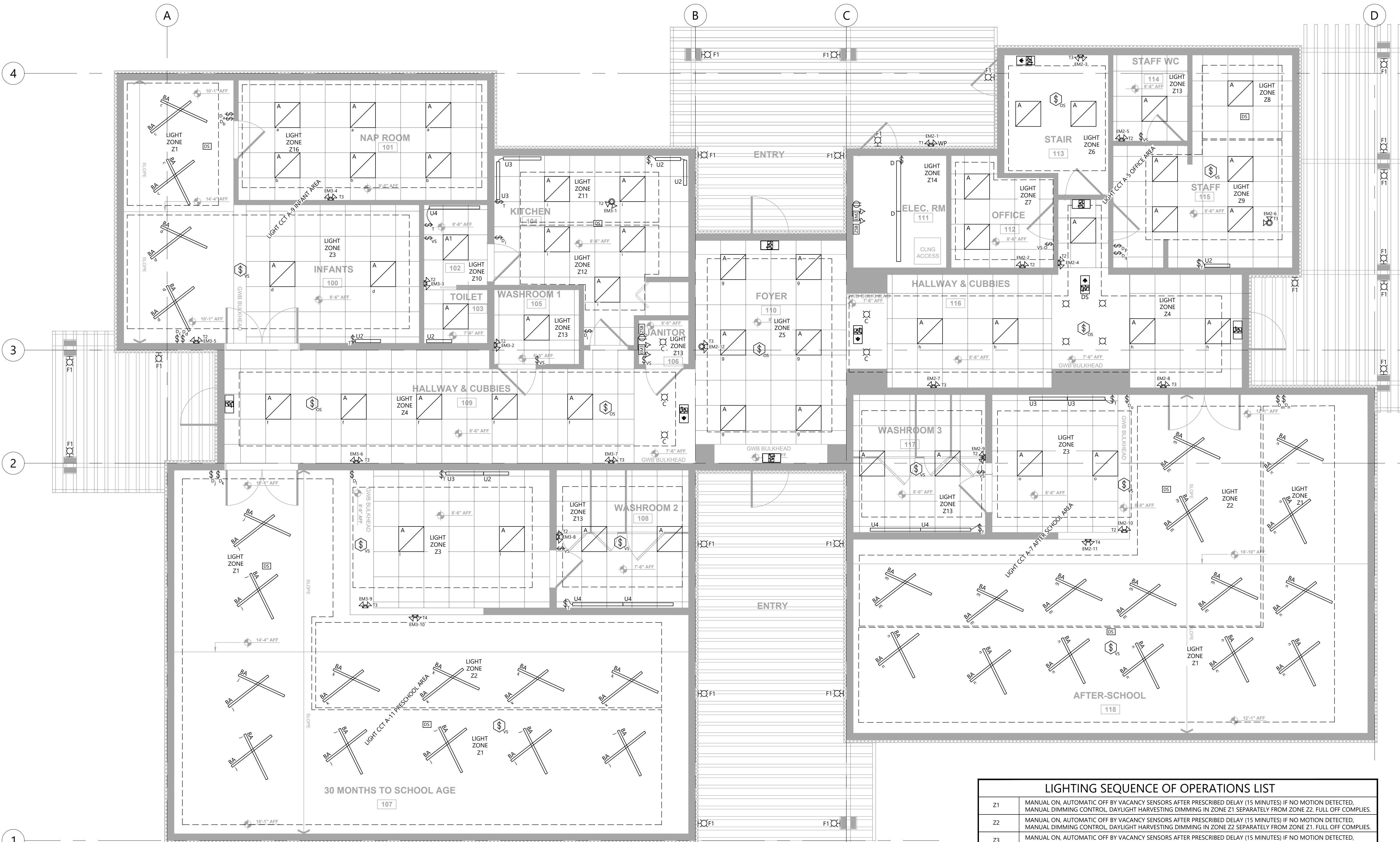
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**REFLECTED
CEILING PLAN**

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.

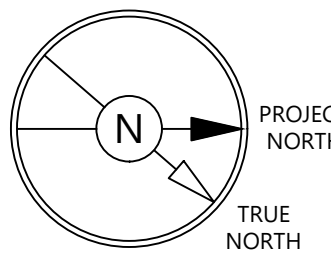
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PROJECT:

Q-KIDS DAYCARE CENTRE

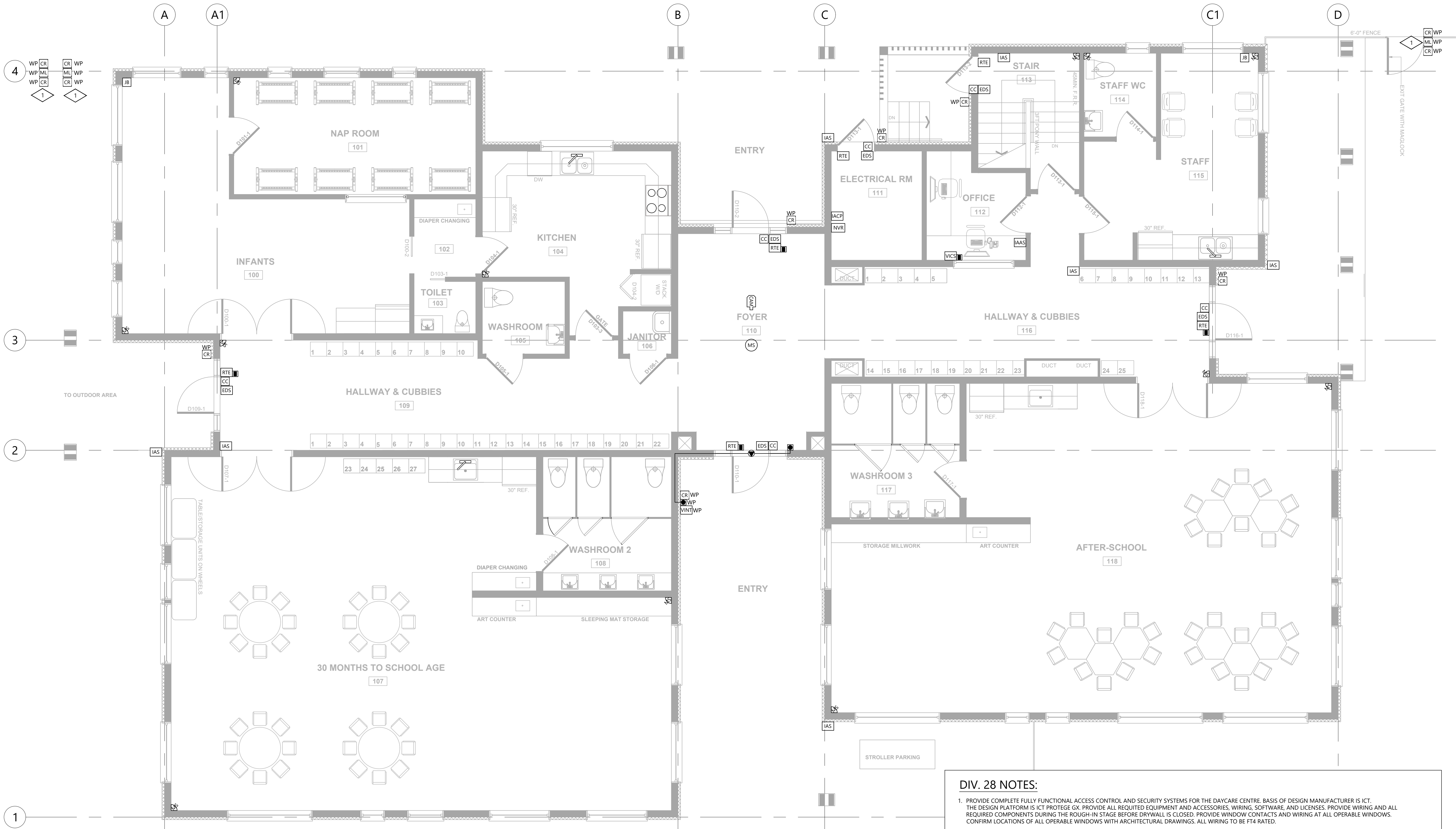
420 Webster Avenue
Quesnel, BC

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 ASKASKETS TO AUTHORITY HAVING JURISDICTION. PROVIDE FOR REQUIRED SEALING SYSTEM AND ALL COMPONENTS (GASKETS, SEALING RINGS, COVERS, CAPS, ETC.). COORDINATE ALL REQUIREMENTS WITH WORK 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 HANDBOOK WILL ADDRESS IF HORIZONTAL CABLING INSTALLATION AND TERMINATION IN USED IN CONTRACT, FIRE ALARM DEVICE ADDRESSES, ALL HOME RUNS, JUNCTION AND PULL BOXES, ABANDONED RACEWAY SYSTEMS.
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- 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.
- 19.6 A HANDBOOK WILL ADDRESS IF HORIZONTAL CABLING INSTALLATION AND TERMINATION IN USED IN CONTRACT, FIRE ALARM DEVICE ADDRESSES, ALL HOME RUNS, JUNCTION AND PULL BOXES, ABANDONED RACEWAY SYSTEMS.
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