







DESCRIPTION: PREVAIL AREA LIGHT





EL	ECTRICAL	SYMBOL LEGEND
	○	BOLLARD MOUNTED PEDESTAL RECEPTACLE
	 	WALL MOUNTED PEDESTAL RECEPTACLE
	Ď	WALL MOUNTED LUMINAIRE
)	POLE MOUNTED LUMINAIRE WITH SINGLE HEAD
	9 0	POLE MOUNTED LUMINAIRE WITH DUAL HEADS
	F01	LUMINAIRE TAG

- ON/TIMECLOCK OFF.
- CONCRETE ENCASE ALL EXTERIOR CONDUIT RUNNING UNDER
- THE MAJORITY OF THE FIXTURES ARE A FAIR DISTANCE AND AS SUCH THE WIRE SIZE IS TO BE UPSIZED TO 2#6AWG CU TO AVOID VOLTAGE DROP ISSUES. FOR FIXTURES WITHIN 45M THE ELECTRICAL ROOM 2#10 AWG
- CU WIRING IS ACCEPTABLE.
 FOR EACH PARKING PEDESTAL RECEPTACLE RUN UPSIZE
 WIRE TO AVOID VOLTAGE DROP ISSUES. USE 2#6AWG CU.
- REFER TO CIVIL DRAWINGS FOR EXISTING UTILITY LOCATIONS. COORDINATE UTILITY CONNECTIONS WITH CIVIL DRAWINGS AND UTILITY SUPPLIERS.



Do not scale drawing

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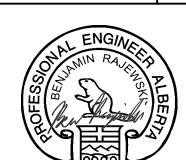
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Suite #200 10065 - 100 Street Edmonton, AB T5J 3B1 WILLIAMS ENGINEERING Bus: (780) 424-2393 Toll Free: 1-800-263-2393 Fax: (780) 425-1520 info@williamsengineering.com www.williamsengineering.com

Issues/Revisions

	ISSUE.	issues/1/evisions					
	No.	Description	Date	Ву			
	А	ISSUED FOR DEVELOPMENT PERMIT	2018.01.09	BR			
	В	ISSUED FOR 50% REVIEW	2018.03.16	BR			
	С	ISSUED FOR 66% REVIEW	2018.05.15	BR			
	D	ISSUED FOR TENDER	2019.01.09	BR			









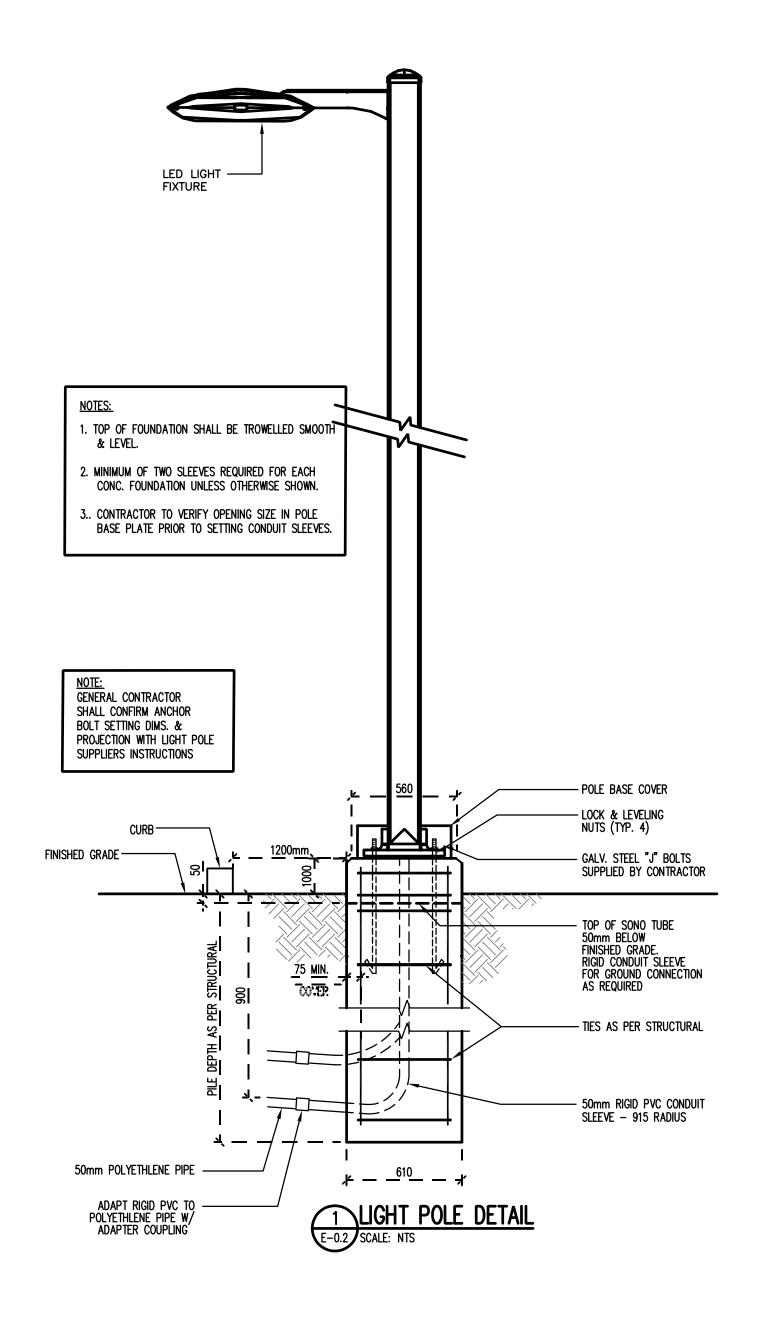
COALDALE PROTECTIVE SERVICES BUILDING

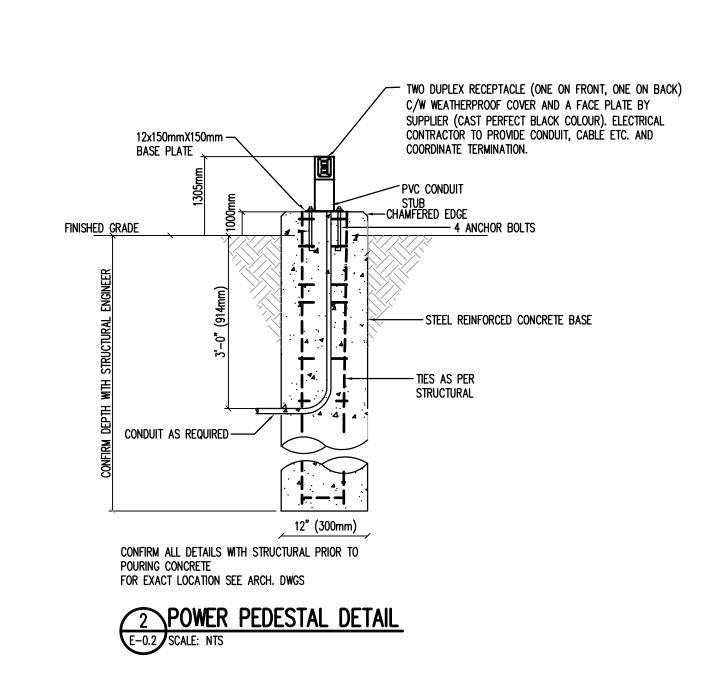
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	Project No.	0000	Drawn By	
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	Drawing Title			

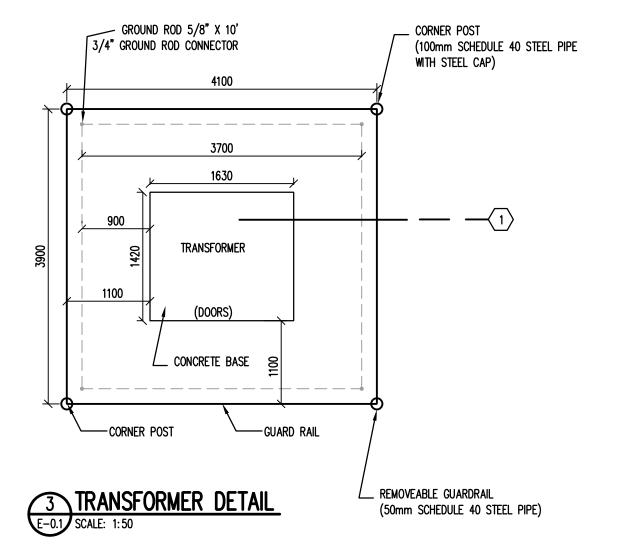
ELECTRICAL SITE PLAN

Drawing No.

E-0.1



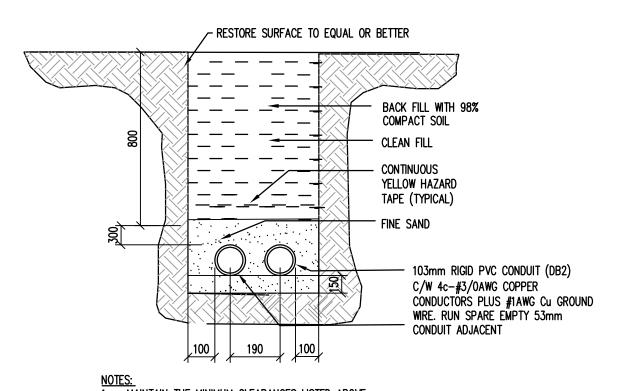




NOTE: REFER TO FORTIS CONNECTION GUIDE FOR PARTICULAR SERVICE DETAILS.

DETAIL 1 KEYNOTES:

1) HIGH VOLTAGE 103mm CONDUIT RIGID PVC.



NOTES:

1. MAINTAIN THE MINIMUM CLEARANCES LISTED ABOVE.
2. COORDINATE WITH FORTIS FOR SPECIAL REQUIREMENTS.
3. CLEARANCE OF 500mm WHEN ABOVE WATER LINE, 300mm WHEN BELOW WATER LINE AND 1800mm HORIZONTAL OF WATER LINE. 4. CLEARANCE OF 1000mm HORIZONTAL AND 300mm VERTICAL FOR GAS LINE. 5. CLEARANCE OF 1000mm WHEN PARALLEL TO ANY UTILITY LINE.
6. CLEARANCE OF 3000mm FROM VALVE, DRAINAGE, MAN HOLE OR STORM LINE. CLEARANCE OF 3000mm FROM CENTRE OF ANY HYDRANT. PRIMARY CABLE SHOULD BE ENCASED IN CONCRETE WHEN IN AREA CONTAINING A HYDRANT.

8. CONCRETE ENCASE CONDUIT UNDER ROADWAYS.

TRENCH DETAIL (PRIMARY)

E-0.2 SCALE: NTS



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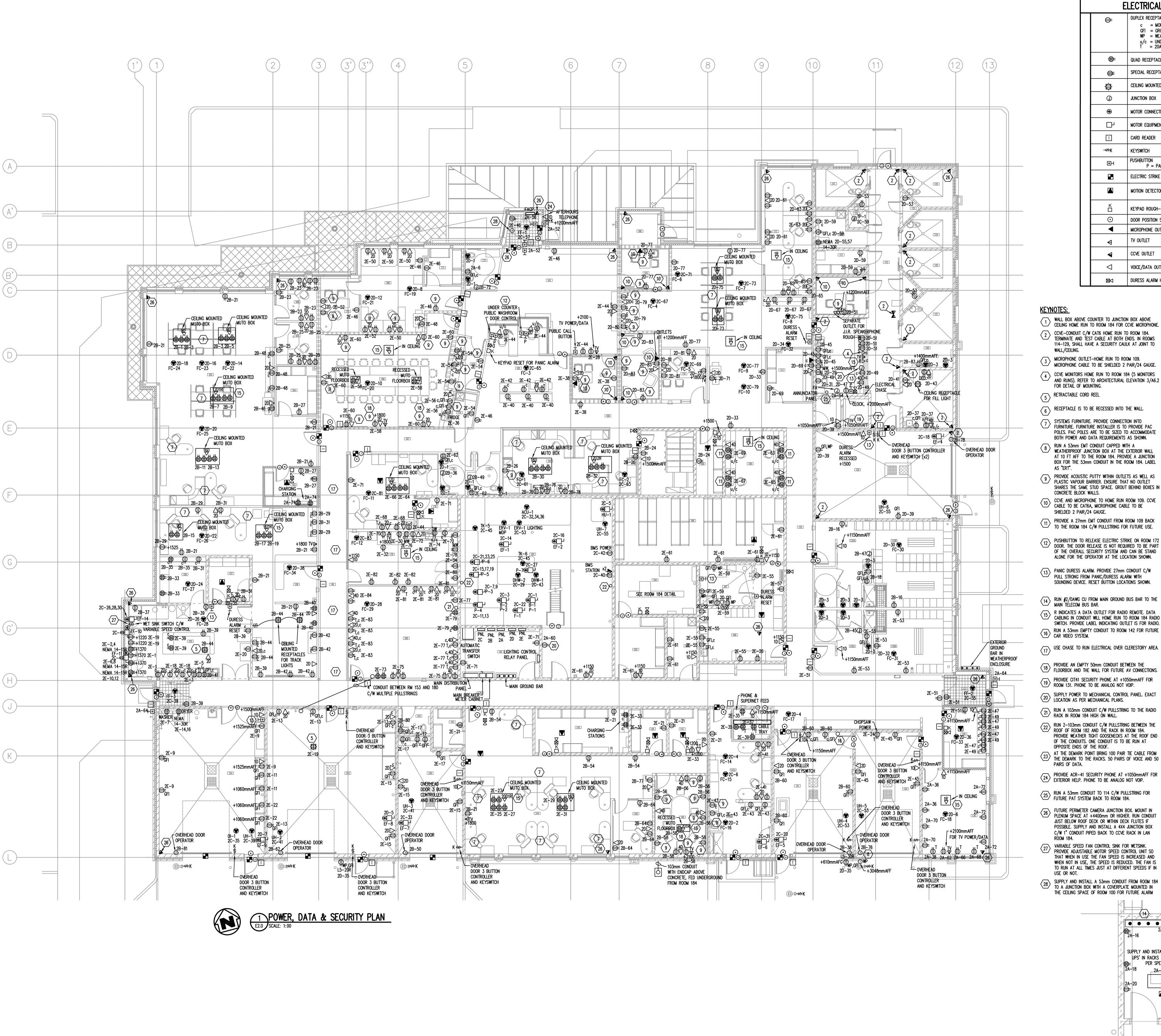


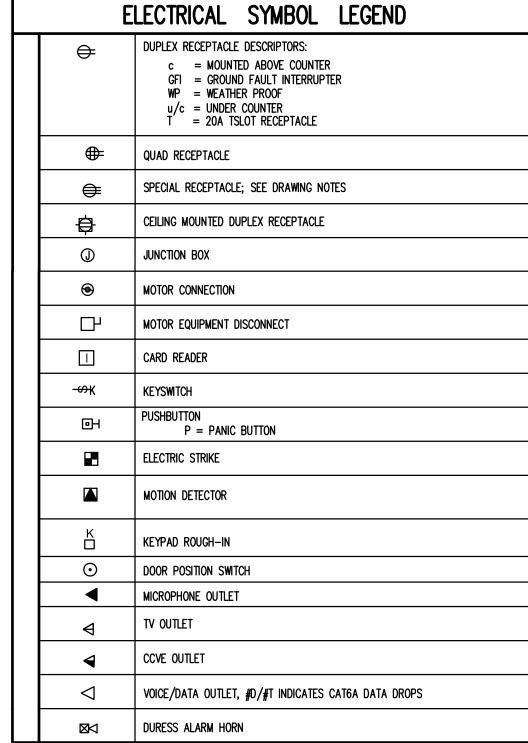
COALDALE PROTECTIVE SERVICES BUILDING

	Scale	AS NOTED	Designed By	
	Project No.	0000	Drawn By	
	Date	2001 JANUARY 00	Checked By ACI	

ELECTRICAL SITE DETAILS

E-0.2





- WALL BOX ABOVE COUNTER TO JUNCTION BOX ABOVE CEILING HOME RUN TO ROOM 184 FOR CCVE MICROPHONE.
- 2 CCVE-CONDUIT C/W CAT6 HOME RUN TO ROOM 184. TERMINATE AND TEST CABLE AT BOTH ENDS. IN ROOMS 114-129, SHALL HAVE A SECURITY CAULK AT JOINT TO
- MICROPHONE CABLE TO BE SHIELDED 2 PAIR/24 GAUGE. 4 CCVE MONITORS HOME RUN TO ROOM 184 (5 MONITORS
- AND RUNS). REFER TO ARCHITECTURAL ELEVATION 3/A6.2 FOR DETAIL OF MOUNTING.
- RECEPTACLE IS TO BE RECESSED INTO THE WALL.
- SYSTEMS FURNITURE. PROVIDE CONNECTION INTO FURNITURE. FURNITURE INSTALLER IS TO PROVIDE PAC POLES. PAC POLES ARE TO BE SIZED TO ACCOMMODATE BOTH POWER AND DATA REQUIREMENTS AS SHOWN.
- RUN A 53mm EMT CONDUIT CAPPED WITH A WEATHERPROOF JUNCTION BOX AT THE EXTERIOR WALL AT 10 FT AFF TO THE ROOM 184. PROVIDE A JUNCTION BOX FOR THE 53mm CONDUIT IN THE ROOM 184. LABEL
- SHARES THE SAME STUD SPACE. GROUT BEHIND BOXES IN CONCRETE BLOCK WALLS.
- CCVE AND MICROPHONE TO HOME RUN ROOM 109. CCVE CABLE TO BE CAT6A, MICROPHONE CABLE TO BE
- ALONE FOR THE OPERATOR AT THE LOCATION SHOWN.
- PULL STRONG FROM PANIC/DURESS ALARM WITH SOUNDING DEVICE. RESET BUTTON LOCATIONS SHOWN.
- RUN #2/0AWG CU FROM MAIN GROUND BUS BAR TO THE MAIN TELECOM BUS BAR.
- R INDICATES A DATA OUTLET FOR RADIO REMOTE. DATA CABLING IN CONDUIT WILL HOME RUN TO ROOM 184 RADIO
- RUN A 53mm EMPTY CONDUIT TO ROOM 142 FOR FUTURE CAR VIDEO SYSTEM.
- USE CHASE TO RUN ELECTRICAL OVER CLERESTORY AREA.
- PROVIDE CIT41 SECURITY PHONE AT +1050mmAFF FOR
- 19 ROOM 131. PHONE TO BE ANALOG NOT VOIP. SUPPLY POWER TO MECHANICAL CONTROL PANEL. EXACT
- RUN 2-103mm CONDUIT C/W PULLSTRING BETWEEN THE ROOF OF ROOM 182 AND THE RACK IN ROOM 184. PROVIDE WEATHER TIGHT GOOSENECKS AT THE ROOF END
- AT THE DEMARK POINT BRING 100 PAIR TIE CABLE FROM THE DEMARK TO THE RACKS. 50 PAIRS OF VOICE AND 50
- PROVIDE ACR-41 SECURITY PHONE AT +1050mmAFF FOR EXTERIOR HELP. PHONE TO BE ANALOG NOT VOIP.
- RUN A 53mm CONDUIT TO 114 C/W PULLSTRING FOR FUTURE PAT SYSTEM BACK TO ROOM 184.
- FUTURE PERIMETER CAMERA JUNCTION BOX. MOUNT IN PLENUM SPACE AT +4400mm OR HIGHER. RUN CONDUIT JUST BELOW ROOF DECK OR WITHIN DECK FLUTES IF POSSIBLE. SUPPLY AND INSTALL A 4X4 JUNCTION BOX C/W 1" CONDUIT PIPED BACK TO CCVE RACK IN LAN
- VARIABLE SPEED FAN CONTROL SINK FOR WETSINK. PROVIDE ADJUSTABLE MOTOR SPEED CONTROL UNIT SC THAT WHEN IN USE THE FAN SPEED IS INCREASED AND WHEN NOT IN USE, THE SPEED IS REDUCED. THE FAN IS TO RUN AT ALL TIMES JUST AT DIFFERENT SPEEDS IF IN
- SUPPLY AND INSTALL A 53mm CONDUIT FROM ROOM 184 TO A JUNCTION BOX WITH A COVERPLATE MOUNTED IN

UPS' IN RACKS AS

6-TIE CABLE CABINET BETWEEN RW 142 & 184 IN 53mm CONDUIT

2 RM 184 DETAIL E2.0 SCALE: 1:50

GENERAL NOTES:

MICROPHONE LOCATIONS WITH HOME RUNS ARE CONDUIT ROUGH-IN ONLY AND ARE TO BE REFERRED TO AS THE SECURITY ROUGH-INS.

NOTE THAT THE DOOR ACCESS CONTROL, CCVE AND

- PROVIDE 27mm CONDUIT C/W PULL STRING FOR ALL SECURITY ROUGH-IN EXCEPT OTHERWISE NOTED ON DRAWINGS AND DETAILS. ALL BOXES SHALL HAVE ACOUSTIC INSULATION, PUTTY AND CAULKING TO ATTAIN REQUIRED STC RATING. NO EXPOSED CONDUITS ARE PERMITTED. ALL CONDUITS
- ARE TO BE RUN WITHIN THE WALLS. COMBINE POWER AND DATA INTO SINGLE OUTLET BOXES WHERE POSSIBLE. IN ACOUSTIC WALLS THIS IS NECESSARY

SO DEVICES AREN'T EXTENSIVELY SPACED OUT BETWEEN

- PROVIDE REPENETRATING FIRE STOPPING MATERIAL FOR CONDUIT PENETRATIONS INTO ROOMS 142 AND 184. FIRE STOP SYSTEMS USED FOR DATA AND COMMUNICATION CABLING THROUGH RATED AND NON-RATED FIRE SEPARATIONS SHALL BE RE-PENETRABLE DESIGNS WHICH ALLOW FOR NEW CABLES TO BE PULLED WITHOUT HAVING
- MOUNT ALL KEYSWITCHES AT +1200mmAFF ON CENTER. THERE ARE TO BE 3 DISTINCT ALARMS FOR THE PANIC

TO RE-INSTALL NEW FIRE STOP MATERIALS.

- DURESS ALARM. ONE FOR ROOMS 130/114, ONE FOR ROOMS 155/154 AND ONE FOR ROOM 187. DURESS ALARM HORNS ARE SHOWN ON THE PLANS.
- MOUNT DURESS ALARM HORNS ABOVE THE KEYPADS IN ROOMS 178, 163, 157, 138, 145, 146, 147, 188, 189 AND SENSOR IS TO BE TRIGGERED AND THE ALARM IS TO BEGIN CHIRPING UNTIL A CODE IS RECEIVED, DISARMING THE SYSTEM. THERE IS TO BE A 1-MINUTE WARNING PERIOD. THIS IS TO BE THE SAME UPON EXITING THE ROOM. A CODE IS ENTERED, ARMING THE SYSTEM, FOLLOWED BY A 1-MINUTE PERIOD FOR THE USER TO VACATE THE ROOM AND CLOSE THE DOOR.,



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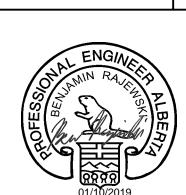
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A		ISSUED FOR 50% REVIEW	2018.03.16	BR
	В	ISSUED FOR 66% REVIEW	2018.05.15	BR
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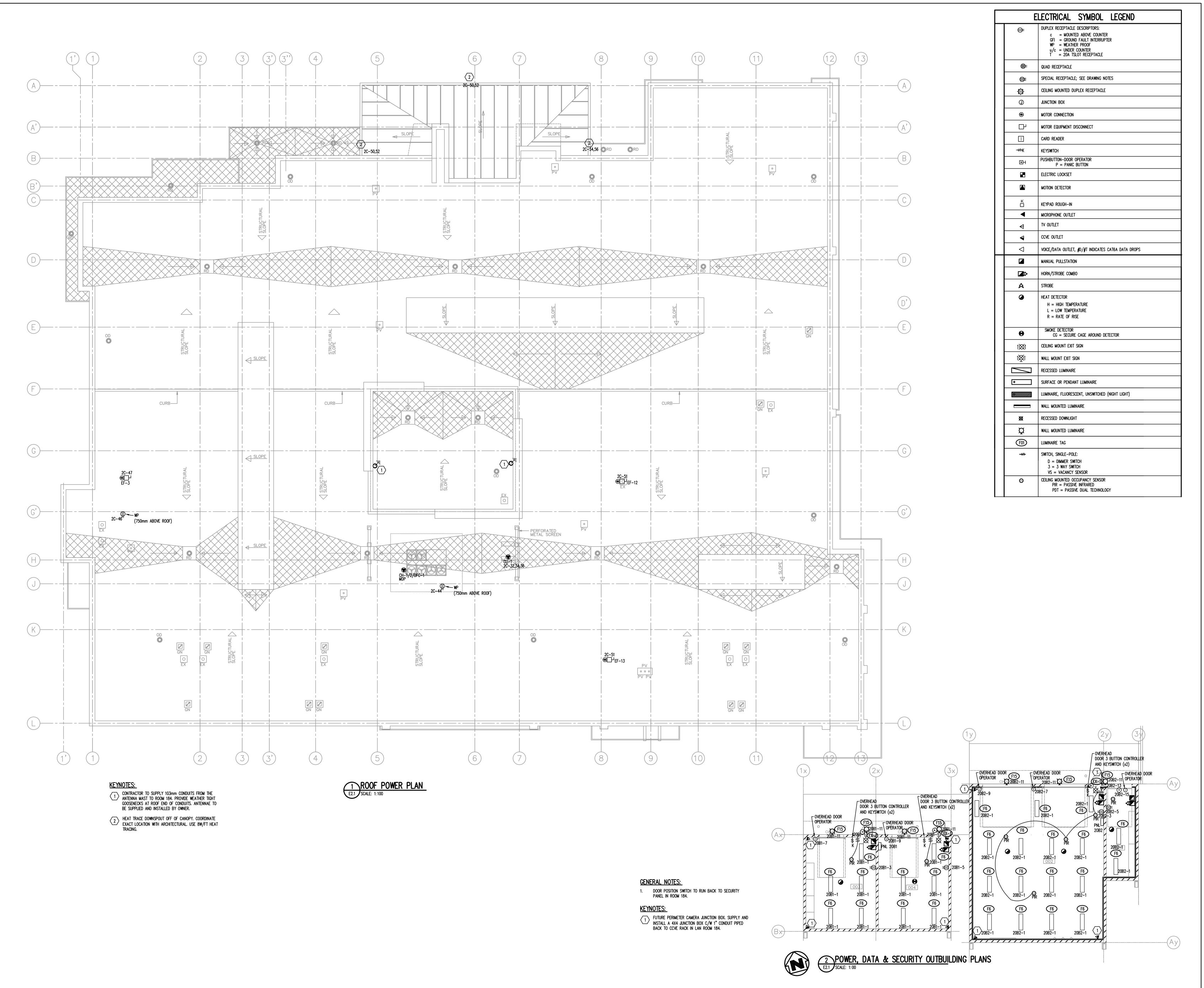


COALDALE PROTECTIVE SERVICES BUILDING

AS NOTED 2001 JANUARY 00

ELECTRICAL POWER, DATA & SECURITY PLAN

E2.0

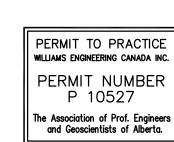




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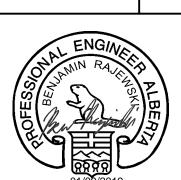
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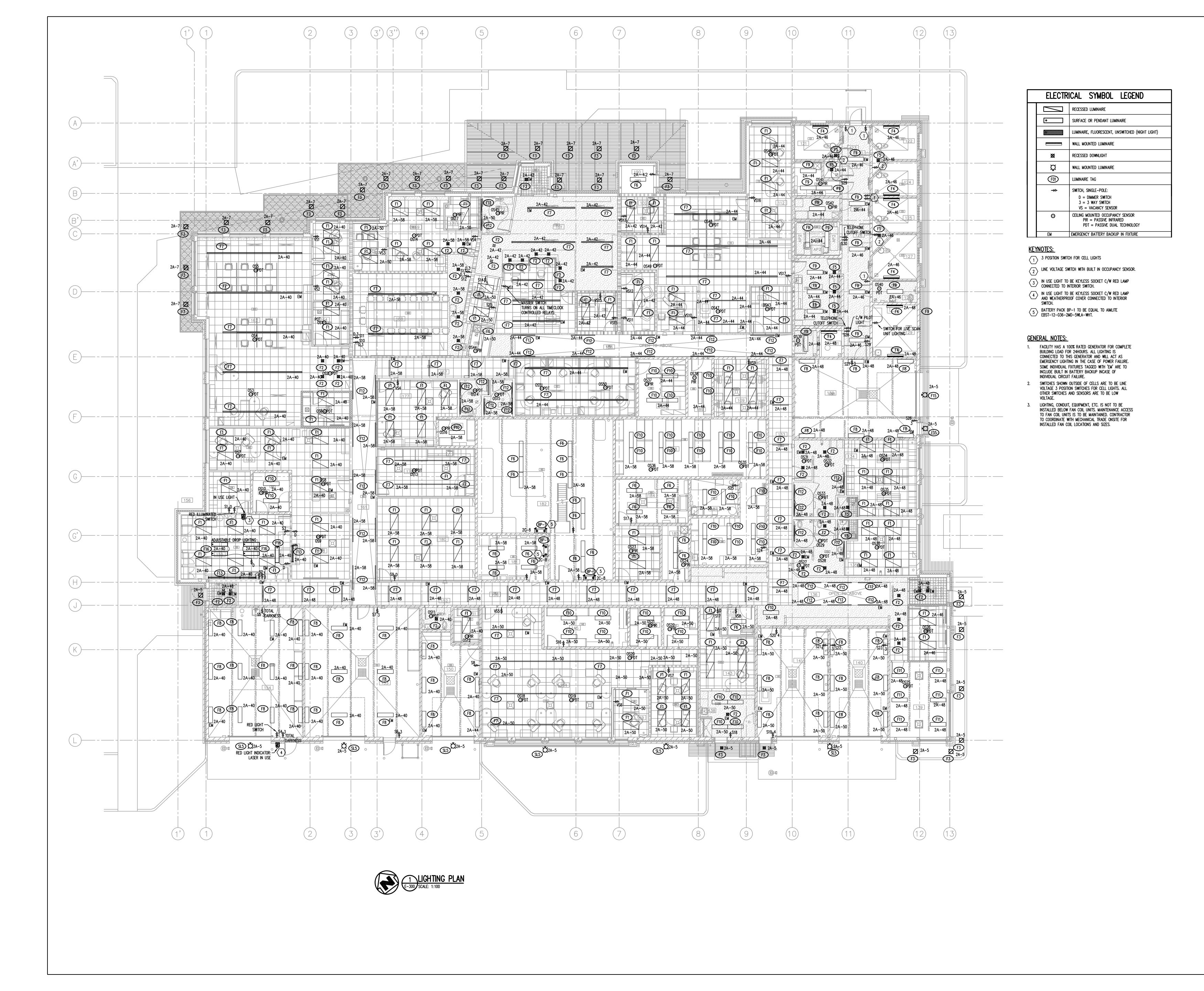


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Drawing Title			

ROOF PLAN &
OUTBUILDINGS
ELECTRICAL PLANS

E2.1

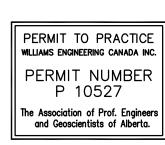


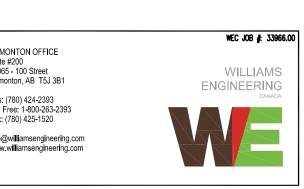


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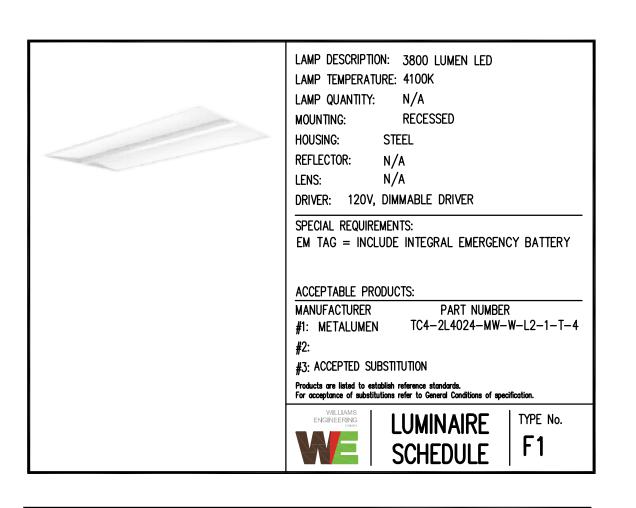
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Drawing Title

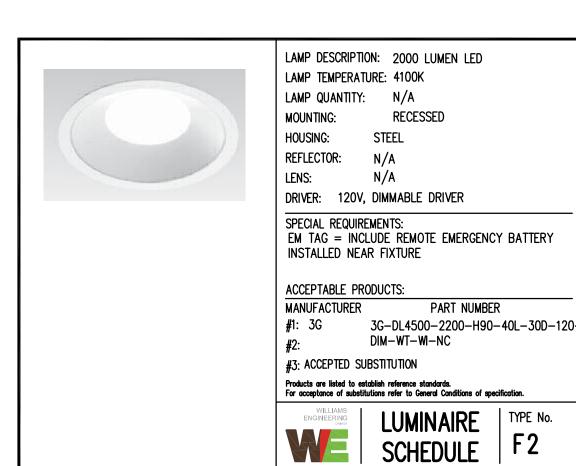
LIGHTING PLAN

Drawing No.

E3.0



LAMP DESCRIPTION: 2250 LUMEN LED

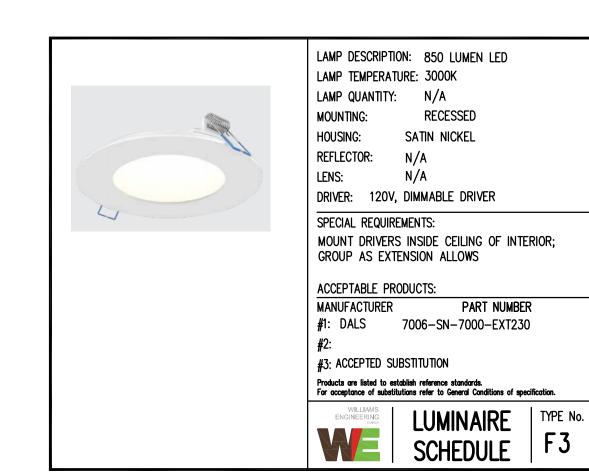


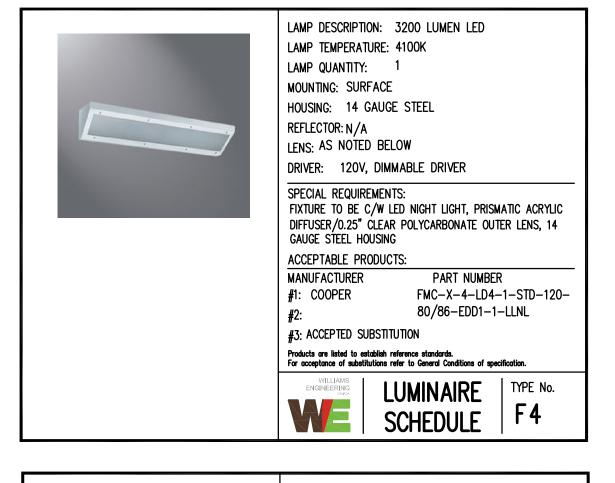
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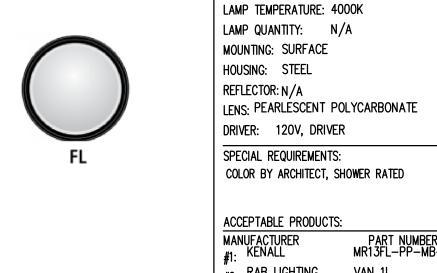
MOUNTING: SURFACE/PENDANT MOUNT

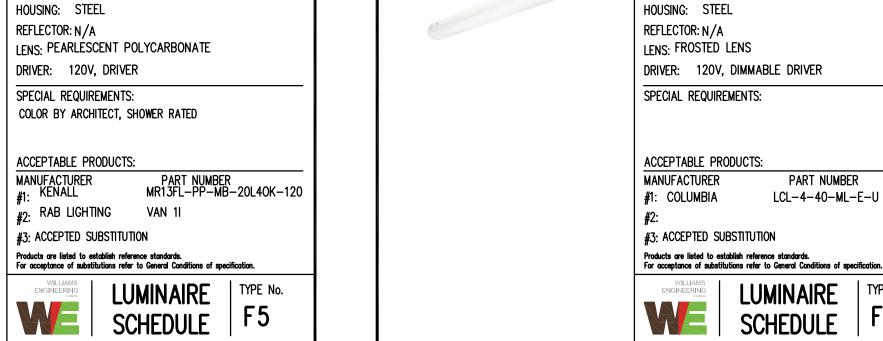
LAMP TEMPERATURE: 4000K

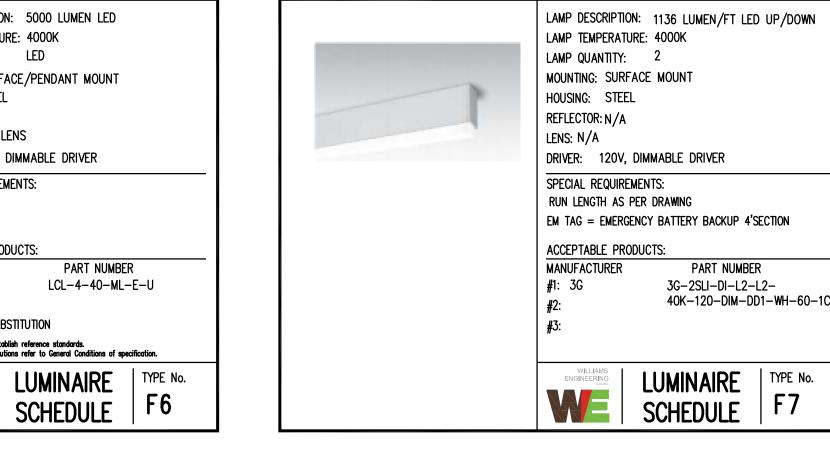
LAMP QUANTITY: LED



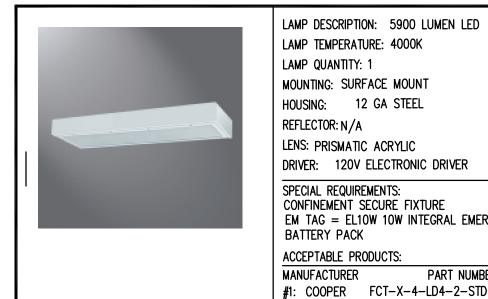












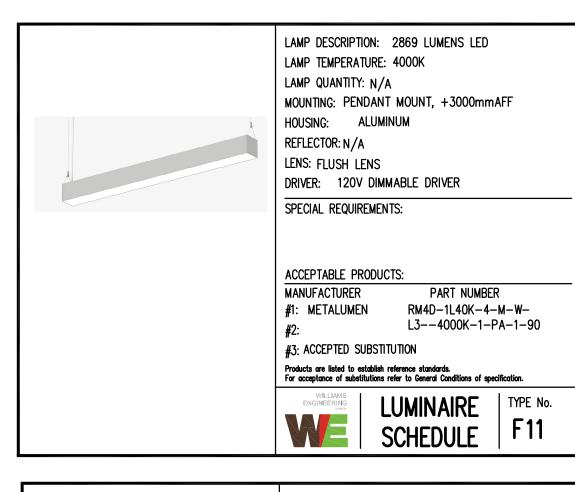


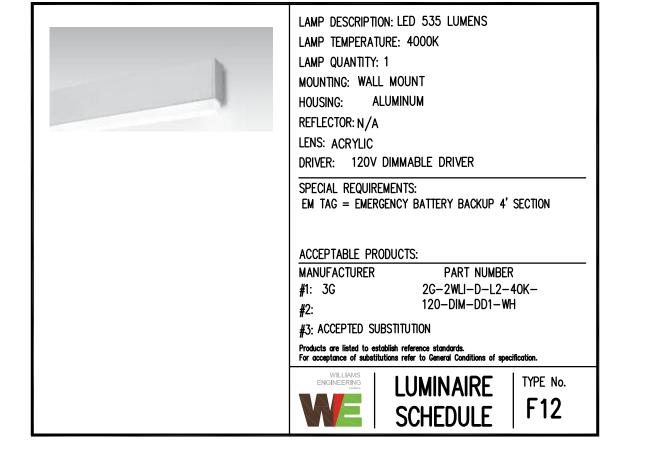
LAMP DESCRIPTION: 10W/M LED

LAMP TEMPERATURE: 4000K

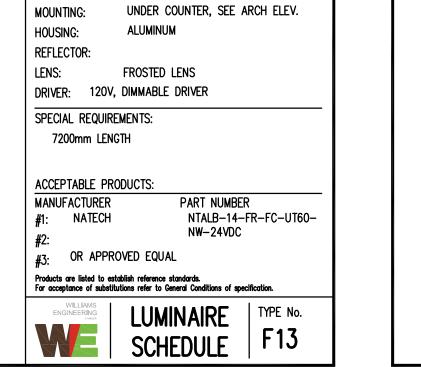


LAMP DESCRIPTION: 231 LUMENS LED

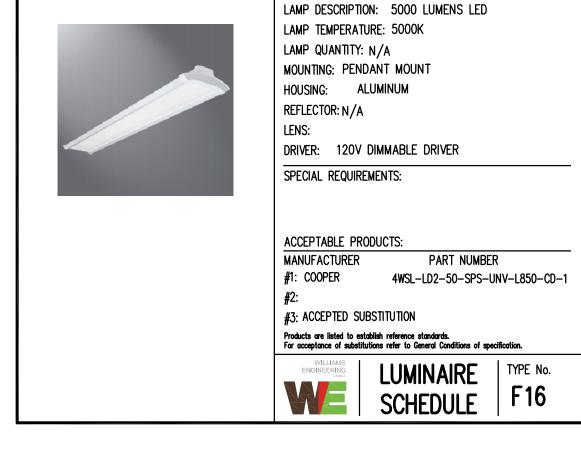


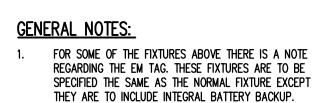














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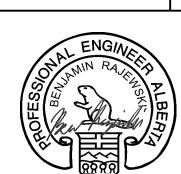
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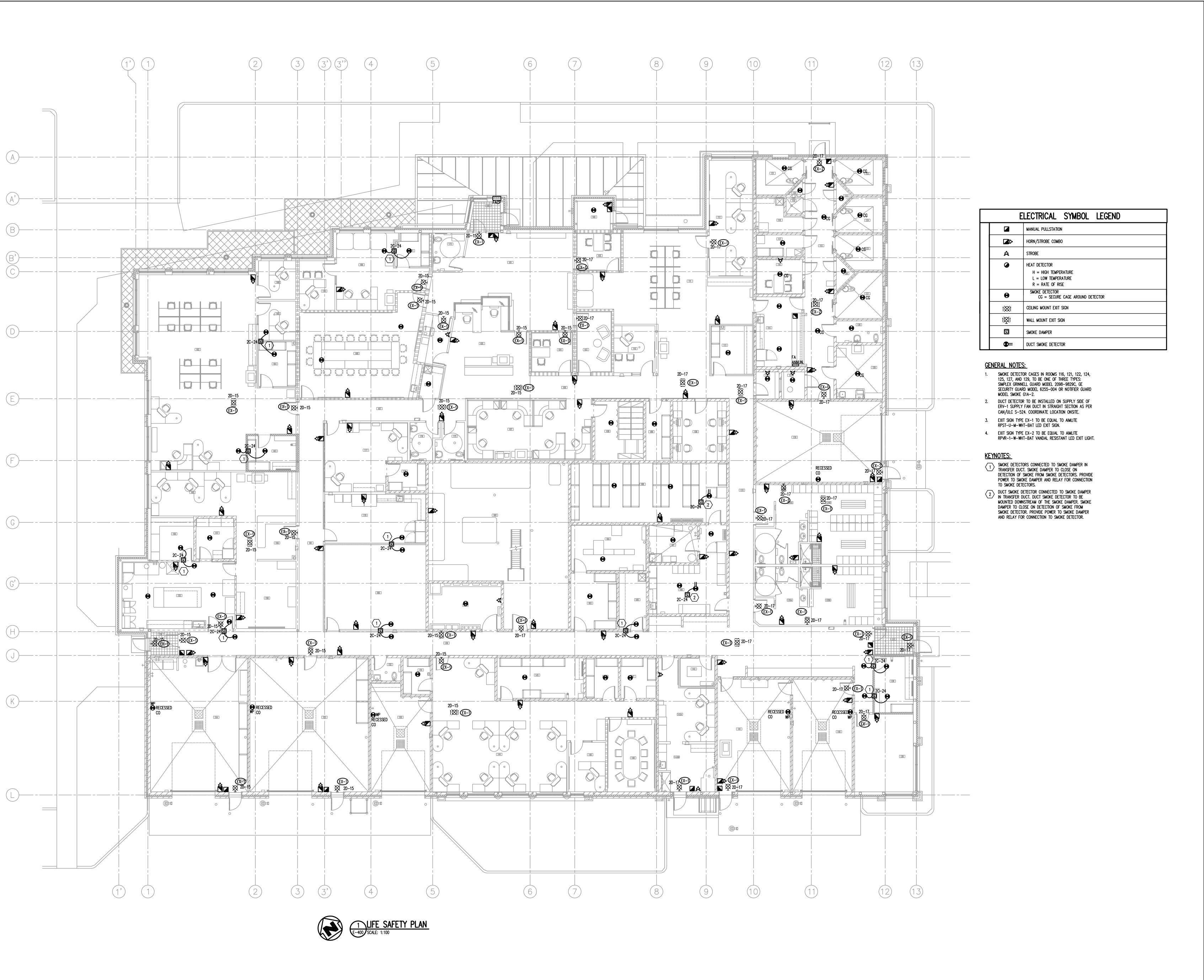




COALDALE PROTECTIVE SERVICES BUILDING

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Describes Title			

LUMINAIRE SCHEDULE



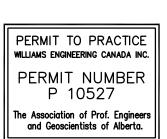


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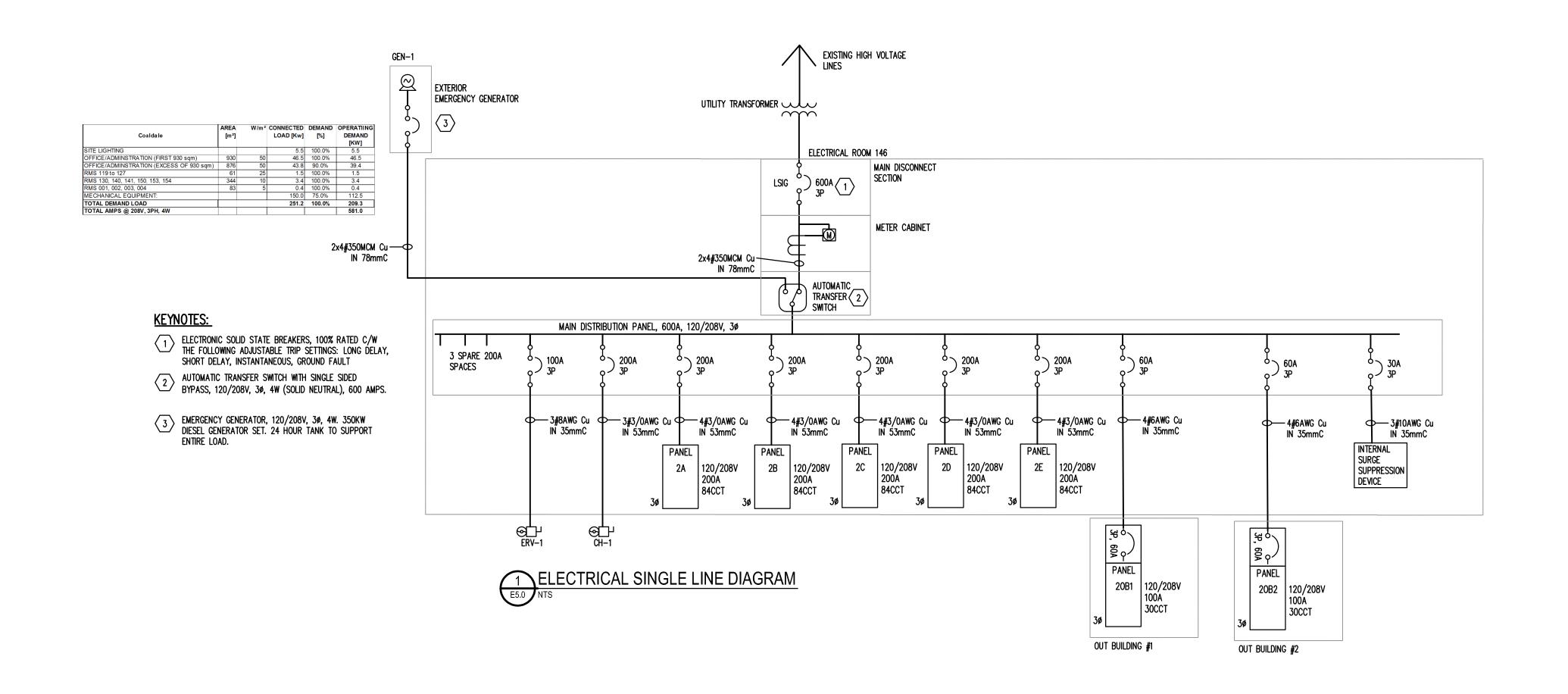
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Drawing Title

LIFE SAFETY PLAN

Drawing

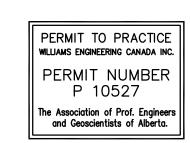
E4.0





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SINGLE LINE DIAGRAM

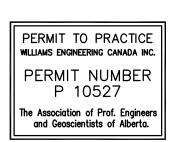
	NEL	CCTS	LINE VOLTAGE	ø	WIRE	MAIN	N BUS	MAIN B	REAKER	ICR	MOUI	NTING	LOCATION		FEEDER	
2	A	84	120/208V	3	4	22	25A	200/	A-3P	14KAIC	SURI	FACE	MECHANICAL ROOM	4	#3/0AWG	Cu
IOTES: Unswit	CHED NIGH	HT LIGHTIN	G **BREAKER LOCK ON PAINTED RED ***	BREAKER I	LOCK ON											
ļ	LOAD [kVA	\]	DESCRIPTION	POLE	AMP	CCT #	A	В	С	CCT #	AMP	POLE	DESCRIPTION		LOAD (kVA	.]
A	В	С	DESCRIPTION	POLE	AMP	001#	A .	В		001#	AMP	PULE	DESCRIPTION	A	В	С
1.0			SITE LIGHTING	1	15	1				2	15	1	RM 184 RECEPTACLES	0.4		
	0.9		SITE LIGHTING	1	15	3				4	15	1	PANIC ALARM PANEL		0.4	
		0.8	SITE LIGHTING	1	15	5				6	15	1	RM 172 RECEPTACLES			0.4
0.4			SITE LIGHTING	1	15	7				8				1.6		
	1.0		ILLUMINATED SIGN	1	15	9				10	20	2	L5-20R RECEPTACLE		1.6	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	11				12	70		L5 700 0505074015			2.0
1.3			PARKING PEDESTAL RECEPTACLE	1	15	13				14	30	2	L5-30R RECEPTACLE	2.0		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	15				16	15	1	ROOM 184 RECEPTACLE		1.0	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	17				18	15	1	ROOM 184 RECEPTACLE			1.0
1.3			PARKING PEDESTAL RECEPTACLE	1	15	19				20	15	1	ROOM 184 RECEPTACLE	1.0		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	21				22	20	1	ROOM 184 RECEPTACLE		1.6	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	23				24	20	1	ROOM 184 RECEPTACLE			1.6
1.3			PARKING PEDESTAL RECEPTACLE	1	15	25				26	20	1	ROOM 184 RECEPTACLE	1.6		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	27				28	20	1	ROOM 184 RECEPTACLE		1.6	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	29				30	20	1	ROOM 184 RECEPTACLE			1.6
1.3			PARKING PEDESTAL RECEPTACLE	1	15	31				32	30	2	L5-30R RECEPTACLE	2.0		
	1.3	4.7	PARKING PEDESTAL RECEPTACLE	1	15	33				34	45		2001 470 2505274015		2.0	
4.7		1.3	PARKING PEDESTAL RECEPTACLE	1	15	35				36	15	'	ROOM 139 RECEPTACLE	10		1.4
1.3	4.7		PARKING PEDESTAL RECEPTACLE	1	15	37				38	15		ROOM 139 RECEPTACLE	1.0	0.0	
	1.3	4.7	PARKING PEDESTAL RECEPTACLE	1	15	39				40	15		LIGHTING, RM 150 ~ 166,		0.9	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	41				42	15	1	LIGHTING, RM 100 ~ 105			0.9
1.3			PARKING PEDESTAL RECEPTACLE	1	15	43				44	15	1	LIGHTING, RM 106 ~ 119	1.1		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	45				46	15	1	LIGHTING, RM 120 ~ 128, 138		1.2	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	47				48	15	1	LIGHTING, RM 129 ∼ 139			0.8
1.3			PARKING PEDESTAL RECEPTACLE	1	15	49				50	15	1	LIGHTING, RM 140 ~ 149, 171 ~ 174	1.0		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	51				52	15	1	DOOR POWER SUPPLIES		0.4	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	53				54	15	1	SECURITY ANNUNCIATOR PANEL			0.4
1.3			PARKING PEDESTAL RECEPTACLE	1	15	55				56	15	1	FIRE ALARM PANEL **	1.0		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	57				58	15	1	LIGHTING, RM 161, 167 ~ 169, 175 ~188		0.5	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	59				60	15	1	MECHANICAL CONTROL PANEL			0.4
1.3			PARKING PEDESTAL RECEPTACLE	1	15	61				62	20	1	ROOM 139 RECEPTACLE	1.4		
	1.3		PARKING PEDESTAL RECEPTACLE	1	15	63				64	15	1	DOOR POWER SUPPLIES		0.4	
		1.3	PARKING PEDESTAL RECEPTACLE	1	15	65				66	20	1	ROOM 139 RECEPTACLE			1.4
0.0			FUTURE RADIO TOWER	1	15	67				68	20	1	ROOM 139 RECEPTACLE	1.4		
_	0.8		RM 184 RECEPTACLES	1	15	69				70	15	1	ROOM 139 RECEPTACLE		1.4	
		0.8	RM 184 RECEPTACLES	1	15	71				72	15	1	ROOM 139 RECEPTACLE			1.4
0.4			RM 184 RECEPTACLES	1	15	73				74	15	1	CHARGING STATION POWER	1.0		
	0.8		RM 184 RECEPTACLES	1	20	75				76	15	1	ROOM 107 RECEPTACLE		0.8	
		0.8	RM 184 RECEPTACLES	1	15	77		/		78	20	1	ROOM 107 COPIER			1.4
0.8			RM 184 RECEPTACLES	1	15	79			7	80	15	1				
	0.8		RM 184 RECEPTACLES	1	15	81				82	15	1				
			SPACE			83				84	15	1				
				<u> </u>	<u> </u>	<u> </u>	<u> </u>	[/	<u> </u>		<u> </u>	<u> </u>			
13.3	16.0	15.4] PHASE A	29	9.4	kVA	24	5.0	A					16.1	13.8	14.7
			- Phase B	20	9.8	kVA	24	8.3	Α						ı	

	NEL	CCTS	LINE VOLTAGE	ø	WIRE	MAIN	BUS	MAIN B	REAKER	ICR	MOUI	NTING	LOCATION		FEEDER	
2	2B	84	120/208V	3	4	22	25A	200	4-3P	14KAIC	SUR	FACE	MECHANICAL ROOM	4	#3/0AWG (Cu
NOTES: FUNSWIT	CHED NIGH	IT LIGHTING	G **BREAKER LOCK ON PAINTED RED ***	*BREAKER	LOCK ON								1			
l	LOAD [kVA]	DECODIDATION	DOLE		CCT #				CCT II	AMD.	DOLE	DECODIDEION		_OAD [kVA]
A	В	С	DESCRIPTION	POLE	AMP	661 #	A	В	С	CCT #	AMP	POLE	DESCRIPTION	A	В	С
1.0			RECEPTACLES, RM 162	1	15	1				2	15	1	BOOT CLEANER	0.4		
	1.0		RECEPTACLES, RM 162	1	15	3				4	15	1	SCREEN POWER		1.0	
		1.0	RECEPTACLES, RM 162	1	15	5				6	15	1	CHARGING STATIONS			1.0
1.0			RECEPTACLES, RM 162	1	15	7				8	20	1	RM 133 RECEPTACLES	0.8		
	1.0		RECEPTACLES, RM 162	1	15	9				10	15	1	RM 133 RECEPTACLES		0.8	
		1.0	RECEPTACLES, RM 162	1	15	11				12	15	1	RM 133 RECEPTACLES			0.8
1.0			RECEPTACLES, RM 162	1	15	13				14	15	1	RM 133 RECEPTACLES	0.8		
	1.0		RECEPTACLES, RM 160	1	15	15				16	15	1	RM 134 RECEPTACLES	+	1.0	
		1.0	RECEPTACLES, RM 160	1	15	17				18	15	1	RM 134 RECEPTACLES	1		0.8
0.4			RECEPTACLES, RM 160	1	15	19				20	15	1	COUNTER RECEPTACLES	0.8		
	1.0		 RECEPTACLES, RM 160,162,158	1	15	21				22	15	1	COUNTER RECEPTACLES	+	0.4	
		1.0	RECEPTACLES, RM 166	1	15	23				24	15	1	RM 108,189 RECEPTACLES	+		1.0
1.0			RECEPTACLES, RM 165	1	15	25				26	15	1	RM 107 RECEPTACLES	1.0		
	1.0		RECEPTACLES, RM 164,163	1	20	27				28	15	1	RM 108 RECEPTACLES	+	0.4	
		1.0	RECEPTACLES, RM 160	1	15	29				30	15		RM 107 WORKSTATION	+	<u> </u>	1.0
1.0			RECEPTACLES, RM 156,157,160	1	15	31				32	15		RM 107 WORKSTATION	1.0		
	1.0		RECEPTACLES, RM 156	1	15	33				34	15	1	GFI RECEPTACLES		0.4	
		1.0	RECEPTACLES, RM 156	1	15	35				36	15	1	HAND DRYER			1.2
1.0			RECEPTACLES, RM 155 FRIDGE	1	15	37				38	15	1	OVERHEAD DOOR OPERATOR	0.4		
	0.4		RECEPTACLES, RM 155,158	1	15	39				40	15	1	RECEPTACLES, RM 158		0.8	
		0.4	GFI RECEPTACLES, RM 155	1	15	41				42	15	1	RECEPTACLES, RM 158			0.8
0.2			DEVICE POWER	1	15	43				44	15	1	RECEPTACLES, RM 158,155	0.8		
	1.2		HAND DRYER	1	15	45				46	15	1	RECEPTACLES, RM 162 PRINTER		0.8	
		1.2	HAND DRYER	1	15	47				48	15	1	RECEPTACLES, RM 162			0.8
1.2			HAND DRYER	1	15	49				50	15	1	OVERHEAD DOOR OPERATOR	0.4		
	1.2		ROOM 124 POWER	1	20	51				52	15	1	RECEPTACLES		0.6	
		1.2	ROOM 124 POWER	1	20	53				54	15	1	RM 144 RECEPTACLES	+		0.8
1.2			ROOM 124 POWER	1	20	55				56	15	1	RM 148 RECEPTACLES	0.8		
	1.2		ROOM 124 POWER	1	20	57				58	15	1	RM 148 RECEPTACLES	+	0.8	
	1.2	1.2	ROOM 124 POWER	1	20	59				60	15		RM 141 RECEPTACLE	+	0.0	0.4
10		1.2		<u> </u>										+		0.4
1.2	1.0		ROOM 124 POWER	1	20	61				62	15		OVERHEAD DOOR OPERATORS	1.0		
	1.2		ROOM 124 POWER	1	20	63				64	15	1	ROOM 149 RECEPTACLE	+	0.4	
		1.2	ROOM 124 POWER	1	20	65				66	15	1	SECURE CORRIDOR RECEPTACLES	+-		0.6
1.2			ROOM 124 POWER	1	15	67				68	15	1	RECEPTACLES	0.6		
	1.0		FRIDGE	1	15	69				70	15	1	MOTORIZED BLINDS		1.0	
		1.0	MICROWAVE	1	15	71				72	15	1	HAND DRYER			1.0
1.0			COUNTER RECEPTACLE	1	20	73				74	15	1	WATER FOUNTAIN	1.0		
	1.0		DISHWASHER	1	15	75				76	15	1	OVERHEAD DOOR OPERATOR		0.4	
		1.0	COUNTER RECEPTACLE, RM 144, PRINTER	1	20	77				78	15	1	OVERHEAD DOOR OPERATOR			0.4
1.0			TV POWER	1	15	79				80	15	1	HAND DRYER	1.0		
	0.4		OVERHEAD DOOR OPERATOR	1	15	81				82						
		0.4	ROOM 128 RECEPTACLES	1	15	83				84				1		
				1	l	l	I	l	/		<u> </u>	I	<u>I</u>	+		
12.4	13.6	13.6	PHASE A	2:	2.8	kVA	190	0.0	A					10.4	8.8	10.0
•		•	-		2.4	kVA	180							L		



Do not scale drawing

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- * It is the responsibility of the appropriate Contractor to comply with all Codes and Regulations applicable to the performance of their work.
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- * All dimensions are in mm unless noted otherwise.

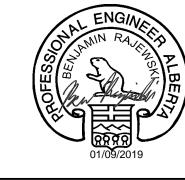




Issues/Revisions

No.	Description	Date	Ву
A	ISSUED FOR 50% REVIEW	2018.03.16	BR
В	ISSUED FOR 66% REVIEW	2018.05.15	BR
С	ISSUED FOR 75% REVIEW	2018.06.26	BR
D	ISSUED FOR TENDER	2019.01.09	BR
Spal			









COALDALE PROTECTIVE SERVICES BUILDING

Scale	AS NOTED	Designed By	BR
Project No.	0000	Drawn By	BR
Date	2001 JANUARY 0) Checked By	MF

PANE 2A & PANEL 2B SCHEDULES

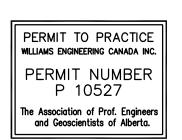
	NEL	CCTS	LINE VOLTAGE	ø	WIRE	MAIN	I BUS	MAIN E	BREAKER	ICR	MOU	NTING	LOCATION		FEEDER	
	2C	84	120/208V	3	4	22	25A	200	A-3P	14KAIC	SUR	FACE	MECHANICAL ROOM	4	#3/0AWG	Cu
OTES: Unswit	TCHED NIGH	HT LIGHTIN	G **BREAKER LOCK ON PAINTED RED	***BREAKER I	LOCK ON											
	LOAD [kVA	\]	DESCRIPTION	POLE	AMP	CCT #	 A	В	С	CCT #	AMP	POLE	DESCRIPTION		LOAD [kV/	\]
A	В	С	DESCRIPTION	1000	7.1811						7.1811	1 OLL	BESONII HON	A	В	(
0.4			B-1	1	15	1				2	25	1	FC-13	1.2		
	0.4		B-2	1	15	3				4	25	1	FC-14		1.2	
		0.4	HU-1	1	15	5				6	25	1	FC-15			1
0.4			-P-3	2	20	7				8	15	1	EMERGENCY LIGHTING BATTERY PACKS ***	0.2		
	0.4		77-3	2	20	9				10	15	1	SPARE			
			-P-4		20	11				12	20	1	SPARE			
0.4			7-4	2	20	13				14	15	1	EF-1	0.8		
	0.4					15				16	15	1	EF-2		1.0	
		0.2	P-5	3	30	17				18	15	1	EF-4			(
0.4]			19				20	15	1	EF-5	0.8		
	0.4					21				22	15	1	F-1		0.4	
		0.2	P-6	3	30	23				24	15	1	SMOKE DAMPERS	1.0		
0.4			1			25				26					0.4	
	0.4		P-7	1	15	27				28	15	3	EF-14			(
		0.8	DWH-2	1	15	29				30				0.4		
0.4			EF-6	1	15	31				32				1.5		
	0.4		EF-7	1	15	33				34	25	3	CU-1		1.5	
		0.4	OI-1	1	15	35				36						•
0.4			SP-1	1	15	37				38	15	1	SPARE			
	0.3		UH-1, FF-3	1	15	39				40	15	1	BMS CONTROLLER		0.4	
		0.3	UH-2, UH-3	1	15	41				42	15	1	BMS CONTROLLER			(
0.4			DWH-1	1	15	43				44	15	1	ROOF RECEPTACLE	0.8		
	0.3		TK-5,6	1	15	45				46	15	1	ROOF RECEPTACLE		0.8	
		0.4	EF-3	1	15	47				48	15	1	SPARE			
0.4			EF-10,11	1	15	49				50	15	2	RWL HEAT TRACE			
	0.4		EF-12,13	1	15	51				52	10		THE HEAT MADE			
		0.3	UH-4, UH-5	1	15	53				54	15		RWL HEAT TRACE			
0.3			UH-6, FF-2	1	15	55				56] 13	2	INWL HEAT TRACE			
	0.3		FF-1	1	15	57				58						
		0.3	TP-1	1	15	59				60	15	2	ERV HEAT TRACE			
1.2			FC-1	1	25	61				62						
	1.2		FC-2	1	25	63				64	30	1	L5-30R RECEPTACLE			
		1.2	FC-3	1	25	65		/		66	15	1	SPARE			
1.2			FC-4	1	25	67				68	15	1	SPARE			
	1.2		FC-5	1	25	69				70	15	1	SPARE			
		1.2	FC-6	1	25	71		/		72						
1.2			FC-7	1	25	73				74						
	1.2		FC-8	1	25	75				76						
		1.2	FC-9	1	25	77				78						
1 2		1.2	FC-10	<u> </u>						-						
1.2				1	25	79				80						
	1.2		FC-11	1	25	81				82						
		1.2	FC-12	1	25	83				84						
8.3	8.5	Q 1	PHASE A	4.5	t s	kVA	11:	5.0	A					5.5	5.7	
υ.3	0.3	8.1	PHASE A PHASE B	13	5.8 I.2	kVA kVA	118		A A					J.3	3.7	
			PHASE C		2.4	kVA		3.3								

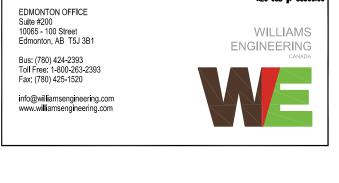
	NEL	CCTS	LINE VOLTAGE	ø	WIRE	MAIN	BUS	MAIN B	REAKER	ICR	MOUN	NTING	LOCATION		FEEDER	
20)B1	42	120/208V	3	4	22	25A	100/	\-3P	10KAIC	SURI	FACE	OUTBUILDING		4#3AWG Cı	u
NOTES: *Unswit	CHED NIG	t lightin	G **BREAKER LOCK ON PAINTED RED **	*Breaker i	LOCK ON	ı		l								
ı	LOAD [kVA	١]													LOAD [kVA	<u>.]</u>
A	В	С	DESCRIPTION	POLE	AMP	CCT #	A	В	С	CCT #	AMP	POLE	DESCRIPTION	Α	В	
0.8			LIGHTING	1	15	1				2				0	0	
	0.7		DUPLEX RECEPTACLE	1	15	3				4						
		0.5	DUPLEX RECEPTACLE	1	15	5				6						
1.0			OVERHEAD DOOR OPERATOR POWER	1	15	7				8						
	1.0		OVERHEAD DOOR OPERATOR POWER	1	15	9				10						
		0.3	EXTERIOR LIGHTING	1	15	11				12						
0.1			EXIT LIGHTING	1	15	13				14						
				1	15	15				16						
						17				18						
						19				20						
						21				22						
						23				24						
						25				26						
						27				28						
						29				30						_
4.4	4.7		DIVES :			1344		•	_							<u> </u>
1.1	1.7	0.8	PHASE A - PHASE B		.1 .7	kVA kVA		.2 ₂	A A					0.0	0.0	(
			PHASE C		.8	kVA		.7	A							
			TOTAL		.6	kVA).0	Α							

PAI		CCTS	LINE VOLTAGE	ø	WIRE	MAIN	I BUS	MAIN B	REAKER	ICR	MOUN	NTING	LOCATION		FEEDER	
20	DZ	42	120/208V	3	4	22	25A	100/	\−3P	10KAIC	SURI	FACE	OUTBUILDING		4#3AWG Cu	1
otes: Jnswit	CHED NIGH	it lightin	IG **BREAKER LOCK ON PAINTED RED ***	BREAKER I	LOCK ON											
l	OAD [kVA]	DECODIDATION	DOLE	AMD	CCT #				CCT #	AMD.	ם ו	DECODIDATION	1	LOAD [kVA]
A	В	С	- DESCRIPTION	POLE	AMP	1 661 #	A	В	С	CC1 #	AMP	POLE	DESCRIPTION	A	В	С
0.8			LIGHTING	1	15	1				2				0	0	0
	0.7		DUPLEX RECEPTACLE	1	15	3				4						
		0.5	DUPLEX RECEPTACLE	1	15	5				6						
1.0			OVERHEAD DOOR OPERATOR POWER	1	15	7				8						
	1.0		OVERHEAD DOOR OPERATOR POWER	1	15	9				10						
		0.3	EXTERIOR LIGHTING	1	15	11				12						
0.1			EXIT LIGHTING	1	15	13				14						
	1.0		OVERHEAD DOOR OPERATOR POWER	1	15	15				16						
						17				18						
						19				20						
						21				22						
						23				24						
						25				26						
						27				28						
						29				30						
4.4	0.7		Duas :		. 4	134		٥								
1.1	2.7	0.8	PHASE A		1.1	kVA		.2	A					0.0	0.0	0.0
			PHASE B PHASE C		2.7	kVA kVA	22 6	2.5	Α							



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Issues/Revisions

No.	Description	Date	Ву
A	ISSUED FOR 50% REVIEW	2018.03.16	BR
В	ISSUED FOR 66% REVIEW	2018.05.15	BR
С	ISSUED FOR 75% REVIEW	2018.06.26	BR
D	ISSUED FOR TENDER	2019.01.09	BR











COALDALE PROTECTIVE SERVICES BUILDING

_	Scale	AS NOTED	Designed By	BR
	Project No.	0000	Drawn By	BR
	Date	2001 JANUARY 0) Checked By	MF
•	Drawing Title			

PANEL 2C, 20B1 & 20B2 SCHEDULES

PAI		CCTS	LINE VOLTAGE	ø	WIRE	MAIN	I BUS	MAIN B	REAKER	ICR	MOUI	NTING	LOCATION		FEEDER	
2	.D	84	120/208V	3	4	2:	25A	200/	A-3P	14KAIC	SUR	FACE	MECHANICAL ROOM	4	#3/0AWG (Cu
OTES: Unswit	CHED NIGH	T LIGHTIN	G **BREAKER LOCK ON PAINTED RED ***	Breaker i	LOCK ON	•		•		l				•		
L	LOAD [kVA]				007 #				007 #					LOAD [kVA]
Α	В	С	DESCRIPTION	POLE	AMP	CCT #	A	В	С	CCT#	AMP	POLE	DESCRIPTION	A	В	С
0.5			FAUCETS & VALVES, RM 172,175,176	1	15	1				2	25	1	FC-16	1.2		
	0.5		FAUCETS & VALVES, RM 128,134,135	1	15	3				4	25	1	FC-17		1.2	
		0.4	EF-8	1	15	5				6	25	1	FC-18			1.2
0.4			EF-9	1	15	7				8	25	1	FC-19	1.2		
	0.1		***EXIT SIGNS	1	15	9				10	25	1	FC-20		1.2	
		0.1	***EXIT SIGNS	1	15	11				12	25	1	FC-21			1.2
0.4			EF-13	1	15	13				14	25	1	FC-22	1.2		
	0			1	15	15				16	25	1	FC-23		1.2	
		0		1	15	17				18	25	1	FC-24			1.2
0				1	15	19				20	25	1	FC-25	1.2		
	0			1	15	21				22	25	1	FC-26		1.2	
		0		1	15	23				24	25	1	FC-27			1.2
0				1	15	25				26	25	1	FC-28	1.2		
	0			1	15	27				28	25	1	FC-29		1.2	
		1.0	RECEPTACLES, RM 114, MICROWAVE	1	15	29				30	25	1	FC-30			1.2
1.0			RECEPTACLES, RM 114, FRIDGE	1	15	31				32	25	1	FC-31	1.2		
	1.0		RECEPTACLES, RM 106,111	1	15	33				34	25	1	FC-32		1.2	
		1.0	RECEPTACLES, EXTERIOR WP	1	15	35				36	25	1	FC-33			1.2
1.0			RECEPTACLES, RM 129	1	15	37				38	25	1	FC-34	1.2		
	1.0		RECEPTACLES, RM 132,130	1	15	39				40						
		1.0	RECEPTACLES, RM 129, LIVE SCAN UNIT	1	15	41				42						
1.0			RECEPTACLES, RM 129, LIVE SCAN PRINTER	1	15	43				44						
	1.0		RECEPTACLES, RM 114	1	15	45				46						
		1.0	RECEPTACLES, RM 114	1	15	47				48						
1.0			RECEPTACLES, RM 114	1	15	49				50						
	1.0		RECEPTACLES, RM 114	1	15	51				52						
		1.0	RECEPTACLES, RM 120,123,126,115	1	15	53				54						
1.0			DECEDIACIES DA 110 MACHED /			55				56						
	1.0		RECEPTACLES, RM 118, WASHER / DRYER	2	30	57				58						
		1.0	RECEPTACLES, RM 118,117	1	15	59				60						
1.0			RECEPTACLES, RM 112	1	15	61				62						
	1.0		RECEPTACLES, RM 112	1	15	63				64						
			RECEPTACLES, RM 112	1	15	65				66						
1.0			RECEPTACLES, RM 111	1	15	67				68						
1.0	1.0		RECEPTACLES, RM 110	1	15	69				70						
	1.0			· 												
			RECEPTACLES, RM 111, PRINTER	1	20	71				72						
1.0			RECEPTACLES, RM 111	1	15	73				74						
	1.0		RECEPTACLES, RM 111	1	15	75				76						
		1.0	RECEPTACLES, RM 111,102	1	15	77				78						
1.0			RECEPTACLES, RM 111	1	15	79				80						
	1.0		RECEPTACLES, RM 113	1	15	81				82						
		1.0	RECEPTACLES, RM 103	1	15	83				84						
9.8	9.6	10.5	PHASE A	17	7.0	kVA	14	1.7	A					7.2	7.2	7.2

	NEL	CCTS	LINE VOLTAGE	ø	WIRE	MAIN	I BUS	MAIN E	BREAKER	ICR	MOUI	NTING	LOCATION		FEEDER	
2	E	84	120/208V	3	4	22	25A	200	A-3P	14KAIC	SUR	FACE	MECHANICAL ROOM	4,	#3/0AWG (Cu
NOTES: *UNSWIT	CHED NIGH	i It lightin	ig **Breaker lock on painted red ***E	i Breaker i	LOCK ON					<u> </u>						
	_OAD [kVA		SALIMEN 2001 SILVAIN 20 1.25	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.										ι	_OAD [kVA	.]
A	В	С	DESCRIPTION	POLE	AMP	CCT #	A	В	С	CCT #	AMP	POLE	DESCRIPTION	A	В	С
1.0			RECEPTACLES, RM 155	1	15	1				2				1.0		
	1.0		RECEPTACLES, RM 155	1	15	3				4	15	2	RECEPTACLES, RM 155		1.0	
		1.0	RECEPTACLES, RM 155,DISHWASHER	1	15	5				6						1.0
1.0			WASHER, RM 154	1	15	7				8	15	2	RECEPTACLES, RM 155	1.0		
	1.0		RECEPTACLES, RM 154	1	15	9				10					1.0	
		1.0	RECEPTACLES, RM 154	1	15	11				12	15	2	RECEPTACLES, RM 155			1.0
1.0			RECEPTACLES, RM 153	1	15	13				14				1.0		
	1.0		RECEPTACLES, RM 153,150	1	15	15				16	30	2	DRYER, RM154		1.0	
		1.0	RECEPTACLES, RM 150,152	1	15	17				18	15	1	RECEPTACLES RM 155			1.0
1.0			RECEPTACLES RM 155	1	15	19				20	15	1	RECEPTACLES RM 155	1.0		
	1.0		RECEPTACLES, RM 151,145,146,147,143	1	15	21				22	15	1	RECEPTACLES RM 154		1.0	
		1.0	RECEPTACLES, RM 144	1	15	23				24	20	1	CHOPSAW POWER			1.4
1.0			RECEPTACLES, RM 144	1	15	25				26	15	1	RECEPTACLES, RM 186	1.0		
	1.0		RECEPTACLES, RM 144	1	15	27				28	15	1	RECEPTACLES, RM 101,TV		1.0	
		1.0	RECEPTACLES, RM 144	1	15	29				30	15	1	RECEPTACLES, RM 179, VENDING			1.0
1.0			RECEPTACLES, RM 144	1	15	31				32	15	1	RECEPTACLES, RM 179, VENDING MACHINE	1.0		
	1.0		RECEPTACLES, RM 145,147	1	15	33				34	15	1	RECEPTACLES, RM 179,FRIDGE	-	1.0	
		1.0	RECEPTACLES, RM 142	1	15	35				36	15	1	RECEPTACLES, RM 168, FRIDGE	<u> </u>		1.0
1.0			RECEPTACLES, RM 142	1	15	37				38	15	1	RECEPTACLES, RM 104	1.0		
	1.0		RECEPTACLES, RM 142	1	15	39				40	15	1	RECEPTACLES, RM 105	<u> </u>	1.0	
		1.0	RECEPTACLES, RM 143	1	15	41				42	15	1	RECEPTACLES, RM 105	-		1.0
1.0			RECEPTACLES, RM 143	1	15	43				44	15	1	RECEPTACLES, RM 101,105	1.0		
	1.0		RECEPTACLES, RM 140	1	15	45				46	15	1	RECEPTACLES, RM 169,101,100,105	-	1.0	
		1.0	RECEPTACLES, RM 138	1	15	47				48	15	1	RECEPTACLES, RM 169, PRINTER	<u> </u>		1.0
1.0			RECEPTACLES, RM 138	1	15	49				50	15	1	RECEPTACLES, RM 169	1.0		
	1.0		RECEPTACLES, RM 133,136	1	15	51				52	15	1	RECEPTACLES, RM 169,170		1.0	
		1.0	RECEPTACLES, RM 135	1	15	53				54	15	1	RECEPTACLES, RM 173,174			1.0
1.0			RECEPTACLES, RM 186	1	15	55				56	15	1	RECEPTACLES, RM 168	1.0		
	1.0		RECEPTACLES, RM 186 FRIDGE	1	15	57				58	15	1	RECEPTACLES, RM 168		1.0	
		1.0	RECEPTACLES, RM 187	1	15	59				60	15	1	RECEPTACLES, RM 168			1.0
1.0			RECEPTACLES, RM 188,182	1	15	61				62	15	1	RECEPTACLES, RM 175,176	1.0		
	1.0		RECEPTACLES, RM 109	1	15	63				64	15	1	RECEPTACLES, RM 177		1.0	
		1.0	RECEPTACLES, RM 109	1	15	65				66	15	1	RECEPTACLES, RM 177			1.0
1.0			RECEPTACLES, RM 109	1	15	67				68	15	1	RECEPTACLES, RM 177	1.0		
	1.0		RECEPTACLES, RM 109	1	15	69				70	15	1	RECEPTACLES, RM 179,TV		1.0	
		1.0	RECEPTACLES, RM 180,177,178	1	15	71				72	15	1	RECEPTACLES, RM 179			1.0
1.0			RECEPTACLES, RM 180	1	15	73				74	15	1	RECEPTACLES, RM 179,DISHWASHER	1.0		
	1.0		RECEPTACLES, RM 180	1	15	75				76	15	1	RECEPTACLES, RM 179,MICROWAVE		1.0	
		1.0	RECEPTACLES, RM 180	1	15	77				78	15	1	RECEPTACLES, RM 179,MICROWAVE			1.0
1.0			RECEPTACLES, RM 180	1	15	79				80	15	1	RECEPTACLES, RM 179,FRIDGE	1.0		
	1.0		RECEPTACLES, RM 180	1	15	81				82	15	1	RECEPTACLES, RM 179		1.0	
		1.0	RECEPTACLES, RM 180	1	15	83		<i></i>		84	15	1	RECEPTACLES, RM 180			1.0
				l .	<u>I</u>	<u>I</u>	<u>I</u>	Ī	/	-	l	I	ı	1		
13.0	14.0	14.0	PHASE A	26	6.0	kVA	21	6.7	Α					13.0	14.0	14.4
		_	- Phase B	28	3.0	kVA	23	3.3	Α							



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PERMIT NUMBER P 10527 The Association of Prof. Engineers and Geoscientists of Alberta.



Issue	s/Revisions		
No.	Description	Date	Ву
A	ISSUED FOR 50% REVIEW	2018.03.16	BR
В	ISSUED FOR 66% REVIEW	2018.05.15	BR
С	ISSUED FOR 75% REVIEW	2018.06.26	BR





D ISSUED FOR TENDER

Government Gouvernement of Canada du Canada

2019.01.09 BR



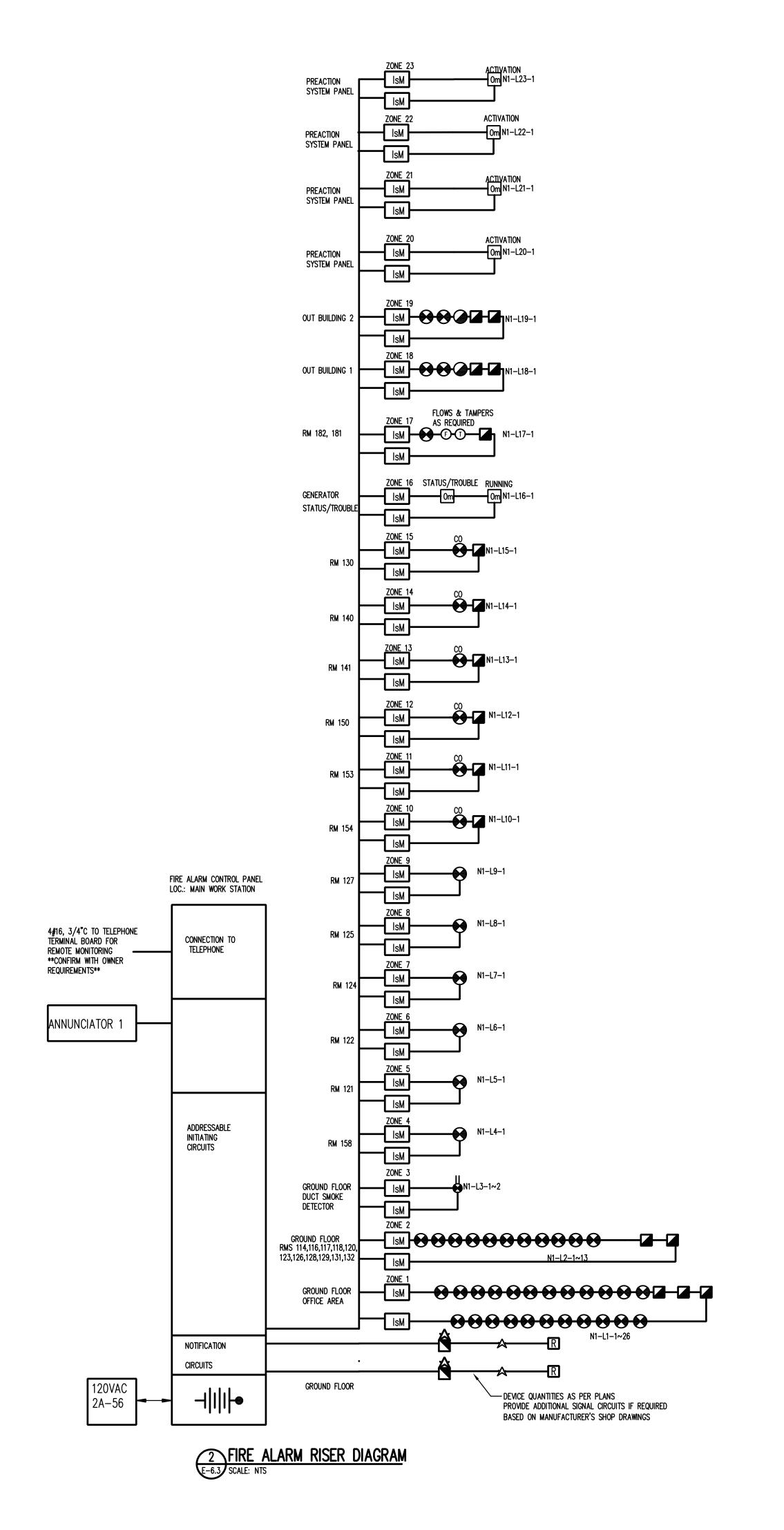
COALDALE PROTECTIVE SERVICES BUILDING

	Scale	AS NOTED	Designed By	BR
	Project No.	0000	Drawn By	BR
	Date	2001 JANUARY 0) Checked By	MF
	Drawing Title			

PANEL 2D AND 2E PANEL SCHEDULES

LOW VOLTAGE RELAY PANEL A									
ROOM#	CCT#	RELAY #	LOCAL SWITCH	OCCUPANCY SENSOR	TIME CLOCK CONTROL	REMARKS			
101	2A-42	1	-	-	YES	TIMECLOCK CONTROL, DIM TO 65% FROM 9PM TO 6AM			
102	2A-42	2	-	OS1	NO	TIMECLOCK CONTROL, DIM TO 65% FROM 9PM TO 6AM. PDT OCCUPANCY OVERRIDE DURING OFF HOURS.			
103	2A-42	3		0\$2	YES	PDT OCCUPANCY SENSOR CONTROL WITH TIMECLOCK CONTROL			
104	2A-42	4	-	0S3	NO	PIR OCCUPANCY SENSOR CONTROL			
105	24.42	5	S1,S2,S3,S4	0S4	NO	DIMMABLE 3-WAY SWITCHES WITH PDT OCCUPANCY CONTROL OVERRIDE			
105	2A-42	6	S14	0S4	NO	DIMMABLE SWITCH WITH PDT OCCUPANCY CONTROL OVERRIDE			
106	2A-44	7	-	0\$5	NO	PIR OCCUPANCY SENSOR CONTROL			
107	2A-44	8	VS1	-	NO	VACANCY SENSOR SWITCH			
108	2A-44	9	-	0S6	NO	PDT OCCUPANCY SENSOR CONTROL			
109	2A-44	10	VS2, VS3	-	NO	VACANCY SENSOR 3-WAY SWITCHES			
110	2A-44	11	VS4, VS5	-	NO	VACANCY SENSOR 3-WAY SWITCHES			
111	2A-44	12	VS6, VS7	_	NO	VACANCY SENSOR 3-WAY SWITCHES			
112	2A-44	13	VS8	-	NO	VACANCY SENSOR SWITCH			
114/115	2A-44	14	MS1	0S17, 0S27, 0S36	YES	TIMECLOCK CONTROL, DIM TO 65% FROM 9PM TO 6AM. PDT OCCUPANCY OVERRIDE DURING OFF HOURS.			
116	2A-44	15	VS9	-	NO	VACANCY SENSOR SWITCH			
117	2A-44	16	VS10	-	NO	VACANCY SENSOR SWITCH			
118, 119	2A-44	17	MS1	0S37, 0S38	YES	TIMECLOCK CONTROL, DIM TO 65% FROM 9PM TO 6AM. PDT OCCUPANCY OVERRIDE DURING OFF HOURS.			
120/125/138	2A-46	18	MS1	0S39, 0S40, 0S41, 0S42, 0S43	YES	TIMECLOCK CONTROL, DIM TO 65% FROM 9PM TO 6AM. PDT OCCUPANCY OVERRIDE DURING OFF HOURS.			
121	2A-46	19	-	0S7-0S10	NO	PDT OCCUPANCY SENSOR CONTROL			
122	2A-46	20	-	OS11	NO	PDT OCCUPANCY SENSOR CONTROL			
123	2A-46	21	-	0S12-0S14	NO	PDT OCCUPANCY SENSOR CONTROL			
124	2A-46	22	-	0S15	NO	PIR OCCUPANCY SENSOR CONTROL			
126	2A-46	23	-	OS16	NO	PDT OCCUPANCY SENSOR CONTROL			
127	2A-46	24	-	-	YES	TIMECLOCK CONTROL, DIM TO 65% FROM 9PM TO 6AM			
128	2A-46	25	S5, S6	-	NO	THREE WAY SWITCH CONTROL			
129	2A-48	26	S13	-	NO	MANUAL SWITCH			
130/131	2A-48	27	-	0S18	NO	PIR OCCUPANCY CONTROL			
132	2A-48	28	-	0S19	NO	PDT OCCUPANCY CONTROL			

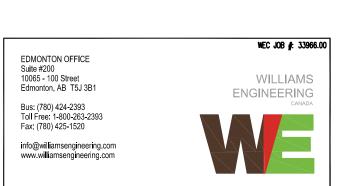
	L	OW VOLT	AGE RE	LAY PANE	LA	
ROOM#	CCT#	RELAY #	LOCAL SWITCH	OCCUPANCY SENSOR	TIME CLOCK CONTROL	REMARKS
133	2A-48	29	S11	-	NO	MANUAL SWITCH
134	2A-48	30	-	OS21/OS21A	NO	PIR OCCUPANCY CONTRO
135	2A-48	31	-	0S22, 0S23	NO	PIR OCCUPANCY CONTRO
136	2A-48	32	-	0S24	NO	PIR OCCUPANCY CONTRO
137	2A-48	33	-	0S25	NO	PIR OCCUPANCY CONTRO
139	2A-48	34	S7	-	NO	MANUAL SWITCH CONTRO
140/143	2A-50	35	S8, S13	0S44, 0S45, 0S46, 0S47, 0S48, 0S49, 0S50, 0S51	YES	TIMECLOCK CONTROL, DIM 65% FROM 9PM TO 6AN WITH 3-WAY MANUAL SWITCHES OVERRIDE ANI AFTER HOURS OCCUPANO CONTROL
141	2A-50	36	-	OS26	NO	PDT OCCUPANCY SENSO CONTROL
142	2A-50	37	S9	-	NO	MANUAL SWITCH OUTSIDE ROOM
144	2A-50	38	S10	-	NO	MANUAL SWITCH OUTSID
147	2A-50	39	_	0S28	NO	PIR OCCUPANCY CONTRO
148	2A-50	40	S12	-	NO	MANUAL SWITCH
149	2A-50	41	-	0S30, 0S31	NO	PIR OCCUPANCY CONTRO
171	2A-50	42	S15	-	NO	SHOWER MANUAL SWITCH
172	2A-50	43	-	0S32	NO	PIR OCCUPANCY CONTRO
173	2A-50	44	-	0S33, 0S34	NO	PIR OCCUPANCY CONTRO
174	2A-50	45	_	0S35	NO	PDT OCCUPANCY CONTRO



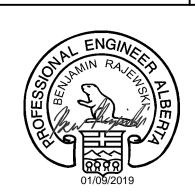


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Issue	s/Revisions		
No.	Description	Date	Ву
A	ISSUED FOR 50% REVIEW	2018.03.16	BR
В	ISSUED FOR 66% REVIEW	2018.05.15	BR
С	ISSUED FOR 75% REVIEW	2018.06.26	BR
0	ISSUED FOR TENDER	2019 01 09	99









COALDALE PROTECTIVE SERVICES BUILDING

	Scale	AS NOTED	Designed By	BR
	Project No.	0000	Drawn By	BR
•	Date	2001 JANUARY 0) Checked By	MF

RELAY SCHEDULES & FIRE ALARM RISER

E6.3

		MEC	HANICAL	EQUIPME	NT SCHE	DULE			
EQUIP. Tag	DESCRIPTION	LOCATION	KW (HP)/ FLA	VOLT/PH.	CONDUIT/ WIRE	BREAKER	CCT#	STARTER	REMARKS
B-1	BOILER	RM 145	FRAC. HP	120V/1ø	21mmC-2#12	15A-1P	2C-1	PACK. UNIT	
B-2 H-1/DF	BOILER	RM 145	FRAC. HP	120V/1ø	21mmC-2#12	15A-1P	2C-3	PACK. UNIT	
C-1	CHILLER	ROOF	167MCA	208V/3ø	53mmC-3#3/0	200A-3P	MDP	PACK. UNIT	
P-1	CIRCULATOR PUMP	RM 145	70W	120V/1ø	21mmC-2#12	15A-1P	2C-1	MAN.	POWERED FROM B-1. ELECTRICIAN TO WIRE.
P-2	CIRCULATOR PUMP	RM 145	70W	120V/1ø	21mmC-2#12	15A-1P	2C-3	MAN.	POWERED FROM B-2. ELECTRICIAN TO WIRE.
P-3	CIRCULATOR PUMP	RM 145	1 HP	208V/1ø	21mmC-2 # 12	20A-2P	2C-7,9	VFD	
P-4	CIRCULATOR PUMP	RM 145	1 HP	208V/1ø	21mmC-2#12	20A-2P	2C-11,13	VFD	
P-5	VERTICAL INLINE PUMP	RM 145	3 HP	208V/3ø	21mmC-3#10	30A-3P	2C-15,17,19	VFD	
P-6	VERTICAL INLINE PUMP	RM 145	3 HP	208V/3ø	21mmC-3#10	30A-3P	20-21,23,25	VFD	
P-7	CIRCULATOR PUMP	RM 145	FRAC. HP	120V/1ø	21mmC-2 # 12	15A-1P	2C-27	MAN.	
SP-1	SUMP PUMP	RM 128/ RM 149	1/6HP	120V/1ø	21mmC-2 # 12	15A-1P	2C-37	MAN.	
UH-1	UNIT HEATER	RM 154	1/6HP	120V/1ø	21mmC-2 # 12	15A-1P	2C-39	MAN.	
UH-2	UNIT HEATER	RM 153	1/6HP	120V/1ø	21mmC-2#12	15A-1P	2C- 4 1	MAN.	
UH-3	UNIT HEATER	RM 150	1/6HP	120V/1ø	21mmC-2 # 12	15A-1P	2C- 4 1	MAN.	
UH-4	UNIT HEATER	RM 141	1/6HP	120V/1ø	21mmC-2 # 12	15A-1P	2C-53	MAN.	
UH-5	UNIT HEATER	RM 140	1/6HP	120V/1ø	21mmC-2#12	15A-1P	2C-53	MAN.	
UH-6	UNIT HEATER	RM 130	1/6HP	120V/1ø	21mmC-2 # 12	15A-1P	2C-55	MAN.	
UH-7	UNIT HEATER	RM 182	1/6HP	120V/1ø	21mmC-2 # 12	15A-1P	2C-55	MAN.	
FF-1	FORCE FLOW	RM 101	1/6HP	120V/1ø	21mmC-2 # 12	15A-1P	2C- 4 1	MAN.	
FF-2	FORCE FLOW	RM 127	1/6HP	120V/1ø	21mmC-2#12	15A-1P	2C-39	MAN.	
FF-3	FORCE FLOW	RM 191	1/6HP	120V/1ø	21mmC-2#12	15A-1P	2C- 4 1	MAN.	
DWH-1	DOMESTIC WATER HEATER	RM 145	6.6FLA	120V/1ø	21mmC-2#12	15A-1P	2C-43	-	
OWH−2	DOMESTIC WATER HEATER	RM 145	6.6FLA	120V/1ø	21mmC-2#12	15A-1P	2C-29	-	
TK-3	FILL TANK	RM 145	1A	120V/1ø	21mmC-2#12	15A-1P	2C-45	-	
TP-1	TRAP PRIMER	TBD	FRAC. HP	120V/1ø	21mmC-2#12	15A-1P	2C-59	-	
TP-2	TRAP PRIMER	TBD	FRAC. HP	120V/1ø	21mmC-2#12	15A-1P	2C-59	-	
TP-3	TRAP PRIMER	TBD	FRAC. HP	120V/1ø	21mmC-2#12	15A-1P	2C-59	-	
-DV 1	SUPPLY FAN	ROOF	40MCA	208V/3ø	35mmC-3#8	100A-3P	MDP	PACK. UNIT	
ERV-1	LIGHTS	ROOF	375W	120V/1ø	21mmC-2#12	15A-1P	2C-53	PACK. UNIT	
FC-1	FAN COIL	RM 107	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-61	ECM MOTOR, DIRECT DRIVE	
FC-2	FAN COIL	RM 107	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-63	ECM MOTOR, DIRECT DRIVE	
FC-3	FAN COIL	RM 105	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-65	ECM MOTOR, DIRECT DRIVE	
FC-4	FAN COIL	RM 111	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-67	ECM MOTOR, DIRECT DRIVE	
FC-5	FAN COIL	RM 113	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-69	ECM MOTOR, DIRECT DRIVE	
FC-6	FAN COIL	RM 111	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-71	ECM MOTOR, DIRECT DRIVE	
FC-7	FAN COIL	RM 111	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-73	ECM MOTOR, DIRECT DRIVE	
FC-8	FAN COIL	RM 111	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-75	ECM MOTOR, DIRECT DRIVE	
FC-9	FAN COIL	RM 111	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-77	ECM MOTOR, DIRECT DRIVE	
-C-10	FAN COIL	RM 111	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-79	ECM MOTOR, DIRECT DRIVE	
FC-11	FAN COIL	RM 177	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-81	ECM MOTOR, DIRECT DRIVE	
-C-12	FAN COIL	RM 179	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-83	ECM MOTOR,	
FC-13	FAN COIL	RM 180	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-2	DIRECT DRIVE ECM MOTOR, DIRECT DRIVE	
FC-14	FAN COIL	RM 143	1/2HP	120V/1ø	21mmC-2 # 12	25A-1P	2C-4	ECM MOTOR,	PROVIDE POWER TO FAN COIL
FC-15	FAN COIL	RM 143	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2C-6	DIRECT DRIVE	14W CONDENSATE PUMP FROM FAN COIL.
FC-16	FAN COIL	RM 143B	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2D-2	DIRECT DRIVE	
FC-17	FAN COIL	RM 136	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2D-4	DIRECT DRIVE	
-C-18	FAN COIL	RM 139	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2D-6	DIRECT DRIVE	
C-19	FAN COIL	RM 169	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2D-8	DIRECT DRIVE	
C-19	FAN COIL	RM 168	1/2HP	120V/10	21mmC-2#12	25A-11 25A-1P	2D-10	DIRECT DRIVE	
C-21	FAN COIL	RM 169	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2D-12	DIRECT DRIVE	
C-21	FAN COIL	RM 162	1/2HP	120V/10 120V/10	21mmC-2#12	25A-1P	2D-12 2D-14	DIRECT DRIVE	
-C-23	FAN COIL	RM 162	1/2HP	120V/10 120V/10	21mmC-2#12	25A-1P	2D-14 2D-16	DIRECT DRIVE	
C-23	FAN COIL	RM 162	1/2HP	120V/10 120V/10	21mmC-2#12	25A-1P	2D-10 2D-18	DIRECT DRIVE	
C-25	FAN COIL	RM 162	1/2HP	120V/1ø	21mmC-2#12	25A 11 25A-1P	2D-20	DIRECT DRIVE	
-C-26	FAN COIL	RM 160	1/2HP	120V/1¢	21mmC-2#12	25A-11 25A-1P	2D-20 2D-22	DIRECT DRIVE	
	FAN COIL	RM 159	1/2HP	120V/10 120V/10	21mmC-2#12	25A-1P	2D-22 2D-24	DIRECT DRIVE	
FC-27	LON WIL	1.00 LJJ	. (/ 411)		4#14	. 2011 1	4U 4T	DIRECT DRIVE	

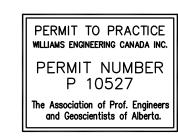
Т		MEC	HANICAL	EQUIPME	INT SCHE	DULE	Γ	1	
EQUIP. TAG	DESCRIPTION	LOCATION	KW (HP)/ FLA	VOLT/PH.	CONDUIT/ WIRE	BREAKER	CCT#	STARTER TYPE	REMARKS
FC-29	FAN COIL	RM 183	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2D-28	ECM MOTOR,	
FC-30	FAN COIL	RM 134	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2D-30	DIRECT DRIVE ECM MOTOR,	
FC-31	FAN COIL	RM 135	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2D-32	DIRECT DRIVE ECM MOTOR,	PROVIDE POWER TO FAN COIL
FC-32	FAN COIL	RM 111	1/2HP	120V/19	21mmC-2#12	25A-1P 25A-1P	20-32 20-34	DIRECT DRIVE ECM MOTOR,	14W CONDENSATE PUMP FROI FAN COIL.
FC-33	FAN COIL	RM 136	1/2HP	120V/1¢	21mmC-2#12	25A-1P	2D-34 2D-36	DIRECT DRIVE ECM MOTOR,	
FC-34	FAN COIL	RM 159	1/2HP	120V/1ø	21mmC-2#12	25A-1P	2D-38	DIRECT DRIVE ECM MOTOR, DIRECT DRIVE	
EF-1	WASHROOM EXHAUST FAN	RM 182	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-14	MAN.	
EF-2	exhaust fan	RM 182	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-16	MAN.	
EF-3	SECURE AREA EXHAUST FAN	RM 182	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-18	MAN.	
EF-4	GARAGE EXHAUST FAN	RM 130	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-18	MAN.	
EF-5	EXHAUST FAN	RM 140	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-20	MAN.	
EF-6	EXHAUST FAN	RM 141	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2C-31	MAN.	Interlocked with lights vi
F-1	RELIEF AIR FAN	RM 139	1/6HP	120V/1ø	21mmC-2#12	15A-1P	2C-22	MAN.	EMCS
			<u> </u>						DOMEDED FDOM OIL 1
ACU-1	AIR CONDITIONING UNIT	ROOM 139	2.8 FLA	208V/3ø	21mmC-3#12	15A-3P	20-32,34,36	PACK. UNIT	POWERED FROM CU-1
CU-1	CONDENSING UNIT	ON ROOF	12.8 FLA	208V/3ø	35mmC-3#10	25A-3P	2C-32,34,36	PACK. UNIT	
HU-1	HUMIDIFIER	ROOM 145	3 FLA	120V/1ø	21mmC-2#12	15A-1P	2C-5	PACK. UNIT	
01-1	OIL INTERCEPTOR	RM 128/RM 149	5 FLA	120V/1ø	21mmC-2#12	15A-1P	2C-35	PACK. UNIT	
EF-7	EXHAUST FAN	RM 150	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	20-33	MAN.	
EF-8	EXHAUST FAN	RM 153	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	2D-5	MAN.	
EF-9	EXHAUST FAN	RM 154	1/6 HP	120V/1ø	21mmC-2#12	15A-1P	20-7	MAN.	
EF-10	CENTRIFUGAL FAN	RM 155	FRAC,	120V/1ø	21mmC-2#12	15A-1P	2C-49	MAN.	LOCAL WALL MOUNTED SWITC
EF-11	CENTRIFUGAL FAN	RM 155	FRAC	120V/1ø	21mmC-2#12	15A-1P	2C-49	MAN.	LOCAL WALL MOUNTED SWITC
EF-12	ROOF EXHAUST	RM 155	FRAC	120V/1ø	21mmC-2#12	15A-1P	2C-51	MAN.	
EF-13	ROOF EXHAUST	ROOM 143B	FRAC	120V/1ø	21mmC-2#12	15A-1P	2C-51	MAN.	
EF-14	WET PROCESSING EXHAUST	ROOM 155	3/4 HP	208V/3ø	21mmC-3#12	15A-3P	2C-26,28,30	VFD	C/W VARIABLE SPEED ADJUSTABLE SWITCH



Notes:

Do not scale drawing

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Issues/Revisions										
No.	Description	Date	В							
A	ISSUED FOR 50% REVIEW	2018.03.16	8							
В	ISSUED FOR 66% REVIEW	2018.05.15	8							

 C
 ISSUED FOR 75% REVIEW
 2018.06.26
 BR

 D
 ISSUED FOR TENDER
 2019.01.09
 BR







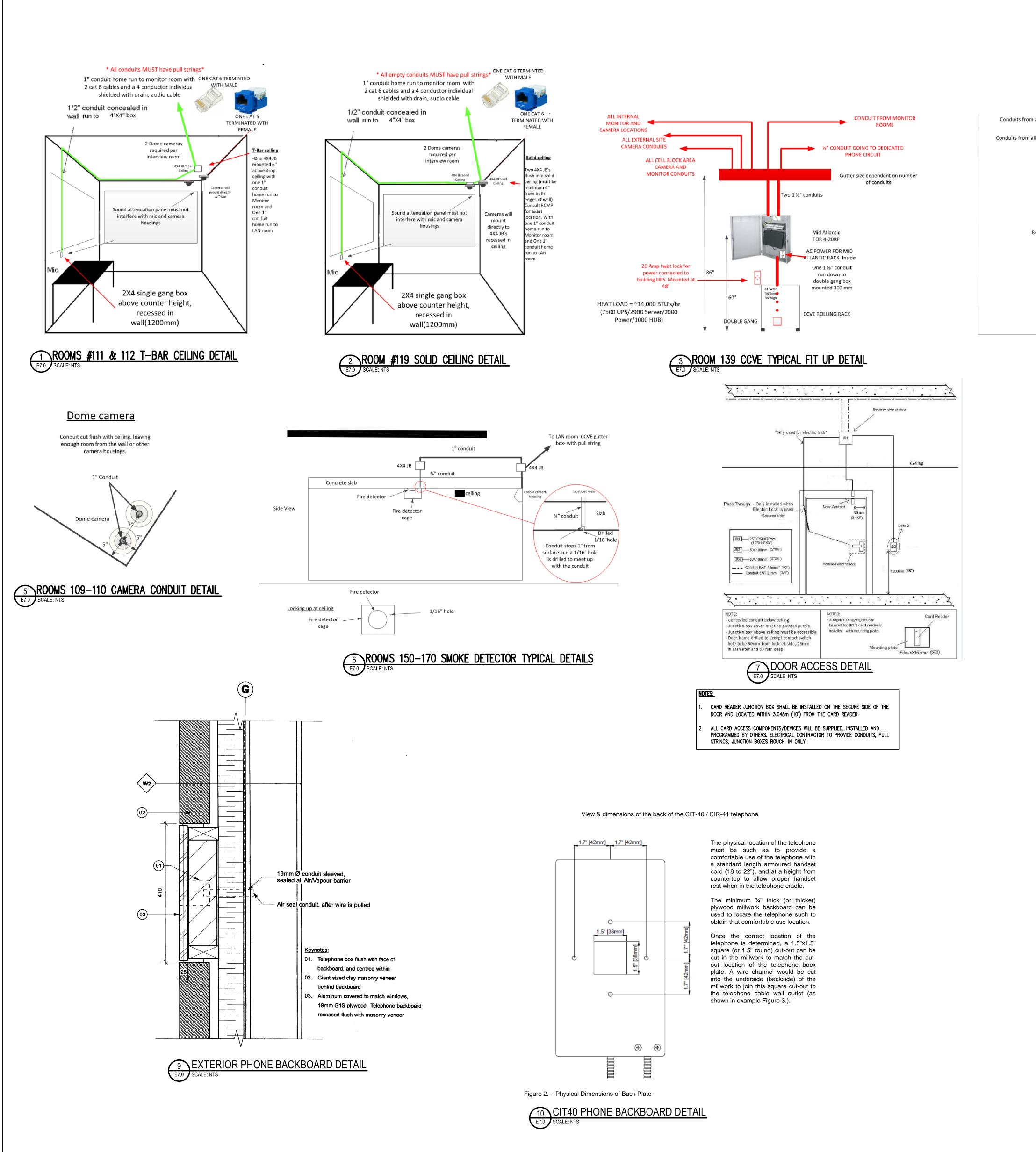
COALDALE PROTECTIVE SERVICES BUILDING

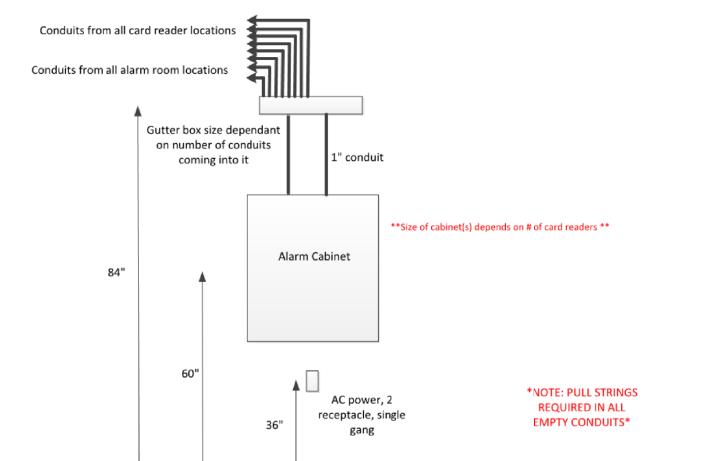
Scale	AS NOTED	Designed By	BR
Project No.	0000	Drawn By	BR
Date	2001 JANUARY 0	0 Checked By	MF

MECHANICAL EQUIPMENT SCHEDULE

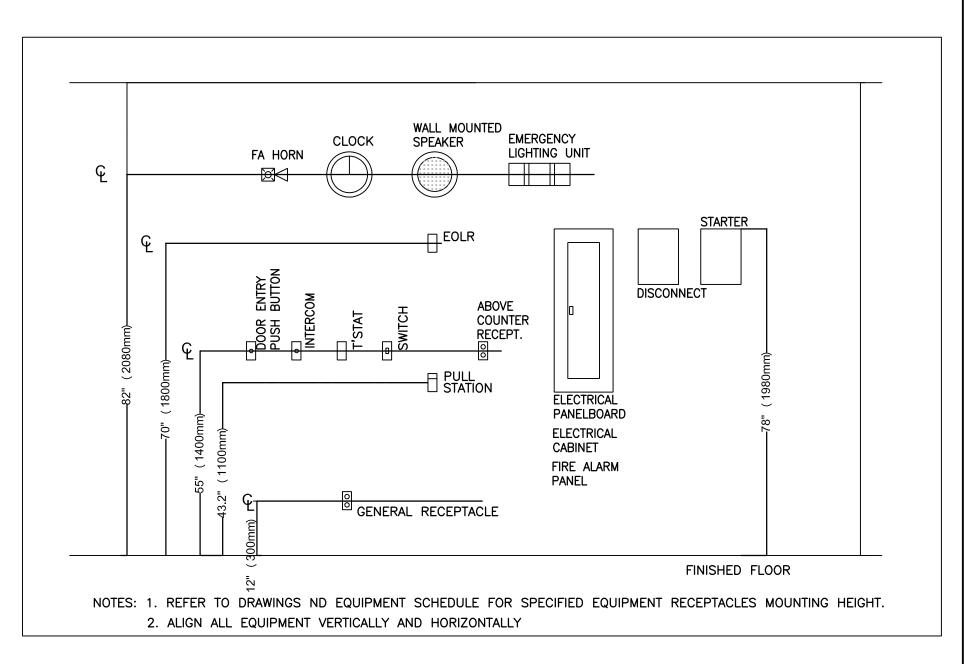
Drawing N

F6.4





ROOM 139 ALARM PANEL TYPICAL FIT UP DETAIL SCALE: NTS



8 TYPICAL MOUNTING HEIGHTS
E7.0 SCALE: NTS

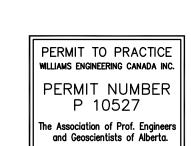


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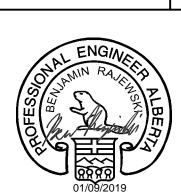
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Issues/Revisions

	ISSUE.	3063/1/67/30/13						
	No.	Description	Date	Ву				
	A	ISSUED FOR 66% REVIEW	2018.05.15	BR				
	В	ISSUED FOR 75% REVIEW	2018.06.26	BR				
	С	ISSUED FOR 99% REVIEW	2018.09.27	BR				
	D	ISSUED FOR TENDER	2019.01.09	BR				
- 1								







COALDALE PROTECTIVE SERVICES BUILDING

	AS NOTED	Beolghed By	DIX	
Project No.	0000	Drawn By	BR	
Date	2001 JANUARY 0) Checked By	MF	
Drawing Title				

ELECTRICAL DETAILS