

NOTES:  
1. MOTOR RATED SWITCH TO ALSO CONTROL ROOM EXHAUST FAN



3	ISSUED FOR TENDER	05/04/2022
2	ISSUED FOR RS4 99% SUBMISSION	10/30/2020
1	ISSUED FOR RS4 66% SUBMISSION	02-28/2020
0	ISSUED FOR RS3 SUBMISSION	08-17/2018

revisions

project

project

SEWAGE TREATMENT UPGRADES  
SPRINGHILL INSTITUTION  
SPRINGHILL, NS

drawing

dessin

ELECTRICAL LIGHTING LAYOUT AND SCHEDULE

designed DB

conçu

date

2018-08-17

drawn DB

dessiné

date

2018-08-17

approved CD

approuvé

date

2018-08-17

Tender

Soumission

PWOSC Project Manager

Administrateur de projets TPSGC

project number

no. du projet

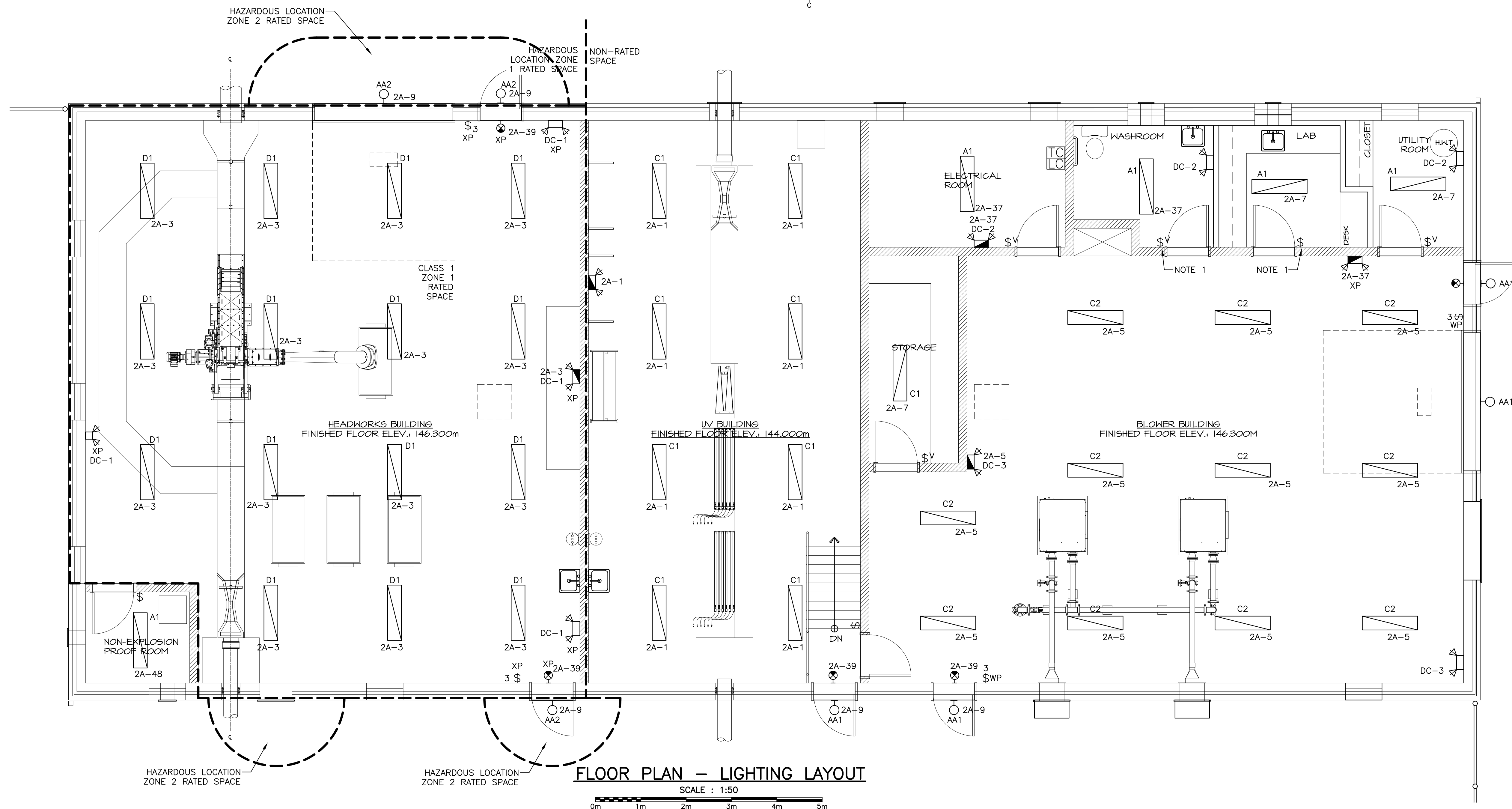
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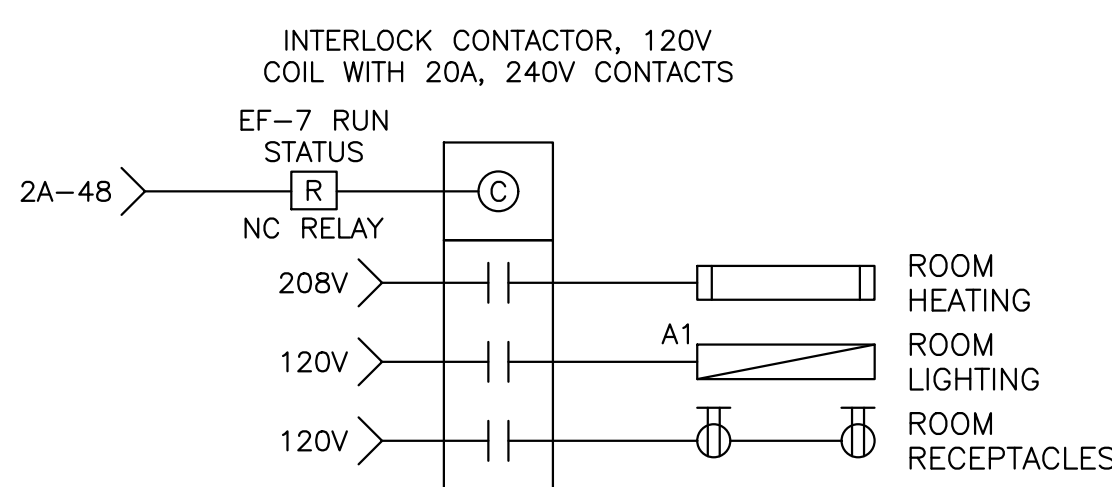
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E-DRM/GDD-E: 552799



FLOOR PLAN - LIGHTING LAYOUT

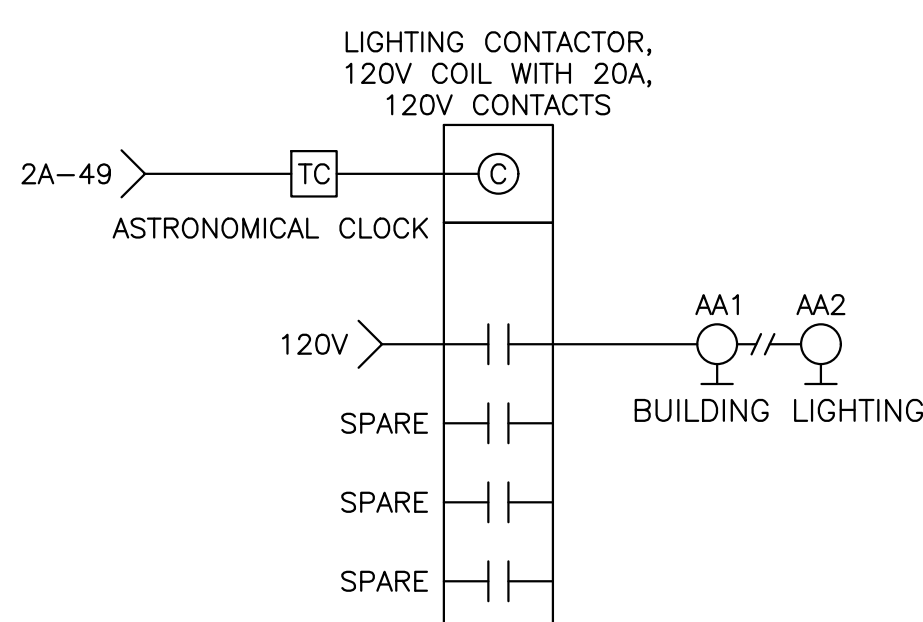
SCALE: 1:50



DETAIL NOTES:  
1. CONTACTOR CONTACTS QUANTITY SHALL BE VALIDATED. DIAGRAM IS DIAGRAMMATIC TO UNDERSTAND OPERATION.  
2. CONTACTOR SHALL INCLUDE A MINIMUM OF 3 SPARE CONTACTS.  
3. HEATING, LIGHTING & RECEPTACLES IN NON-EXPLOSION PROOF ROOM SHALL NOT BE POWERED WHEN EF-7 IS NOT RUNNING.

NON-EXPLOSION PROOF ROOM CONTACTOR DIAGRAM

DETAIL NOTES:  
1. LIGHTING CONTACTOR CONTACTS QUANTITY SHALL BE VALIDATED. DIAGRAM IS DIAGRAMMATIC TO UNDERSTAND OPERATION.  
2. LIGHTING CONTACTOR SHALL INCLUDE A MINIMUM OF 3 SPARE CONTACTS.



LIGHTING CONTROL DIAGRAM

POWER SUPPLY: 347/600V, 36.4w									
PANEL: 6A									
MOUNTING: SURFACE									
LOCATION: ELECTRICAL ROOM									
REMARKS:									
CSA TYPE 1 ENCLOSURE									
DESCRIPTION	WATTAGE	#	WATTAGE	#	WATTAGE	#	WATTAGE	#	WATTAGE
A	B	C	A	B	C	A	B	C	A
HEADWORKS BUILDING HEATER #1	6667	3	6667	3	6667	3	6667	3	6667
HEADWORKS BUILDING HEATER #2	6667	3	6667	3	6667	3	6667	3	6667
UV BUILDING HEATER #1 & #2	6667	3	6667	3	6667	3	6667	3	6667
BLOWER BUILDING HEATER #1 & #2	3333	3	3333	3	3333	3	3333	3	3333
EF-5 HEADWORKS BUILDING	373	3	373	3	373	3	373	3	373
PRESSURE WASHER	1864	3	1864	3	1864	3	1864	3	1864
PHASE LOADS:	25571	25571	25571						
TOTAL LOAD:	227013								
TOTAL PHASE LOADS	75671	75671	75671						
CURRENT (A) @ 600V:	219								

(\*) - PROVIDE LOCK-ON DEVICE  
ST - PROVIDE SHUNT TRIP BREAKER  
(120V TRIP COIL)

POWER SUPPLY: 120/208V, 36.4w									
PANEL: 2A									
MOUNTING: SURFACE									
LOCATION: ELECTRICAL ROOM									
REMARKS:									
CSA TYPE 1 ENCLOSURE									
DESCRIPTION	WATTAGE	#	WATTAGE	#	WATTAGE	#	WATTAGE	#	WATTAGE
A	B	C	A	B	C	A	B	C	A
UV BUILDING LIGHTS	304	1	304	1	304	1	304	1	304
HEADWORKS BUILDING LIGHTS	1056	1	1056	1	1056	1	1056	1	1056
BLOWER BUILDING LIGHTS	456	1	456	1	456	1	456	1	456
LAB / UTILITY LIGHTS	193	1	193	1	193	1	193	1	193
HEADWORKS BUILDING RECEPTACLES	175	1	175	1	175	1	175	1	175
HEADWORKS BUILDING RECEPTACLES	160	1	160	1	160	1	160	1	160
HEADWORKS BUILDING RECEPTACLES	160	1	160	1	160	1	160	1	160
HEADWORKS BUILDING RECEPTACLES	320	1	320	1	320	1	320	1	320
HEADWORKS BUILDING RECEPTACLES	480	1	480	1	480	1	480	1	480
ELECTRICAL WASHROOM RECEPTACLES	320	1	320	1	320	1	320	1	320
LAB / UTILITY RECEPTACLES	320	1	320	1	320	1	320	1	320
LAB RECEPTACLES	120	1	120	1	120	1	120	1	120
LAB RECEPTACLES	120	1	120	1	120	1	120	1	120
LAB RECEPTACLES	120	1	120	1	120	1	120	1	120
HEADWORKS OHN DOOR OPERATOR	300	1	300	1	300	1	300	1	300
BLOWER BLDG OHN DOOR OPERATOR	300	1	300	1	300	1	300	1	300
WASH RM/ELECTRICAL RM LIGHTS/FAN	200	1	200	1	200	1	200	1	200
EXIT SIGNS	200	1	200	1	200	1	200	1	200
DW CRP PUMP	100	1	100	1	100	1	100	1	100
TRIP/SIGNAL PRIMER	100	1	100	1	100	1	100	1	100
NON-EXP. PROOF RM HEADWORKS RECP.	240	1	240	1	240	1	240	1	240
FIRE ALARM CONTROL PANEL	151	1	151	1	151	1	151	1	151
EXTERIOR LIGHTING CONTACTOR	151	1	151	1	151	1	151	1	151
PHASE LOADS:	1767	2731	2056						
TOTAL LOAD:	20833								
TOTAL PHASE LOADS	6388	8389	6056						
CURRENT (A) @ 208V:	58								

(\*) - PROVIDE LOCK-ON DEVICE  
ST - PROVIDE SHUNT TRIP BREAKER

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMP	VOLTAGE
A1	~220mmX1220mm, PATTERN #12 PRIMATIC ACRYLIC LENS, COLD ROLLED STEEL WHITE HOUSING, 0-10V DIMMING DRIVER, SURFACE MOUNTED	LED ~37W, ~4000 LUMENS, 4000K, >80 CRI	120V
C1	~1220mm LONG, PRIMATIC ACRYLIC LENS, FIBERGLASS HOUSING, 0-10V DIMMING DRIVER, CHAIN HUNG 3.0m A.F.F.	LED ~38W, ~4300 LUMENS, 4000K, >80 CRI	120V
C2	~1220mm LONG, PRIMATIC ACRYLIC LENS, FIBERGLASS HOUSING, VAPOR TIGHT, 0-10V DIMMING DRIVER, CHAIN HUNG 3.0m A.F.F.	LED ~38W, ~4300 LUMENS, 4000K, >80 CRI	120V
D1	~1220mm LONG, HAZARDOUS LOCATION ZONE 1 RATED LED LUMINAIRE, ALUMINIUM HOUSING, GLASS LENS, L70 AT 100 000 LIFE AT 40°C, SURFACE MOUNTED.	LED ~66W, ~6700 LUMENS, 4000K, >70 CRI	120V
AA1	DIE CAST ALUMINIUM WALL MOUNTED LED LUMINAIRE, POWDERCOATED BLACK FINISH, TYPE 3 DISTRIBUTION, CONTROLLED BY REMOTE MOUNTED OCCUPANCY SENSOR	LED ~25W, ~3000 LUMENS, 4000K, >80 CRI	120V
AA2	9.6" x 8.3" LED LUMINAIRE, HAZARDOUS LOCATION ZONE 1, GROUP IIA, ALUMINIUM CORROSION RESISTANT CASTING HOUSING, -40°C TO 65°C, IP65, DIFFUSE GLASS LENS C/W 90° WALL MOUNT BRACKET	LED ~21W, ~3269 LUMENS, 4000K, >80 CRI	120V
XP	EXIT LIGHT NEMA 4X RATED, WET LOCATION, POLYCARBONATE, PICTOGRAM EXIT SIGN, UNIVERSAL MOUNTING, COLD WEATHER RATED, 120V INPUT, 12VDC OUTPUT, BATTERY CAPABLE OF 30MIN	LED 6W	120V
XP	EXIT LIGHT HAZARDOUS LOCATION ZONE 1 RATED, DIE-CAST ALUMINIUM FIXTURE HOUSING, 14 GAUGE STEEL PICTORAL HOUSING, GREY EPOXY POWDERCOAT, 120V INPUT, 12VDC OUTPUT, BATTERY CAPABLE OF 30MIN	LED 6W	120V
XP	EMERGENCY LIGHT, WEATHER PROOF, 2 HEAD WALL MOUNTED, COLD WEATHER RATED, 120V INPUT, 12VDC OUTPUT, BATTERY CAPABLE OF 30MIN.	LED 6W	120V
XP	EMERGENCY LIGHT, HAZARDOUS LOCATION ZONE 1 RATED, WEATHER PROOF, 2 HEAD WALL MOUNTED, COLD WEATHER RATED, 120V INPUT, 12VDC OUTPUT, BATTERY CAPABLE OF 30MIN.	LED 6W	120V
XP	EMERGENCY LIGHT REMOTE DUAL HEAD, WEATHERPROOF, LED, WALL MOUNTED 12VDC,	LED 6W	12VDC
XP	EMERGENCY LIGHT REMOTE DUAL HEAD, HAZARDOUS LOCATION, ZONE 1 RATED, WEATHERPROOF, LED, WALL MOUNTED 12VDC,	LED 6W	12VDC

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