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Travaux publics et
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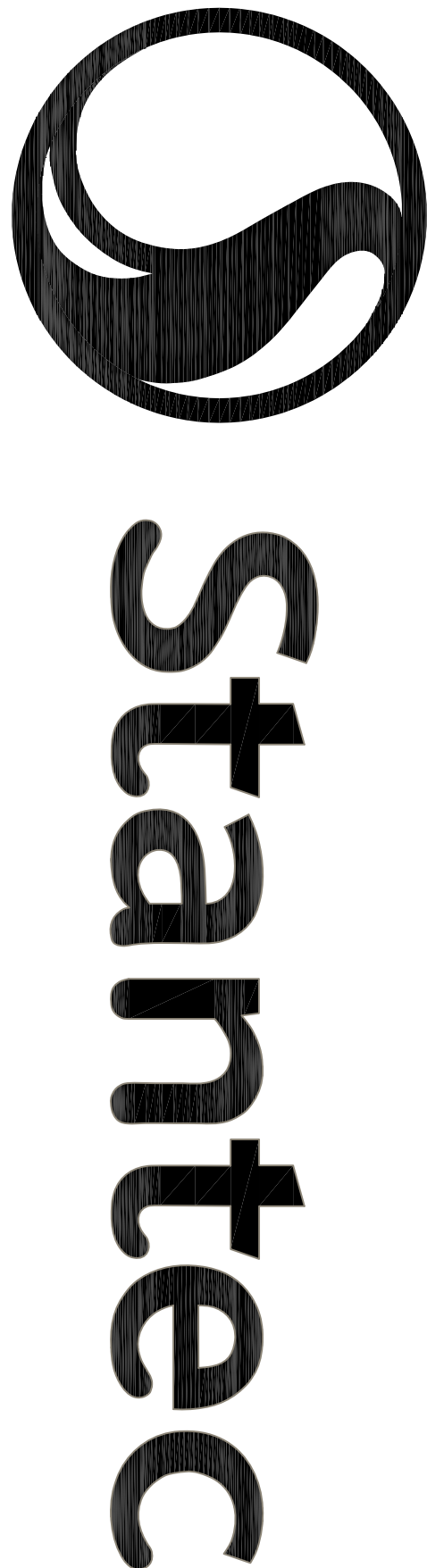
Western Region

Region de l'ouest

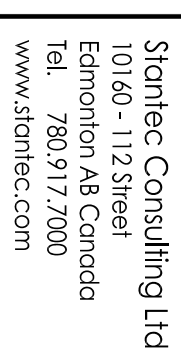
Northern Forestry Centre

Natural Resources Canada

FIRE ALARM SYSTEM AND EMERGENCY LIGHTING UPGRADE



Stantec Consulting Ltd.
10160 - 112 Street
Edmonton AB Canada
Tel. 780.917.7000
www.stantec.com



Rev. No.	Description	Date
1	ISSUED FOR 50% CLIENT REVIEW	MAY 3, 201
2	ISSUED FOR 95% CLIENT REVIEW	JUN 27, 20
3	ISSUED FOR 100% CLIENT REVIEW	SEP 22, 20
4	ISSUED FOR 100% CLIENT REVIEW	JUN 12, 20

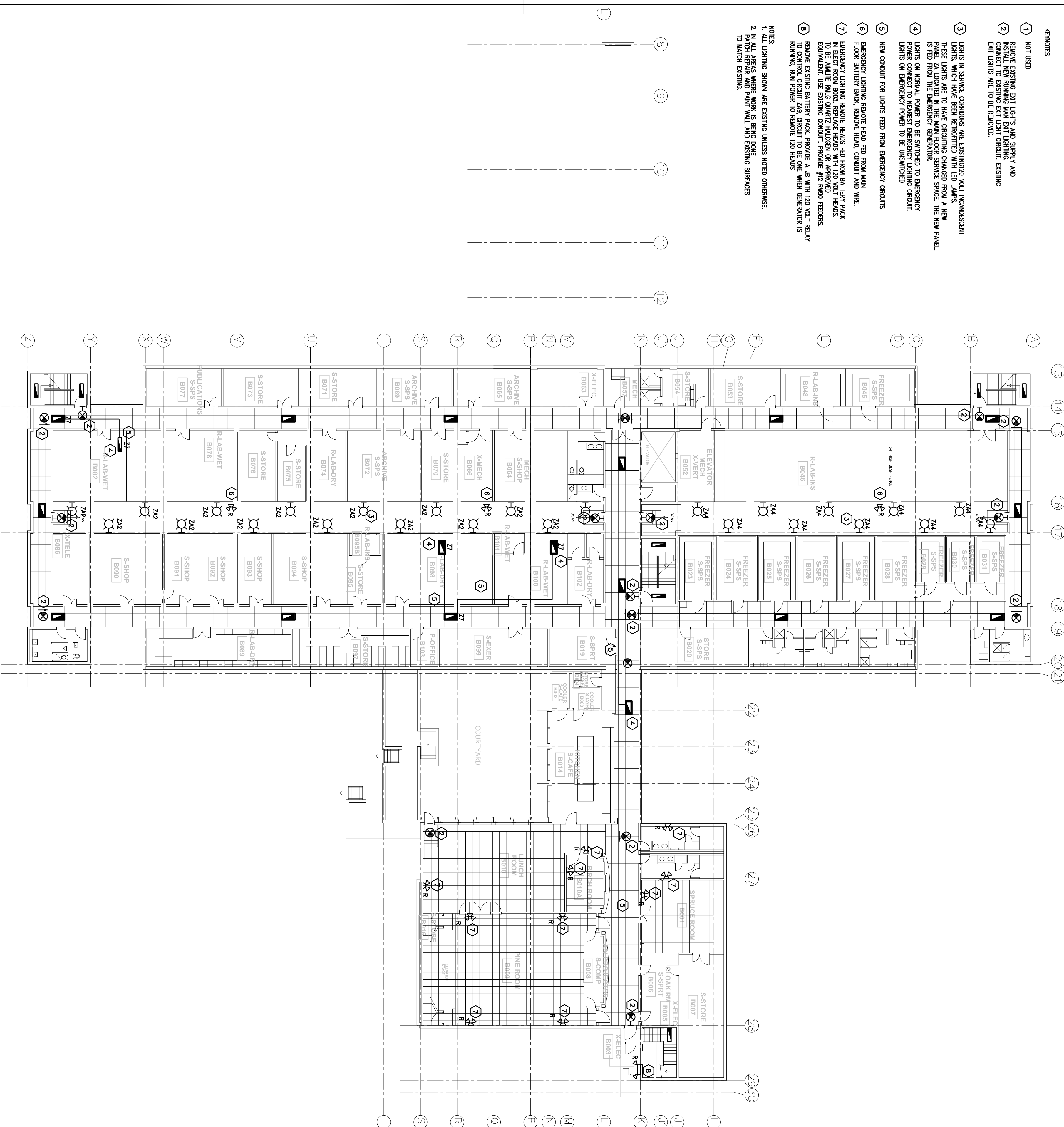
THIS DRAWING DEPICTS CONDUIT CONFIGURATION AND ROUTING BASED ON A PREVIOUS RECORD DRAWINGS AND IS SHOWN FOR INFORMATION PURPOSES ONLY. CONTRACTOR TO VERIFY AND PROVIDE ALL CONDUIT AND WIRING TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

<p>project title titre du projet</p> <p>Edmonton Deferred Maintenance Program for Natural Resources of Canada (NRCan) Northern Forestry Centre</p>
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FIRE ALARM REPLACEMENT AND
EMERGENCY LIGHTING UPGRADE

BASEMENT FLOOR PLAN
LIGHTING

designed by	
come par	
drawn by	JC
designe par	
redacted by	AA
examinate par	
approved by	JK
project date	2017-05-03
project no.	
no. du projet	
	R. 077101














- ① NOT USED
REMOVE EXISTING EMT LIGHTS AND SUPPLY AND
INSTALL NEW RUNNING MAIN EMT LIGHTING.
EXIST LIGHTS ARE TO BE REMOVED.
- ②
LIGHTS IN SERVICE CLOSET ARE CONTINUED. VOLT UNDISCONNECT
LIGHTS WHICH HAVE BEEN REWIRING WITH LED LIGHTS.
THESE LIGHTS ARE TO HAVE CONTINUOUS CHANGED FROM A NEW
PANEL. 24 LOCATED IN THE MAIN FLOOR SERVICE SPACE. THE NEW PANEL
IS FED FROM THE EMERGENCY GENERATOR.
LIGHTS ON NORMAL POWER TO BE SWITCHED TO EMERGENCY
POWER CONNECT TO NEAREST EMERGENCY LIGHTING CIRCUIT.
LIGHTS ON EMERGENCY POWER TO BE UNSWITCHED
- ③
NEW CIRCUIT FOR LIGHTS FEED FROM EMERGENCY CIRCUITS
- ④
EMERGENCY LIGHTING REMOVE HEAD FEED FROM MAIN
FLOOR BATTERY BACK, REMOVE HEAD, CIRCUIT AND WIRE.
- ⑤
EMERGENCY LIGHTING REMOVE HEADS FEED FROM BATTERY BACK
IN ELEC ROOM BOX. REPLACE HEADS WITH 120 VOLT HEADS.
TO BE ALUMITE RAUC QUARTY HAZARD OR APPROVED
EQUIVALENT. USE EXISTING CIRCUIT. PROVIDE 32 RIMMO FEEDERS.
REMOVE EXISTING BATTERY BACK, PROVIDE A BR WITH 120 VOLT RELAY
CIRCUIT TO CONTROL CIRCUIT 746 CIRCUIT TO BE A NEW WHEN GENERATOR IS
RUNNING, NOW POWER TO REMOVE 120 LIGHTS
- ⑥
NOTES:
1. ALL LIGHTING SHOWN ARE EXISTING UNLESS NOTED OTHERWISE.
2. PROVIDE 120 VOLT CIRCUIT TO BE A NEW WHEN GENERATOR IS
3. PROVIDE REPAIR AND PAINTING WALL AND EXISTING SURFACES
TO MATCH EXISTING.

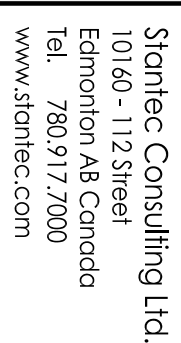
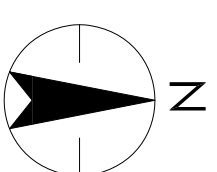
NOTES:
1. ALL LIGHTING SHOWN ARE EXISTING UNLESS NOTED OTHERWISE
2. IN ALL AREAS WHERE WORK IS BEING DONE
PATCH REPAIR AND PAINT WALL AND EXISTING SURFACES
TO MATCH EXISTING.

1 BASEMENT FLOOR PLAN - LIGHTING

FIRE ALARM SYMBOLS	
ED	FIRE ALARM MANUAL STATION
EB	FIRE ALARM BELL
EC	FIRE ALARM BELL c/w STROBE
ED	CEILING MOUNTED FIRE ALARM HORN SPEAKER
ED	WALL MOUNTED FIRE ALARM HORN SPEAKER
ED	CEILING MOUNTED FIRE ALARM HORN SPEAKER c/w STROBE
ED	WALL MOUNTED FIRE ALARM HORN SPEAKER c/w STROBE
ED	CEILING REMOTE EVACUATION STROBE
ED	WALL MOUNTED REMOTE EVACUATION STROBE
ED	CEILING MOUNTED FIRE ALARM SPEAKER
ED	WALL MOUNTED FIRE ALARM SPEAKER
ED	CEILING MOUNTED FIRE ALARM SPEAKER c/w STROBE
ED	WALL MOUNTED FIRE ALARM SPEAKER c/w STROBE
ED	FIRE ALARM PIEZO SOUNDER
ED	FIRE ALARM PIEZO SOUNDER c/w STROBE
ED	FIRE ALARM ELECTRONIC HORN/SOUNDER
ED	FIRE ALARM ELECTRONIC HORN/SOUNDER c/w STROBE
ED	CARBON MONOXIDE ALARM
ED	FIRE ALARM HEAT DETECTOR (RATE OF RISE UNLESS OTHERWISE INDICATED)
ED	FIRE ALARM SMOKE DETECTOR
ED	FIRE ALARM SMOKE DETECTOR, DUCT MOUNTED
ED	FIRE ALARM SMOKE DETECTOR, DUCT MOUNTED JUNCTION BOX
ED	FIRE ALARM ANNUNCIATOR PANEL
ED	FIRE ALARM CONTROL PANEL
ED	CENTRAL ALARM & CONTROL FACILITY
ED	EMERGENCY TELEPHONE
ED	FIRE ALARM MAGNETIC DOOR HOLD OPEN DEVICE
ED	FIRE ALARM CONNECTION TO PRESSURE SWITCH
ED	FIRE ALARM CONNECTION TO FLOW SWITCH
ED	FIRE ALARM CONNECTION TO TAMPER SWITCH
ED	FIRE ALARM CONNECTION TO LEVEL SWITCH
ED	END OF LINE RESISTOR
ED	FIRE ALARM CONTROL MODULE
ED	FIRE ALARM MONITOR MODULE
ED	FIRE ALARM FAULT ISOLATION MODULE
ED	FIRE ALARM RELAY
ED	NEW DEVICE
ED	DEVICE TO BE RELOCATED
ED	DEVICE TO BE REMOVED

LIGHTING PLAN SYMBOLS

LIGHTING PLAN SYMBOLS	
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 306x1220mm
	SURFACE MOUNTED OR SUSPENDED FLUORESCENT LUMINAIRE, 610x1220mm
	RECESSED FLUORESCENT LUMINAIRE, 306x1220mm
	RECESSED FLUORESCENT LUMINAIRE, 610x1220mm
	FLUORESCENT STRIP LUMINAIRE, 1220mm
	LUMINAIRE ON EMERGENCY CIRCUIT (INDICATED BY HALF SHADING)
	CEILING MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATE)
	WALL MOUNTED EXIT SIGN (TEXT ON SHADED SIDES, ARROWS AS INDICATED)
	EMERG. LITG. BATTERY BACK (MOUNTING AS SHOWN) (if of LAMPS AS SHOWN)
	CEILING MOUNTED EMERG. LITG. REMOTE HEAD (if of LAMPS AS SHOWN)
	WALL MOUNTED EMERG. LITG. REMOTE HEAD (if of LAMPS AS SHOWN)



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4	ISSUED FOR 100% CLIENT REVIEW	JUN 12, 2018

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<p>Project title titre du projet</p> <p>Edmonton Alberta</p> <p>Deferred Maintenance Program for Natural Resources of Canada (NRCan)</p> <p>Northern Forestry Centre</p> <p>FIRE ALARM REPLACEMENT AND EMERGENCY LIGHTING UPGRADE</p>

MAIN FLOOR PLAN LIGHTING

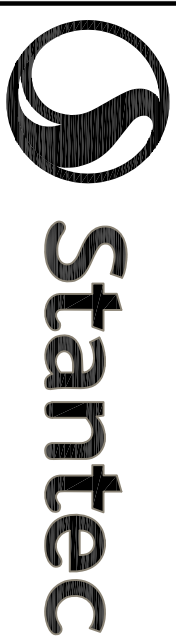
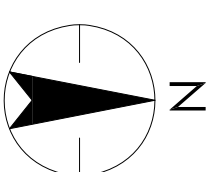
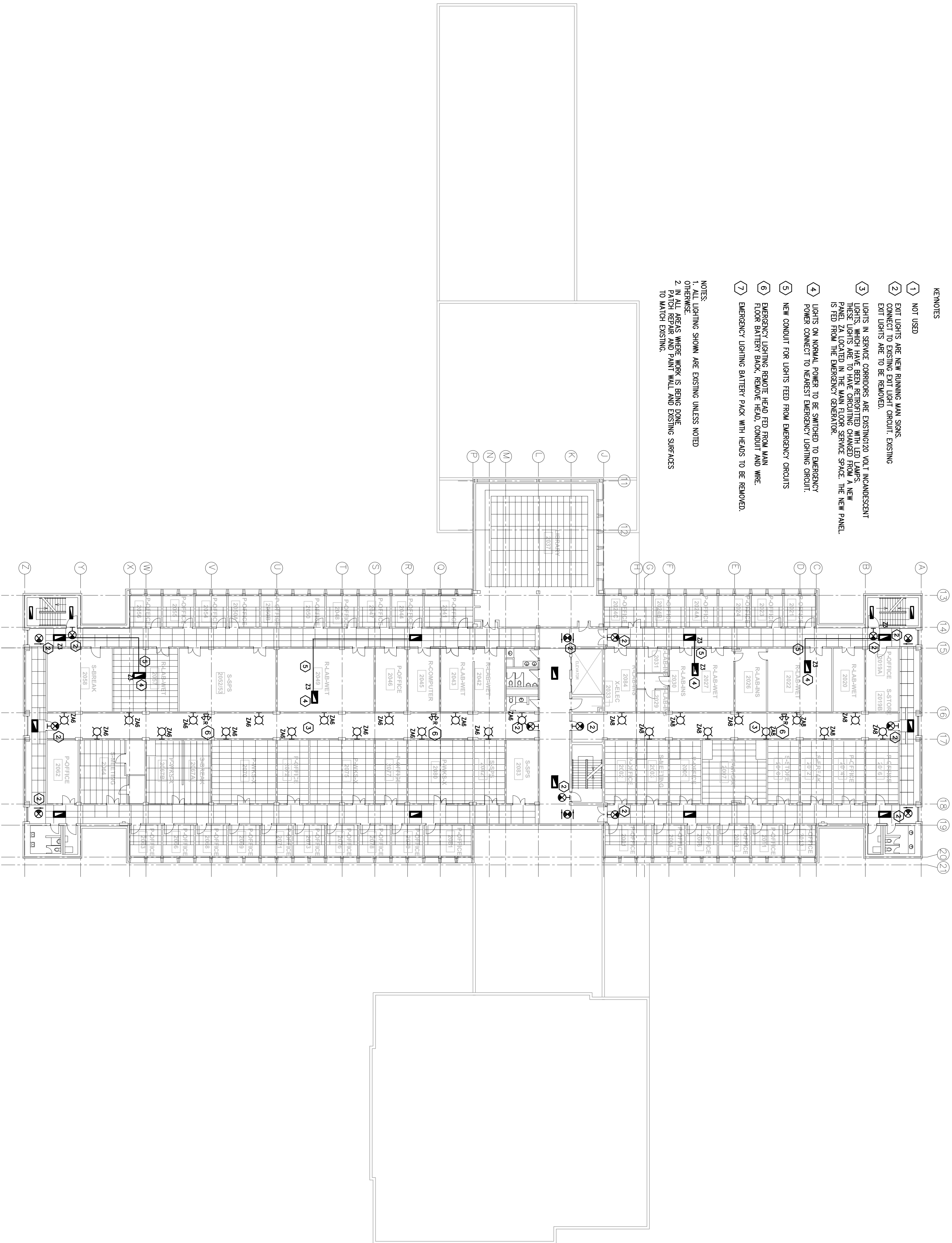
drawing no.	
baseline no.	R. 07701
project no.	
no. of project	
project date	2017_05_03
approved by	
approve pdf	JK
revised by	
economy pdf	AA
drawn by	JC
deadline for	
economic pdf	

1	MAIN FLOOR FLOOR PLAN - LIGHTING
E102	1 : 200

- ① NOT USED
- ② EXT LIGHTS ARE NEW RUNNING MAIN SIGNS. CONNECT TO EXISTING EXIT LIGHT CIRCUIT. EXISTING EXT LIGHTS ARE TO BE REMOVED.
- ③ LIGHTS IN SERVICE CORRIDORS ARE EXISTING 20' TO INCANDESCENT LIGHTS. EXISTING CORRIDOR LIGHTS TO BE REMOVED. THESE LIGHTS ARE TO HAVE CIRCUITING CHANGED FROM A PANEL 2A LOCATED IN THE MAIN FLOOR SERVICE SPACE. THE NEW PANEL IS FED FROM THE EMERGENCY GENERATOR.
- ④ LIGHTS ON NORMAL POWER TO BE SWITCHED TO EMERGENCY POWER. CONNECT TO NEAREST EMERGENCY LIGHTING CIRCUIT.
- ⑤ NEW CONDUIT FOR LIGHTS FEED FROM EMERGENCY CIRCUITS
- ⑥ EMERGENCY LIGHTING REMOTE HEAD FEED FROM MAIN FLOOR BATTERY PACK, REMOVE HEAD, CONDUIT AND WIRE.
- ⑦ EMERGENCY LIGHTING BATTERY PACK WITH HEADS TO BE REMOVED.

NOTES:

1. ALL LIGHTING SHOWN ARE EXISTING UNLESS NOTED OTHERWISE.
2. IN ALL AREAS WHERE WORK IS BEING DONE PATCH REPAIR AND PAINT WALL AND EXISTING SURFACES TO MATCH EXISTING.



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4	ISSUED FOR 100% CLIENT REVIEW	JUN 12, 2018

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Project title titre du projet	Alberta Edmonton Deferred Maintenance Program for Natural Resources of Canada (NRCan) Northern Forestry Centre
drawing title titre du dessin	FIRE ALARM REPLACEMENT AND EMERGENCY LIGHTING UPGRADE
SECOND FLOOR PLAN	
LIGHTING	
designed by conçu par	
drawn by dessiné par	JC
checked by examiné par	AA
approved by approuvé par	JK
Project date date du projet	2017 05 03
Project no. no. du projet	R. 077101
drawing no. dessin no.	E103

- NOTES:
1. ALL LIGHTING SHOWN ARE EXISTING UNLESS NOTED OTHERWISE
2. IN ALL AREAS WHERE WORK IS BEING DONE
PATCH REPAIR AND PAINT WALL AND EXISTING SURFACES
TO MATCH EXISTING.

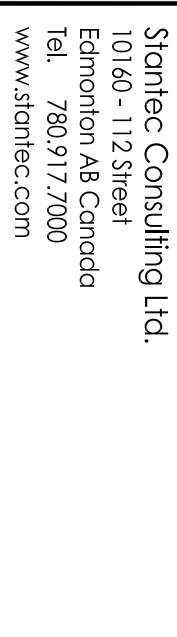
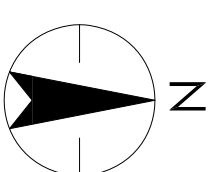
NOTES:

1. ALL LIGHTING SHOWN ARE EXISTING UNLESS NOTED OTHERWISE

PATCH REPAIR AND PAINT WALL AND EXISTING SURFACES TO MATCH EXISTING.

TO MATCH EXISTING.

1
E104
1:200



Rev. No.	Description	Date
1	ISSUED FOR 50% CLIENT REVIEW	MAY 3, 2017
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4	ISSUED FOR 100% CLIENT REVIEW	JUN 12, 2018

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project title
titre du projet

Edmonton

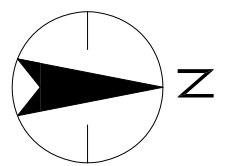
Alberta
Deferred Maintenance Program for
Natural Resources of Canada (NRCan)
Northern Forestry Centre

FIRE ALARM REPLACEMENT AND
EMERGENCY LIGHTING UPGRADE

drawing title titre du dessin	scale échelle	author auteur	date date
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THIRD FLOOR PLAN LIGHTING

designed by	
cont. par	
designed by	JIC
designe par	
elaborated by	AA
esquivelad por	
approved by	JK
aproveado por	
project date	2017 05 03
date du projet	
Project no.	
no. du projet	
	R. 077101
drawing no.	
dessinée no.	

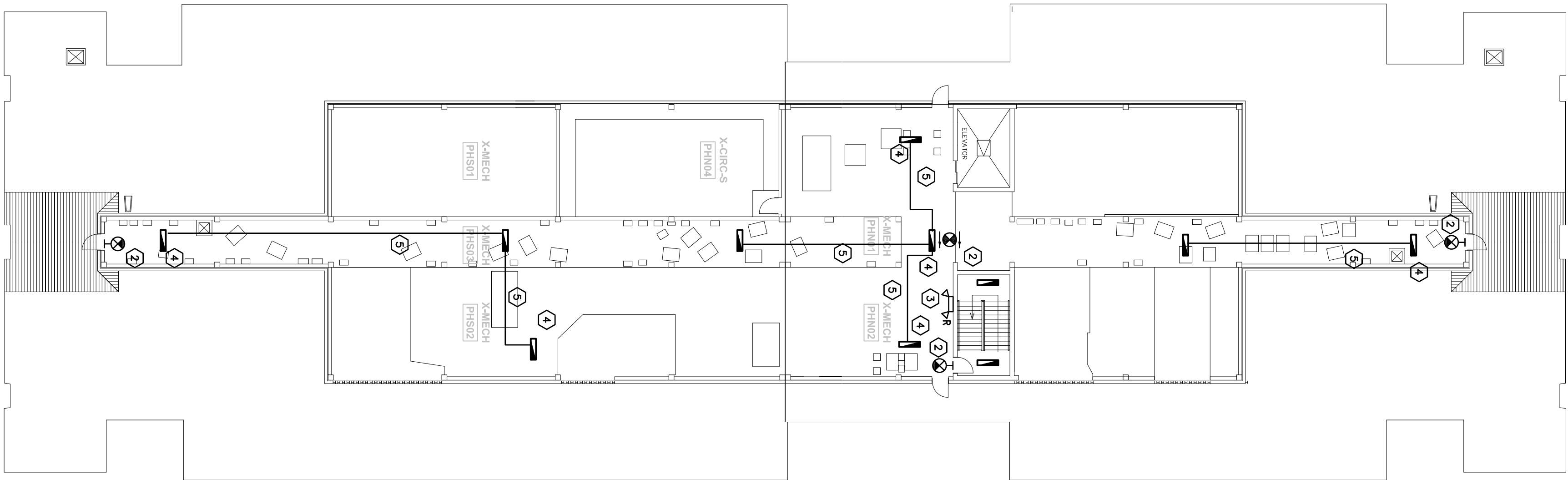


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Tel: 780.917.7000
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- KEYNOTES**
- ① NOT USED
 - ② EXIT LIGHTS ARE NEW RUNNING WAY SIGNS. CONNECT TO EXISTING EXIT LIGHT CIRCUIT. EXISTING EXIT LIGHTS ARE TO BE REMOVED.
 - ③ EMERGENCY LIGHT PACK TO BE REMOVED
 - ④ LIGHTS ON NORMAL POWER TO BE SWITCHED TO EMERGENCY POWER. CONNECT TO NEAREST EMERGENCY LIGHTING CIRCUIT.
 - ⑤ NEW CONDUIT FOR LIGHTS FEED FROM EMERGENCY CIRCUITS
- NOTES**
- 1. ALL LIGHTING SHOWN ARE EXISTING, UNLESS NOTED OTHERWISE.
 - 2. IN ALL AREAS WHERE WORK IS BEING DONE PATCH REPAIR AND PAINT WALL AND EXISTING SURFACES TO MATCH EXISTING.

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1	ISSUED FOR 50% CLIENT REVIEW	MAY 3, 2017
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3	ISSUED FOR 100% CLIENT REVIEW	SEP 22, 2017
4	ISSUED FOR 100% CLIENT REVIEW	JUN 12, 2018



1 PENTHOUSE FLOOR PLAN - LIGHTING
E105 1:200

Project title Project da projekt Edmonton Alberta Deferred Maintenance Program for Natural Resources of Canada (NRCan) Northern Forestry Centre	Project title titre du projet PENTHOUSE FLOOR PLAN LIGHTING
designed by conçu par JC	designed by conçu par JC
drawn by dessiné par AA	drawn by dessiné par AA
checked by examiné par JK	checked by examiné par JK
approved by approuvé par 2017 05 03	approved by approuvé par 2017 05 03
project date date du projet R. 077101	project date date du projet R. 077101
drawing no. dessiné no. E105	drawing no. dessiné no. E105

Rev. No.	Description	Date
1	ISSUED FOR 50% CLIENT REVIEW	MAY 3, 2017
2	ISSUED FOR 95% CLIENT REVIEW	JUN 27, 2017
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4	ISSUED FOR 100% CLIENT REVIEW	JUN 12, 2018

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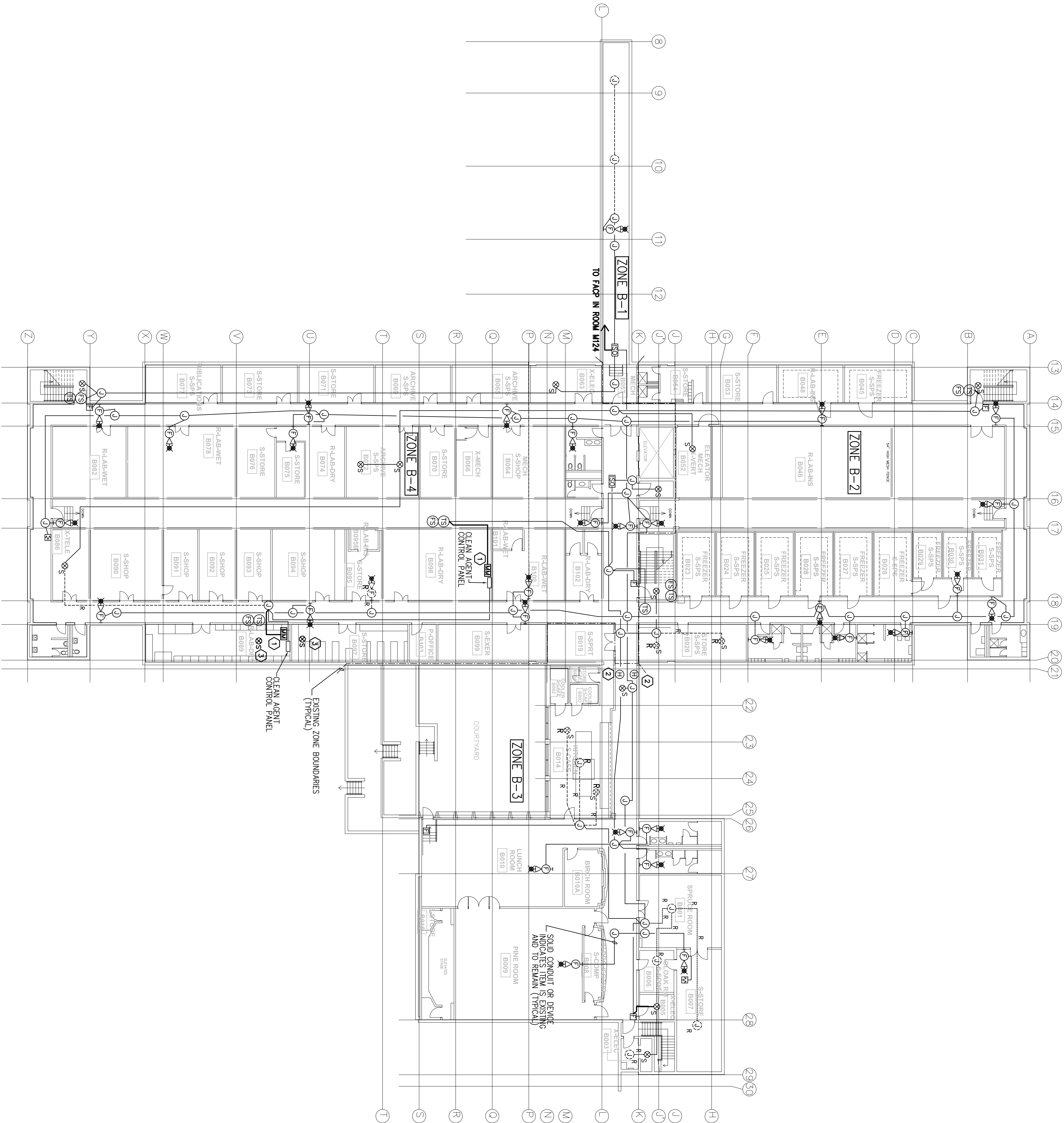
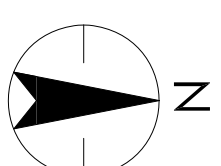
Consultant	
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Project title Fire alarm system	Edmonton Deferred Maintenance Program for Natural Resources of Canada (NRCon) Northern Forestry Centre
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FIRE ALARM REPLACEMENT AND
EMERGENCY LIGHTING UPGRADE

BASEMENT FLOOR PLAN
FIRE ALARM

designed by core par	JC
drawn by designe par	AA
checked by examine par	JK
approved by approved par	JK
project date date du projet	2017 05 03
project no. no. du projet	R. 077101
drawing no. dessins no.	E106



GENERAL NOTES

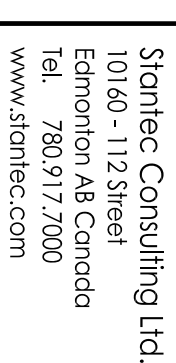
1 DASHED LINES INDICATE CONDUIT TO BE
REMOVED.

KEY NOTES

- 1 PROVIDE NEW MONITOR MODULE AT CLEAN AGENT
PANEL AND CONNECT TO NEW FIRE ALARM PANEL
FOR MONITORING OF:
.1 ALARM CONDITION
.2 SUPERVISORY CONDITION
.3 TROUBLE CONDITION
- 2 CONNECT EXISTING DOOR HOLD OPEN DEVICES TO
NEW FIRE ALARM PANEL.
- 3 SMOKE DETECTORS ASSOCIATED WITH THE CLEAN
AGENT ARE TO REMAIN WITH NO MODIFICATIONS.

1 BASEMENT FLOOR PLAN - FIRE ALARM

E106 1:200



Rev. No.	Description	Date
1	ISSUED FOR 50% CLIENT REVIEW	MAY 3, 2017
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1001

**Project title
titre du projet**

Edmonton **Alberta**

Natural Maintenance Program for
Natural Resources of Canada (NRCan)
Northern Forestry Centre

**FIRE ALARM REPLACEMENT AND
EMERGENCY LIGHTING UPGRADE**

MAIN FLOOR PLAN
FIRE ALARM

drawn by	approved by
estimate par	estimate par
JC	
reviewed by	approved by
estimating par	approvative par
AA	JK
	project date
	date du projet
	2017 05 03
	project no.
	no. du projet
	R. 077101
drawing no.	
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GENERAL NOTES

1 DASHED LINES INDICATE CONDUIT TO BE REMOVED.

KEY NOTES

1. PROVIDE NEW MONITOR MODULE AT CLEAN AGENT PANEL AND CONNECT TO NEW FIRE ALARM PANEL FOR MONITORING OF:
 1. ALARM CONDITION
 2. SUPERVISORY CONDITION
 3. TROUBLE CONDITION

- ② CONNECT EXISTING DOOR HOLD OPEN DEVICES TO NEW FIRE ALARM PANEL.
- ③ EXISTING FIRE ALARM PANEL, TO BE REMOVED AND NEW PANEL, TO BE INSTALLED AT THE START OF THE PROJECT. CONNECT EXISTING FIRE ALARM ZONES TO NEW PANEL. VERIFY THE SYSTEM, DURING CONSTRUCTION WORK ON ONE ZONE AT A TIME AND VERIFY SYSTEM WHEN EACH ZONE IS COMPLETED TO MINIMIZE TIME WHEN A FIRE WATCH IS REQUIRED. COORDINATE WITH OWNER FOR TIME WHEN A FIRE WATCH IS REQUIRED.
- ④ EXISTING REMOTE ANNUNCIATOR AND PASSIVE GRAPHIC TO BE REMOVED AND REPLACED WITH NEW REMOTE ANNUNCIATOR AND PASSIVE GRAPHIC.

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Project title	Edmonton Deferred Maintenance Program for Natural Resources of Canada (NRCon)
Client	Alberta Natural Resources Centre
Consultant	

Project title	Edmonton Deferred Maintenance Program for Natural Resources of Canada (NRCon)
Client	Alberta Natural Resources Centre
Consultant	

Project title
Edmonton
Deferred Maintenance Program for
Natural Resources of Canada (NRCon)

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Natural Resources of Canada (NRCon)

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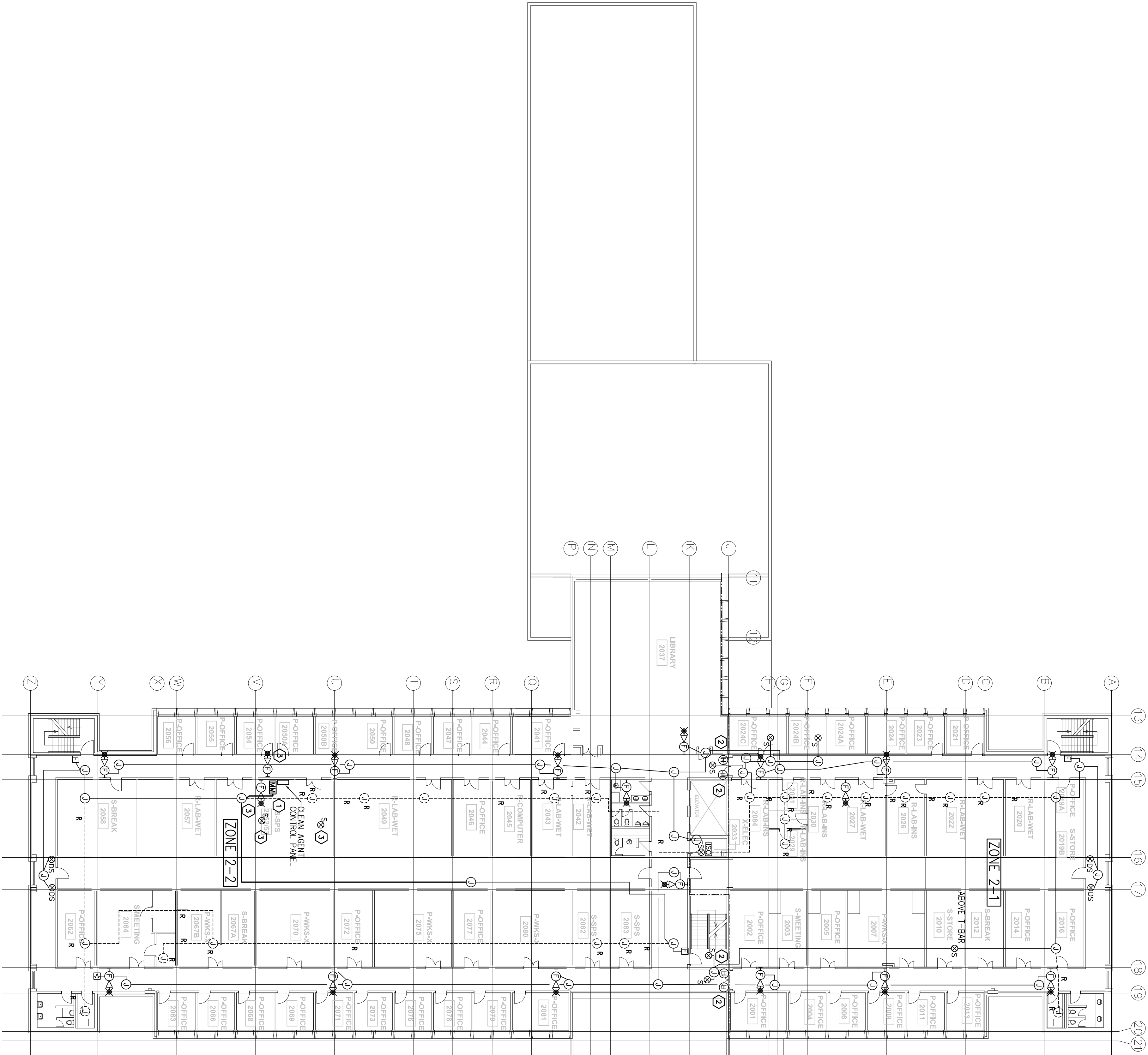
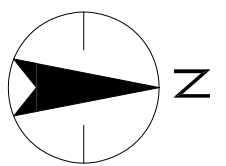
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1 SECOND FLOOR PLAN - FIRE ALARM
E108 1:200

GENERAL NOTES
1 DASHED LINES INDICATE CONDUIT TO BE REMOVED.

- KEY NOTES**
- 1 PROVIDE NEW MONITOR MODULE AT CLEAN AGENT PANEL AND CONNECT TO NEW FIRE ALARM PANEL FOR MONITORING OF:
1. ALARM CONDITION
2. SUPERVISORY CONDITION
3. TROUBLE CONDITION
 - 2 CONNECT EXISTING DOOR HOLD OPEN DEVICES TO NEW FIRE ALARM PANEL.
 - 3 HORN/STROBES AND SMOKE DETECTORS ARE ASSOCIATED WITH CLEAN AGENT AND ARE TO REMAIN WITHOUT MODIFICATION.

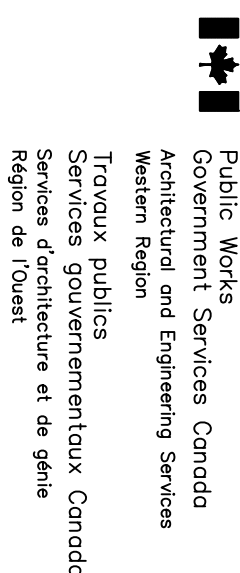
designed by	one par
drawn by	JC
checked by	AA
approved by	JK
project date	2017 05 03
project no.	R. 077101
drawing no.	E108



1 DASHED LINES INDICATE CONDUIT TO BE REMOVED.

KEY NOTES

1. PROVIDE NEW MONITOR MODULE AT CLEAN AGENT PANEL AND CONNECT TO NEW FIRE ALARM PANEL FOR MONITORING OF:
 1. ALARM CONDITION
 2. SUPERVISORY CONDITION
 3. TROUBLE CONDITION
2. CONNECT EXISTING DOOR HOLD OPEN DEVICES TO NEW FIRE ALARM PANEL.



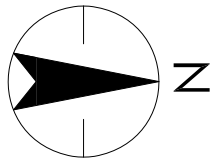
Stantec Consulting Ltd.

10160 - 112 Street
Edmonton AB Canada
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Rev. No.	Description	Date
1	ISSUED FOR 50% CLIENT REVIEW	MAY 3, 2017
2	ISSUED FOR 95% CLIENT REVIEW	JUN 27, 2017
3	ISSUED FOR 100% CLIENT REVIEW	SEP 22, 2017
4	ISSUED FOR 100% CLIENT REVIEW	JUN 12, 2018

THIS DRAWING DEPICTS CONDUIT CONFIGURATION AND ROUTING BASED ON A PREVIOUS RECORD DRAWINGS AND IS SHOWN FOR INFORMATION PURPOSES ONLY. CONTRACTOR TO VERIFY AND PROVIDE ALL CONDUIT AND WIRING TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

Project title titre du projet	Alberta Edmonton Deferred Maintenance Program for Natural Resources of Canada (NRCan) Northern Forestry Centre
drawing title titre du dessin	FIRE ALARM REPLACEMENT AND EMERGENCY LIGHTING UPGRADE
THIRD FLOOR PLAN FIRE ALARM	
designed by dessiné par	UC
drawn by dessiné par	AA
checked by vérifié par	JK
approved by approuvé par	
Project date date du projet	2017 05 03
Project no. no. du projet	R. 077101
drawing no. dessin no.	E109



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Consultant	

Project title Fire alarm project	Project no. R. 077101
Client Edmonton Deferred Maintenance Program for Natural Resources of Canada (NRCan) Northern Forestry Centre	

**Fire alarm replacement and
emergency lighting upgrade**

Penthouse floor plan

designed by conic par	drawn by JC
checked by AA	approved by JK
project date 2017 05 03	project no. R. 077101
drawing no. E110	

