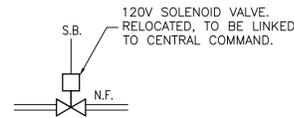
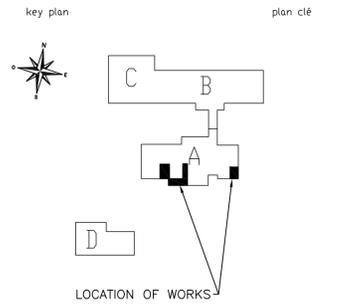


CONTROL DIAGRAMME
HEAT PUMP WITH ELECTRIC BASEBOARD AND ELECTRIC COIL, ROOMS A-545 AND A-545-A
 ÉCH : NONE

SEQUENCE OF OPERATIONS

- SYSTEM OFF:**
- HEAT PUMP IS NOT IN OPERATION.
 - THE ROOM'S THERMOSTAT (TP1) CONTROLS THE BASEBOARD HEATING OF ROOM A-545.
 - ELECTRIC COIL OF ROOM A-545-A IS NOT IN OPERATION.
- SYSTEM ON:**
- CENTRAL COMMAND ALLOWS THE SYSTEM TO FUNCTION ACCORDING TO THE ESTABLISHED SCHEDULE.
 - THE TEMPERATURE SENSOR IN THE RETURN DUCT (TG1) MEASURES THE AVERAGE ROOM TEMPERATURE.
 - THE HEAT PUMP VENTILATOR CONTINUALLY OPERATES AT LOW SPEED (MINIMUM OF FRESH AIR).
 - THE CONTROLLER ADJUSTS THE SENSOR'S SET POINT IN ORDER TO MAINTAIN THE AVERAGE TEMPERATURE OF BOTH THERMOSTATS IN ROOMS (TP1 AND TP2).
 - THE TEMPERATURE SENSOR (TG1) CONTROLS THE HEAT PUMP IN ORDER TO MAINTAIN THE DESIRED SET POINT IN EACH ROOM.
 - THE TEMPERATURE SENSOR (TG2) MONITORS AIR SUPPLY TEMPERATURE AND LIMITS HIGH AND LOW TEMPERATURES IN AIR SUPPLY.
 - THE AIRFLOW SENSOR INDICATES CENTRAL COMMAND'S AIRFLOW (AIRFLOW READING ONLY).
 - THE ROOM'S THERMOSTAT (TP2) CONTROLS THE ELECTRIC DUCT COIL IN ORDER TO MAINTAIN THE SET POINT.
 - THE ROOM'S THERMOSTAT (TP1) OPERATES THE ELECTRIC BASEBOARD.
- REQUESTING AIR-CONDITIONING:**
- THE SENSOR IN DUCT TG1 CONTROLS THE HEAT PUMP IN ORDER TO MAINTAIN DESIRED SET POINT.
 - THE ROOM'S THERMOSTAT CONTROLS THE ELECTRIC DUCT COIL.
 - THE COMPRESSOR TURNS ON.
 - THE ELECTRIC BASEBOARD IN ROOM A-545 STOPS.
- REQUESTING HEAT:**
- THE DUCT TEMPERATURE SENSOR CONTROLS THE HEAT PUMP IN ORDER TO MAINTAIN THE DESIRED SET POINT.
 - IF AFTER AN ADJUSTABLE TIME PERIOD (BETWEEN 5 AND 30 MINUTES) THE SET POINT IS NOT ACHIEVED, CENTRAL COMMAND WILL START THE ELECTRIC BASEBOARD.
 - THE ROOM'S THERMOSTAT (TP2) CONTROLS THE ELECTRIC COIL.
- ALARM:**
- UNINTENDED STOPPING OF THE HEAT PUMP.
 - LOW/HIGH TEMPERATURE OF AIR SUPPLY.
 - LOW TEMPERATURE OF AIR SUPPLY (4°C).
 - HIGH ROOM TEMPERATURE.
- FIRE ALARM:**
- THE HEAT PUMP SHUTS OFF IF THE FIRE ALARM CONTROL PANEL SENDS IT A SIGNAL.



CONTROL DIAGRAMME
FLOOR DRAIN FILLING SYSTEM, ROOM A-545
 ÉCH : NONE

SEQUENCE OF OPERATIONS

- OFF:**
- THE SOLENOID VALVE IS NOT ENERGIZED.
- ON:**
- THE SOLENOID VALVE IS ENERGIZED ACCORDING TO THE CLIENT'S ESTABLISHED SCHEDULE.

Δ	FOR QUOTATION	JD	2019-01-18
Révision	Description	Par/By	Date

A: Numéro du détail Détail no.	A
B: Feuille sur laquelle le détail est référencé Location drawing no.	B C
C: Feuille sur laquelle le détail est dessiné Drawing no.	C

Toute modification doit être rapportée à:
All modification must be reported to:

Biens Immobiliers, Environnement,
 Sécurité et Santé
 104, Dalousie, Québec, Qc G1K 7Y7

Dossier:
File:

MONT-JOLI
MAURICE-LAMONTAGNE BUILDING
RENOVATION GIST/SPC

Dessiné:
Drawing:

MECHANICAL
CONTROLS
DETAILS AND SEQUENCE OF OPERATIONS

Conçu par:
Designed by:

Jessy Devin 2018-05-08

Dessiné par:
Drawn by:

Jessy Devin 2018-05-08

Vérifié par:
Verified by:

Guy Villeneuve, ing. 2018-05-08

Approuvé par:
Approved by:

Guy Villeneuve, ing. 2018-05-08

No. dossier:
File no.

F3677-170169

No. feuille:
Sheet no.

Indicated

FOR QUOTATION
 THESE DOCUMENTS MUST NOT BE USED
 FOR CONSTRUCTION (OR FABRICATION).