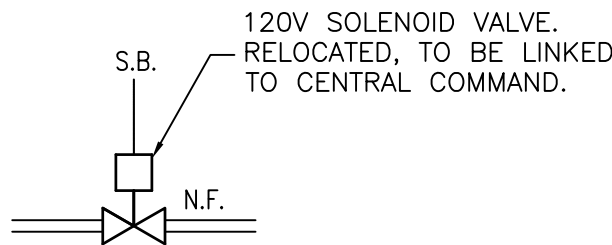


CONTROL DIAGRAMME
HEAT PUMP WITH ELECTRIC BASEBOARD AND ELECTRIC COIL, ROOMS A-545 AND A-545-A
ÉCH : NONE

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.

	FOR QUOTATION	JD	2019-01-18
Révision	Description	Par/By	Date
<div>A C</div>	A: Numéro du détail Dessin no. B: Feuille sur laquelle le détail est référencé Location drawing no. C: Feuille sur laquelle le détail est dessiné Drawing no.	<div>A B C</div>	
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			
Dessin: Drawing: MECHANICAL CONTROLS DETAILS AND SEQUENCE OF OPERATIONS			
Conçu par: Designed by:	Jessy Devin	Date 2018-05-08	
Dessiné par: Drawn by:	Jessy Devin	Date 2018-05-08	
Vérifié par: Verified by:	Guy Villeneuve, ing.	Date 2018-05-08	
Approuvé par: Approved by:	Guy Villeneuve, ing.	Date 2018-05-08	
No. dossier: File no.	F3677-170169	Echelle: Scale	Indicated
No. dessin: Drawing no.		No. feuille: Sheet no.	M24 OF 24

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