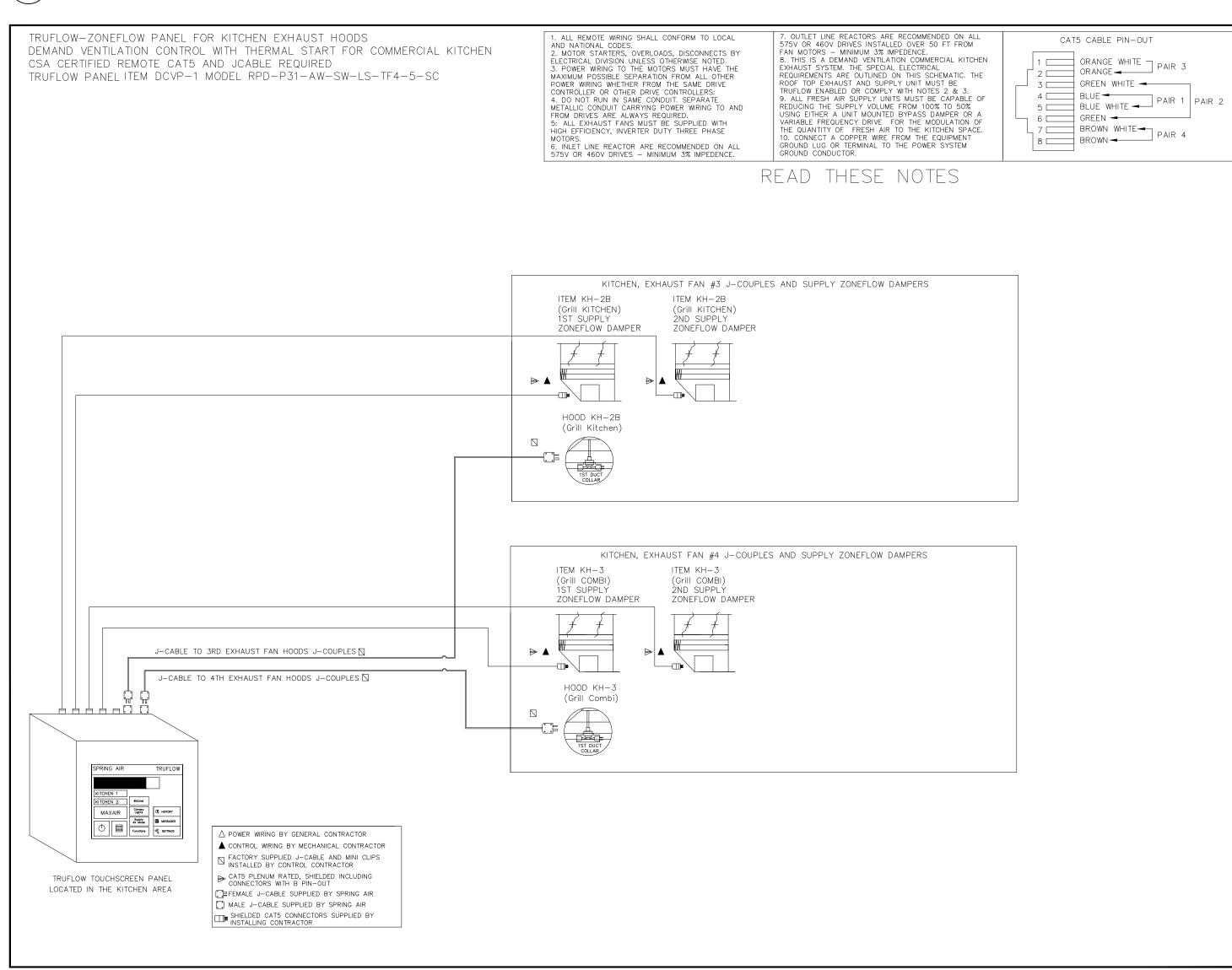


1 KITCHEN HOOD PANEL CONTROL WIRING SCALE: N.T.S.



2 KITCHEN HOOD PANEL CONTROL WIRING SCALE: N.T.S.

KITCHEN HOOD SEQUENCE OF OPERATION (KH-1L, KH-1R, KH-2L, KH-2R, + KH-3):

APPLICATION.

TRUFLOW WILL AUTOMATICALLY REDUCE THE EXHAUST AND SUPPLY AIR INTO THE KITCHEN WHENEVER APPLIANCES ARE NOT USED AT FULL CAPACITY. WHEN THE APPLIANCES ARE NOT USED AND THE HEAT IS TURNED DOWN OR OFF THE TRUFLOW AUTOMATICALLY SENSES THIS REDUCTION AND DECREASES THE AMOUNT OF EXHAUST AND SUPPLY TO MATCH THE COOKING CONDITIONS.

THE TRUFLOW DUCT MOUNTED J-COUPLE MONITORS THE CHANGE IN EXHAUST TEMPERATURE, WHICH FLUCTUATES BASED ON THE NUMBER AND LEVEL OF APPLIANCES OPERATING UNDER THE EXHAUST HOOD. AS THE AMOUNT OF COOKING INCREASES THE EXHAUST DUCT TEMPERATURE CHANGES AND REACHES AN EQUILIBRIUM TEMPERATURE DURING EACH HOUR OF THE DAY. THIS EQUILIBRIUM TEMPERATURE REPRESENTS A PERCENTAGE OF TOTAL COOKING CAPACITY. THE 50% UTILIZATION TEMPERATURE MAY BE 80F. THE 70% UTILIZATION TEMPERATURE MAY BE 105F. THE SENSITIVITY OF EACH J-COUPLE IS SET IN THE SETUP SECTION OF THE TRUFLOW PANEL.

THE J-COUPLE LOCATED IN EACH EXHAUST DUCT COLLAR SENDS A SIGNAL TO THE TRUFLOW PLC INDICATING THE RATE OF CHANGE THE OF EXHAUST AIR TEMPERATURE. AN ALGORITHM WITHIN THE PLC PROGRAM TRANSLATES THIS TEMPERATURE RATE OF CHANGE TO A SPEED REFERENCE OF THE EXHAUST FAN AND THE TRUFLOW SUPPLY DUCT

THE VFD'S ARE CONNECTED TO THE TRUFLOW USING PLENUM RATED, SHIELDED CAT5 CABLES USING CANOPEN. THE VFD'S ARE CONNECTED IN SERIES FROM THE TRUFLOW. THE SUPPLY TRUFLOW DAMPERS ARE ALSO CONNECTED TO THE TRUFLOW PANEL USING PLENUM RATED, SHIELDED CAT5 CABLES. THE SIGNAL TO EACH SUPPLY TRUFLOW IS ADJUSTABLE AND CAN BE TRIMMED ON THE TRUFLOW TOUCHSCREEN TO PROVIDE THE EXACT SUPPLY AIR TO THE MB

MAKEUP AIR PLENUM TO COMPLETELY BALANCE THE KITCHEN.

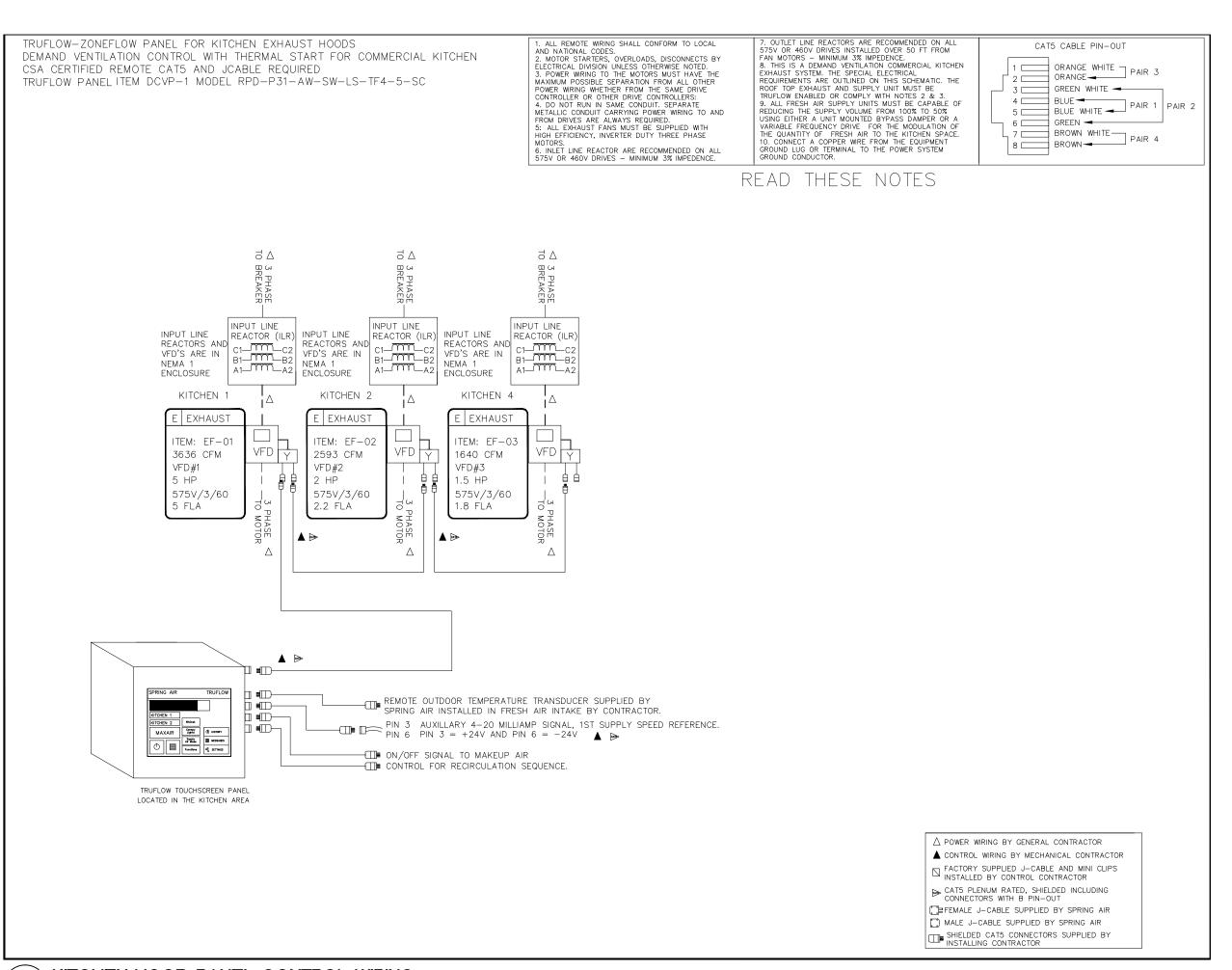
RECIRCULATION MODE: WHEN THE KITCHEN HOODS ARE SWITCHED OFF THE TRUFLOW SYSTEM PROVIDES A SIGNAL TO THE MAKEUP AIR UNIT TO RUN IN RECIRCULATION MODE, MODULATING THE OUTDOOR AIR DAMPER CLOSED AND THE RETURN AIR DAMPER OPEN AND RUNNING THE MAKEUP AIR UNIT AT A LOW SPEED TO MAINTAIN SPACE TEMPERATURE.

UPON ACTIVATION OF THE FIRE SUPPRESSION SYSTEM, THE MAKEUP AIR UNIT IS STOPPED.

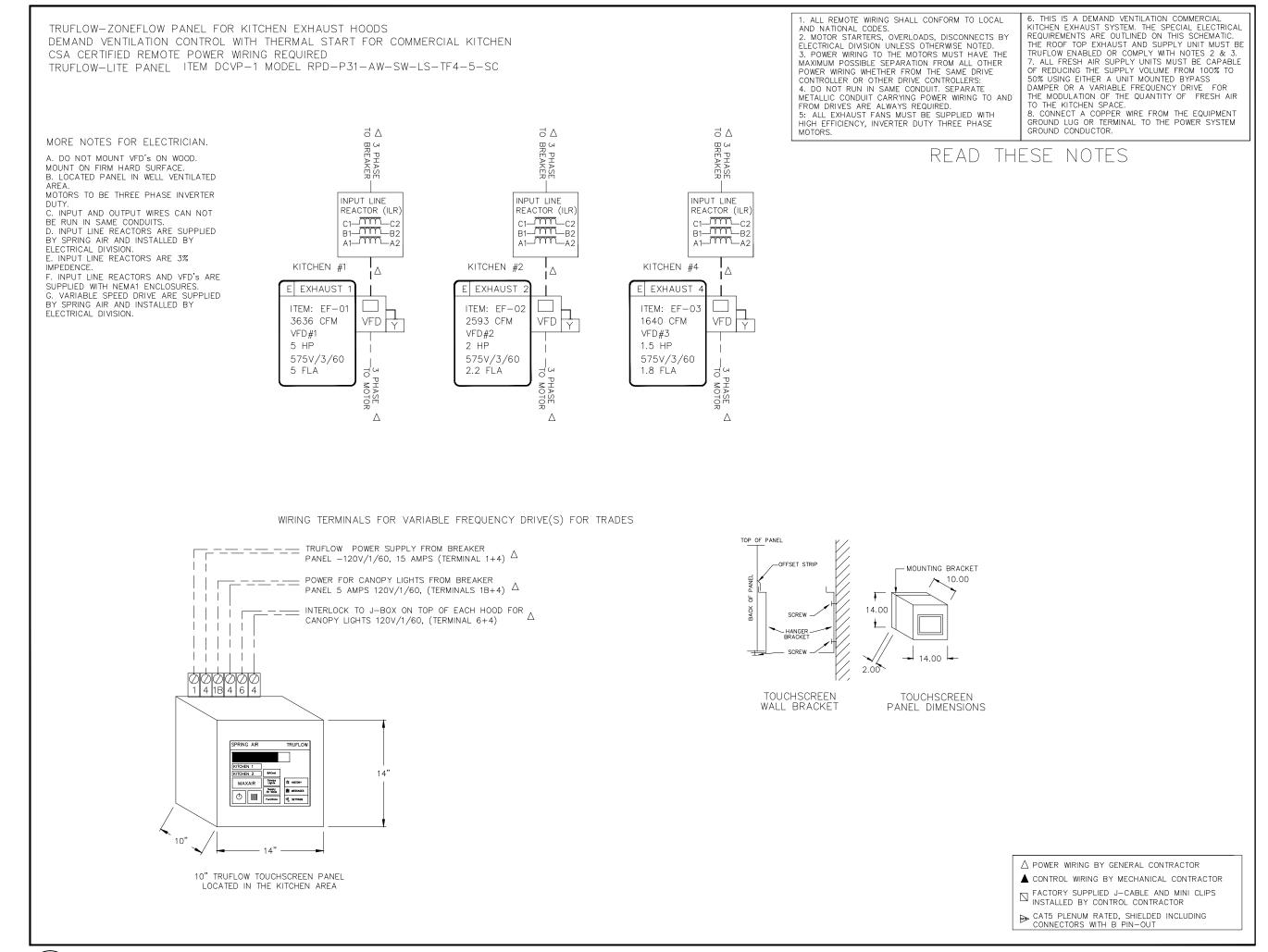
THE TRUFLOW SHALL BE CONNECTED TO THE BASE BUILDING SYSTEMS USING LONWORKS BY CONTROLS CONTRACTORS.

THE TRUFLOW SHALL BE CONNECTED TO THE BASE BUILDING SYSTEMS USING LONWORKS BY CONTROLS CONTRACTOR

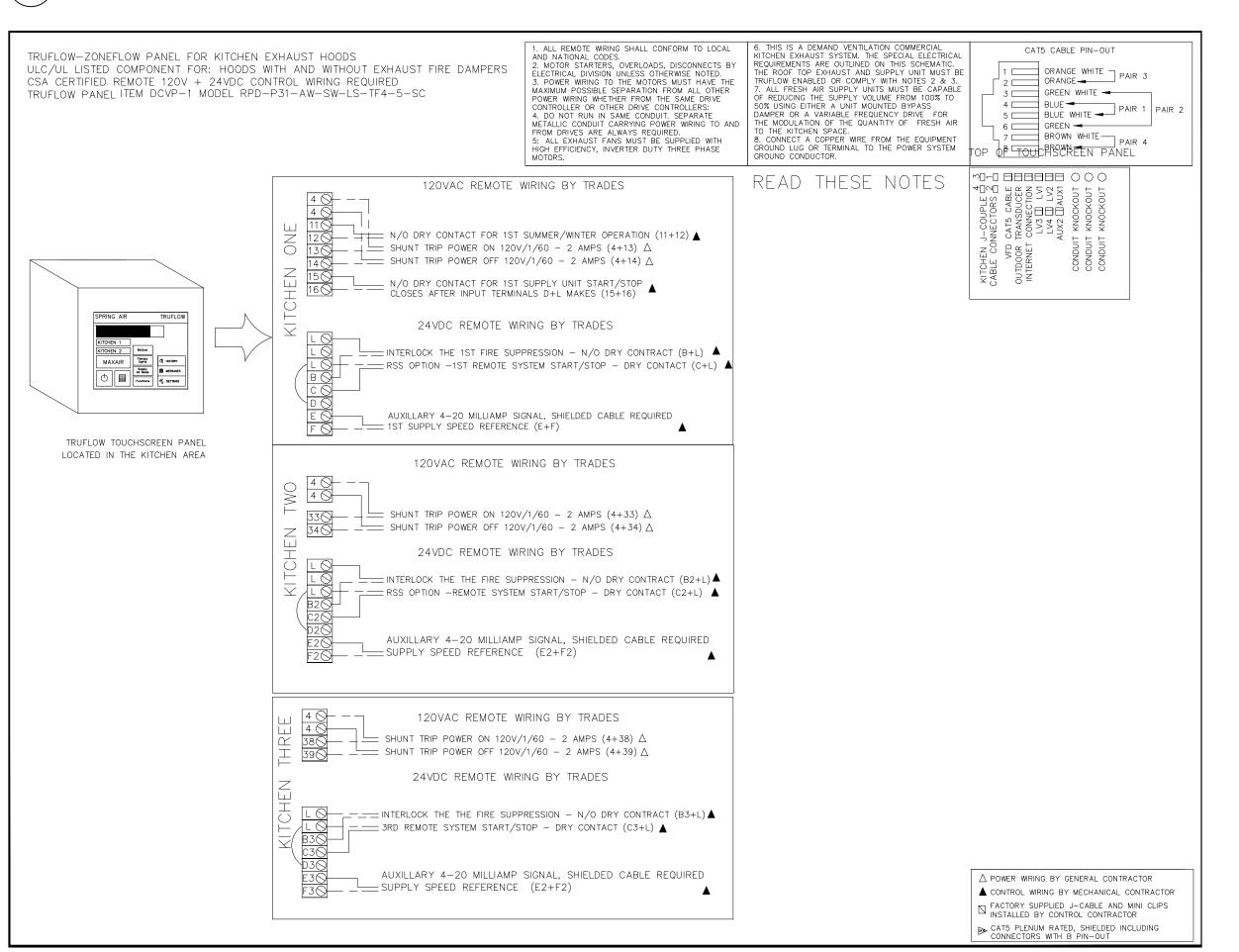
THE TRUFLOW PROVIDES MANUAL ON/OFF, A SCHEDULE FOR 24 HOUR, 7 DAY AUTOMATIC CONTROL OR BACNET
CONTROL. INTERLOCKING TO THE SUPPLY UNIT, CANOPY LIGHTS, SUMMER/WINTER OPERATION, FIRE SUPPRESSION
SYSTEM IS ALSO PROVIDE. FACTORY COMMISSIONING IS PROVIDED USING SPRING AIR SYSTEMS ONLINE DART



3 KITCHEN HOOD PANEL CONTROL WIRING



4 M1-6 SCALE: N.T.S.



5 M1-6 SCALE: N.T.S.

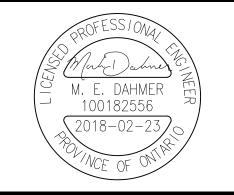
METRO ONTARIO INC. ENGINEERING AND CONSTRUCTION 25 VICKERS ROAD BLDG A ETOBICOKE, ONTARIO

DO NOT SCALE THESE DRAWINGS, ALL DIMENSIONS ARE TO FINISHED GYPSUM BOARD, CABINETS, OR FIXTURE: (EXCEPTION - COOLERS AND FREEZERS ARE DIMENSIONED FROM OUTSIDE WALL TO OUTSIDE WALL, OR OUTSIDE WALL TO CENTRE OF COMMON WALL)

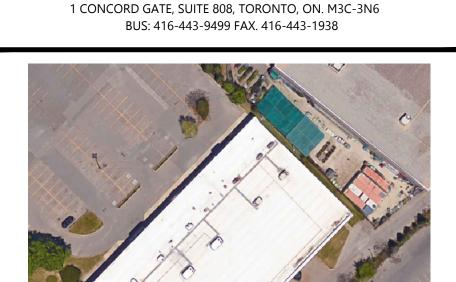
ALL WORK TO BE DONE IN ACCORDANCE WITH THE MOST RECENT EDITIONS OF MUNICIPAL AND PROVINCIAL

THE CONTRACTOR MUST VERIFY AND CHECK ALL SITE CONDITIONS, PROJECT DRAWINGS, DETAILS, AND SPECIFICATIONS AND REPORT ALL ERRORS, OMISSIONS AND DISCREPANCIES TO METRO.

ALL DESIGNS, DRAWINGS AND SPECIFICATIONS ARE OWNED BY METRO AND WERE CREATED SOLELY FOR THIS SPECIFIC PROJECT. NONE OF THESE DESIGNS OR PLANS SHALL BE USED BY, DISCLOSED TO, OR REPRODUCED BY ANY PERSON, FIRMS OR CORPORATIONS FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF METRO.







		II.	
	KEY PLAN		
NO.	REVISIONS	BY	DA

NO.	REVISIONS	BY	DATE
1	ISSUED FOR 30%	MD	2017/08/09
2	ISSUED FOR 40%	MD	2017/08/1
3	ISSUED FOR 60%	MD	2017/09/0
4	ISSUED FOR 70%	MD	2017/09/19
5	ISSUED FOR 100%	MD	2017/09/29
6	ISSUED FOR PERMIT-TENDER	MD	2017/10/1
7	ISSUED FOR TENDER 2	MD	2018/02/2

NO.			REVIS	IONS		BY	DATE	
KITCHEN EXHAUST CONTROLS								
	ECT TYPE:	CATION			1	PROJECT NO: 2017088		
BANNE	BANNER: AGROUPE AGROUPE Sinc.				STO No.		W-005 ⁻	
ADONIS INC.			PRE FINA					
LOCAT	TION:				REV No.	ISION		
2561 STANFIELD ROAD MISSISSAUGA, ONTARIO				DRA No.	WING M	1-6		
DRAW	/N BY:	CHECKED BY:	MD	DATE:	SCA	LE:	AS SHO	