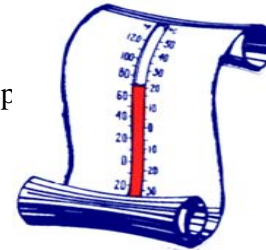


# Windsor School District Palmer Middle School

Windsor, New York

As Prep



**AIR TEMP HEATING & AIR CONDITIONING, INC.**  
A LINC SERVICE ® *CONTRACTOR*

1165 Front Street  
Binghamton, New York 13905

Phone Number: (607)772-8362

Fax Number: (607)771-8470

Engineer/Architect      M/E Engineering



Mechanical Contractor      Picciano

Job Number      P8315

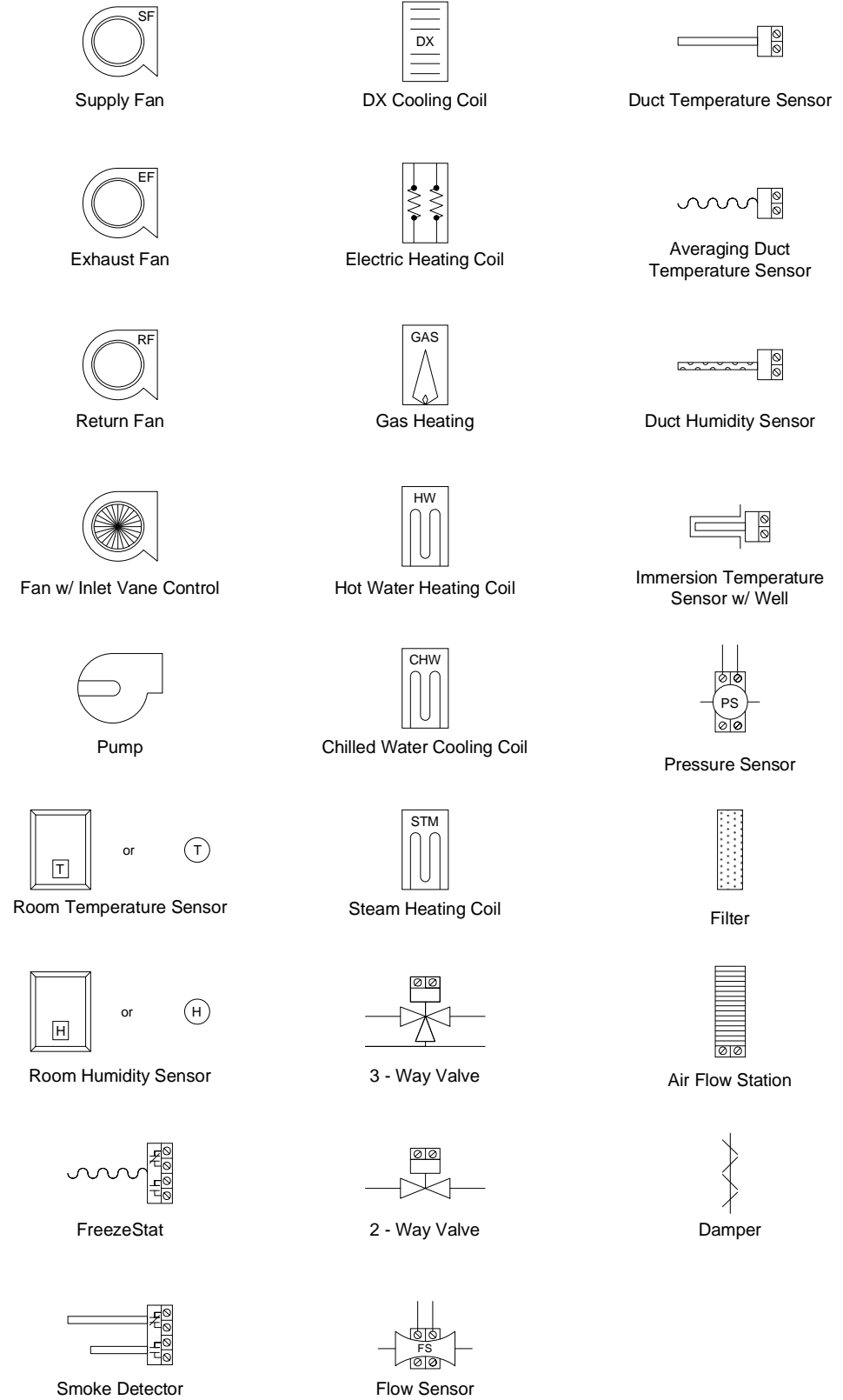
**AUTOMATEDLOGIC®**  
CORPORATION

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Windsor, New York			
 <b>AIR TEMP HEATING &amp; AIR CONDITIONING, INC.</b> A LINC SERVICE ® CONTRACTOR			
Table of Contents			
REV: 1	As-Built	11/15/2012	JOB NO: P8315
			CHECK BY: RSL
			DSCODE: 07112.00
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# Symbol Legend

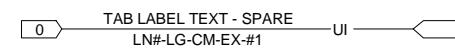


## Common Abbreviations:

AC - Air Conditioning	EVAP - Evaporator	SA - Supply Air
ACU - Air Conditioning Unit	F - Fahrenheit	SF - Supply Fan
AHU - Air Handling Unit	FCU - Fan Coil Unit	SP - Static Pressure
AI - Analog Input	HOA - Hand / Off / Auto	TEMP - Temperature
AO - Analog Output	HP - Heat Pump	UH - Unit Heater
AUTO - Automatic	HRU - Heat Recovery Unit	UV - Unit Ventilator
AUX - Auxiliary	HTEX - Heat Exchanger	VAV - Variable Air Volume
C - Common	HW - Hot Water	VVTU - Variable Volume Terminal Unit
CHW - Chilled Water	HWP - Hot Water Pump	W/ - with
CHWP - Chilled Water Pump	HWR - Hot Water Return	W/O - without
CHWR - Chilled Water Return	HWS - Hot Water Supply	WSHP - Water-Source Heat Pump
CHWS - Chilled Water Supply	MAX - Maximum	
COND - Condenser	MIN - Minimum	
CW - Condenser Water	MISC - Miscellaneous	
CWP - Condenser Water Pump	NC - Normally Closed	
CWR - Condenser Water Return	NO - Normally Open	
CWS - Condenser Water Supply	OA - Outdoor Air	
DA - Discharge Air	PIU - Powered Induction Unit	
DI - Digital Input	RA - Return Air	
DO - Digital Output	RF - Return Fan	
EA - Exhaust Air	RH - Relative Humidity	
EF - Exhaust Fan	RTU - Roof-top Unit	

## General Notes:

1. All control modules are drawn using standard ALC module representations.
2. Electrical points are identified by a tagged method (LN# - LG - CM - EX - Z0):

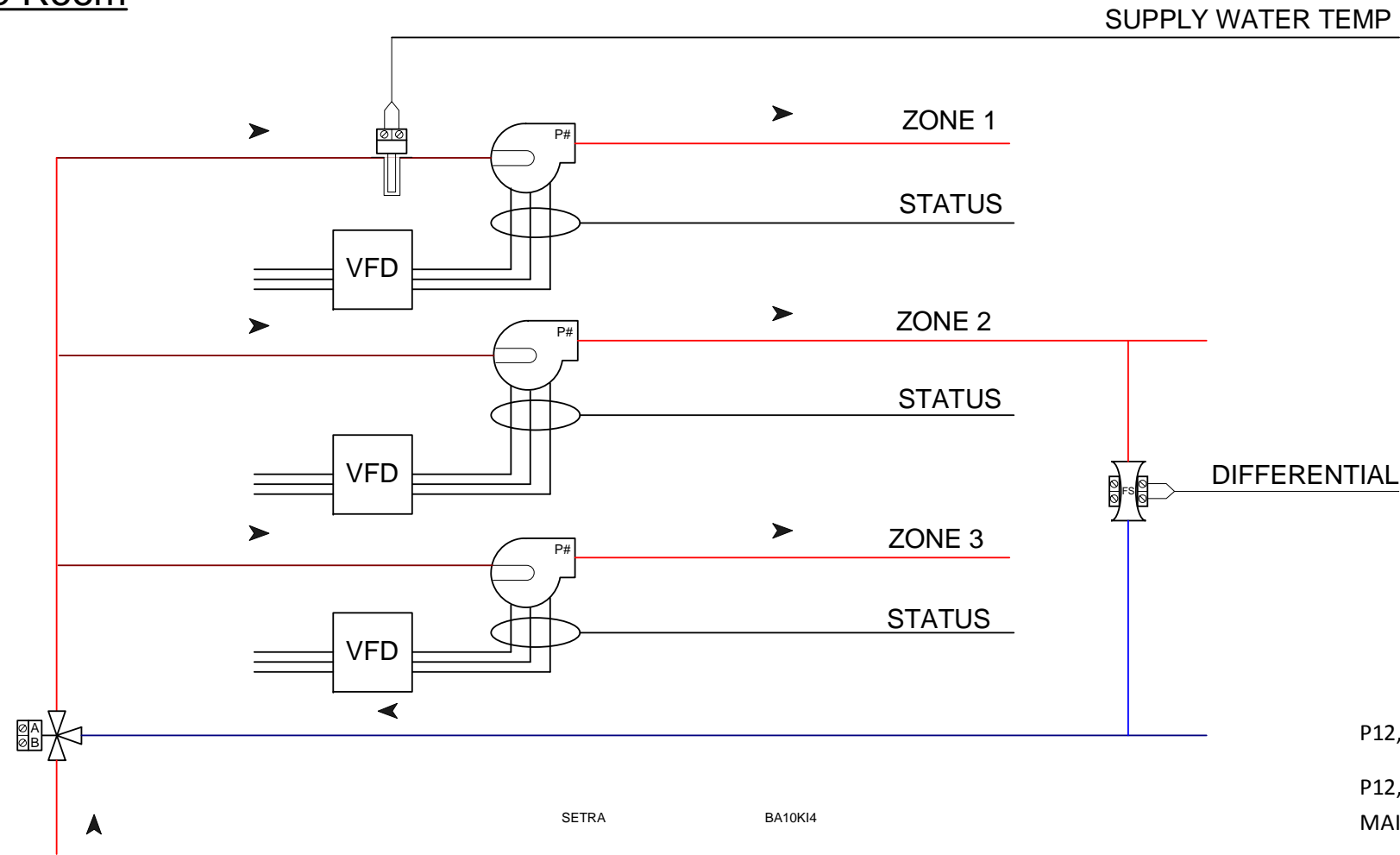


- LN# - The line number (optional).
- LG - The gateway number (optional).
- CM - The control module address.
- EX - The expander module number.
- #1 - The channel number.

These tags include wiring for all AI's, DI's, AO's and DO's. Points using pneumatic tubing follow the same convention.

Windsor School District Palmer Middle School Windsor, New York			
AIR TEMP HEATING & AIR CONDITIONING, INC. A LINC SERVICE @ CONTRACTOR			
Symbol Legend			
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# Pump Room

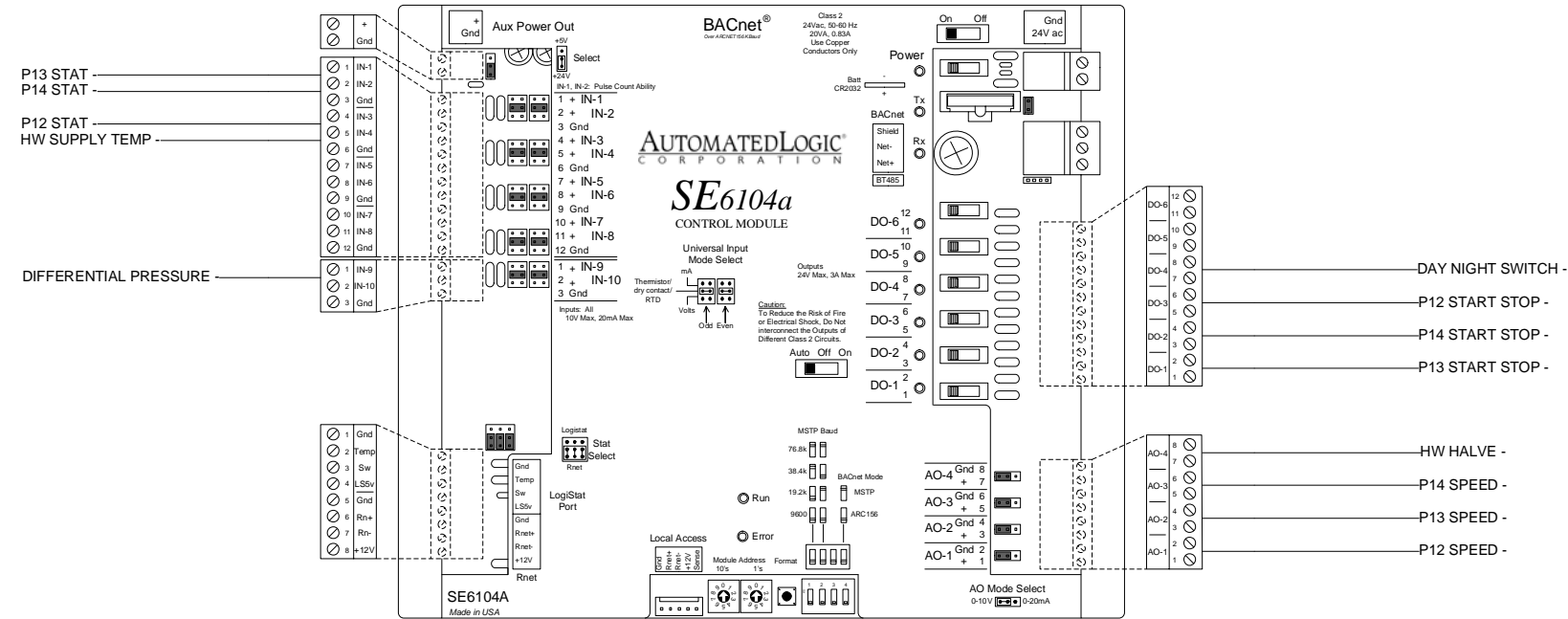


Bill of Materials				
DID	DESCRIPTION	MANUFACTURER	PART NUMBER	QTY
BA10K14	TEMP SENSOR	BA10K14	BA10K14	1 ea
SE6104a	SE6104A	AUTOMATED LOGIC	SE6104A	1 ea
SETRA	DIFF PRESSURE	SETRA	SETRA	1 ea

P12, P13, P14 TO BE STARTED ON AN OUTSIDE AIR TEMPERATURE ENABLE, (ADJUSTABLE).

P12, P13, P14, OPERATE ON VARIABLE SPEED DRIVES THAT ARE RAMPED UP OR DOWN BASED ON A MAIN DIFFERENTIAL PRESSURE, TO MAINTAIN A 10 PSIG DIFFERENTIAL, (ADJUSTABLE).

THE THREE WAY HOT WATER VALVE WILL MAINTAIN A SUPPLY WATER TEMPERATURE TO EACH ZONE BASED ON A HOT WATER RESETING SETPOINT BASED ON OUTDOOR TEMPERATURE (ADJUSTABLE).



Windsor School District Palmer Middle School

Windsor, New York

**AIR TEMP HEATING & AIR CONDITIONING, INC.**  
A LINC SERVICE @ CONTRACTOR

Pump Room



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CHECK BY: RSL		
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DSCODE: 07112.00		
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# Summary Bill of Materials

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DID	DESCRIPTION	MANUFACTURER	PART NUMBER	QTY
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# Valve Schedule



Application	Pos	Re-Order #	Qty	Tag	Datasheet	Voltage	Valve Pattern	Pipe Size	Flow [GPM]	?P	Req. Cv	Body Size	Valve Cv	Actual ?P	Close Off Pressure
Water	1		1		G7_NVG_MFT.pdf	24 VAC/VDC	3W Mix	2.5	80	30	65	2-1/2"	68	30	61

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