

ELECTRICAL SYMBOLS

PROJECT MANAGER	DATE	APPROVED BY	DATE	PROJECT ENGINEER	DATE	APPROVED BY	DATE	PLUMBING	DATE	APPROVED BY	DATE	HVAC	DATE	APPROVED BY	DATE	INSTRUMENTATION	DATE	APPROVED BY	DATE	ELECTRICAL	DATE	APPROVED BY	DATE	STRUCTURAL	DATE	APPROVED BY	DATE	ARCHITECTURAL	DATE	APPROVED BY	DATE																																																				
ONE LINE OR ELEMENTARY DIA.	PLAN	DESCRIPTION		ONE LINE OR ELEMENTARY DIA.	PLAN	DESCRIPTION		SYMBOL	DESCRIPTION			SYMBOL	DESCRIPTION			SYMBOL	DESCRIPTION			SYMBOL	DESCRIPTION			SYMBOL	DESCRIPTION			SYMBOL	DESCRIPTION																																																						
	—	LOW VOLTAGE CIRCUIT BREAKER, 3 POLE UNLESS NOTED OTHERWISE			LR	TWO POSITION SELECTOR SWITCH, MAINTAINED CONTACT			CEILING OUTLET & INCANDESCENT, FLUORESCENT, OR H.I.D. LIGHTING FIXT., "A" INDICATES FIXTURE TYPE, "d" INDICATES CONTROLLED BY SWITCH "d"				WALL OUTLET AND INCANDESCENT OR H.I.D. LIGHTING FIXTURE, NOTATIONS SAME AS ABOVE				DASH FOR EACH #12 A.W.G. CONDUCTOR, 3/4"C. UNLESS OTHERWISE NOTED. EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN. REFER TO SPECIFICATIONS FOR GROUNDING REQUIREMENTS (NOTE: DASH MARKS ARE OMITTED FOR CIRCUITS CONSISTING OF 2*12, 1*12G, 3/4"C.).				CONDUIT TURNING UP. NOTATIONS SAME AS ABOVE				CONDUIT TURNING DOWN. NOTATIONS SAME AS ABOVE				CONDUIT RUN EXPOSED. NOTATIONS SAME AS ABOVE				CONDUIT RUN CONCEALED. NOTATIONS SAME AS ABOVE. UNDERGROUND RACEWAY ON SITE PLANS				HOMERUN, CIRCUITS 1 AND 3 RUN TO PANEL LPI				HOMERUN TO TELEPHONE CABINET "TM"				LIGHTING PANEL - MOUNT UP 6'-6" TO TOP				JUNCTION BOX				PULL BOX, TERMINAL CABINET, OR CONTROL PANEL AS NOTED ON DRAWING				3/4"C. CONDUIT; SIZE AND FILL AS NOTED				3*12, 1*12G. THREE (3) NO.12 AWG CONDUCTORS AND ONE (1) NO.12 EQUIPMENT GROUNDING CONDUCTOR				1-2/C#16TS INSTRUMENT CABLE, TWISTED PAIR OR TRIPLEX AS NOTED, WITH OVERALL SHIELD AND JACKET. CONDUCTOR SIZE AND CABLE QUANTITY AS NOTED				S _{WP} SINGLE POLE SWITCH, "d" INDICATES CONTROL OF LIGHTS "d" "WP"= WEATHERPROOF, MOUNT UP 4'-0".				* DUPLEX RECEPTACLE, 120V, 3W, SINGLE PHASE * C - MOUNTED ABOVE COUNTER TOP OR 4'-6" A.F.F. CR - CORROSION RESISTANT GF - GROUND FAULT INTERRUPTER TYPE WP - WEATHERPROOF				F MANUAL FIRE ALARM STATION - MOUNT UP 4'-0"				F FIRE ALARM HORN AND LIGHT COMBINATION - MOUNT UP 7'-6" OR AS NOTED		
	2	COMBINATION MOTOR CIRCUIT PROTECTOR AND MAGNETIC MOTOR STARTER, FULL VOLTAGE NON-REVERSING UNLESS NOTED OTHERWISE: * FVR - FULL VOLTAGE REVERSING RVNR - REDUCED VOLTAGE NON-REVERSING 2SIW - TWO SPEED, ONE WINDING 2S2W - TWO SPEED, TWO WINDING NUMERAL INDICATES STARTER SIZE IF OTHER THAN SIZE 1			HOA LOR	THREE POSITION SELECTOR SWITCH, MAINTAINED CONTACT			TEMPERATURE ACTUATED SWITCH (THERMOSTAT)				SOLENOID OPERATED VALVE				STRIP HEATER OR HEATING ELEMENT				PILOT LIGHT, COLOR AS NOTED * R - RED G - GREEN A - AMBER B - BLUE W - WHITE				RELAY COIL, NUMBER AS INDICATED				MOTOR STARTER COIL, NUMBER AS INDICATED				CONTACT, NORMALLY OPEN (NO)				CONTACT, NORMALLY CLOSED (NC)				OVERLOAD RELAY HEATER (OL)				RTD RESISTANCE TEMPERATURE DETECTOR				VE VIBRATION DETECTOR				* - ** FIELD INSTRUMENT, TAG NO. AS INDICATED ** - INDICATES LOOP NO. * - INDICATES INSTRUMENT TYPE AE - ANALYZING ELEMENT (PH, ORP, DO, ETC.) AT - ANALYZING TRANSMITTER DT - DENSITY TRANSMITTER FE - FLOW ELEMENT FS - FLOW SWITCH FT - FLOW TRANSMITTER FY - FLOW TRANSDUCER LE - LEVEL ELEMENT LS - LEVEL SWITCH LT - LEVEL TRANSMITTER PDS - PRESSURE DIFFERENTIAL SWITCH PT - PRESSURE TRANSMITTER SI - SPEED INDICATOR TE - TEMPERATURE ELEMENT TS - TEMPERATURE SWITCH TT - TEMPERATURE TRANSMITTER ZS - POSITION SWITCH HS - HAND SWITCH					DM DAMPER MOTOR																									
	—	NON-FUSIBLE DISCONNECT SWITCH, 600 VOLT, 3 POLE * AMPERE RATING NOTED IF OTHER THAN 30A			T	TEMPERATURE ACTUATED SWITCH (THERMOSTAT)			SV SOLENOID OPERATED VALVE				HTR STRIP HEATER OR HEATING ELEMENT				PILOT LIGHT, COLOR AS NOTED * R - RED G - GREEN A - AMBER B - BLUE W - WHITE				RELAY COIL, NUMBER AS INDICATED				MOTOR STARTER COIL, NUMBER AS INDICATED				CONTACT, NORMALLY OPEN (NO)				CONTACT, NORMALLY CLOSED (NC)				OVERLOAD RELAY HEATER (OL)				RTD RESISTANCE TEMPERATURE DETECTOR				VE VIBRATION DETECTOR				* - ** FIELD INSTRUMENT, TAG NO. AS INDICATED ** - INDICATES LOOP NO. * - INDICATES INSTRUMENT TYPE AE - ANALYZING ELEMENT (PH, ORP, DO, ETC.) AT - ANALYZING TRANSMITTER DT - DENSITY TRANSMITTER FE - FLOW ELEMENT FS - FLOW SWITCH FT - FLOW TRANSMITTER FY - FLOW TRANSDUCER LE - LEVEL ELEMENT LS - LEVEL SWITCH LT - LEVEL TRANSMITTER PDS - PRESSURE DIFFERENTIAL SWITCH PT - PRESSURE TRANSMITTER SI - SPEED INDICATOR TE - TEMPERATURE ELEMENT TS - TEMPERATURE SWITCH TT - TEMPERATURE TRANSMITTER ZS - POSITION SWITCH HS - HAND SWITCH					DM DAMPER MOTOR																													
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	—	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD HEATER			T	TEMPERATURE ACTUATED SWITCH (THERMOSTAT)			SV SOLENOID OPERATED VALVE				HTR STRIP HEATER OR HEATING ELEMENT				PILOT LIGHT, COLOR AS NOTED * R - RED G - GREEN A - AMBER B - BLUE W - WHITE				RELAY COIL, NUMBER AS INDICATED				MOTOR STARTER COIL, NUMBER AS INDICATED				CONTACT, NORMALLY OPEN (NO)				CONTACT, NORMALLY CLOSED (NC)				OVERLOAD RELAY HEATER (OL)				RTD RESISTANCE TEMPERATURE DETECTOR				VE VIBRATION DETECTOR				* - ** FIELD INSTRUMENT, TAG NO. AS INDICATED ** - INDICATES LOOP NO. * - INDICATES INSTRUMENT TYPE AE - ANALYZING ELEMENT (PH, ORP, DO, ETC.) AT - ANALYZING TRANSMITTER DT - DENSITY TRANSMITTER FE - FLOW ELEMENT FS - FLOW SWITCH FT - FLOW TRANSMITTER FY - FLOW TRANSDUCER LE - LEVEL ELEMENT LS - LEVEL SWITCH LT - LEVEL TRANSMITTER PDS - PRESSURE DIFFERENTIAL SWITCH PT - PRESSURE TRANSMITTER SI - SPEED INDICATOR TE - TEMPERATURE ELEMENT TS - TEMPERATURE SWITCH TT - TEMPERATURE TRANSMITTER ZS - POSITION SWITCH HS - HAND SWITCH					DM DAMPER MOTOR																													
	T	TRANSFORMER, RATING AND CONNECTIONS AS NOTED			T	TEMPERATURE ACTUATED SWITCH (THERMOSTAT)			SV SOLENOID OPERATED VALVE				HTR STRIP HEATER OR HEATING ELEMENT				PILOT LIGHT, COLOR AS NOTED * R - RED G - GREEN A - AMBER B - BLUE W - WHITE				RELAY COIL, NUMBER AS INDICATED				MOTOR STARTER COIL, NUMBER AS INDICATED				CONTACT, NORMALLY OPEN (NO)				CONTACT, NORMALLY CLOSED (NC)				OVERLOAD RELAY HEATER (OL)				RTD RESISTANCE TEMPERATURE DETECTOR				VE VIBRATION DETECTOR				* - ** FIELD INSTRUMENT, TAG NO. AS INDICATED ** - INDICATES LOOP NO. * - INDICATES INSTRUMENT TYPE AE - ANALYZING ELEMENT (PH, ORP, DO, ETC.) AT - ANALYZING TRANSMITTER DT - DENSITY TRANSMITTER FE - FLOW ELEMENT FS - FLOW SWITCH FT - FLOW TRANSMITTER FY - FLOW TRANSDUCER LE - LEVEL ELEMENT LS - LEVEL SWITCH LT - LEVEL TRANSMITTER PDS - PRESSURE DIFFERENTIAL SWITCH PT - PRESSURE TRANSMITTER SI - SPEED INDICATOR TE - TEMPERATURE ELEMENT TS - TEMPERATURE SWITCH TT - TEMPERATURE TRANSMITTER ZS - POSITION SWITCH HS - HAND SWITCH					DM DAMPER MOTOR																													
	—	CURRENT TRANSFORMER * QUANTITY AND CURRENT RATIO AS NOTED			T	TEMPERATURE ACTUATED SWITCH (THERMOSTAT)			SV SOLENOID OPERATED VALVE				HTR STRIP HEATER OR HEATING ELEMENT				PILOT LIGHT, COLOR AS NOTED * R - RED G - GREEN A - AMBER B - BLUE W - WHITE				RELAY COIL, NUMBER AS INDICATED				MOTOR STARTER COIL, NUMBER AS INDICATED				CONTACT, NORMALLY OPEN (NO)				CONTACT, NORMALLY CLOSED (NC)				OVERLOAD RELAY HEATER (OL)				RTD RESISTANCE TEMPERATURE DETECTOR				VE VIBRATION DETECTOR				* - ** FIELD INSTRUMENT, TAG NO. AS INDICATED ** - INDICATES LOOP NO. * - INDICATES INSTRUMENT TYPE AE - ANALYZING ELEMENT (PH, ORP, DO, ETC.) AT - ANALYZING TRANSMITTER DT - DENSITY TRANSMITTER FE - FLOW ELEMENT FS - FLOW SWITCH FT - FLOW TRANSMITTER FY - FLOW TRANSDUCER LE - LEVEL ELEMENT LS - LEVEL SWITCH LT - LEVEL TRANSMITTER PDS - PRESSURE DIFFERENTIAL SWITCH PT - PRESSURE TRANSMITTER SI - SPEED INDICATOR TE - TEMPERATURE ELEMENT TS - TEMPERATURE SWITCH TT - TEMPERATURE TRANSMITTER ZS - POSITION SWITCH HS - HAND SWITCH					DM DAMPER MOTOR																													
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	—	PROTECTIVE RELAY, NO. AS INDICATED: 27 - UNDERVOLTAGE 40 - LOSS OF EXCITATION 42 - RUNNING CIRCUIT BREAKER OR CONTACTOR 46 - REVERSE PHASE, OR PHASE BALANCE CURRENT 49 - MACHINE OR TRANSFORMER THERMAL 50 - INSTANTANEOUS OVERCURRENT, OR RATE-OF-RISE 51 - AC TIME OVERCURRENT 51N - AC TIME OVERCURRENT RELAY, NEUTRAL GROUND 51V - TIME OVERCURRENT RELAY WITH VOLTAGE RESTRAINT 86 - LOCKING-OUT 87 - DIFFERENTIAL PROTECTIVE GF - INSTANTANEOUS GROUND FAULT, ZERO SEQUENCE ST - SHUNT TRIP			T	TEMPERATURE ACTUATED SWITCH (THERMOSTAT)			SV SOLENOID OPERATED VALVE				HTR STRIP HEATER OR HEATING ELEMENT				PILOT LIGHT, COLOR AS NOTED * R - RED G - GREEN A - AMBER B - BLUE W - WHITE				RELAY COIL, NUMBER AS INDICATED				MOTOR STARTER COIL, NUMBER AS INDICATED				CONTACT, NORMALLY OPEN (NO)				CONTACT, NORMALLY CLOSED (NC)				OVERLOAD RELAY HEATER (OL)				RTD RESISTANCE TEMPERATURE DETECTOR				VE VIBRATION DETECTOR				* - ** FIELD INSTRUMENT, TAG NO. AS INDICATED ** - INDICATES LOOP NO. * - INDICATES INSTRUMENT TYPE AE - ANALYZING ELEMENT (PH, ORP, DO, ETC.) AT - ANALYZING TRANSMITTER DT - DENSITY TRANSMITTER FE - FLOW ELEMENT FS - FLOW SWITCH FT - FLOW TRANSMITTER FY - FLOW TRANSDUCER LE - LEVEL ELEMENT LS - LEVEL SWITCH LT - LEVEL TRANSMITTER PDS - PRESSURE DIFFERENTIAL SWITCH PT - PRESSURE TRANSMITTER SI - SPEED INDICATOR TE - TEMPERATURE ELEMENT TS - TEMPERATURE SWITCH TT - TEMPERATURE TRANSMITTER ZS - POSITION SWITCH HS - HAND SWITCH					DM DAMPER MOTOR																													
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	—	MECHANICAL CONNECTION OR INTERLOCK			T	TEMPERATURE ACTUATED SWITCH (THERMOSTAT)			SV SOLENOID OPERATED VALVE				HTR STRIP HEATER OR HEATING ELEMENT				PILOT LIGHT, COLOR AS NOTED * R - RED G - GREEN A - AMBER B - BLUE W - WHITE																																																																		