

ELECTRICAL SYMBOLS

	CONDUIT RUN CONCEALED IN CEILING OR WALL. CROSSHATCH LINES DENOTE NUMBER OF CONDUCTORS WHEN OTHER THAN TWO.		EXIT LIGHT, CEILING MOUNTED, DIRECTIONAL ARROWS WHERE INDICATED		JUNCTION BOX
	CONDUIT RUN CONCEALED IN OR UNDER FLOOR SLAB		EXIT LIGHT, BRACKET MOUNTED, DIRECTIONAL ARROWS WHERE INDICATED		FLOOR JUNCTION BOX
	CONDUIT RUN EXPOSED		S ₁ SINGLE POLE SWITCH, SUBSCRIPT DENOTES SWITCH CONTROL		TELEPHONE OUTLET, PRIVATE
	HOME RUN. NUMBER OF ARROWS DENOTES NUMBER OF CIRCUITS. LETTERS AND NUMBERS DESIGNATE PANEL AND CIRCUITS.		S ₂ DOUBLE POLE SWITCH		TELEPHONE OUTLET, PUBLIC
	CONDUIT TURNED UP		S ₃ THREE WAY SWITCH		TELEPHONE OUTLET, FLOOR
	CONDUIT TURNED DOWN		S ₄ FOUR WAY SWITCH		DIMMER
	GROUND		S _P SWITCH WITH PILOT LIGHT		LIGHTING PANELBOARD
	INCANDESCENT LIGHTING FIXTURE, CEILING MOUNTED		DISCONNECT SWITCH, WP DENOTES WEATHERPROOF		POWER PANELBOARD
	INCANDESCENT LIGHTING FIXTURE, BRACKET MOUNTED		CLOCK HANGER OUTLET		TRANSFORMER
	INCANDESCENT LIGHTING FIXTURE ON EMERGENCY CIRCUIT		DUPLEX RECEPTACLE, WP DENOTES WEATHERPROOF		MOTOR ON PIECE OF EQUIPMENT
	FLOODLIGHT		RECEPTACLE FOR ELECTRIC WATER COOLER, COORDINATE WITH EQUIPMENT PROVIDED		MOTOR STARTER OR CONTROLLER
	FLUORESCENT LIGHTING FIXTURE		DUPLEX RECEPTACLE, FLOOR		PUSHBUTTON
	FLUORESCENT LIGHTING FIXTURE ON EMERGENCY CIRCUIT		SINGLE RECEPTACLE, FLOOR		THERMOSTAT
			SPECIAL PURPOSE RECEPTACLE		CLOCK
					CONTROL STATION, TYPE AS SHOWN ON WIRING DIAGRAMS

PLUMBING, HEATING, VENTILATING & AIR CONDITIONING

	SANITARY SEWER		FOS FUEL-OIL SUPPLY		LATERAL Y
	SD STORM DRAIN		FOR FUEL-OIL RETURN		CAP
	VENT		FOV FUEL-OIL TANK VENT		PLUG
	AR ACID RESISTANT DRAIN		PA PIPE ANCHOR		UNION
	D DRAINLINE		H HANGER OR SUPPORT		FLEXIBLE CONNECTION
	COLD WATER		EXPANSION JOINT		FLOOR DRAIN
	HOT WATER		GATE VALVE		CLEAN OUT
	HOT WATER CIRCULATING		GLOBE VALVE		STEAM TRAP
	HIGH PRESSURE STEAM		BUTTERFLY VALVE		DRIP STATION
	HIGH PRESSURE RETURN		CHECK VALVE		P.R.S. PRESSURE REDUCING STATION
	MEDIUM PRESSURE STEAM		HOSE GATE VALVE		PRESSURE GAGE
	MEDIUM PRESSURE RETURN		H.B. HOSE BIBB		TEMPERATURE GAGE
	LOW PRESSURE STEAM		W.H. WALL HYDRANT		VACUUM GAGE
	LOW PRESSURE RETURN		BALANCING VALVE		THERMOMETER
	HW HOT WATER HEATING SUPPLY		PRESSURE RELIEF, ANGLE VALVE		AUTOMATIC AIR VENT
	HW.R HOT WATER HEATING RETURN		PRESSURE RELIEF, STRAIGHT THRU VALVE		HUMIDIFIER
	CW CHILLED WATER SUPPLY		PRESSURE REDUCING VALVE		HUMIDISTAT
	CW.R CHILLED WATER RETURN		AUTOMATIC CONTROL VALVE, 2-WAY		THERMOSTAT
	CH CHILLED & HOT WATER SUPPLY		AUTOMATIC CONTROL VALVE, 3-WAY		UNIT HEATER
	CH.R CHILLED & HOT WATER RETURN		ELBOW, 90°		
	CC COLD CONDENSER WATER		ELBOW, 90° TURNED UP		
	HC HOT CONDENSER WATER		ELBOW, 90° TURNED DOWN		
	RD REFRIGERANT DISCHARGE		ELBOW, 45°		
	RL REFRIGERANT LIQUID		ELBOW, 45° TURNED DOWN		
	RS REFRIGERANT SUCTION		ELBOW, 45° TURNED UP		
	G GAS		TEE		
	A COMPRESSED AIR		TEE, OUTLET TURNED UP		
	CONDENSATE PUMP DISCHARGE		TEE, OUTLET TURNED DOWN		
	FEEDWATER PUMP DISCHARGE		STRAINER		
	BBO BOILER BLOW-OFF		BLIND FLANGE		

DUCTWORK FOR HEATING, VENTILATING & AIR CONDITIONING

	RECTANGULAR DUCTWORK (1ST FIG. SIDE SHOWN, 2ND SIDE NOT SHOWN)		MITER TEE, RECTANGULAR
	ROUND DUCT		BRANCH DUCT, LATERAL FITTING, ROUND
	FLEXIBLE ROUND DUCT		BRANCH DUCT, TEE FITTING, ROUND
	ACOUSTICALLY LINED DUCT		BRANCH DUCT, "Y" FITTING, ROUND
	OPPOSED BLADE VOLUME DAMPER		SUPPLY DUCT SECTION, RECTANGULAR
	FLEXIBLE DUCT CONNECTION		EXHAUST OR RETURN DUCT SECTION, RECTANGULAR
	FIRE DAMPER		90° ELBOW TURNED UP, RECTANGULAR
	DUCT TRANSITION, ROUND TO RECTANGULAR		90° ELBOW TURNED DOWN, RECTANGULAR
	DUCT TRANSITION, RECTANGULAR TO ROUND		90° ELBOW TURNED UP, ROUND
	DUCT TRANSITION, RECTANGULAR		90° ELBOW TURNED DOWN, ROUND
	INCLINED RISE IN RESPECT TO AIR FLOW, RECTANGULAR		CEILING DIFFUSER
	INCLINED DROP IN RESPECT TO AIR FLOW, RECTANGULAR		CEILING REGISTER OR GRILLE, EXHAUST OR RETURN
	INCLINED RISE IN RESPECT TO AIR FLOW, ROUND		SUPPLY REGISTER OR GRILLE
	INCLINED DROP IN RESPECT TO AIR FLOW, ROUND		EXHAUST OR RETURN REGISTER OR GRILLE
	90° ELBOW RECTANGULAR		AIR-LIGHT TROFFER W/FLEX DUCT CONNECTION
	45° ELBOW RECTANGULAR		MIXING BOX W/FLEX DUCT CONNECTION
	90° ELBOW, ROUND		
	45° ELBOW, ROUND		
	MITER BRANCH DUCT, RECTANGULAR		
	TAP-IN BRANCH DUCT, RECTANGULAR		

DESIGNED	DATE	DESCRIPTION	BY	APP.
DRAWN				
CHECKED				
APPROVED				
SUBMITTED				
HAYES, SEAY, MATTERN & MATTERN ARCHITECTS-ENGINEERS ROANOKE, VIRGINIA		SCALE NONE DATE APRIL 1970	COMM. NO. 3627-A SHEET 0-B	