Rosemont Area High School
9594 Kiefer Blvd
Sacramento, California

Sacramento City Unified School District

O & M Drawings

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Vicinity Map
Communication LAN Schematic
**EF CONTROL DIAGRAM**

**EF INTERLOCK DIAGRAM**

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### MATERIAL

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**REVISIONS**

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**EF LINE VOLTAGE THERMOSTAT CONTROL DIAGRAM**

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**PROJECT:** Rosemont Area High School
HV UNIT CONTROL DIAGRAM

(Typical of HV 1G and 2G)
PACKAGE UNIT w/ ENERGY RECYCLER CONTROL DIAGRAM

(Typical of AC 1A-6A, 1B-14B, 1C-4C, 11C-13C, 17C, 18C, 7F-9F, 6G-8G, 1J-4J, 6J, 7J, 10J and 1E-14E)
PACKAGE UNIT CONTROL DIAGRAM

(Typical of AC 15B, 10C, 15E, 1F-6F, 9G-11G and 12J)

Notes:
1. If required to earth ground one leg of transformer ground the neutral (neutral) terminal only.
2. Wires 18 AWG typical.
PACKAGE UNIT CONTROL DIAGRAM w/ SMOKE DETECTOR

(Typical of AC 5C-9C and 10F-13F)

Notes:
1. If its required to earth ground one leg of transformer ground the neutral (-) terminal only.
2. Wire 18 AWG typical
PACKAGE UNIT CONTROL DIAGRAM w/ CO₂ SENSOR

(Typical of AC 1G and AC 2G)

Notes:
1. If its required to earth ground one leg of transformer ground the neutral (-) terminal only.
2. Wire 18 AWG typical.
PACKAGE UNIT CONTROL DIAGRAM
w/ SMOKE DETECTOR and
ENERGY RECYCLER

(Typical of AC 15C, 5G, 5J, 8J, 9J and 11J)
FURNACE w/ COOLING COIL CONDENSING UNIT CONTROL DIAGRAM

(Typical of F 1B-15B, 1C-12C and 1E-15E)
KITCHEN HV UNIT CONTROL DIAGRAM

(Typical of HV 1F and 2F)
Sequence of Operation

AC Package Units w/ Economizers

During periods of occupancy the AC unit TUX controller will enable the fan and provide staged heating and cooling to maintain room setpoint. Each AC unit will have factory installed Belimo economizer actuators. The DDC controller will position the economizer dampers to provide free cooling when outside temperature allows. A supply air temperature sensor is required for troubleshooting purposes and proper economizer control. Provide supply air smoke detectors for units listed to shut down AC unit upon detection of products of combustion. Fan status current switches will be installed for positive feedback of fan operation. Unoccupied setpoints of 55 deg and 85 deg will be programmed into controller. Interlock any associated exhaust fans to operate whenever AC unit is enabled.

AC Package Units w/ Energy Recycler

During periods of occupancy the AC unit controller will enable the fan and provide staged heating and cooling to maintain room setpoint. A factory provided and installed energy recovery will be enabled by the DDC and then operate on its own controls. A supply air temperature sensor is required for troubleshooting purposes. Provide supply air smoke detectors as indicated to shut down AC unit upon detection of products of combustion. Fan status current switches will be installed for positive feedback of fan operation. Unoccupied setpoints of 55 deg and 85 deg will be programmed into controller. Interlock any associated exhaust fans to operate whenever AC unit is enabled.

Split System Units

During periods of occupancy the AC unit TUX controller will enable the fan and provide staged heating and cooling to maintain room setpoint. Each AC unit will have factory installed fixed dampers that will be set by the air balancer. A supply air temperature sensor is required for troubleshooting purposes. Interlock any associated exhaust fans to operate whenever AC unit is enabled.

Kitchen Heat Vent Units

When the kitchen exhaust fan is enabled, via a wall switch, the HV unit will start. The HV unit will be factory controlled and will stage heating and provide evaporative cooling as required. Provide supply air smoke detector as indicated to shut down unit upon detection of products of combustion.

Locker Heat Vent Units

During periods of occupancy the HV unit TUX controller will enable the fan and provide staged heating and evaporative cooling to maintain room setpoint. Factory installed two position damper will open to 100% OSA when unit is operating. A supply air sensor is required to provide information for troubleshooting purposes. Provide supply air smoke detector to shut down HV unit upon detection of products of combustion. Interlock any associated exhaust fans to operate whenever AC unit is enabled.