



REVISIONS:

PROJECT #: 24308.00
 DATE: APRIL 10, 2015
 DRAWN BY: CKH
 DESIGNER: CKH
 CHECKED BY: CKH



OGCB
 Incorporated



SBI-000320
HVAC RETROFIT PHASE II
SHELBY COUNTY CRIMINAL JUSTICE CENTER
 201 POPLAR AVENUE
 MEMPHIS, TENNESSEE 38103



SHEET NUMBER:
E-126

DESCRIPTION:
 SIXTH FLOOR PLAN - ELECTRICAL

KEYNOTES (K)

- VAV BOX. PROVIDE TOGGLE DISCONNECT SWITCH AND 120 VOLT CONNECTION FROM 20 AMP CIRCUIT BREAKER ADDED TO PANEL "6BERL2"
- PANEL "6BERL2" - PROVIDE (3) 20/1 CBs IN EMPTY SPACES, FOR 1) VAV BOX CONTROL POWER ON LEVEL 5, 2) VAV BOX CONTROL POWER ON LEVEL 6, AND 3) POWER TO HVAC CONTROL PANELS ADDED BEHIND MCC-4A.
- EXISTING MOTOR CONTROL CENTER "MCC-4A", CONTAINING EIGHT (8) MOTOR CONTROLLERS FOR SUPPLY AND RETURN FANS FOR 4 RTUs. REMOVE THE CONTENTS OF EACH OF THESE (8) BUCKETS AND PROVIDE (8) CIRCUIT BREAKERS FOR THE FANS SERVED, AS FOLLOWS:
 - 50/3 CB: RTU-3S
 - 25/3 CB: RTU-1S, RTU-4S
 - 20/3 CB: RTU-2S, RTU-3R, RTU-4R
 - 15/3 CB: RTU-1R, RTU-2R
- MOUNT THE NEW VFCs FOR THE (8) RTU FANS ON UNISTRUT FRAME IN THIS LOCATION, IN TWO ROWS. INTERCEPT THE EXISTING FEEDER CONDUITS ABOVE "MCC-4A" AND ROUTE THEM TO THE VFCs, THEN BACK TO "MCC-4A". PULL NEW WIRE (3#10, #10G.) FOR EACH FEEDER, FROM CIRCUIT BREAKER, THROUGH VFC, THROUGH SWITCH ON RTU, TO FAN.
- (4) HVAC CONTROL PANELS, IN TWO ROWS, ON UNISTRUT FRAME. PROVIDE 120 VOLT CONNECTION TO EACH PANEL FROM (1) 120 VOLT CIRCUIT FROM 20/1 CIRCUIT BREAKER IN PANEL "6BERL2".
- WP DISCONNECT SWITCH FOR SUPPLY FAN MOTOR.
- WP DISCONNECT SWITCH FOR UV LIGHTING INSIDE RTU - REUSE EXISTING UV LIGHTING 120 VOLT CIRCUIT.
- WP DISCONNECT SWITCH FOR RETURN FAN MOTOR.
- PROVIDE DUPLEX RECEPTACLE, CONNECTED TO EXISTING RTU RECEPTACLE CIRCUIT.
- IN ADDITION, AT EACH OF FOUR RTUs BEING REPLACED:
 - REMOVE LIGHTNING PROTECTION SYSTEM AIR TERMINALS AND CONDUCTOR TERMINATIONS
 - DISCONNECT EXISTING DUCT-TYPE SMOKE DETECTORS IN SUPPLY AND RETURN DUCTS
 - PROVIDE TWO DUCT-TYPE SMOKE DETECTORS, FOR INSTALLATION BY DIVISION 23
 - RECONNECT TWO DETECTORS TO FIRE ALARM SYSTEM AFTER INSTALLATION BY DIVISION 23
 - REINSTALL LIGHTNING PROTECTION AIR TERMINALS ON NEW RTUs AND RE-TERMINATE CONDUCTORS (COORDINATE REQUIREMENTS WITH QUALIFIED LIGHTNING PROTECTION SYSTEM INSTALLER).