



**ADDENDUM NO. 1, DATED OCTOBER 31, 2011
TO THE DOCUMENTS FOR
RENOVATIONS TO CENTRAL CABARRUS HIGH SCHOOL
CABARRUS COUNTY SCHOOLS
CONCORD, NORTH CAROLINA
COMM. NO. 11006.00**

CHANGES TO DRAWINGS

ARCHITECTURAL

SHEET A-1 – OVERALL FLOOR PLANS

1. On Sheet A-1, on note referring to the existing metal walkway canopy, add the following sentence: "All new canopy framing and other members shall match existing material, color and finish."

MECHANICAL

SHEET M-3 – SCHEDULES & DETAILS

2. On Sheet M-3, Under HVAC Specifications, Duct Insulation, Add the following: "(d) All new ductwork shall be insulated. Existing ductwork is not required to be insulated."

ELECTRICAL

SHEET E-1 – SYMBOLS AND SCHEDULES

3. On Sheet E-1, under Electrical Specifications, Item 7, in the third sentence, change 1" to ½" trade size minimum.

SHEET E-3 – FLOOR PLAN – LIGHTING RENOVATION

4. On Sheet E-3, under Electrical Specifications, add the following:

OCCUPANCY SENSORS:

- a. Occupancy sensors shall be provided where indicated on the drawings. Sensors shall be the dual technology type suitable for sensing both passive infrared and ultrasonic waves type, complete with a self-contained power/switch unit to avoid the need for low-voltage wiring to a remote sensor. Each sensor shall have a time delay circuit adjustable from 6 - 15 minutes with a shortened 30 second time delay feature for set-up purposes and a manual time delay bypass feature. In addition, each sensor shall have a LED walk test indicator for set-up purposes
- b. The power/switch pack shall consist of a control transformer and rectifier circuit and a relay with contacts rated 277 VAC, 20 Amp, 4800 Watts.
- c. The sensor shall be sensitive to 9 - 10 micron/meter wave length infrared heatwaves.
- d. Upon detection of the heatwaves or motion, the relay contacts shall instantly close to activate

- the room lighting. The contacts shall remain closed until no motion or presence of waves is sensed for the full length of time set by the adjustable time delay circuit.
- e. The sensor shall be ceiling mounted and located as recommended by the manufacturer. The sensor shall be provided complete with all necessary hardware, brackets, special boxes and covers.
 - f. Unless otherwise indicated, all fluorescent lighting within the room where the occupancy sensor is located shall be controlled by the occupancy sensor.
 - g. Occupancy sensors shall provide 95% coverage of space where shown. Provide additional sensors as required to achieve this coverage.
 - h. Submit layout of all occupancy sensors specific for this project as developed by the sensor manufacturer prior to installation of sensors.

5. On Sheet E-3, under Electrical Specifications, add the following:

PROGRAMMABLE LIGHT SWITCHES:

- a. The digital time switch shall be programmable to turn lights off after a preset time.
- b. Time switch shall be a completely self-contained control system. It shall have a ground wire and ground strap for safety. Switching mechanism shall be a latching air gap relay.
- c. Time switch shall be compatible with all electronic ballasts, motor loads, compact fluorescent and inductive loads.
- d. Time switch shall operate at universal voltages of 100-300 VAC; 50/60 Hz.
- e. Time switch shall have no minimum load requirement and shall be capable of controlling 0 to 800 watt incandescent, fluorescent @ 100/120 VAC, 50/60 Hz; 0 to 1200 watts fluorescent @ 230/277 VAC, 50/60 Hz; 1/6 hp @ 125 VAC.
- f. Time scroll feature shall allow manual overriding of the preset time-out period.
- g. Time switch shall have the option for a one second light flash warning at five minutes before the timer runs out and twice when the countdown reaches one minute (when used to control lighting loads).
- h. Time switch shall have the option for a beep warning that shall sound every five seconds once the time switch countdown reaches one minute.
- i. Time switch shall have manual feature for timer reset where pressing the ON/OFF switch for more than 2 seconds resets the timer to the programmed time-out period.
- j. Time switch shall have an electroluminescent backlit Liquid Crystal Display that shows the timer's countdown.
- k. Time-out period shall be adjustable increments of 5 minutes from 5 minutes to 1 hour, and in increments of 15 minutes from 1 hour to 12 hours.
- l. Time switch shall be capable of operating as an ON/OFF switch.
- m. The time switch shall have a 100% OFF override switch with no leakage current to the load.
- n. In the event there is an open circuit in the AC line such as a ballast or lamp failure, the time switch shall automatically switch to OFF mode.
- o. Time switch shall have 5 year warranty and shall be UL and CUL listed.

END OF ADDENDUM NO. 1