

## **CONSTRUCTION REQUIREMENTS**

Note: The buildings on the UCCS campus are divided into two categories: General Fund and Auxiliaries. General Fund Buildings include academic and administrative functions. Auxiliary buildings include dormitories, athletic, and dining facilities. In some cases, construction standards differ depending on the building category. Confirm building category with Facilities Services Project Manager.

### **DIVISION TWENTY-SIX: ELECTRICAL**

**A. Lighting Controls:** The campus is standardized on Delta system web-based direct digital controls (DDC) . **Setpoint , Delta Controls, ORCA . Littleton, Colorado NO SUBSTITUTIONS.**

**B. Lamps:**

1. Preferred lamps:
  - T8 for classrooms and hallways
  - HID Mercury vapor/ Metal halide, mogul base.
  
2. Lamps to avoid:
  - T5 (due to high heat gain)
  - PL
  - High pressure sodium
  - “U” tube fluorescents

**C. Interior Fixtures:**

1. Minimize the use of recessed can downlights
2. Provide lighting in classrooms that minimizes glare. Provide direct/indirect lighting or deep troffer fixtures. (See APPENDIX 3 for additional lighting considerations in classrooms)
3. Occupancy sensors: Provide overhead sensors in private offices and bathrooms with override switch at door.

**D. Electrical Outlets/Receptacles**

1. UCCS prefers Levitron Industrial Grade, back and side wired, 20 amp receptacles with stainless steel wall plates.

**E. Site Lighting**

1. Pedestrian Light Poles: Kim Lighting Inc, Vertical Lamp VL Series, Post Top Configuration, Flush Mount, Dark Bronze, single luminaire, 17" diameter, Metal halide, full cut-off light distribution. Poles to be 5" diameter, PRA non-tapered, 16 feet high. Color: Dark Bronze. Mount on poured concrete base with beveled edges: 18" diameter, 6" above finished grade.

2. Street and Parking Lighting: Kim Lighting Inc., Vertical Lamp Arm VLA Series, Full cut –off light distribution. Side arm configuration, 17", 25" or 29" diameter. 1,2,3 or 4 Heads. Color: Dark Bronze. Poles: Dark Bronze PRA, Tapered mounted on concrete base. Coordinate height of base with Project Manager.

3. Step Lighting: Fully recessed, cast aluminum or brushed stainless steel finish.