



- L. All light fixtures in Gymnasiums shall be provided with impact resistant Polycarbonate Lens and safety cable.
- M. Ballasts for tandem wired fixtures shall operate as a parallel circuit, remaining lamps shall continue to operate even if companion lamp(s) fail.
- N. A single ballast may operate as many as four lamps. However, single ballast may not be connected to more than two fixtures.

## 2.2 EXTERIOR LUMINARIES AND ACCESSORIES

- A. Enclosures: Complete with gaskets to form weatherproof assembly.

## 2.3 ACCEPTABLE MANUFACTURERS - LAMPS

- A. G.E.
- B. Sylvania
- C. Philips Lighting Company
- D. Substitutions: Under provisions of Section 01630.

## 2.4 LAMPS

- A. General Use Incandescent Lamps: Inside frosted type, rated 130 volts.
- B. Incandescent Reflector Lamps: Shape as scheduled, rated 130 volts.
- C. Fluorescent Lamps: Cool white energy efficient; all by same manufacturer.
- D. Provide 32 watts, T-8 fluorescent lamps as noted on the drawings.
- E. T-8 lamps shall have minimum of 2800 lumen output, 4100° Kelvin, energy saving.
- F. Metal Halide HID Lamps: Phosphor coated.
- G. High Pressure Sodium HID Lamps: Clear or Coated suitable for all burning positions.

## 2.5 ACCEPTABLE MANUFACTURERS - FLUORESCENT BALLASTS

- A. G.E.
- B. Advanced
- C. MagneTek
- D. Substitutions: Under provisions of Section 01630.

## 2.6 FLUORESCENT BALLASTS

- A. Fluorescent Ballasts: ANSI C82.1; high power factor type.
- B. Nominal 430 ma Lamp Ballasts: Low energy type.

## 2.7 HID BALLASTS

- A. HID Ballast: ANSI C82.4; selected by luminaries manufacturer.
- B. LS-NC Rating: NEMA LE 2; equal to or less than ratings listed in Table C-1.
- C. HID Ballast: High power factor type.

# PART 1 EXECUTION

## 3.1 INSTALLATION

- A. Install lamps in luminaries and lamp holders.
- B. Support surface-mounted luminaries directly from building structure. Fasten to T-bars using screws, or approved ceiling framing member clips.
- C. Install recessed luminaries to permit removal from below. Use plaster frames or install grid clips.
- D. HID Luminaries: Use hangers rated 500 pounds minimum or provide safety chain between ballast and structure. Provide safety chain between reflector and ballast.
- E. Lay-in type recessed fixtures in suspended acoustical ceiling:

