

### Gate-Road Closure

Furnish and install a Road Closure Gate as shown in the plans. Include all necessary items and work required to erect the road closure gate as part of this bid item. The cost for the foundation, luminaire assembly, service assembly and conduit & cables/conductors from the service assembly to the road closure gate are included under separate bid items.

Include the Type 3R cabinet mounted on the road closure gate and internal components thereof as part of this bid item. Furnish a dry type core and coil transformer with 120 volt primary / 12 volt secondary meeting UL standard 506. Size of the transformer is approximately 2.79"(H) x 3.29"(W) x 3.97"(D).

Furnish and install gate arm lights that utilize red light-emitting diodes (LEDs) and have an operating range of 8.5 to 12 VAC (input voltage).

Furnish and install a flashing beacon circular indication that utilizes LEDs in accordance with the latest issue of the ITE Interim Purchase Specification Vehicle Traffic Control Signal Heads, Part 2: Light Emitting Diode (LED) Vehicle Traffic Signal Modules. Supply circular signal indications that have a colored polycarbonate lens that matches the wavelength of the LEDs.

Seal the lens for the LED signals to the housing making the unit watertight. Provide a one-piece neoprene or EPDM (Ethylene, Propylene, Diene Monomers) gasket around the lens and housing.

Supply LED indications that have a guarantee to be replaced or repaired if a signal indication fails to function as intended due to workmanship or material defects within the first 60 months of operation.

Affix a permanent label, indicating the date of installation, to the back of each LED signal indication. The Project manager must approve the label and method of attachment.

Supply LED indications as specified above. Three manufacturers that meet this spec are Dialight Corporation, GELcore, and Leotek.