

## Index 521-650 Light Pole Pedestal – Wall Coping

### Design Criteria

***AASHTO LRFD Bridge Design Specifications; Structures Design Guidelines (SDG)***

### Design Assumptions and Limitations

Use this Index with Indexes 521-422, 521-423, 521-427, 521-428, 521-610, 521-820, 515-021, and 521-510 as appropriate.

Anchor Bolts were designed for wind loads on Standard Index 715-002 Light Poles with a maximum 40 foot luminaire mounting height.

The nominal load capacities given should be greater than the computed light pole loads calculated using the LRFD LTS Extreme Event I limit state:

Axial Dead Load = 1.56 kip

Wind Load Moment about Bridge Transverse Axis = 40.6 kip-ft

Wind Load Moment about Bridge Longitudinal Axis = 28.3 kip-ft

Dead Load Moment about Bridge Longitudinal Axis = 1.69 kip-ft

Torsion about Pole Axis = 3.56 kip-ft

Maximum Shear = 1.38 kip

Locate the centerlines of pedestals a minimum 3'-10" away from centerlines of open joints in junction slabs and traffic railings.

### Plan Content Requirements

In the Plans:

Show Light Pole Pedestals on Plan and Elevation wall layout sheets. Use stations or longitudinal dimensions to define pedestal locations. Include anchor bolt diameters.

### Payment

No separate payment is made for Light Pole Pedestals. See Payment Note on the ***Standard Plan***.