Index 6100 Series Wall Copings and Traffic Railings/Junction Slabs

Design Criteria

AASHTO LRFD Bridge Design Specifications, 6th Edition; ***Structures Design Guidelines (SDG)***; ***NCHRP Report 663***, Design of Roadside Barrier Systems Placed on MSE Retaining Walls

A combination MSE wall mounted, precast coping / cast-in-place traffic railing similar to the design included throughout this standard series was successfully crash tested at Terre Armee International (France). See report "Field Test of a "GBA" Safety Barrier Erected on a Reinforced Earth Wall", May, 1982.

Design Assumptions and Limitations

This Index Series provides recommended details of various conditions typically encountered at the interface of retaining walls and other components. Work this Index with project specific details for End Bents, drainage structures and other adjacent features, structures or components.

Plan Content Requirements

In the Structures or Roadway Plans:

Show details and/or cross-sections as required in the Plans. Include cross references to traffic/pedestrian railings heights and shapes, but do not reference the traffic/pedestrian railing Index numbers.

Commentary: Standard bridge traffic railings, when installed on junction slabs require modification to the reinforcement; therefore, do not include a reference to the associated traffic railing Index number, but instead, reference the Design Standards for the junction slab/traffic railing combinations within the Index 6100 Series. These Design Standards show the appropriate cross references to the bridge traffic railings and details for the modified reinforcing steel.

Although the reinforcement for the Index 820 pedestrian railing is similar to that shown within Index 6130, in order to allow for the precast option include a reference to Index 6130 only.

Payment

Item number	Item description	Unit Measure
521-6-3	Concrete Parapet, Retaining Wall Mounted with Sidewalk	LF
521-6-4	Concrete Parapet, Retaining Wall Mounted with Sidewalk and 8' Sound Wall	LF
521-7-1	Concrete Traffic Railing Barrier, Retaining Wall System, F Shape with Sound Barrier Wall, 8' Height	LF
521-8-AA	Concrete Traffic Railing Barrier With Junction Slab	LF