

## NOTES:

1. *Abutment Pile Cap Top and Bottom Longitudinal Reinforcement shall be as per Design Table on Dwg. No. 12.2.11, Part II of this Bridge Manual.*
2. *The horizontal leg of the L-shaped connection bars shall be extended into the precast concrete deck panels beyond the inside face of the abutment diaphragm for a length of:*
  - *for Simple Span Bridges:  
10% of the Span Length + Ld*
  - *for Continuous Span Bridges:  
10% of the End Span Length + Ld*
3. *Closure pour transverse reinforcement bar size and spacing shall be the same as for precast concrete deck panels transverse (primary) reinforcement.*
4. *A = spacing of longitudinal reinforcement as per design table of Chapter 7, Part II of this Bridge Manual.*
5. *Continue stirrups to bridge seat construction joint or to a level just below approach slab support bracket, whichever is higher.*
6. *Minimum Required Primary (Longitudinal) and Secondary (Vertical) Integral Wingwall Reinforcement shall be as per Dwg. No. 12.2.11, Part II of this Bridge Manual.*
7. *Specify the same size and spacing as for Primary Wingwall Reinforcement.*
8. *The Tension Zone Reinforcement shall be of the same size as the Primary Integral Wingwall Reinforcement and shall be distributed throughout the tension zone as shown.*
9. *Each integral wingwall and the adjacent to it abutment cap end block may be constructed as a single precast unit, if the size and weight limitations of such unit for shipping are not violated.*
10. *The Designer shall specify the preferred method of construction. C.I.P. integral wingwall shown. For reinforcement and details of precast integral wingwall/abutment cap end block see Dwg. No. 12.2.7, Part II of this Bridge Manual.*
11. *Check contractibility of NEBT integral abutment bridges on skew. Ensure sufficient clearance between flanges and the back of the abutment for placement of reinforcement and consolidation of concrete. The minimum clear cover between flanges and the back of the abutment shall be 4". The abutment thickness may be increased to accommodate these requirements. Box and Deck Beam ends shall be skewed for this purpose.*
12. *Reinforcement configuration shown is conceptual. The Designer shall modify the arrangement as necessary by design.*
13. *Deck drains shall be specified for all integral abutment bridges with HMA wearing surface and shall be located in relation to the abutment diaphragm as shown on Dwg. No. 7.3.1, Part II of this Bridge Manual.*
14. *Joint may be on skew to accommodate staged construction.*
15. *Mechanical Reinforcing Bar Splicers may be used for abutment to integral wingwall connection.*



LRFD BRIDGE

MANUAL, PART III

## DESIGNER NOTES

PRECAST INTEGRAL ABUTMENTS

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