

TRANSMITTAL MEMORANDUM 95-04

MEMO TO: Design Consultants  
Division of Bridge Design Staff

FROM: J. R. King, P.E. *JK*  
Transp. Engr. Branch Mgr.  
Division of Bridge Design

DATE: October 24, 1995

SUBJECT: Precast Concrete Beam Shop Drawing Check List

Please find attached a check list for Precast Concrete Beams. The designer is responsible for checking that this information is included on all shop plans for Prestressed Concrete Beams.

JRK/rrm

Attachments

KENTUCKY TRANSPORTATION CABINET  
PRESTRESS CONCRETE BEAM SHOP DRAWING  
CHECK LIST

October 1995

Shop Drawings Shall Contain or Indicate The Following Information:

1. AASHTO load design specification used.
2. Type of prestressed beam.
3. A detailed drawing for each different mark number including the total number of stirrups.
4. Dimensions of each beam.
5. Quantity, size, and location of strand.
6. Class of concrete.
7. Detensioning and design concrete strength for each mark number.
8. Drawing of each fabricated bar.
9. Type of prestressing strand required along with preload and initial force load for each mark number.
10. Drawing showing location and the amount of debonding for all debonded strands.
11. Bed layout drawing when draped strands are used.
12. Drawing for voids in box beams showing location and dimensions.
13. Drawing of leveling device for box beams.
14. Tack welding detail showing location of proposed tack welding.
15. List of separate or loose items shipped with beams.
16. Types of hold-down devices.
17. Types of inserts and insert location.
18. Indicate whether deck is to be formed conventionally or stay-in-place (SIP) forms to be used. Detail of weld tabs or coins if SIP forms are used.
19. Clearances from steel reinforcement to face of concrete.
20. Location of the name of trademark of the beam fabricator.
21. Diagram of the detensioning procedure including the order of strand release.
22. Procedure for detensioning draped strands in relation to time of release of hold down devices (critical unless the weight of the beam is twice the total of the forces to hold the strand in the low position in the beam).
23. Type of end treatment required.
24. Bridge bearing pad type and dimensions for non-standard pads.
25. Treatments for shipping (e.s. holes through web) and final treatments (e.g. patching of holes through web).