

B-618-BX

1. All work necessary to fabricate and install the integral parts of the girder (including the intermediate diaphragms, if any, and leveling pads), as shown on the plans, shall be included in the bid price for Item No. 618, Prestressed Concrete Box (), with a pay unit of SF measured by L x W.

2. When approved by the Engineer, a minimum of tack welding will be permitted on ASTM A706 uncoated reinforcing steel.

3. Reinforcing projecting from the top of the girder and reinforcing within eight feet of an expansion device in the bridge deck shall be epoxy coated. The minimum cover for reinforcing steel is 1".

4. Welded wire fabric may be used with D20 wires in lieu of the #4 bars shown.

5. At girder ends not embedded in concrete diaphragms, cut strands off 1" below the surface of the concrete and finish with an approved epoxy grout. At girder ends embedded in concrete diaphragms, cut strands to project 3", except as shown. Do not make cosmetic repairs (damage less than 1/2" deep) to the parts of the airders embedded in concrete.

6. Use low relaxation strands meeting the requirements of ASTM A-416 Grade 270. The minimum clear distance between groups or individual strands shall be $2.3(d_s)$ but not less than $1^{1}/4^{11}$. The minimum cover for prestressing steel is 2".

7. Concrete shall be Class PS. Entrained air is not required for girder concrete.

8. End blocks shall be used on all girders unless otherwise noted.

9. Use $\frac{3}{4}$ " chamfer on all corners except as noted.

10. Predicted camber is the camber for the girder alone at 60 days. Acceptable camber variability is limited to 50% over the predicted camber and 50% under the predicted camber or 1 inch, whichever is greater. The Contractor shall report to the Engineer values of camber which require remedial measures. The remedial measures shall be reviewed and approved by the Engineer. The costs associated with all remedial measures shall be borne by the Contractor. Girders that provide a negative camber after deadload is applied will be rejected unless approved by the Engineer.

11. Side by side boxes placed over roads or pedestrian facilities shall not have cambers of adjacent boxes differ by more than 1" before the deck pour. Prior to placing deck reinforcing, the Contractor shall adjust this differential to within this limit by sorting the boxes to minimize differentials, or by pulling the high boxes

12. Depth (D) tolerance shall be $+\frac{1}{2}$, $-\frac{1}{4}$.

13. The Contractor is responsible for determining necessary bracing requirements, and for providing adequate bracing for the specific wind and weather conditions to be encountered for each specific project.

14. Debonding shall extend in uniformly varying lengths, but not closer than 17 feet to

= Minimum area of the prestressing steel ds = Nominal strand diameter, 0.6" unless noted otherwise f's = Ultimate strength of prestressing steel Fj = Jacking force per girder Ff = Final force per girder after all losses f'ci = Required concrete strength at release of prestress force f'c = Required concrete strength at 28 days of age = Length of girder along the grade of the girde = Deflection at centerline of span due to cast-in-place slab, diaphragms, asphalt, curbs, rails, and walks = Bridge bent angle

Provide appropriate design data and verify X values. Harped designs shall not be used. Provide design data Ifor straight strand debonded designs only. Keyways for side by side boxes shall not be used. Exterior strands are not debonded to provide shear anchoring and torsional Check conflicts between strands and metal sleeve. Eliminate metal sleeve when not

| PRESTRESSED CONCRETE BOX | | | | Project No./Code |
|--------------------------|----------|---------------------------|---------|------------------|
| | | | | Project Number |
| ner: | XXXXXXXX | Structure Numbers | X-XX-XX | Code |
| ler: | XXXXXXXX | | X-XX-XX | |
| t Subset: | BRIDGE | Subset Sheets: BXX of XXX | | Sheet Number |