

## Shop Drawings Checklist – 3 sided and 4 sided culverts

09/16/2022

4 Sided culverts – 12’ span or less, no shop drawing required, covered by AASHTO  
>12’ spans (megabox), shop drawings required as per spec 714.04

3 Sided culverts – shop drawings required for all sizes as per spec 723.03

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- On each sheet, check that the plans indicate the following:
  - Contract Number
  - Des Number
  - Route Number
  - File Number
  - County
  - Structure Description
  - PE Stamp and Signature
  - North arrow
  
- Plan, elevation and cross sections indicating span and rise with all members dimensions and General or Special notes in accordance with the Contract documents to be on the first sheet after the title sheet.
- Structural design criteria: Loading information, material grades.
- Check size & length of box
- Reinforcing details, including sizes, laps or development lengths, minimum concrete covers and position of reinforcing, bar cutting diagrams and bar schedules, etc.
- Minimum reinforcing requirements must be met.
- Limiting elevations and lengths, such as top, bottom, longitudinal and flow line etc.
- Headwall dimensions and details. Cut off wall and details (if any).
- Joint details and wrap over.
- Attachment of culvert to wing wall plus details.
- Geotechnical data table and any special compaction / backfill requirements.
- Footing details & design
- Backfill details
- Design calculations or program output, signed by a PE should be in accordance with the latest AASHTO,ASTM and INDOT requirements. Crack control and minimum reinforcement requirements should be checked.
- Details for top mounted guardrail.
- If Maintenance of Traffic causes any special requirements, these should be noted.