

Oklahoma

State DOT Representative Report Questions

National Concrete Consortium

San Antonio, Texas

April 2, 2009

Theme: Ride Quality for Bridges

Please provide your state DOT's perspective regarding the following theme questions. Each NCC state DOT representative will be asked to present their responses to the group during the State Report forum on Thursday morning April 2, 2009.

1. What features of a bridge deck and approach do you consider to have the most impact on ride quality?

Joints.

2. How does your state measure ride quality for bridge decks?
 - a. IRI?
 - b. Straight edge? **Most 10' straight edge.**
 - b. Other? **California profilograph**
 - c. Specifications?

3. What smoothness thresholds does your DOT require for bridge decks?

For the straight edge, we require 1/8" in 10'. For the profilograph, we require .40" in 25'.

4. How are transitions near localized features (drainage basins, joints) treated in efforts to ensure acceptable ride quality?

No drainage basins. They usually just live with the joints. It is usually exempted from grinding but is considered as ground when incentives are determined.

5. What corrective actions are required for substandard bridge deck/approach ride quality?

Diamond grinding.

6. Does your state initiate a penalty/incentive structure for bridge ride quality?

Rarely but yes on all decks with the profilograph.

7. Does your state consider ride quality as a scoping item for bridge rehabilitation?

No.

8. Does your state require sequencing (casting positive moment regions prior to negative moment regions) of deck pours during placement of bridge deck concrete for continuously designed decks?

Yes, on steel bridges that are continuous.

9. What method and type of texture does your state apply to your bridge deck surface?

Transverse tining or transverse saw cut tines.

10. How does your state handle transitions/approaches from pavement on to the bridge deck (approach length, profile, joints)?

Many different ways.

11. Does your state maintain a database for bridge ride quality?

No.

12. How does your state report its network ride quality for pavements and bridges to the Highway Performance Monitoring System (HPMS) database (network report excludes or includes bridges with pavements)?

We don't.