Concrete Paving Field Inspection Inspector's Workshop

What about all of the other road building stuff?

National Concrete Pavement Technology Center

IOWA STATE UNIVERSITY

Institute for Transportation

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Concrete Paving Field Inspection Inspector's Workshop

- 1. Why are we here?
- 2. How do we achieve quality for PCC paving?
- 3. Got a project....Now what?
- 4. What is concrete?
- 5. What kinds of equipment are used?
- 6. What happens before you start paving?
- 7. What happens when you're finally paving?
- 8. What is the inspector's role?
- 9. What about all of the other road building stuff?
- 10. What do you look for in urban paving?
- 11. What paperwork?



Instructor



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Representing the National Concrete Pavement Technology Center

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WHAT ABOUT ALL OF THE OTHER ROAD BUILDING STUFF?



Earth Shoulder Construction

- Constructed after mainline has reached opening strength
- Complete prior to subdrain work
 - ➤ Provides better drainage
- Materials hauled in dump trucks
- Spread with dozer







Protect the Edge

- Run construction traffic in center of new paving
- Protect the edge







Longitudinal Subdrains

- Trench construction
- Placement of subdrain and backfill
- Porous backfill placed from trucks to conveyor
- Compaction with vibratory compactor or trench rollers
 - ➤ Number of lifts & compaction vary with depth







Subdrain Outlets

- Locations per drawings and low points
- Outlets may be covered with crushed stone / porous rock
- Final location should be marked







Shoulder Restoration - Granular

- Granular material
- Subgrade should be graded to correct elevation for specified granular thickness
- Granular material placed with shouldering machine
- Roller compacted
 Do not run roller on edge!









Shoulder Restoration - Paved

- Check subgrade for grade and compaction
- Thickness per drawings (typ. 6"-8" for PCC)
- Protect pavement edge





Summary – What about the other road building stuff?

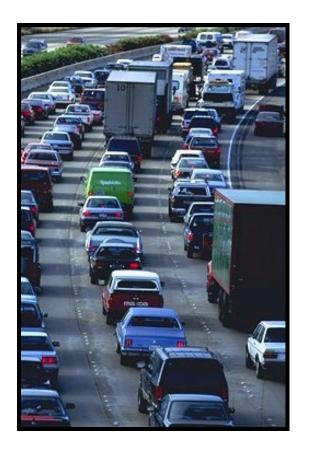
- Earth shoulder
- Subdrain & drainage
- Shoulder restoration
 - >granular & paved shoulders







THANK YOU!



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