

Longitudinal Joint Density SSP

Pennsylvania Department of Transportation

Joint Density SSP

- New Standard Special Provision on Joint Density
- Districts can use as needed on projects where Section 405 is not applicable
- Contractor uses gauge readings for QC as paving occurs (minimum 91.0%)
- Gauge readings every 500 feet (both supported and unsupported edges)



When? What projects?

- New Standard Special Provision on Joint Density for projects let after April 3, 2015
- Use guidelines...

Use on Superpave paving projects where **density acceptance is by pavement cores**, as resources allow, to provide a density requirement on longitudinal joints. Use of this special provision will require the District to allocate **Materials inspection staff to testing locations to perform, witness or review testing of cores**. Do not use on paving projects which have an item for Section 405 Longitudinal Joint Density Payment of Incentive/Disincentive, or when density acceptance is not by pavement cores.

Review of criteria for Section 405

- Section 405 incentive/disincentive spec applicable to...
 - RPS pavements regardless of network
 - Pavements on the National Highway System

- 1) Must have at least 12,500 of testable joint
- 2) density acceptance by pavement cores

How did we get here?

- PennDOT is very satisfied with the success of the Section 405 joint density spec
- This spec however does not apply to the majority of our pavements (non RPS/NHS)
- In 2013, ADE-C's listed improving joint density on the rest of our network as a priority
- A workgroup used a District 1-0 special provision as the baseline for this SSP

Joint Density SSP

- Only for projects where density acceptance is by pavement cores
- Take joint cores at the same station in every subplot as the mat density cores



Joint Density SSP

- Joint cores tested at plant by either Dept. inspector or plant technician (Dept's option)



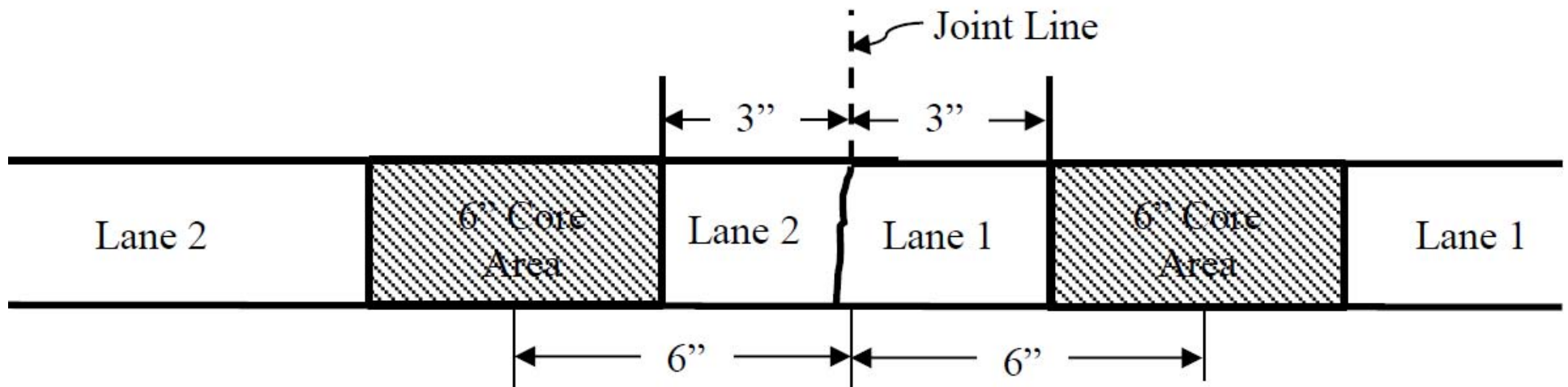
DEPARTMENT OF TRANSPORTATION

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Testing Locations

- Gauge readings and cores taken centered 6 inches from the visible joint line

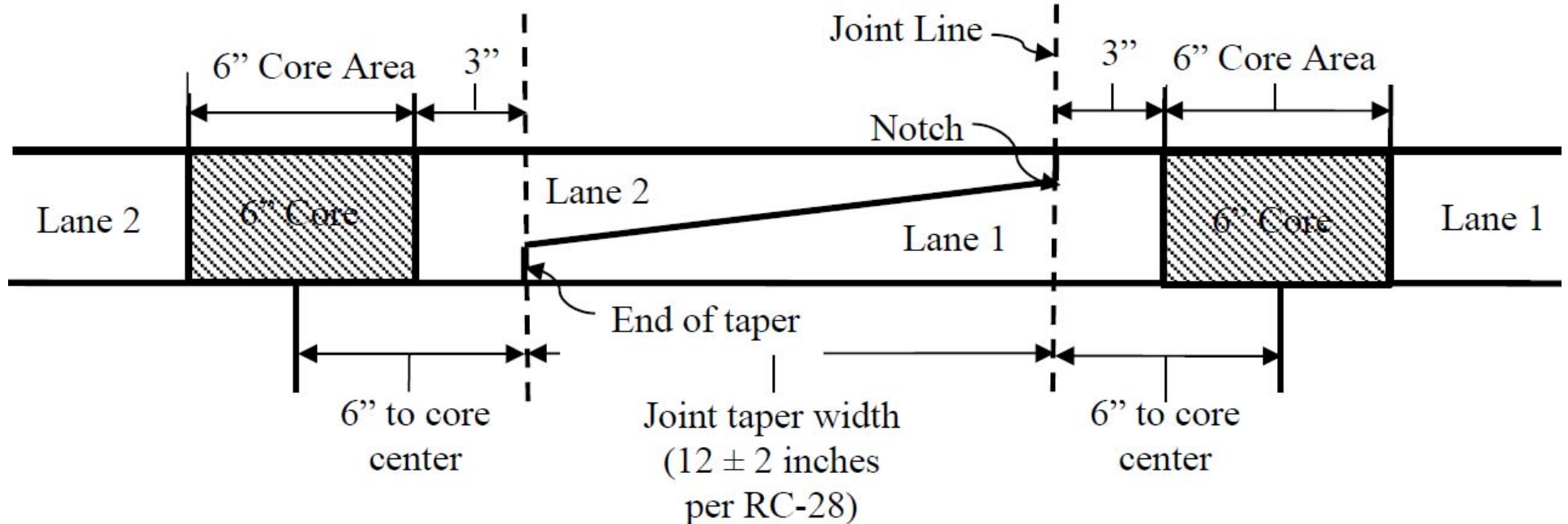
Vertical Joint



Testing Locations

- Gauge readings and cores taken centered 6 inches from the edge of joint line

Notched Wedge Joint



Cores to Correlate Gauges

- Values from the joint cores will be used to correlate the gauges being used for QC on the project.
- Test results on cores to project within 48 hours of cutting them
- If the running average of last 5 cores falls below 91.0%, stop paving, determine cause, make necessary adjustments (including additional equipment, resources)



Questions?