

STANDARD NOTES ON PLANS - CONCRETE PAVEMENT for LOCAL ROADS

Pavement Type

- Plain Jointed

Concrete Strength

- Nominal concrete strength shall be 4500 psi compressive/650 psi flexural or 3500 psi compressive/550 psi flexural (*select one*) in accordance with the Specifications.

Surface Type

- Provide a surface finish appropriate for the planned speed zone in accordance with the Specifications.

Transverse Joints

- Maximum transverse joint spacing is XX feet. Minimum transverse joint spacing is 8 feet.
- Provide positive load transfer at all longitudinal joints with 1.0 inch smooth steel dowels, 18 inches long, 12 inches c-c meeting the requirements of the Specifications when the plan pavement thickness is 7.5 inches or greater.
- Submit diagram of chair assembly to the Engineer for approval prior to construction.

Longitudinal Joints

- 15 foot maximum longitudinal joint spacing
- Tie all longitudinal joints, *including/not including (select one)* concrete curb and gutter, with #4 deformed reinforcing steel bars, 30 inches long, 30 inches c-c.
- Place longitudinal joints along lane edges wherever possible. When conditions necessitate, such as when the lane is wider than 15 feet, place longitudinal joints in the center of the lane. Do not place longitudinal joints in the wheel path except in areas of converging lanes where traffic will be crossing the longitudinal joint.

Initial Joint Saw Depth

- Make initial saw cut depth at least the actual depth of the pavement divided by 4 and no greater than the actual depth of the pavement divided by 3.

Joint Layout

- Submit proposed joint layout meeting the above requirements to the Engineer for review and approval at least 14 days prior to construction.

Joint Sealing

- Seal all longitudinal and transverse joints
- Sealed joint width 3/8 inch. Follow manufacturer's published installation recommendations for other seal dimensions including joint reservoir depth, backer rod diameter, sealant bead thickness, and sealant recess.
- At PCC to PCC joints, including concrete curb and gutter, use silicone sealant.
- At PCC to HMA joints use hot pour sealant
- Use only sealants conforming to applicable NCDOT Specifications, intended by the manufacturer for sealing joints in concrete pavement, and appearing on the NCDOT Approved Products List.

- Provide the sealant manufacturer's installation instructions to the Engineer prior to construction and install sealant according to the manufacturer's published recommendations.