placed mid-depth in the slabs. Dowels should be 1 inch in diameter with a center to center spacing of 12 inches and a dowel length of 18 inches.

Thickened-edge expansion joints are recommended in areas where the new concrete pavement abuts the structure. Expansion joints should be constructed full depth with a non-extruding preformed compressible material at least ¼ -inch thick then sealed. The thickened-edge of the new pavement should be at least 2 inches thicker than the normal slab thickness and tapered over a minimum distance of 4 feet. A thickened edge should also be provided on outside edges of the pavement where traffic is anticipated.

Contraction joints should be spaced at a maximum of 15 feet. The joints should be saw cut and sealed to a depth of at least ¼ of the slab thickness. Construction joints should be placed to coincide with transverse contraction joints. Dowels should be used at all longitudinal construction joints for load transfer. Longitudinal joints (parallel to the line of construction) should be spaced similarly to contraction joints. Transverse construction joints should have thickened edges.

## USER RELIANCE

This report (and any related documents, plans or specifications) is provided by TTL for the sole and exclusive use and reliance of Lowndes County in accordance with the agreed upon terms and conditions. All copies of this report provided to third parties are for informational purposes only absent a Secondary Client Agreement. Under no circumstances may a third party rely upon any TTL reports, documents, plans or specifications without first executing a TTL-approved Secondary Client Agreement. No disclosure to third parties for reliance without an approved and executed TTL Secondary Client Agreement on file with TTL is approved or intended by TTL and any such third party may not rely on our reports, documents, plans or specifications.

## CLOSURE

We appreciate the opportunity to work with you on this project. If you have any questions, please call us at (229) 244-8619.

Sincerely,
TTL, Inc.

Richard D. Heckel, P.E., D.GE (PE in TN)
Chief Geotechnical Engineer

Matthew L. Gaston, P.E.
Principal Engineer
Georgia Reg. No.: PE034150