



# Civil Engineering PAVEMENT MANAGEMENT



I&S has established pavement management programs for several local communities as a tool to guide them in formulating future budgets and capital improvements. Pavement management is a useful planning tool on its own, or in conjunction with a geographic information system.

The condition the road network is inspected and a pavement condition index (from 0-100) is assigned based on observed pavement distresses. Conditions such as cracking, bleeding, and patching are classified and measured to provide a quantitative analysis of the pavement condition. This information can be analyzed in tabular fashion to formulate maintenance schedules, or identify streets in need of patching, overlay, or reconstruction. When combined with the graphical display capabilities of GIS, it provides an overall view of the condition of the City's streets at a glance, and provides sound justification for maintenance and reconstruction spending decisions.

It is recommended that the streets included in the program are evaluated on a regular basis, typically every three years. The inspection can be performed on the entire network every three years, or, on larger systems, a portion of the streets can be analyzed each year. This regular routine of inspection provides perhaps the most useful results from a pavement management program – the ability to project the useful life of pavements and analyze the cost effectiveness of various rehabilitation options.

If you would like to learn more about setting up a pavement management program for your community, please contact one of our civil engineers at an office listed to the left.

I&S Group offers a wide range of civil engineering services including municipal services, commercial and residential development, hydrology and hydrologic analysis, water supply and sewerage, transportation engineering, agricultural drainage, and geographic information systems (GIS).

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