City of Greenville, NC | Pavement Management System

*** Vendor: Enter your name/product here ***

CODE	Availability Definition
Y	Functionality is provided out of the box through the completion of a task associated with a routine configurable area that includes, but is not limited to, user-defined fields, delivered or configurable workflows, alerts or notifications, standard import/export, table driven setups, and standard reports with no changes. These configuration areas will not be affected by a future upgrade. The proposed services include implementation and training on this function, unless specifically excluded in the Work Plan, as part of the deployment of the solution.
R	Functionality is provided through reports generated using proposed Reporting Tools.
T	Functionality is provided by proposed third-party functionality (i.e. third party is defined as a separate software vendor from the primary software vendor). The pricing of all third-party products that provide this functionality must be included in the cost proposal.
M	Functionality is provided through customization to the application, including the creation of a new workflow or development of a custom interface, that may have an impact on future upgradability.
F	Functionality is provided through a future release that is to be available within 1 year of the proposal response.
N	Functionality is not provided.

Note: Place the appropriate code (Y,R,T,M,F, or N) in the Availability column. Please indicate any additional cost in meeting the requirement. Any cost that would be in addition to the standard product in order to meet the requirement must be identified here. Supply comments for clarification or additional information as needed.

City of Greenville, NC | Priority - High, Medium, Low

No.	Application Requirement	Priority	Availability	Cost	Comment
1	**Software System Requirements**	.			
2	The pavement management system (PMS) should allow the agency to maintain a road segment network inventory and support a long-term maintenance, rehabilitation, and/or replacement strategy for the network.	High			
3	The pavement management system should be a secure, web-based solution.	High			
4	The pavement management system setup should require minimal staff, effort, and IT resources to implement.	High			
5	The solution must be accessible using various internet browsers, including Microsoft® Edge, Google® Chrome, and Mozilla Firefox®.	High			
6	It is preferred that the solution be a software-as-as-service (SaaS) deployment to reduce up-front implementation costs and eliminate long-term IT system maintenance.	High			

7	The pavement management system shall be accessible to various users across agency departments and locations, as defined by the designated system administrator.	High			
8	The system administrator must be able to add or remove users, assign administrative unit(s) that a user can specify when logging on, and assign one or more user security profiles.	High			
9	**Data Management Requirements**	.			
10	The pavement management system must have the capability to import and consolidate historical and current datasets, including but not limited to:				
11	Roadway segment inventory	High			
12	Pavement condition data	High			
13	Construction history data	High			
14	Traffic data (average daily traffic)	Med			
15	Ancillary assets including sidewalks, ADA ramps, roadway, parking lots and structure data	High			
16	The pavement management system must have the capability to calculate pavement condition index (PCI) according to ASTM D-6433.	High			
17	The pavement management system must have the capability to manage roadway inventory of pavement segments, history, and attributes.	High			
18	**Decision Trees and Performance Models**	.			
19	The pavement management system must have the capability to create new or use pre-configured decision trees (graphical trees to define criteria that help determine treatment strategies).	High			
20	The pavement management system must have the capability to provide out-of-the-box performance models to help predict future pavement performance based on various criteria.	High			
21	The pavement management system must have the capability to use deterioration models/curves to accurately forecast the future condition of each pavement segment.	High			
22	**Analytics**	.			
23	The pavement management system must have the capability to calculate the timelines required to preserve, rehabilitate, or reconstruct each pavement segment.	High			
24	The pavement management system must have the capability to support the definition and execution of multiple what-if scenario analyses across the road network to facilitate work planning.	High			
25	The pavement management system must have the capability to support multiple period and multiple constraint analyses across the road network to facilitate work planning.	High			
26	The pavement management system must have the capability to generate optimal work plans for various budgets, roadway performance targets, and time frames that will result in higher network performance ratings over the long term.	High			
27	The pavement management system must have the capability to generate budget scenarios forecasted out 15 years.	High			
28	**GIS Capabilities**	.			

29	The pavement management system must have the capability to provide full-featured GIS capabilities enabling users to view multi-layer maps showing current and future road network performance, work plans, project locations, etc.	High			
30	The pavement management system must have the capability to provide map-based visualizations of geolocated data to correlate against the road network and to create new maps for deeper analysis.	High			
31	The pavement management system must integrate with Esri® ArcGIS products to provide expanded mapping and spatial analysis capabilities.	High			
32	**Dashboards and Reporting**	.			
33	The pavement management system must provide configurable dashboard views that summarize key metrics, such as current road network performance and performance trends.	High			
34	The pavement management system must provide out-of-the box reports that summarize key information using different reporting methods and formats.	High			
35	The pavement management system must allow users to create ad hoc reports, as needed.	High			
36	**Systems Integration**	.			
37	The pavement management system must have the capability to integrate with the agency's existing software systems, including:				
38	Esri® ArcGIS products	High			
39	Tyler Munis Work Order Management	Med			
40	**Technical**				
41	The pavement management system must adhere to the City's Information Technology environment standards for databases, operating system, Active Directory, LDAP (Lightweight Directory Access Protocol) and hardware.	High			
42	The pavement management system must integrate with Microsoft Active Directory.	High			
43	The pavement management system must provide password control, audit trail by sign-on and user id security.	High			