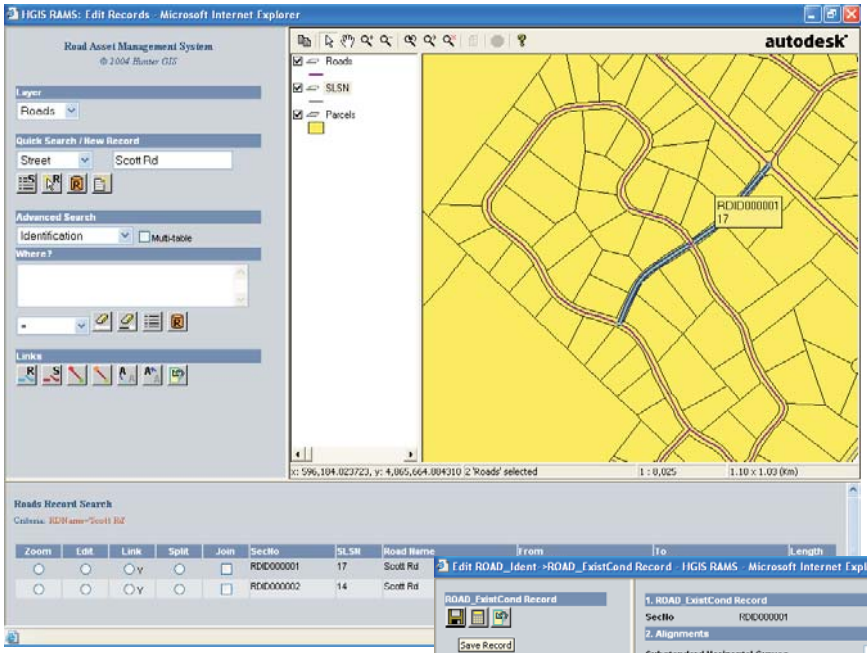
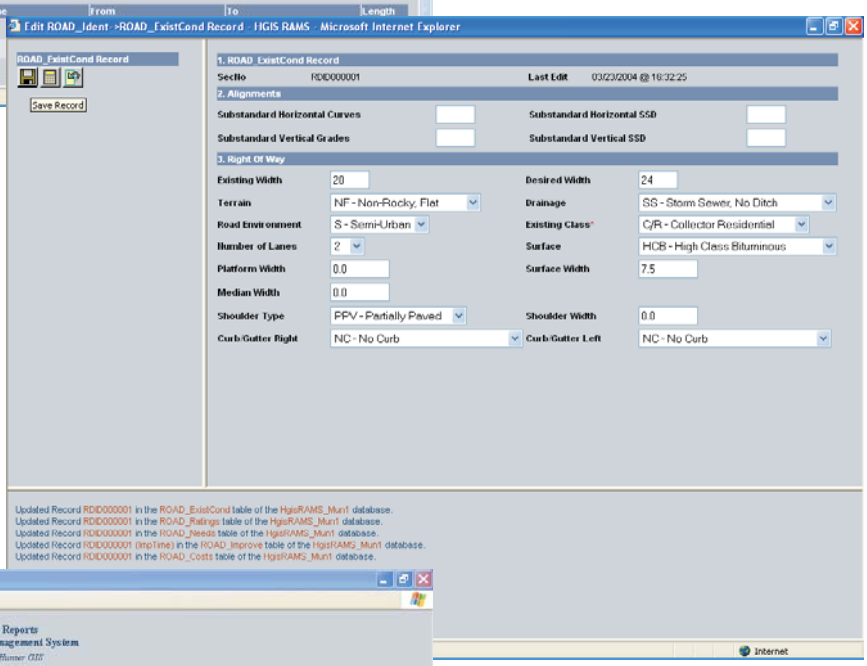
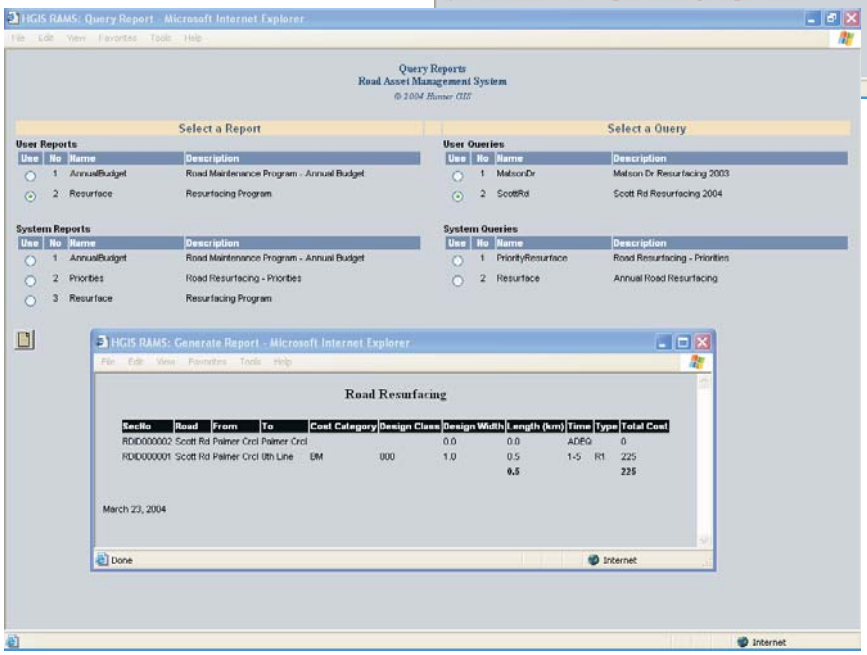
Road Asset Management System



- Inventory
- Inspections
- Condition
- Performance
- Prioritization
- Budgeting



- Integration with parcel tax assessment database
- Based on Ontario Ministry of Transportation Standards
- Automatically computes ratings, needs and resurfacing/reconstruction costs
- Query and Report Managers for customized output
- Manages all road related assets (bridges, culverts, signs, lights, etc.)



- Comment, Inspection and Imagery records
- Thematic query for spatial analysis of road conditions
- Import from RIMS databases
- Audit and activity reporting
- Browser-based (MS IE)
- Customizable templates
- Built on Autodesk MapGuide

Autodesk Authorized Developer

Hunter GIS Solutions for Autodesk MapGuide

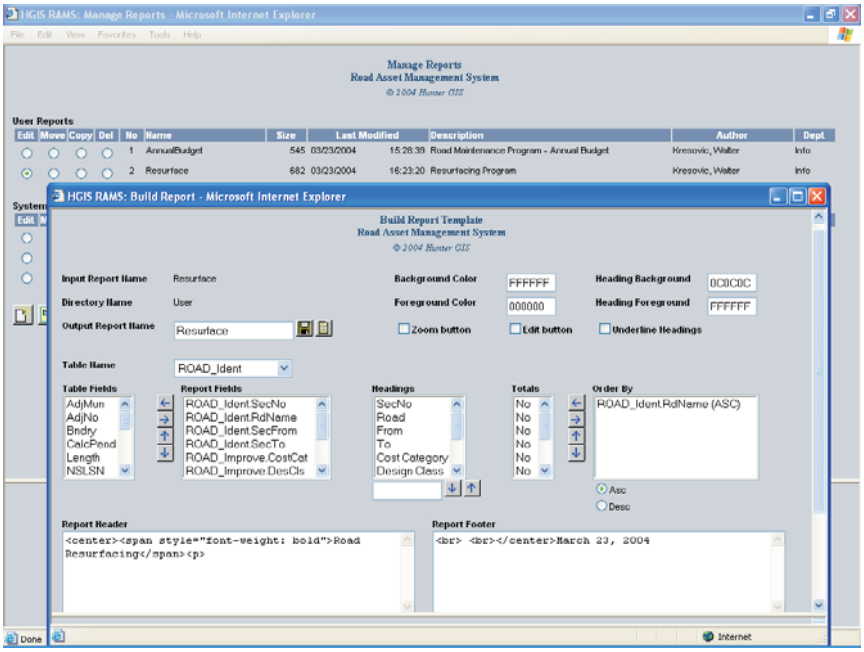
Tel: (905) 607-4120 Web: www.hunter-gis.com

HUNTER GIS

Road Asset Management System

Introduction

The Hunter GIS Road Asset Management System (RAMS) is designed to maintain and monitor the full range of assets associated with municipal roadways. The RAMS is a tool for analyzing the current and possible future state of road conditions in order to determine budgets required for road improvements.



The basis of the system is the Single Line Street Network (SLSN). Each RAMS sections consists of one or more SLSN segments. Roadside assets, such as bridges and culverts, are linked to the RAMS section along which they are located. In addition, an X,Y location may be recorded for each asset for map display purposes.

The RAMS consists of a suite of database tables and Cold Fusion templates that may be customized to suit the particular requirements of a municipality. The RAMS provides the following:

- inventory of road assets: bridges, culverts, rail crossings, traffic lights, street lights, signs, crosswalks, curbs, entrances, medians/boulevards, ditches, storm sewer outfalls, catch basins, manholes and trees;
- integration of the application with the Tax Assessment Parcel database, thereby ensuring consistency between datasets;
- the use of a Data Dictionary to define fields and values;
- recording of traffic surveys, comments, inspections and imagery;
- on-screen editing of the SLSN and linkage to the RAMS;
- automated calculation of ratings, needs and benchmark costs according to Ontario Ministry of Transportation standards;
- thematic mapping to categorize assets (eg. by type of improvement or road condition);
- Query and Report Managers to generate customized reports;
- import data from RIMS databases;
- audit and activity reporting by user.

The HGIS Road Asset Management System is designed to integrate with Autodesk's MapGuide and is database independent.

The RAMS utilizes Cold Fusion, JavaScript, VBScript and the MapGuide Viewer API; there are no CGI programs. As a result, the system is accessible and customizable. By following the User's Guide and the comments embedded in the code, a qualified user can modify the code to meet specific municipality requirements.