



A Technology Upgrade for KDOT's Truck Routing Information System (TRIS)

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Why TRIS?

- Improve the process for routing OS/OW vehicles
- Replace the paper shuffling
- Integrate the pockets of data/processes

Why not Automated Routing?

- Most truckers/permit officers know which routes they want to take/review
- Much less expensive to develop and implement
- Less work needed on base map – eliminates the need for ramps, divided highways, etc.

TRIS Core Functions

- Attribute Windows for all Routing Features with Multi Media Support
- Truck Information Controller
- Build Route:
 - Route
 - Single/Multiple Segment
 - Begin/End Segment

TRIS Core Functions - continued

- Interface to BRASS
 - Bridge Rating and Analysis of Structural Systems
- Full concurrent (rider) route support
- Feature Locator
- Save and Load Session
- Automatic generation of Height and Weight Restriction maps (PDF format)

TRIS Routing Features

- Bridges
 - Posted & restricted separate
- Interchanges
- Sign Trusses
- Construction/Detour Events
- Highways

Why the Technology Upgrade

- Better overall appearance
- Better performance
- Better architecture aimed at efficient maintenance and enhancements
- .NET is a KDOT standard
- More control with SVG vs CGM

The Upgrade Plan

- Multiple Work Orders that focus on key components
 - Revised:
 - Technical Design
 - Base Map
 - Routing
 - Rider Route/Concurrency
 - Superload/BRASS
 - Order & Complete forms
 - Added Security
 - Deployment (final work order)

Scaleable Vector Graphics (SVG) Advantages

- Statewide Base Map
 - Dynamic
 - File Size 138KB vs. 676KB
 - No map size penalties
- Plug-in Support
- W3C Standards
- Vector Graphics
- Control

.NET Advantages

- KDOT Standard
- A Compiled OOP Language
- Single Map Image Output
- Shorter Development Time
- Lower Maintenance Cost
- Business Logic separate from Display (GUI)
- Extensible

TRIS Demonstration

KDOT Truck Routing Information System (TRIS) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://10.91.2.3/tris2_dev/default.htm Go

Kansas Department of Transportation
... Responsible & Responsive

"...to provide a statewide transportation system to meet the needs of Kansas."

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reset save load print help height restriction posted/restricted

Build Route Mode

- Route
- Segment
- Begin/End Segments

Permit Information

Move Date: 3/23/2006

Origin:

Dest:

Truck Information

Type: Truck-Tractor (TT)

GVW: 80,000 lbs.

Length: 0 ft. 0 in.

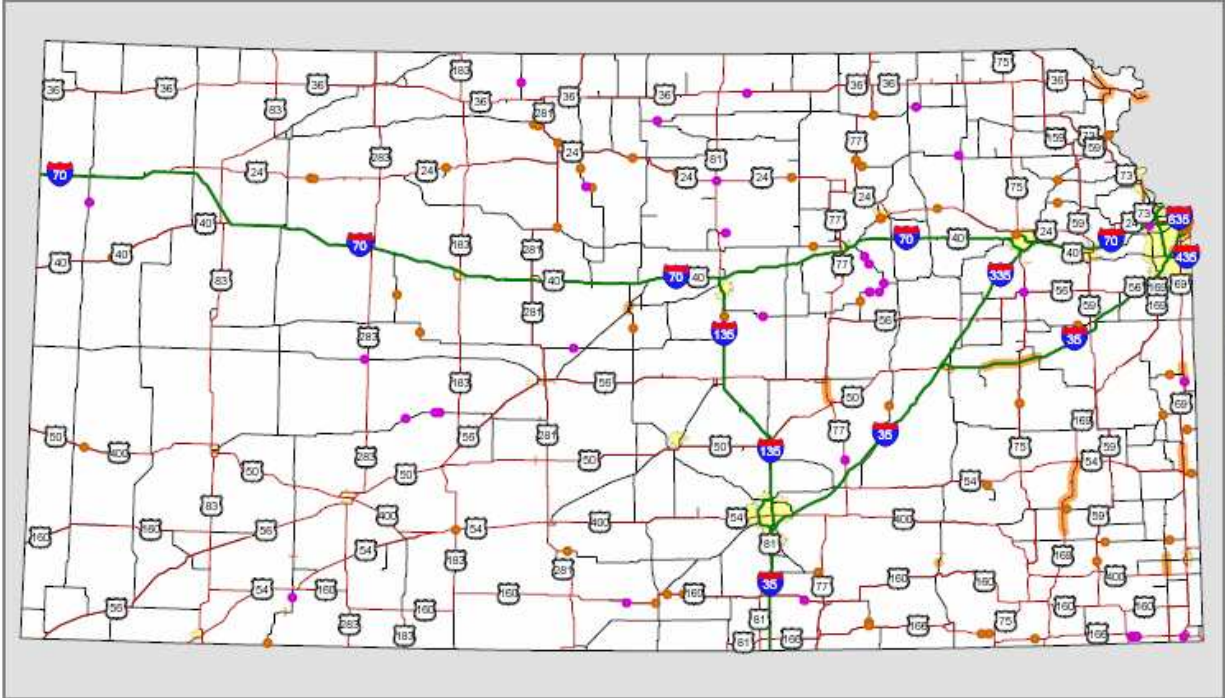
Height: 14 ft. 0 in.

Width: 8 ft. 6 in.

Superload

route legend locate

zoom in zoom out zoom box re-center fit last fit route fit state



Map Size: 1 2 3 4 5

Done (2) Microsoft Office PowerPoint Internet

Questions?

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