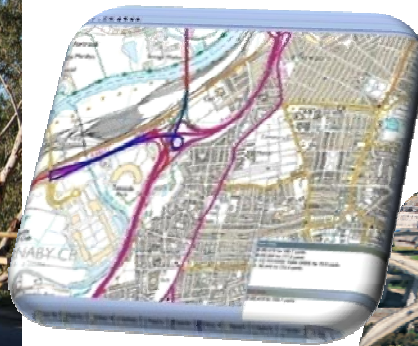


Automated Permitting and Routing for Oversized and Overweight Vehicles

WASHTO 2011

Jay Adams, Oklahoma Department of Transportation



Evaluation for Legislature

Business Problem

- *Rapid Growth of OS/OW Permits and unacceptable times to provided safe routes and permits*

Solution

- *Develop an Internet based Routing and Permitting Solution, generate permits in a timely manner, provide a 24 hour web service and maintain public safety*

Benefits

- *Trucking Industry can maintain their critical schedules and the State doesn't sacrifice public safety*

Anticipated Long-Term Benefits

- *Increased economic development for a friendlier business environment and overall cost savings to the State in better management operations*

Future Plans and Strategy

- *Work with surrounding states to look at possible OS/OW Permitting and Routing in the Cloud for a single permitting source for multiple states*

Business Problem

- Increased safety and protection of the infrastructure
- Experienced exponential growth in OS/OW truck traffic
 - Agriculture, Oil, and Gas Industries power the Oklahoma Economy
 - Issues more than 200,000 permits per year (~800 per day)
 - Limited resources to fill the requests
- Increased pressure by the trucking industry
 - Carriers were waiting three days to a week for a permit
- Economic issues were prevalent
 - Delay in permits encouraged carriers to operate without a permit



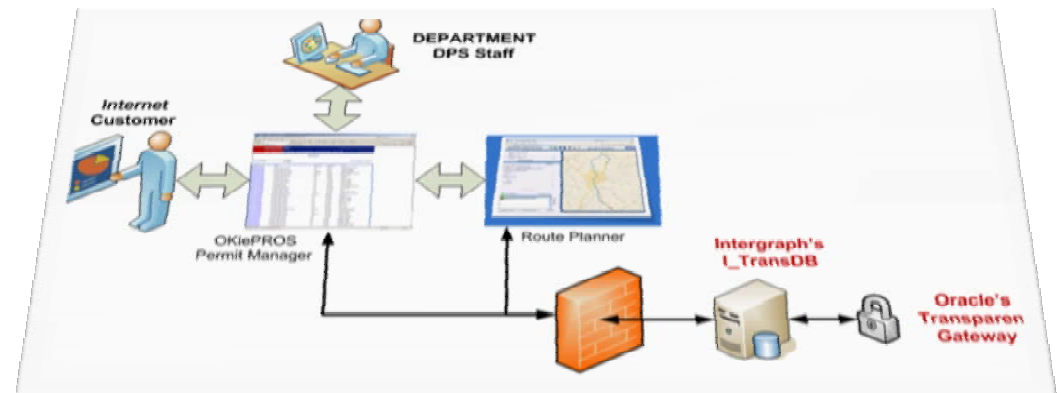
Project Goals and Functionality

The Project Provides

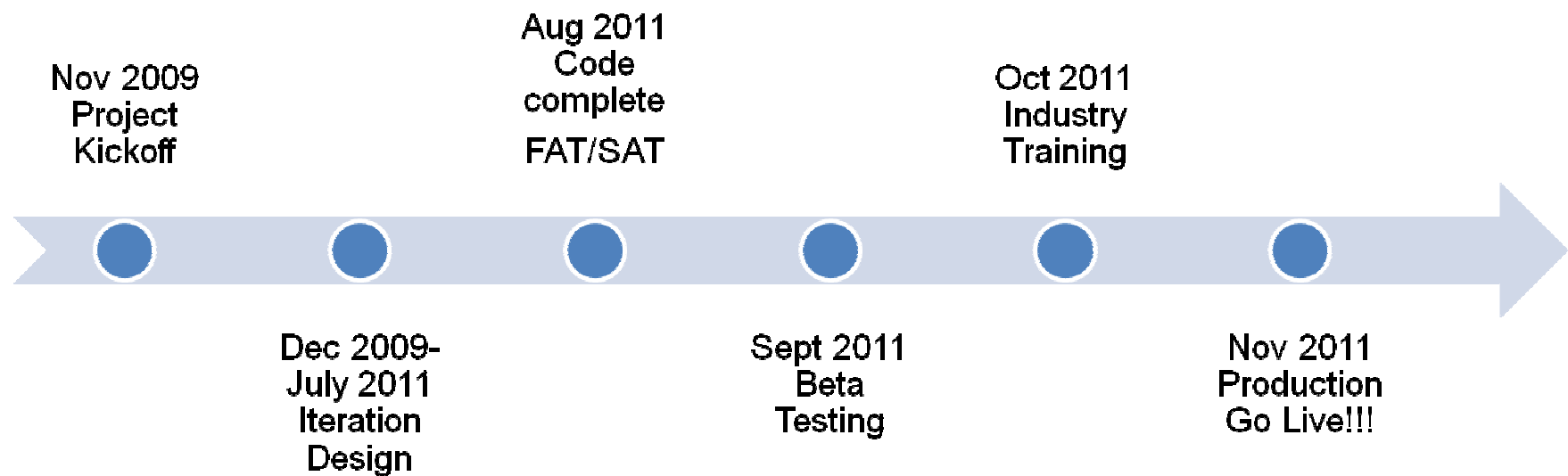
- ***DPS/DOT customers the ability to:***
 - Submit a permit request electronically
 - Generate safe routes automatically
 - Pay for and receive permits electronically
- ***DPS/DOT with ability to:***
 - Keep pace with OS/OW permits demand
 - Preserve roadway infrastructure
 - Ensure public safety
 - Improve customer service
 - Enable monitoring and analysis

Through Key Components

- ***Permitting***
- ***Routing***
- ***Restriction Management***
- ***Administration***
- ***Data Integration***



Project Approach / Timeline



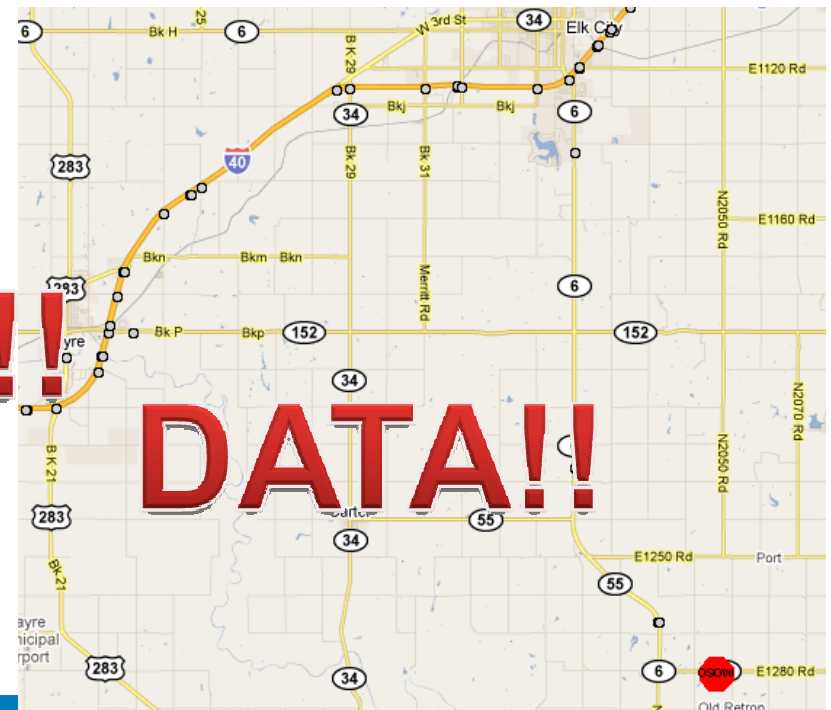
Technical Challenges

- Cutting edge technology
- IT Infrastructure to support the application
- Conflation of Roadway and PONTIS Data to NAVTEQ
 - Positional Accuracy
 - Assignment to Road vs Ramps or both
 - On-structure vs over / under
 - Bridge Ratings and Vehicle Classification
 - Alignment of route identification with NAVTEQ Road Names

DATA!!

DATA!!

DATA!!



Applying for a permit

Select a Permit to Review - Windows Internet Explorer

http://okieprospm:7001/okiepros/manapproval/ManagerReviewQueue.action

File Edit View Favorites Tools Help

Google Search

Select a Permit to Review

OKLAHOMA DEPARTMENT OF PUBLIC SAFETY

Home Apply For Permits Company Application Search Payment Management Log Off Help

Welcome: super

Select a Permit to Review

Manager Queue

Submitted Date	Application Id	Start Date	Status	Purchasing Company	Carrier	Outcome	Awaiting # Documents	Needs Info
3/11/11	20110311000022	3/11/11	In Manager Review		BAKER TRUCKING	N/A		

Agent Queue

Application Id	Carrier	Start Date	Status	Vehicle Load	Awaiting # Documents	Needs Info
20110311000023	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000025	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000026	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000028	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000029	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000030	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000033	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000034	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000035	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000036	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000037	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000038	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000041	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000045	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000046	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000047	BAKER TRUCKING	3/11/11	Pending Agent Review			
20110311000048	BAKER TRUCKING	3/11/11	Pending Agent Review			

Weight Specialist Queue

Application Id	Carrier	Start Date	Status	Vehicle Load	Awaiting # Documents	Needs Info
----------------	---------	------------	--------	--------------	----------------------	------------

All Other Queues

Submitted Date	Application Id	Start Date	Status	Purchasing Company	Carrier	Outcome	Awaiting # Documents	Needs Info
3/11/11	20110311000021	3/11/11	In Agent Review		BAKER TRUCKING	N/A		
3/11/11	20110311000024	3/11/11	In Agent Review		BAKER TRUCKING	N/A		

Local intranet | Protected Mode: Off

100%

Select a Permit to Review - Windows Internet Explorer

https://permitmanager.intergraph.com/okiepros/manapproval/AgentReview

File Edit View Favorites Tools Help Convert Select

Select a Permit to Review

OKLAHOMA DEPARTMENT OF PUBLIC SAFETY

Home **Apply For Permits** Company Application Search Payment Management Log Off Help Welcome: agent

Select a Permit to Review

Agent Queue

Application Id	Carrier	Start Date	Status	Type	Awaiting # Documents	Needs Info
20110127000022	BAKER TRUCKING	1/27/11	Pending Agent Review	GENERAL		
20110127000023	BAKER TRUCKING	1/27/11	Pending Agent Review	GENERAL		
20110127000024	BAKER TRUCKING	1/27/11	Pending Agent Review	GENERAL		
20110127000025	BAKER TRUCKING	1/27/11	Pending Agent Review	GENERAL		
20110127000026	BAKER TRUCKING	1/27/11	Pending Agent Review	GENERAL		
20110127000027	BAKER TRUCKING	1/27/11	Pending Agent Review	GENERAL		
20110127000028	BAKER TRUCKING	1/27/11	Pending Agent Review	GENERAL		
20110127000029	BAKER TRUCKING	1/27/11	Pending Agent Review	GENERAL		
20110127000030	BAKER TRUCKING	1/27/11	Pending Agent Review	GENERAL		
20110127000031	BAKER TRUCKING	1/27/11	In Agent Review	GENERAL		

Weight Specialist Queue

Application Id	Carrier	Start Date	Status	Type	Awaiting # Documents	Needs Info
----------------	---------	------------	--------	------	----------------------	------------

Release 1.11.13

Done Internet 100%

Apply For Permit - Windows Internet Explorer

https://permitmanager.intergraph.com/okiepros/appsubmission/permitapp... Live Search

File Edit View Favorites Tools Help Convert Select

Apply For Permit

Home Apply For Permits Company Application Search Payment Management Log Off Help Welcome: agent

Apply For Permit

save as draft cancel continue >>

General

Application ID: TBD

Permit Service:

Carrier: * OKLAHOMA TRUCKING

Provisional: ☐

Reference Num:

Carrier Unit:

Permit Duration: * SINGLE

Permit Subtype: * OVERSIZE

Permit Type: * GENERAL

Configuration: * TRUCK AND TRAILER

Additional Travel Dates: * 02/22/2011; 02/23/2011;

Start Date: * 02/21/2011

Walk in: ☐

No Fee: ☐

Emergency: ☐

Oversize

Height (ft-in): * 13-9

Width (ft-in): * 10-6

Total Length (ft-in): * 60-1

Pike Pass Number:

Forward Overhang (ft-in):

Trailer and Load Length (ft-in): * 50-1

Gross Weight (lbs): * 60000

Rear Overhang (ft-in):

Truck

Make: * FORD

Year: * 2007

Tag Number: * 1546574

Tag State: * Oklahoma

I attest movement can maintain turnpike speed (50 mph): ☒

I attest movement can maintain Interstate speed (40 mph): ☒

Internet 100%

Apply For Permit - Windows Internet Explorer

https://permitmanager.intergraph.com/okiepros/appsubmission/permitapp

File Edit View Favorites Tools Help Convert Select

Apply For Permit

Page Tools

Reference Num:

Carrier Unit:

Permit Duration: * SINGLE

Permit Subtype: * OVERSIZE

Permit Type: * GENERAL

Configuration: * TRUCK AND TRAILER

Additional Travel Dates: * 02/22/2011; 02/23/2011;

Start Date: * 02/21/2011

Walk in: ☐

No Fee: ☐

Emergency: ☐

▼ Oversize

Height (ft-in): * 13-9

Width (ft-in): * 10-6

Total Length (ft-in): * 60-1

Pike Pass Number:

Forward Overhang (ft-in):

Trailer and Load Length (ft-in): * 50-1

Gross Weight (lbs): * 60000

Rear Overhang (ft-in):

▼ Truck

Make: * FORD

Year: * 2007

Tag Number: * 1546574

Tag State: * Oklahoma

I attest movement can maintain turnpike speed (50 mph): ☒

I attest movement can maintain Interstate speed (40 mph): ☒

▼ Trailer / Load

Make: * C & W MANUFACTURING

Year: * 1996

Tag Number: * 549843

Tag State: * Illinois

Load Serial Number: 15-988436

Load Description: * Manufacturing parts

Newly Manufactured?: ☐

Lowboy-style Trailer: ☐

save as draft cancel continue >>

Route
New Load Save
Manage ☐ Display prohibited route

Dimensions
Height: 14' 0" Width: 8' 5"
Length: 14' 7" Weight: 90000lbs

View
Vehicle Magnifier
Restrictions

Options
Settings
Reset

Welcome, super
Route Planner (Iteration 11.2)

Routing

Route

Path

<Enter Origin>

<Enter Destination>

Generate Apply to Permit

Driving Directions

Driving directions to
Travel Estimate: ft /

Legend

- Base Maps
- ☐ OSOW Map
 - ☐ OSOW Imagery
 - ☒ Google Streets
 - ☐ Google Physical
 - ☐ Google Hybrid
 - ☐ Google Satellite
 - ☐ Bing Maps
 - ☐ Bing Hybrid
 - ☐ Open Street Map
- Layers
- ☐ OSOW Roads
 - ☐ National Highway System
 - ☐ Permanent Restrictions
 - ☐ Temporary Restrictions

Route Planner - Windows Internet Explorer

http://okieprosapp/routeplanner/

File Edit View Favorites Tools Help

★ Favorites Route Planner

Route

New Load Save

Manage Display prohibited route

Dimensions

Height: 14' 0" Width: 8' 5"

Length: 14' 7" Weight: 90000lbs

View

Vehicle Magnifier

Restrictions

Options

Settings Reset

Welcome, super
Route Planner (iteration 11.2)

Routing

City SALINA

Zoom to Highlight

Route Path

<Enter Origin>

Locate

Left-Click to Enter, Right-Click for Options

Map Click

Street Address

Intersection

LRS

Coordinates

Section Township Range

Generate

Driving Directions

Driving Distance

Travel Estimate

Legend

Base Maps

OSOW Map

OSOW Imagery

Google Streets

Google Physical

Google Hybrid

Google Satellite

Bing Maps

Bing Hybrid

Open Street Map

Layers

OSOW Roads

National Highway System

Permanent Restrictions

Temporary Restrictions

20 km

Map data ©2011 Google

http://okieprosapp/routeplanner/#

Local intranet | Protected Mode: Off

100%

Route Planner - Windows Internet Explorer

http://okieproapp/routeplanner/

File Edit View Favorites Tools Help

★ Favorites Route Planner

Route

New Load Save

Manage ☐ Display prohibited route

Dimensions

Height: 14' 0" Width: 8' 5"

Length: 14' 7" Weight: 90000lbs

View

Vehicle Magnifier

Restrictions

Options

Settings

Reset

Welcome, super

Route Planner (iteration 11.2)

Routing

City SALINA ☒ Zoom to ☒ Highlight

Route

Path

1353 KENWOOD RD, OK

OK-20, OK [36.477103, -95.476542]

Generate ☒ Apply to Permit

Driving Directions

Driving directions to OK-20, OK [36.477103, -95.476542]

Travel Estimate: ft /

Path not generated

Generating path 'Path'...

Legend

Base Maps

☐ OSOW Map

☐ OSOW Imagery

☒ Google Streets

☐ Google Physical

☐ Google Hybrid

☐ Google Satellite

☐ Bing Maps

☐ Bing Hybrid

☐ Open Street Map

Layers

☐ OSOW Roads

☐ National Highway System

☐ Permanent Restrictions

☐ Temporary Restrictions

10 km Arrow

© 2011 Google - Terms of Use

-95.44839, 36.69777

Local intranet | Protected Mode: Off

100%

Route
New Load Save
Manage Display prohibited route

Dimensions
Height: 14' 0" Width: 8' 5"
Length: 14' 7" Weight: 90000lbs

View
Vehicle Magnifier
Restrictions

Options
Settings
Reset

Welcome, super
Route Planner (iteration 11.2)

Routing

City SALINA

Zoom to Highlight

Route Path

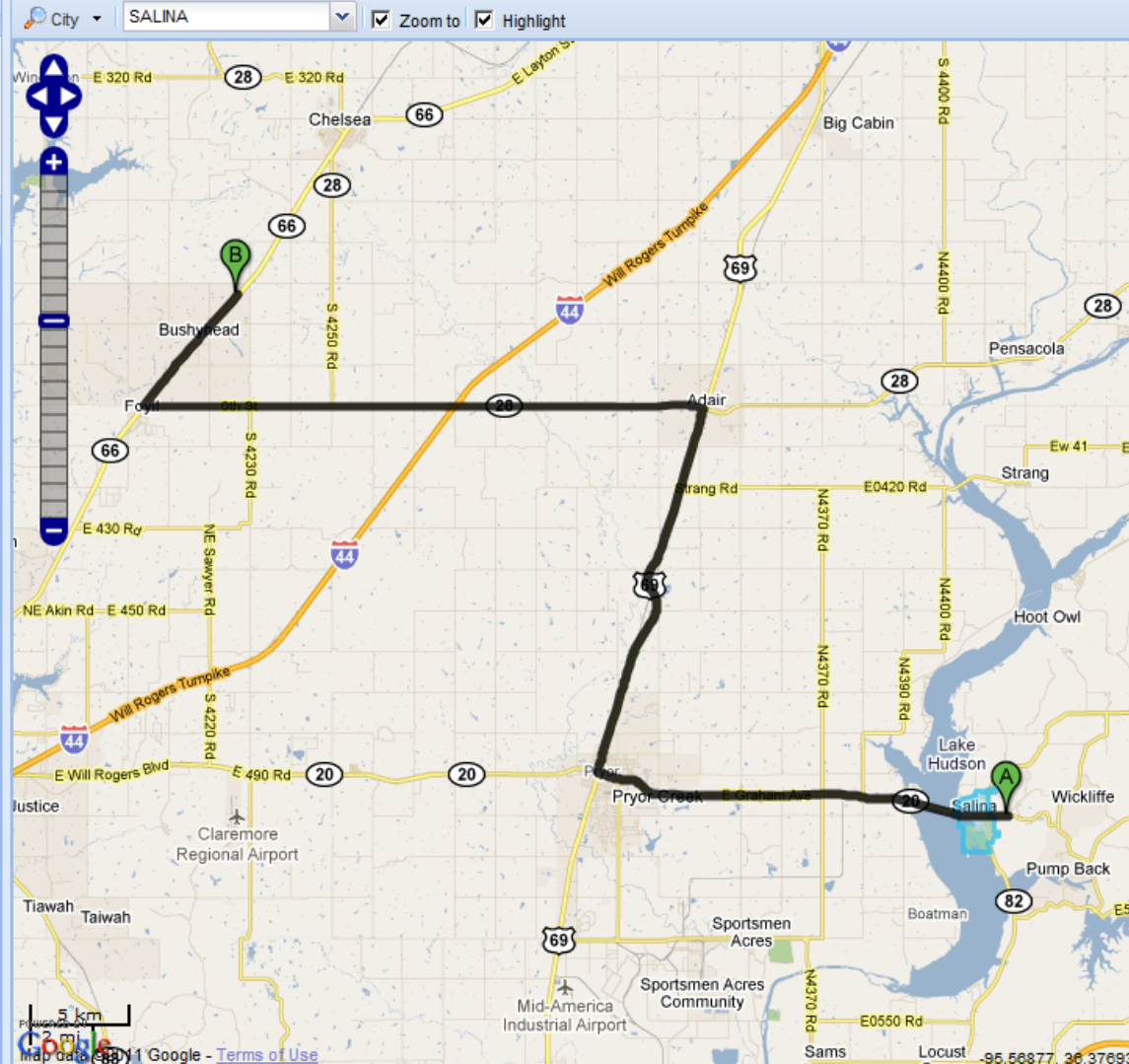
1353 KENWOOD RD, OK
OK-20, OK [36.477103, -95.476542]

Generate Apply to Permit

Driving Directions

**Driving directions to OK-20, OK
[36.477103, -95.476542]**
Travel Estimate: 37.0 mi / 34 min

	1353 KENWOOD RD, OK	
1	Local roads	0.9 mi
2	OK-20	9.4 mi
3	US-69	9.4 mi
4	OK-28	9.1 mi
5	OK-28A	4.6 mi
6	OK-20	3.5 mi
	OK-20, OK [36.477103, -95.4765...	



Legend

- Base Maps
 - OSOW Map
 - OSOW Imagery
 - ☒ Google Streets
 - Google Physical
 - Google Hybrid
 - Google Satellite
 - Bing Maps
 - Bing Hybrid
 - Open Street Map
- Layers
 - OSOW Roads
 - National Highway System
 - Permanent Restrictions
 - Temporary Restrictions
- Route
 - ☒ Paths
 - ☒ Path
 - ☒ Violations

Confirm Application - Windows Internet Explorer

https://permitmanager.intergraph.com/okiepros/appsubmission/permitapp... Live Search

File Edit View Favorites Tools Help Convert Select

Confirm Application

Home Apply For Permits Company Application Search Payment Management Log Off Help Welcome: agent

Confirm Application

< < previous save as draft cancel submit

▼ Payment and Delivery

Delivery Type: EMAIL

EMAIL
FAX
PICK UP

▼ Comment

Customer Comment:

Additional Restrictions:

▼ Branch and Contact Person

Carrier: OKLAHOMA TRUCKING

Branch: * Oklahoma Trucking - Oklahoma City 123 Main, Oklahoma City, OK 73105

Contact First Name: * JAY Contact Last Name: * ADAMS

Contact Phone: * 405-555-5555 Contact Email: * jadams@odot.org

Contact Fax: * 405-521-4184

▼ Permit Details

GENERAL		OVERSIZE	
Application ID:	TBD	Trailer and Load Len...	50-1
Permit Type:	GENERAL	Total Length (ft-in):	60-1
Permit Subtype:	OVERSIZE	Height (13-9):	13-9
Configuration:	TRUCK AND TRAILER	Width (ft-in):	10-6

Done

Internet 100%

Confirm Application - Windows Internet Explorer

https://permitmanager.intergraph.com/okiepros/appsubmission/permitapp... Live Search

File Edit View Favorites Tools Help Convert Select

Confirm Application

Page Tools

▼ Permit Details

GENERAL

Application ID: TBD
Permit Type: GENERAL
Permit Subtype: OVERSIZE
Configuration: TRUCK AND TRAILER
Travel Dates: 02/21/2011; 02/22/2011; 02/23/2011
Walk In: NO
Emergency: NO

OVERSIZE

Trailer and Load Len... 50-1
Total Length (ft-in): 60-1
Height (13-9): 13-9
Width (ft-in): 10-6
Gross Weight (lbs): 60000

TRUCK

Make: FORD
Year: 2007
Tag Number: 1546574
Tag State: Oklahoma
Turnpike Speed?: YES
Interstate Speed?: NO
Special Purpose Dri... NO

TRAILER

Make: C & W MANUFACTURING
Year: 1996
Tag Number: 549843
Tag State: Illinois
Serial Number: 15-988436
Newly Manufacture... NO
Lowboy-style Trailer: NO

Load Description: MANUFACTURING PARTS

▼ Estimated Fees

Estimated Total Fees: \$40.00

Done Internet 100%

Confirm Application - Windows Internet Explorer

https://permitmanager.intergraph.com/okiepros/appsubmission/permitapp

Live Search

File Edit View Favorites Tools Help Convert Select

Confirm Application

Page Tools

Tag Number: 345843

Tag State: Illinois

Serial Number: 15-988436

Newly Manufacture... NO

Lowboy-style Trailer: NO

Load Description: MANUFACTURING PARTS

Estimated Fees

Estimated Total Fees: \$40.00

Estimated Restrictions

Must contact all local authorities prior to movement on city streets and county roads.

Travel prohibited during periods when conditions exist, which makes travel unsafe as determined by Troop Commander and/or Director of Size and Weights Permits Divis

All vehicles traveling Oklahoma turnpikes with loads in excess of 10-0 width shall be equipped with a Rikenass and utilize appropriately sized rikenass lanes

Required Documentation

Estimated Workflow

Auto Approval

< < previous

save as draft

cancel

submit

Done

Internet

100%

Permit Details - Windows Internet Explorer

https://permitmanager.intergraph.com/okiepros/searchapp/GetApplicationS

Live Search

FileEditViewFavoritesToolsHelpConvertSelect

Permit Details

PageTools

HomeApply For PermitsCompany ApplicationSearchPaymentManagementLog OffHelp

Welcome: agent

Permit Details

<< previouscancelduplicaterevoquemake payment

Screening Warnings

No warnings for this application.

General Info

Application Id: 20110217000001Status: Approved

Walk In: NoEmergency: No

Start Date: 2/21/11Middle Date: 2/22/11End Date: 2/23/11

Type: GENERALSubtype: OVERSIZEConfiguration: TRUCK AND TRAILER

Purchasing Company: OKLAHOMA TRUCKINGCarrier: OKLAHOMA TRUCKINGReference Num:Carrier Unit:

Carrier Info

Branch name: Oklahoma Trucking - Oklahoma City

Address Line 1: 123 Main

City: Oklahoma CityState/Province: OKPostal Code: 73105

Vehicle Info

Truck Make: FORDTruck Year: 2007Truck Tag Number: 1546574Truck Tag State: Oklahoma

Turnpike Speed?: YesInterstate Speed?: YesLowboy?: No

Load Description: MANUFACTURING PARTSTrailer Make: C & W MANUFACTURING

Load Serial Number: 15-988436Trailer Year: 1996

Newly Manufactured?: NoTrailer Tag Number: 549843Trailer Tag State: Illinois

Total Length (ft-in): 60-1

Internet

100%

Permit Details - Windows Internet Explorer

https://permitmanager.intergraph.com/okiepros/searchapp/GetApplicationS

File Edit View Favorites Tools Help Convert Select

Permit Details

Page Tools

Load Serial Number: 15-988436	Trailer Year: 1996	Trailer Tag State: Illinois
Newly Manufactured?: No	Trailer Tag Number: 549843	
Total Length (ft-in): 60-1	Width (ft-in): 10-6	
Height (ft-in): 13-9		
Gross Weight (lbs): 60000		

Contact Info

First Name: JAY	Last Name: ADAMS
Phone Number: 405-555-5555	Email Address: jadams@odot.org
Fax Number: 405-521-4184	

Fees

Category	Description	Amount
Oversize		\$ 40.00
Delivery		\$ 2.00
Total Fees:		\$ 42.00

Restrictions

Must contact all local authorities prior to movement on city streets and county roads.

Travel prohibited during periods when conditions exist, which makes travel unsafe as determined by Troop Commander and/or Director of Size and Weights Permits Division.

All vehicles traveling Oklahoma turnpikes with loads in excess of 10-0 width shall be equipped with a Pikepass and utilize appropriately sized pikepass lanes.

Must Maintain Minimum Speed on Turnpikes and Interstates

Status Change/Comments

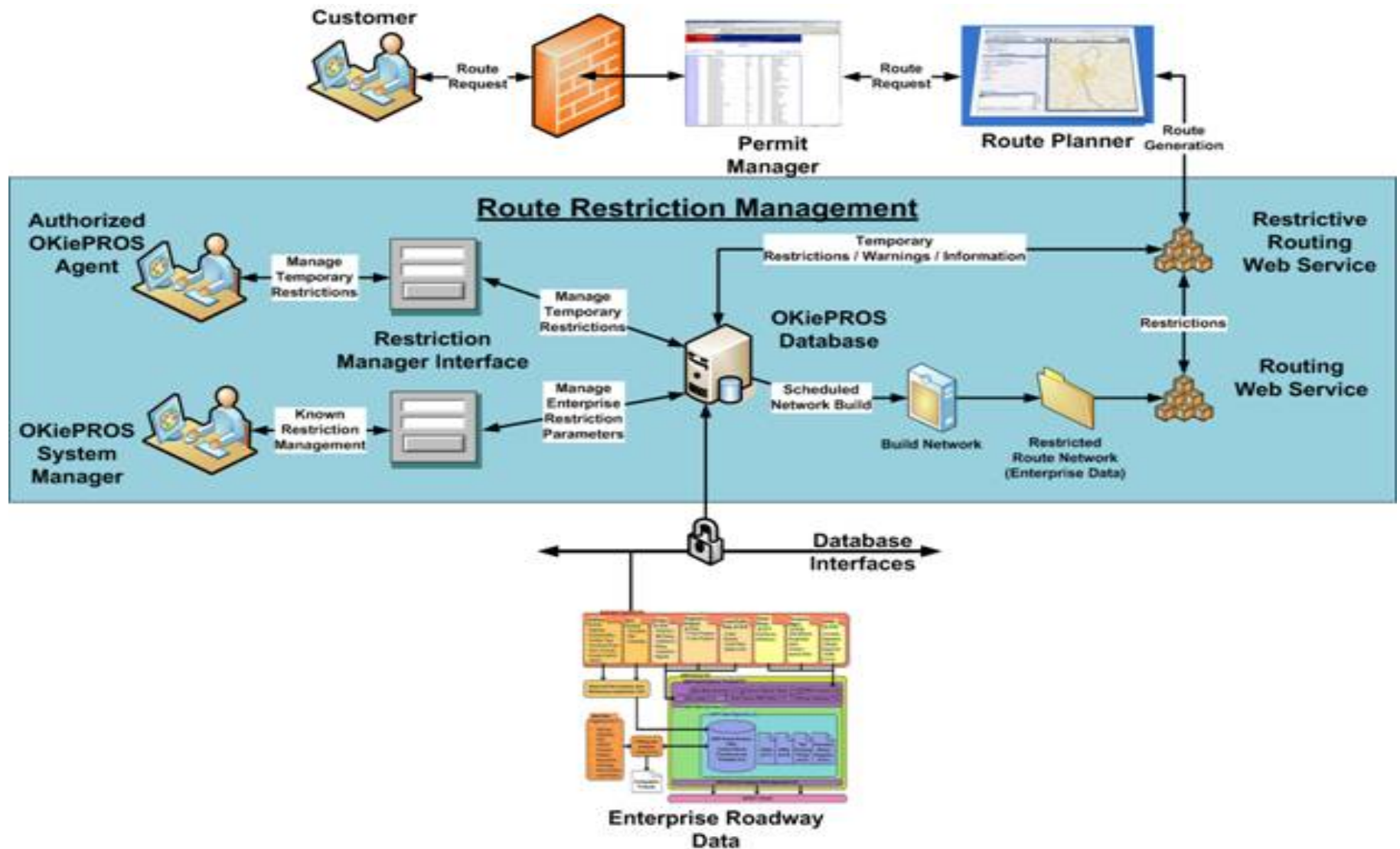
Date	User	Status Change/Comment
17 Feb 2011 08:18:54	AGENT	Submitted
17 Feb 2011 08:18:54	SYSTEM	Approved

<< previous cancel duplicate revoke **make payment**

Release 1.11.13

Internet 100%

Restriction Manager Workflow



Restriction Manager

Welcome, odot
Iteration 10.3

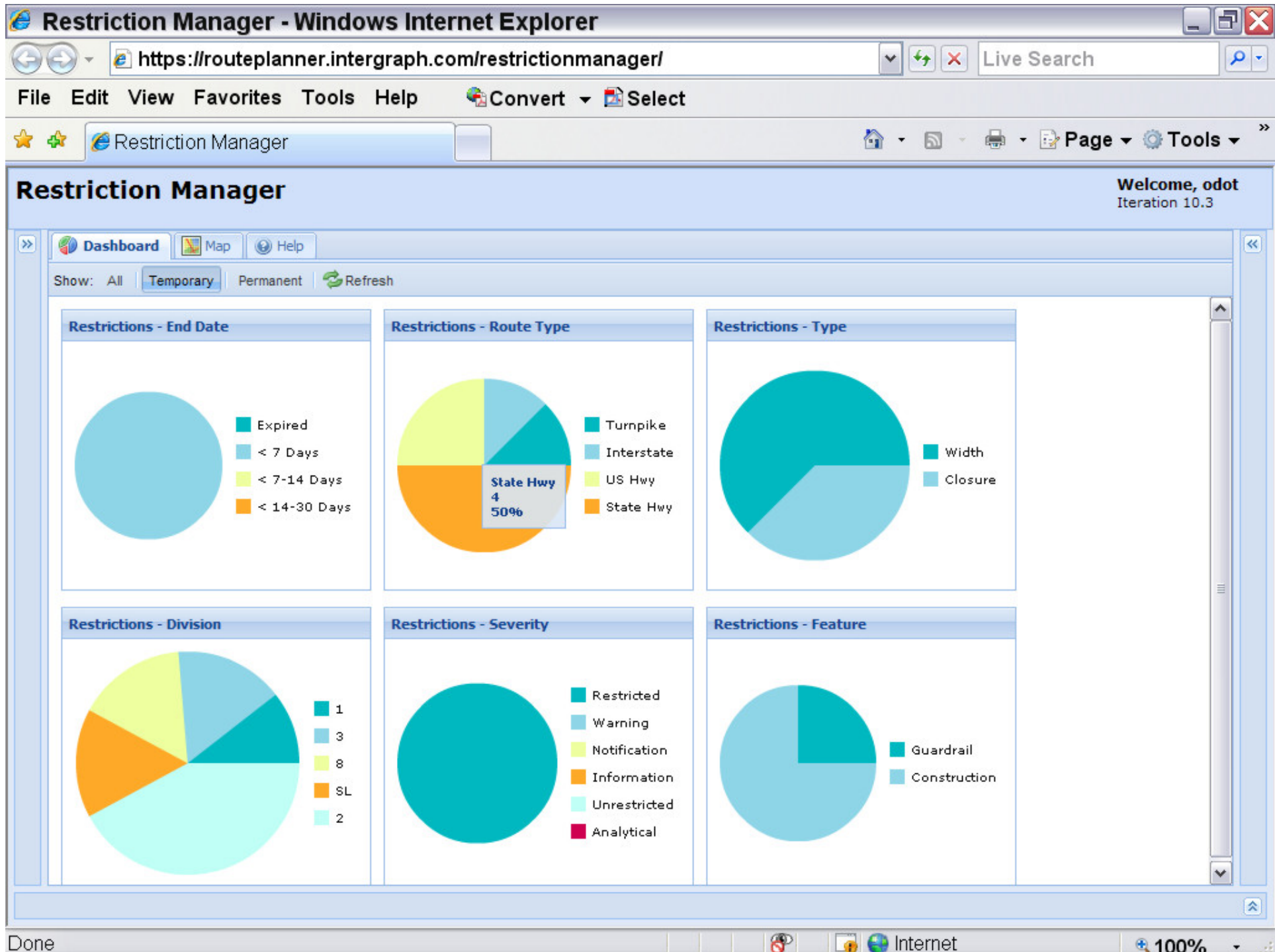
The screenshot displays the ArcGIS Desktop interface with the Restriction Management tool. The left pane contains the 'Functions' menu with options like 'Restriction Management', 'Enterprise Tolerance Values', and 'Route Preferences'. The main pane shows a map of a road network with a legend for 'Restrictions - End Date'. The right pane shows a 'Magnifier' view of a specific road segment.

Temporary Restrictions

Permanent Restrictions

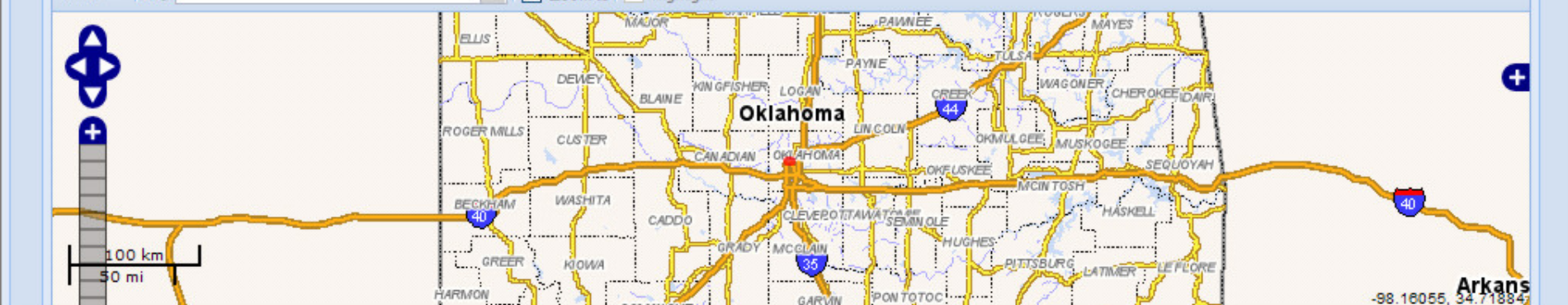
Impedance Factors

	Start	Expected End	City/Area	County	Division	Road Name ▲	Route Type	Severity	Feature	Type	Value	Direction	D
1	11/12/2010	12/31/2010	SEMINOLE	SEMINOLE	3	I-40	Interstate	Restricted	Construction	Width	10-0	EAST/WEST	C
2	12/13/2010	12/31/2010	ANTLERS	PUSHMATAHA	2	INDIAN NATION T...	Turnpike	Restricted	Guardrail	Width	10-0	BOTH	or
3	12/21/2010	12/31/2010	OKAY	WAGONER	8	SH-16	State Hwy	Restricted	Construction	Width	11-0	BOTH	O
4	12/21/2010	12/31/2010	TALIHINA	LEFLORE	2	SH-63	State Hwy	Restricted	Construction	Closure	0	BOTH	A
5	12/14/2010	12/31/2010	HOYT	MCINTOSH	1	SH-71	State Hwy	Restricted	Construction	Closure	0	BOTH	G
6	12/14/2010	12/31/2010	EUFAULA	MCINTOSH	2	SH-9	State Hwy	Restricted	Construction	Width	10-0	BOTH	O
7	11/12/2010	12/31/2010	TEXAS STATE LI...	n/a	SL	US-377	US Hwy	Restricted	Construction	Width	8-6	BOTH	C
8	12/21/2010	12/31/2010	KANSAS STATE ...	n/a	SL	US-69	US Hwy	Restricted	Guardrail	Closure	0	BOTH	A



Welcome, odot
Iteration 10.3


Find City: Zoom to ☐ Highlight



Impedance Factors

 Add New
 Remove
 Copy
 Modify
 Undock
 Place Geometry
 Show Geometry
 Refresh

	Start	Expected End	City/Area	County	Division	Road Name ▲	Route Type	Severity	Feature	Type	Value	Direction
1	12/14/2010	12/31/2010	HOYT	MCINTOSH	A Z ↓	Sort Ascending	State Hwy	Restricted	Construction	Closure	0	BOTH
2	12/14/2010	12/31/2010	EUFAULA	MCINTOSH	Z ↓	Sort Descending	State Hwy	Restricted	Construction	Width	10-0	BOTH

No. of Records: 2  Clear all Filters

Restriction Manager - Windows Internet Explorer

Address bar: <https://routeplanner.intergraph.com/restrictionmanager/>

File Edit View Favorites Tools Help Convert Select

Restriction Manager

Restriction Manager Welcome, odot
Iteration 10.3

Dashboard Map Help

Find City: ☒ Zoom to ☐ Highlight

Base Layer

- ☐ OSOW Map
- ☐ OSOW Imagery
- ☒ Google Streets
- ☐ Google Physical
- ☐ Google Hybrid
- ☐ Google Satellite

Map data ©2010 Google [Terms of Use](#)

Temporary Restrictions Permanent Restrictions Impedance Factors

Add New Remove Copy Modify Undock Place Geometry Show Geometry Refresh

	Start	Expected End	City/Area	County	Division	Road Name	Route Type	Severity	Feature	Type	Value	Direction	D
1	12/14/2010	12/31/2010	HOYT	MCINTOSH	1	SH-71	State Hwy	Restricted	Construction	Closure	0	BOTH	G
2	12/14/2010	12/31/2010	EUFAULA	MCINTOSH	1	US-69	US Hwy	Restricted	Construction	Width	10-0	NORTH/SOUTH	0
3	12/31/2010	02/28/2011	EUFAULA	MCINTOSH	1	US-69	US Hwy	Restricted	Maintenance	Width	10-0	NORTH	

No. of Records: 3 Clear all Filters

Internet 100%

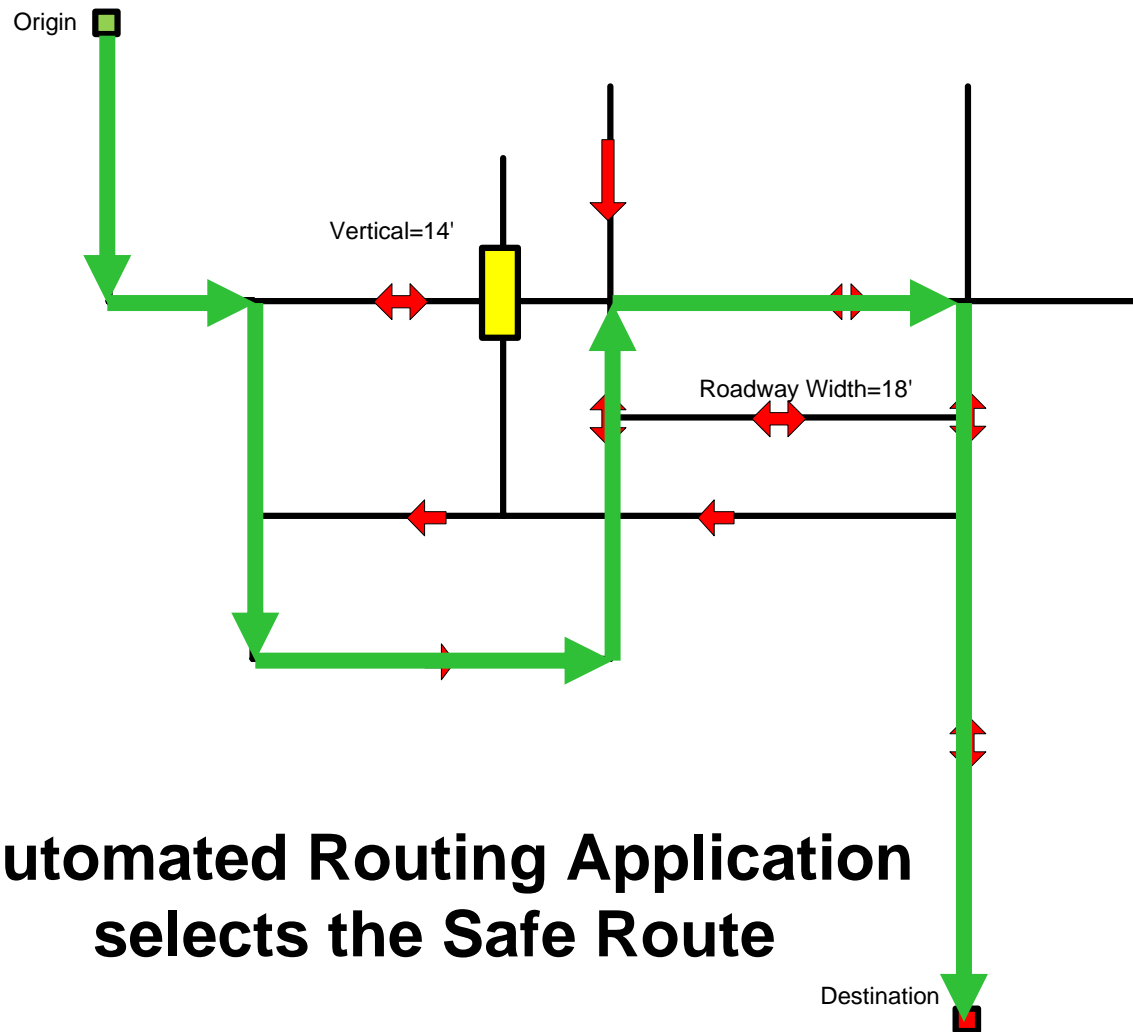
Welcome, odot
Iteration 10.3

Temporary Restrictions
Permanent Restrictions
Impedance Factors

Add New
Remove
Copy
Modify
Undock
Place Geometry
Show Geometry
Refresh

	Start	Expected End	City/Area	County	Division	Road Name	Route Type	Severity	Feature	Type	Value	Direction	D
1	12/14/2010	12/31/2010	HOYT	MCINTOSH	1	SH-71	State Hwy	Restricted	Construction	Closure	0	BOTH	C
2	12/14/2010	12/31/2010	EUFAULA	MCINTOSH	1	US-69	US Hwy	Restricted	Construction	Width	10-0	NORTH/SOUTH	C
3	12/31/2010	02/28/2011	EUFAULA	MCINTOSH	1	US-69	US Hwy	Restricted	Maintenance	Width	10-0	NORTH	C

Automated Routing



1. Road Network
2. Apply Roadway Restriction
3. Enter Vehicle and Load Information
4. Enter Origin and Destination
5. Submit Route Request

**Automated Routing Application
selects the Safe Route**



Wrap-Up & Questions

- Positional Data Accuracy (Bridge or other features affecting the capacity of the roadway)
 - Ensuring the data is accurately located on the network
- Correct Topology
 - Ensuring the network is navigable
- Road Classifications
 - Ensuring the roads are accurately classified
- Road Names – What is the source?
 - The road name on the network is what will be displayed in the driving directions
 - Conflation routines will use the spatial location and attributes
- Communication among stakeholders is critical

