



Montana Automated Routing System (ARS)

External User / Routing User Guide

January 2021

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Enter a Route Screen

This scenario provides a general overview of the Enter a Route screen components. This scenario is not intended to be followed step by step. For detailed steps on generating a route, refer to **Generating a Route** on page 8.

Scenario Steps

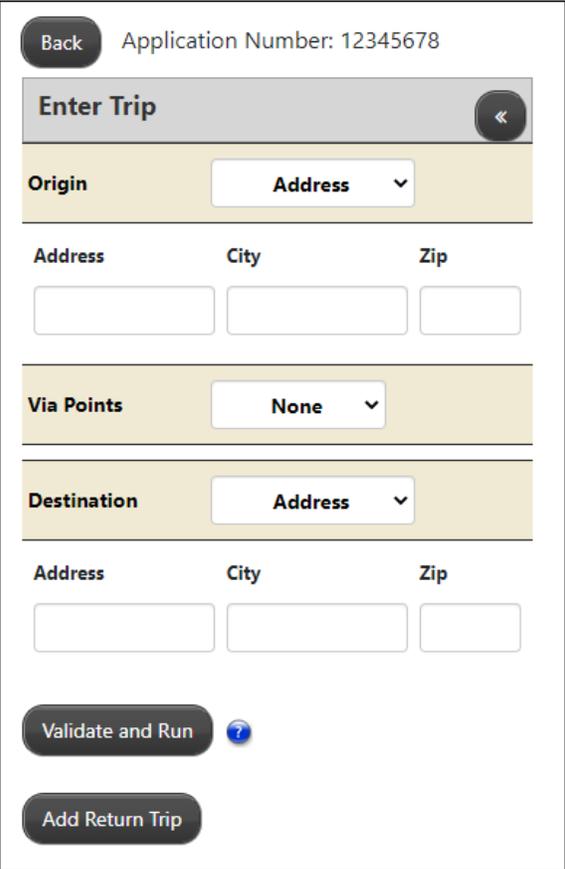
Step	Description
	<p>The Enter a Route screen is the starting point for generating a route and is broken into 3 main parts:</p> <ul style="list-style-type: none"> • Enter Trip Panel • Enter Trip For This Permit Panel • Trip Results Panel <p>Note: The Trip Results Panel will not be displayed until a route is generated by clicking the Validate and Run button.</p> <div style="border: 1px solid black; padding: 10px;"> <p>Enter Trip For This Permit</p> <p>Load Saved Trip: <input type="text"/> <input type="button" value="Load Trip"/> ⓘ</p> <p>Use the form to the left to enter a trip that the truck(s) will use for this permit.</p> <p>You have 4 options for entering your origin and destination locations:</p> <ul style="list-style-type: none"> ▪ An address - Enter the street number, street, city and/or zip code. ▪ The intersection of two streets – Enter each of the streets and the city of the intersection location. The map will zoom into the intersection and may have several location markers for you to select from; ARS produces turn-by-turn directions so choose the marker that best represents your location. ▪ Border crossings – If you are entering from another state or leaving Montana, select your highway and the nearest city to where you will cross the state line. ▪ Lat/Lon/Map – If you have the geocode for your location, you may enter it. Example: 46.589425, -111.992558. You can also click Find after selecting Lat/Lon/Map to click a location on the map. <p>You have the option to enter via points for your route:</p> <ul style="list-style-type: none"> ▪ Highway – Enter the series of roads, in order of travel, that you would prefer to travel on. ▪ Find on Map – Click on “Select on Map” to open the map and select your highway via points. <p>Click Validate and Run. The router will attempt to generate a legal route for your truck based on the weight and load parameters you entered earlier. To edit your route click the expand arrows to access your routing options.</p> </div>

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Scenario Steps

Step	Description	
	Enter a Route Screen Elements	
	Element	Description
	Enter Trip Panel	The Enter Trip Panel is used to enter details about routes to be generated. Refer to Enter Trip Panel on page 3 for more information.
	Enter Trip For This Permit Panel	The Enter Trip For This Permit Panel provides information on Origin and Destination location options.
	Trip Results Panel	The Trip Results Panel provides an overview of the current generated route. Refer to Trip Results Panel on page 7 for more information. Note: The Trip Results Panel will not be displayed until a route is generated by clicking the Validate and Run button.
	Back Button 	Click the Back button to go back one page in the Order Permits process.

Scenario Steps

Step	Description
	<p data-bbox="224 344 407 373"><u>Enter Trip Panel</u></p> <p data-bbox="224 394 1174 424">The Enter Trip Panel is used to enter the following details about routes to be generated:</p> <ul data-bbox="272 445 1463 537" style="list-style-type: none">• The Origin and Destination of the route• Path conditions of the route such as the highways it should attempt to use or the Via Points it should pass through <p data-bbox="224 573 1130 602">The fields and options available vary based on the Origin and Destination selections.</p> <div data-bbox="224 617 789 1486"></div>

Scenario Steps

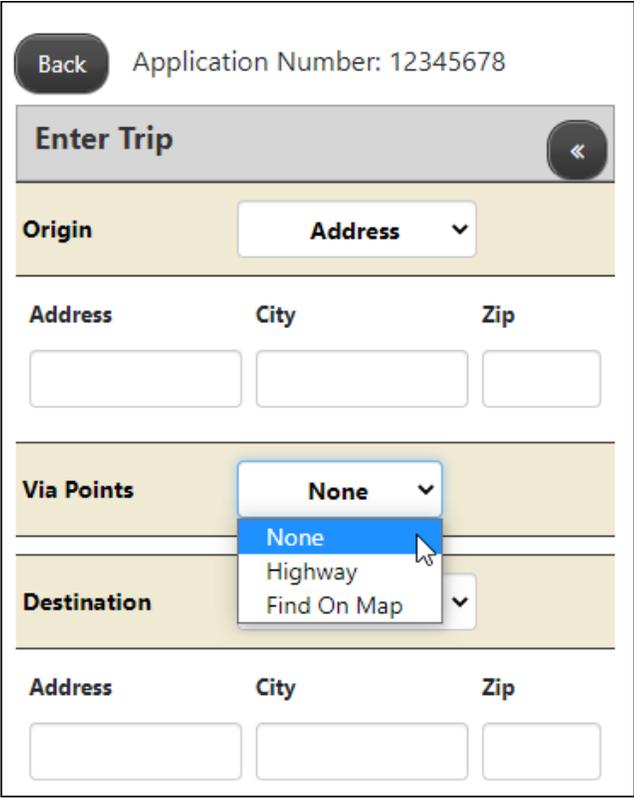
Step	Description	
	Enter Trip Panel Elements	
	Element	Function
	Route Area	
Expand Collapse Chevron	Click the Expand Collapse Chevron to expand and collapse the Enter Trip Panel .	
		
Origin/Destination Dropdown list	The beginning and ending locations of a route The available fields for each vary based on the selected Origin or Destination.	
Via Points Dropdown None Option	Select to generate a basic point-to-point route with no specified highways or Via Points	Note: State Users can also use any of these methods for the routes of a Split Trip.
Via Points Dropdown Highway Option	Select to display fields to specify road names to use in the route Refer to Using Via Points – Highways on page 26 for more information.	
Via Points Dropdown Find on Map Option	Select to display the Select on Map link to pick a location from the map Refer to Using Via Points – Find on Map on page 28 for more information.	
	Additional Routes Area	
Add Return Trip	Select to display extra route fields for two separate routes under the same permit This feature is primarily used when a vehicle/load travels to a destination and will return to their origin on their return trip.	
	Additional Route Details	
Validate and Run button	Click the Validate and Run button to generate a route based on your selections.	
	<p>Types of Routes</p> <p>The following types of routes can be generated:</p> <ul style="list-style-type: none"> • From one location to another location • From one location to another location through specified Via Points selected on the map • From one location to another location along specified roadways or through specified intersections <p>Users can also use the above options to:</p> <ul style="list-style-type: none"> • Generate two route segments each with a separate Origin and Destination when you use the Add Return Trip feature 	

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Scenario Steps

Step	Description										
	<p><u>Selecting an Origin and Destination</u></p> <p>When generating a route, users can enter the details of the Origin or Destination using a variety of methods. Different fields are available depending on the method chosen. The methods are:</p> <ul style="list-style-type: none"> • Address (refer to By Address on page 9) • Intersection (refer to By Intersection on page 12) • Border Crossing (refer to By Border Crossing on page 16) • Select Location on Map (refer to By Selecting a Location on a Map (Lat/Lon / Map) on page 18) <p style="text-align: center;">Origin and Destination Methods</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #002060; color: white;">Element</th> <th style="background-color: #002060; color: white;">Description</th> </tr> </thead> <tbody> <tr> <td>Address</td> <td>An Address is used as an Origin or Destination if the trip needs to begin or end at a specific point. This route point is a street address and city, and an optional ZIP code.</td> </tr> <tr> <td>Intersection</td> <td>An Intersection is used as an Origin or Destination if the trip needs to begin or end at the cross section of two roads. This route point is the intersection of two roadways with the option of specifying a city.</td> </tr> <tr> <td>Border Crossing</td> <td>A Border Crossing is used as an Origin or Destination if the trip needs to begin or end at the border of a neighboring state. This route point is a road name and State that the Border Crossing is with.</td> </tr> <tr> <td>Selecting a Location on a Map (Lat/Lon / Map)</td> <td>A Lat/Lon is used as an Origin or Destination if the trip needs to begin or end at a specific point. This route point is a location on the map manually selected by the user.</td> </tr> </tbody> </table>	Element	Description	Address	An Address is used as an Origin or Destination if the trip needs to begin or end at a specific point. This route point is a street address and city, and an optional ZIP code.	Intersection	An Intersection is used as an Origin or Destination if the trip needs to begin or end at the cross section of two roads. This route point is the intersection of two roadways with the option of specifying a city.	Border Crossing	A Border Crossing is used as an Origin or Destination if the trip needs to begin or end at the border of a neighboring state. This route point is a road name and State that the Border Crossing is with.	Selecting a Location on a Map (Lat/Lon / Map)	A Lat/Lon is used as an Origin or Destination if the trip needs to begin or end at a specific point. This route point is a location on the map manually selected by the user.
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Scenario Steps

Step	Description
	<p data-bbox="219 346 414 373"><u>Routing Methods</u></p> <p data-bbox="219 394 1388 422">Users can generate a basic point-to-point route or stipulate that a route be generated in the following ways.</p> <ul data-bbox="267 443 1128 520" style="list-style-type: none"><li data-bbox="267 443 1128 470">• Along specific highways and through designated intersections (see page 26)<li data-bbox="267 491 771 518">• Through specified Via Points (see page 28) <div data-bbox="316 535 950 1333"><p>The screenshot shows a mobile application interface for routing. At the top, there is a 'Back' button and the text 'Application Number: 12345678'. Below this is a grey header bar labeled 'Enter Trip' with a back arrow. The main form is divided into sections: 'Origin' with an 'Address' dropdown, and 'Destination' with 'Address', 'City', and 'Zip' fields. A 'Via Points' dropdown menu is open, showing options: 'None' (highlighted), 'Highway', and 'Find On Map'. Below the destination fields are three empty input boxes for 'Address', 'City', and 'Zip'.</p></div> <p data-bbox="219 1354 1445 1444">Note: Via Highways and Via Points are for use when editing the route. It is recommended that the user first try to create the route with only an Origin and Destination. If the desired route is not generated, edit the route by expanding the Enter a Trip Panel and adding Via Highways or Via Points.</p>

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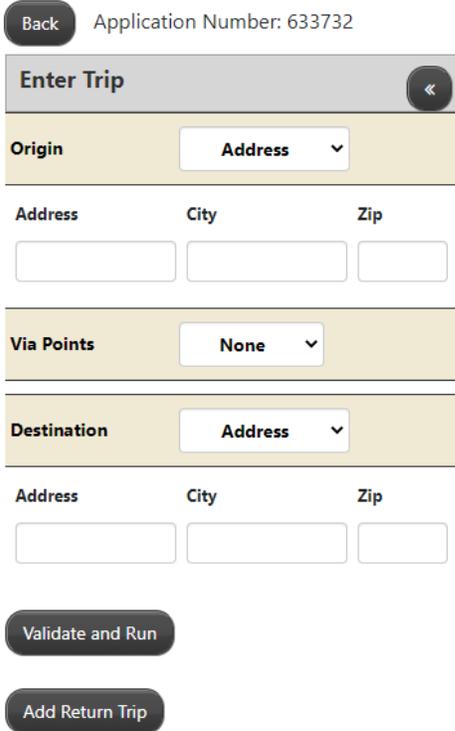
Scenario Steps

Step	Description																																																																				
	<p>Trip Results Panel</p> <p>Once an Origin and Destination have been entered and the user has clicked the Validate and Run button, the Trip Results Panel will be displayed as shown below. Refer to Working With Trip Results on page 32 for more information.</p> <p>Driving Directions</p> <table border="1"> <thead> <tr> <th>Miles</th> <th>Route</th> <th>To</th> <th>Distance</th> </tr> </thead> <tbody> <tr> <td colspan="4">Beginning at Origin: Border Rd;AB;Sweet Grass</td> </tr> <tr> <td>0.42</td> <td>BORDER RD</td> <td>Bear right onto BORDER STREET</td> <td>0.42</td> </tr> <tr> <td>0.2</td> <td>BORDER STREET</td> <td>Continue straight on S-214</td> <td>0.62</td> </tr> <tr> <td>0.24</td> <td>S-214</td> <td>Continue straight on I-15 Ramp [S-214 Ramp]</td> <td>0.87</td> </tr> <tr> <td>0.24</td> <td>I-15 Ramp</td> <td>Continue straight on I-15</td> <td>1.1</td> </tr> <tr> <td>33.87</td> <td>I-15</td> <td>Take Exit 363 toward US-2/SHELBY/CUT BANK</td> <td>34.98</td> </tr> <tr> <td>0.24</td> <td>I-15 BUS Ramp</td> <td>Head toward US-2 EAST/SHELBY</td> <td>35.21</td> </tr> <tr> <td>0.06</td> <td>I-15 BUS Ramp</td> <td>Merge onto I-15 BUS [US-2]</td> <td>35.27</td> </tr> <tr> <td>0.04</td> <td>I-15 BUS</td> <td>Continue straight on FRONT STREET</td> <td>36.21</td> </tr> <tr> <td>0.36</td> <td>FRONT STREET</td> <td>Turn right onto MONTANA AVENUE</td> <td>36.57</td> </tr> <tr> <td>0.03</td> <td>MONTANA AVENUE</td> <td>Turn left onto US-2 [MAIN STREET]</td> <td>36.6</td> </tr> <tr> <td>103.77</td> <td>US-2</td> <td>Turn left onto 7TH AVENUE NORTH</td> <td>140.37</td> </tr> <tr> <td>0.36</td> <td>7TH AVENUE NORTH</td> <td>Turn left onto S-232 [5TH STREET NORTH]</td> <td>140.73</td> </tr> <tr> <td>2.92</td> <td>S-232</td> <td>Bear right onto S-233</td> <td>143.65</td> </tr> <tr> <td>30.17</td> <td>S-233</td> <td>Arrive at destination.</td> <td>173.82</td> </tr> <tr> <td colspan="3">Final Destination: S-233;SK;Consul</td> <td>173.82</td> </tr> </tbody> </table>	Miles	Route	To	Distance	Beginning at Origin: Border Rd;AB;Sweet Grass				0.42	BORDER RD	Bear right onto BORDER STREET	0.42	0.2	BORDER STREET	Continue straight on S-214	0.62	0.24	S-214	Continue straight on I-15 Ramp [S-214 Ramp]	0.87	0.24	I-15 Ramp	Continue straight on I-15	1.1	33.87	I-15	Take Exit 363 toward US-2/SHELBY/CUT BANK	34.98	0.24	I-15 BUS Ramp	Head toward US-2 EAST/SHELBY	35.21	0.06	I-15 BUS Ramp	Merge onto I-15 BUS [US-2]	35.27	0.04	I-15 BUS	Continue straight on FRONT STREET	36.21	0.36	FRONT STREET	Turn right onto MONTANA AVENUE	36.57	0.03	MONTANA AVENUE	Turn left onto US-2 [MAIN STREET]	36.6	103.77	US-2	Turn left onto 7TH AVENUE NORTH	140.37	0.36	7TH AVENUE NORTH	Turn left onto S-232 [5TH STREET NORTH]	140.73	2.92	S-232	Bear right onto S-233	143.65	30.17	S-233	Arrive at destination.	173.82	Final Destination: S-233;SK;Consul			173.82
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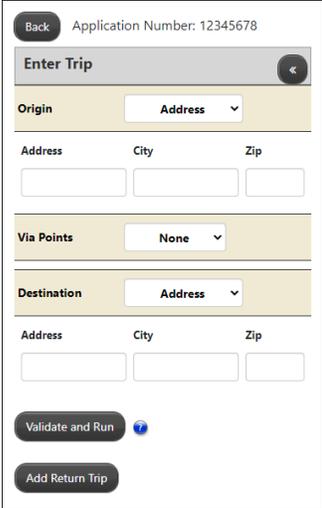
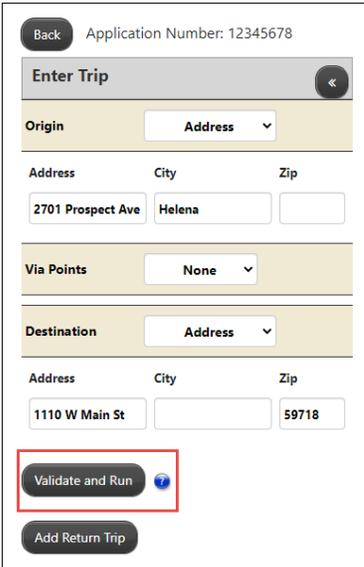
Generating a Route

This scenario details the steps needed to generate a route.

Scenario Steps

Step	Description
1.	<p>The Enter a Route screen is the starting point for generating a route.</p>  <p>Enter Trip For This Permit</p> <p>Load Saved Trip: <input type="text"/> Load Trip </p> <p>Use the form to the left to enter a trip that the truck(s) will use for this permit.</p> <p>You have 4 options for entering your origin and destination locations:</p> <ul style="list-style-type: none"> ▪ An address - Enter the street number, street, city and/or zip code. ▪ The intersection of two streets – Enter each of the streets and the city of the intersection location. The map will zoom into the intersection and may have several location markers for you to select from; ARS produces turn-by-turn directions so choose the marker that best represents your location. ▪ Border crossings – If you are entering from another state or leaving Montana, select your highway and the nearest city to where you will cross the state line. ▪ Lat/Lon/Map – If you have the geocode for your location, you may enter it. Example: 46.589425, -111.992558. You can also click Find after selecting Lat/Lon/Map to click a location on the map. <p>You have the option to enter via points for your route:</p> <ul style="list-style-type: none"> ▪ Highway – Enter the series of roads, in order of travel, that you would prefer to travel on. ▪ Find on Map – Click on “Select on Map” to open the map and select your highway via points. <p>Click Validate and Run. The router will attempt to generate a legal route for your truck based on the weight and load parameters you entered earlier. To edit your route click the expand arrows to access your routing options.</p>

Scenario Steps

Step	Description
2.	<p data-bbox="220 344 347 373">By Address</p> <p data-bbox="220 394 1435 453">A user may route a trip using a specific address as an Origin and Destination if the trip needs to begin or end at a specific point. This route point is a street address and city, and an optional ZIP code.</p> <ul data-bbox="220 474 1221 504" style="list-style-type: none">• Select Address from the Origin and/or Destination dropdown list in the Enter Trip Panel. <p data-bbox="256 525 1104 554"><i>The fields will change to allow users to enter the details regarding the address.</i></p> <div data-bbox="259 567 581 1075"></div> <ul data-bbox="220 1096 1123 1272" style="list-style-type: none">• Enter the street address in the Address field.• Enter the city in the City field and/or the ZIP code of the address in the Zip field.• Enter the remainder of the Origin or Destination.• Click the Validate and Run button. <div data-bbox="259 1289 623 1856"></div>

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Scenario Steps

Step	Description
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Note: If the system cannot locate the address entered, the following message will be displayed:

Validation Results for Main Trip

Origin Location Not Found

340 Atwater St Handy not found. Please check spelling.

If the system can locate a valid address, the **Trip Results Panel** will be displayed. Refer to **Working With Trip Results** on page 32 for more information.

Note: When the system does not have any problems with the information entered, the **Trip Results Panel** will display the route. Review the route and driving directions. Use the **Enter Trip Panel** to make any changes. Changes will require the user to click the **Validate and Run** button to update the route.

Carefully check the route presented below. If it looks correct, click Next.
 I have a problem with the route and would like it reviewed

Next

Border Rd;AB;Sweet Grass to S-233;SK;Consul
 Trip Distance: 173.82

Drag Map
 Get Restriction Information for Road
 Restrictions in Box

Load Dimensions Used During Routing

Route Description

Driving Directions

Miles	Route	To	Distance
Beginning at Origin: Border Rd;AB;Sweet Grass			
0.42	BORDER RD	Bear right onto BORDER STREET	0.42
0.2	BORDER STREET	Continue straight on S-214	0.62
0.24	S-214	Continue straight on I-15 Ramp (S-214 Ramp)	0.87
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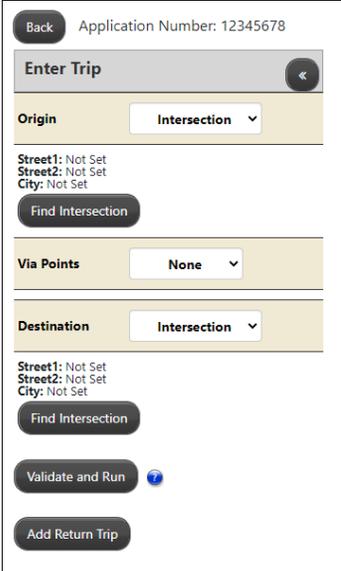
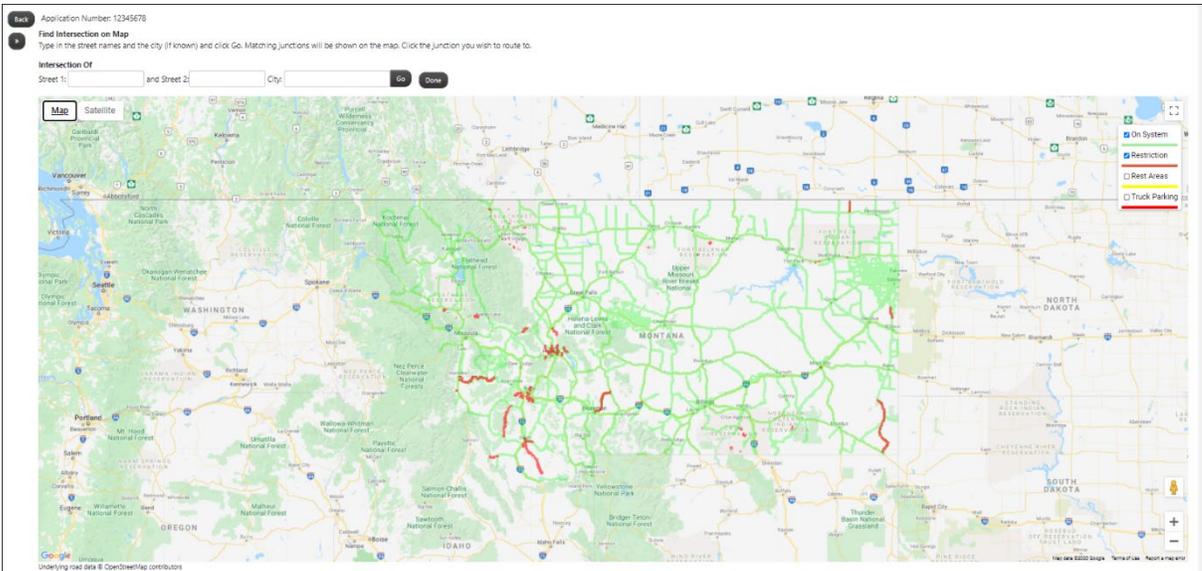
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Scenario Steps

Step	Description
	<ul style="list-style-type: none">• Click the Next button to continue the Order Permits process in ePART. <p>Helpful Hints:</p> <p>If the system cannot locate the entered address:</p> <ul style="list-style-type: none">• Verify the address. If the address is correct, verify the spelling.• Some addresses, especially industrial or residential location addresses, may not be in the road network. Refer to pages 30-32 for alternative routing options.• If the address includes a prefix direction such as N, NE, etc., try the address without the prefix.• If the address includes an indicator such as road, street, drive, etc., try the address without the indicators.

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Scenario Steps

Step	Description
3.	<p data-bbox="220 344 391 373">By Intersection</p> <p data-bbox="220 394 1477 453">A user may route a trip using an intersection as an Origin or Destination if the trip needs to begin or end at the cross section of two roads. This route point is the intersection of two roadways with the option of specifying a city.</p> <ul data-bbox="220 474 1263 504" style="list-style-type: none">• Select Intersection from the Origin and/or Destination dropdown list in the Enter Trip Panel. <p data-bbox="256 525 1243 554"><i>The fields will change to allow users to enter or select the details regarding the intersection.</i></p> <div data-bbox="259 567 600 1138"><p>The screenshot shows the 'Enter Trip' panel with a 'Back' button and 'Application Number: 12345678'. The 'Origin' dropdown is set to 'Intersection', with fields for 'Street1: Not Set', 'Street2: Not Set', and 'City: Not Set' and a 'Find Intersection' button below it. The 'Destination' dropdown is also set to 'Intersection', with similar fields and a 'Find Intersection' button. At the bottom are 'Validate and Run' and 'Add Return Trip' buttons.</p></div> <ul data-bbox="220 1159 1159 1188" style="list-style-type: none">• Click the Find Intersection button beneath the Origin or Destination dropdown list. <p data-bbox="256 1209 846 1239"><i>The Find Intersection on Map screen will be displayed.</i></p> <div data-bbox="259 1251 1461 1822"><p>The screenshot shows the 'Find Intersection on Map' screen with a search bar for 'Street 1', 'Street 2', and 'City'. Below the search bar is a map of Montana and surrounding areas, with a red dot indicating the selected intersection. A legend on the right side of the map includes 'On System', 'Restriction', 'Rest Areas', and 'Truck Parking'.</p></div>

Scenario Steps

Step	Description
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- Enter the two street locations in the **Street 1** and **Street 2** fields.

Note: Users can also enter a city in the **City** field, but it is not required. If city boundaries are unknown or uncertain, users may get better results without the city name. Refer to **MDT Highway Names** on page 27 for suggested street name entry.

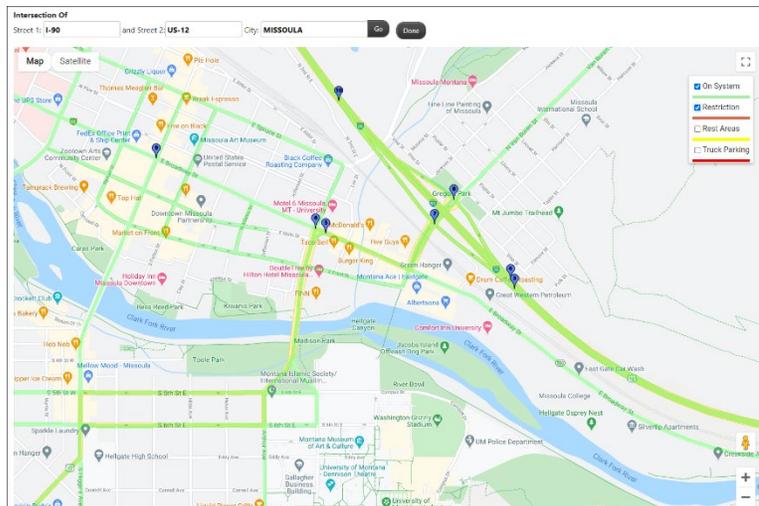
Find Intersection on Map
Type in the street names and the city (if known) and click Go. Matching junctions will be shown on the map. Click the junction you wish to route to.

Intersection Of
Street 1: and Street 2: City:

- Click the **Go** button.

Note: If users click the **Done** button instead of the **Go** button, users will be returned to the **Enter Trip Panel** to make a different routing selection.

All possible intersection matches will be displayed on the map. Each will be marked with a numbered pin.



- Zoom in and click the pin that marks the location to be used. The location will be added to the **Origin** or **Destination** field in the **Enter Trip Panel**.

Map Zoom Tool

Element	Description
Full Screen View	Click to view map in full screen view 
Zoom Level	Click the Zoom Level icons (+/-) to zoom in and out of the center of the map. 

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Scenario Steps

Step	Description
	<ul style="list-style-type: none">• Click the Next button to continue the Order Permits process in ePART. <p>Helpful Hints:</p> <p>If the system cannot locate the entered intersection:</p> <p>Enter Street 1 or Street 2 names using the format for Highway Names as described in MDT Highway Names on page 27.</p> <ul style="list-style-type: none">• Remove the city name to see all possible matches.• When there are multiple possible matches, select the intersection that best represents the desired Origin or Destination.• If Street 1 or Street 2 names include a prefix direction such as N, NE, etc., try the street name without the prefix.• If Street 1 or Street 2 names include an indicator such as road, street, drive, etc., try the street name without the indicators. <p>Note: If ARS is unable to generate a route based on the Origin and Destination submitted in the Enter Trip Panel, the Validation Results Panel is used to inform the user why the trip failed and provide alternative routing points to enter to calculate the desired route of travel. Refer to Validation Results Panel on page 31 for more information.</p>

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4.

By Border Crossing

A user may route a trip using a Border Crossing as an Origin or Destination if the trip needs to begin or end at the border of a neighboring state. This route point is a road name and the State line that the Border Crossing is with.

- Select **Border Crossing** from the **Origin** and/or **Destination** dropdown list in the **Enter Trip Panel**.

The fields will change to allow users to select a Border Crossing in to or out of the state.

Enter Trip For This Permit

Load Saved Trip: Load Trip

Use the form to the left to enter a trip that the truck(s) will use for this permit.

You have 4 options for entering your origin and destination locations:

- An address - Enter the street number, street, city and/or zip code.
- The intersection of two streets – Enter each of the streets and the city of the intersection location. The map will zoom into the intersection and may have several location markers for you to select from; ARS produces turn-by-turn directions so choose the marker that best represents your location.
- Border crossings – If you are entering from another state or leaving Montana, select your highway and the nearest city to where you will cross the state line.
- Lat/Lon/Map – If you have the geocode for your location, you may enter it. Example: 46.589425, -111.992558. You can also click Find after selecting Lat/Lon/Map to click a location on the map.

You have the option to enter via points for your route:

- Highway – Enter the series of roads, in order of travel, that you would prefer to travel on.
- Find on Map – Click on “Select on Map” to open the map and select your highway via points.

Click **Validate and Run**. The router will attempt to generate a legal route for your truck based on the weight and load parameters you entered earlier. To edit your route click the expand arrows to access your routing options.

- Select the desired **Border Crossing** from the dropdown list beneath Origin or Destination. The **Border Crossing** dropdown list displays the Montana road name and the State line that the Border Crossing is with.

- Enter the remainder of the Origin or Destination.

**Montana Automated Routing System
External User Guide**

- Click the **Validate and Run** button.

Back Application Number: 633732

Enter Trip

Origin **Border Crossing** ▾

Select:
Border Rd Sweet Grass, AB Line ▾

Via Points **None** ▾

Destination **Border Crossing** ▾

Select:
Border Rd Sweet Grass, AB Line ▾

Validate and Run

*The Trip Results Panel will be displayed. Refer to **Working With Trip Results** on page 32 for more information.*

Note: When the system does not have any problems with the information entered, the **Trip Results Panel** will display the route. Review the route and driving directions. Use the **Enter Trip Panel** to make any changes. Changes will require the user to click the **Validate and Run** button to update the route.

Border Rd/Sweet Grass to S-213/AB-Cut Bank
Trip Distance: 65.07

Map Satellite

Legend:
 On System
 Restriction
 Rest Areas
 Truck Parking

Load Dimensions Used During Routing

Route Description

Driving Directions

Distance	Direction	Instruction	Distance
0.42	S 213	Turn right onto S 213	0.42
0.12	S 213	Continue straight on S 213	0.12
0.19	S 213	Turn right onto S 213 (S 213/AB-Cut Bank)	0.19
02.14	S 213	Arrive at destination	02.14

Final Destination: S 213/AB-Cut Bank

- Click the **Next** button to continue the Order Permits process in ePART.

Scenario Steps

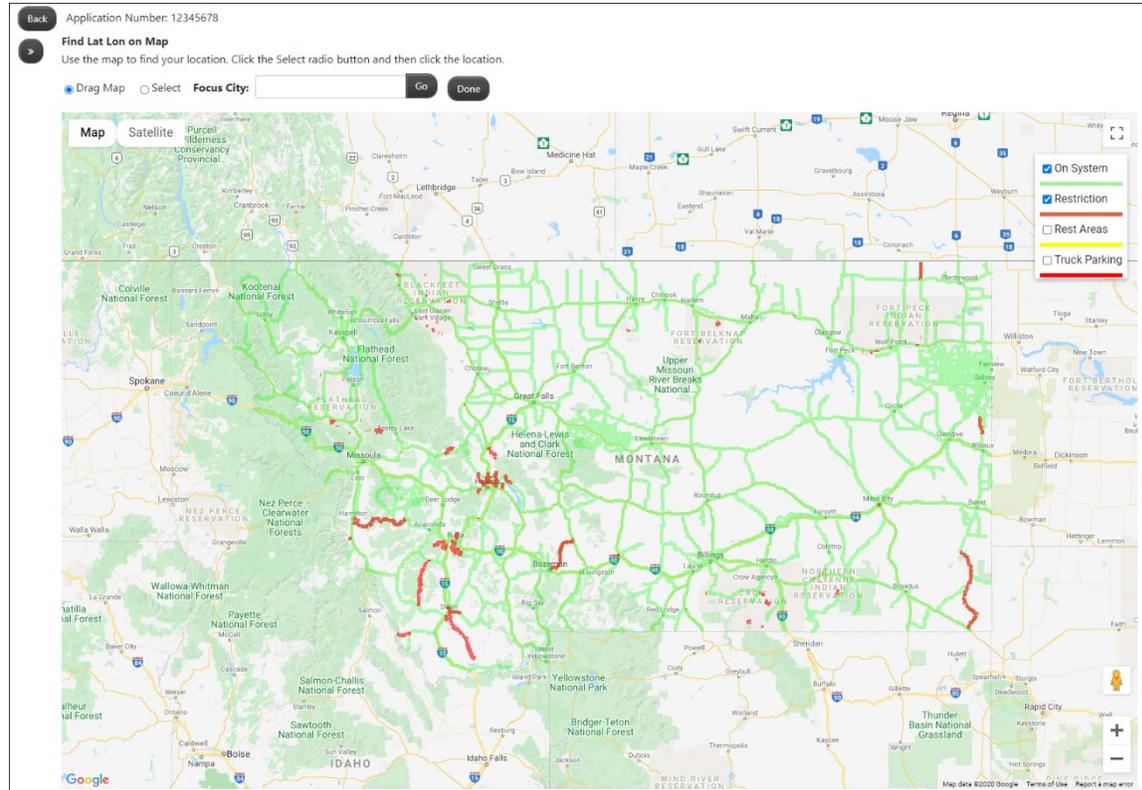
Step	Description
	<p>Note: If ARS is unable to generate a route based on the Origin and Destination submitted in the Enter Trip Panel, the Validation Results Panel is used to inform the user why the trip failed and provide alternative routing points to enter to calculate the desired route of travel. Refer to Validation Results Panel on page 31 for more information.</p>
5.	<p><u>By Selecting a Location on a Map (Lat/Lon / Map)</u></p> <p>A user may route a trip using a latitude and longitude coordinate as an Origin or Destination if the trip needs to begin or end at a specific point. This route point is a location on the map manually selected by the user.</p> <ul style="list-style-type: none"> Select Lat/Lon / Map from the Origin and/or Destination dropdown list in the Enter Trip Panel. <p><i>The fields will change to allow users to enter latitude and longitude coordinates.</i></p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> </div> <ul style="list-style-type: none"> Enter the latitude and longitude values of the location to be used in the Lat and Lon fields if the coordinates are known. If the latitude and longitude coordinates are unknown, click the Find button to the right of the Lat and Lon fields.

**Montana Automated Routing System
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Scenario Steps

Step	Description
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The **Find Lat Lon on Map** screen will be displayed.



- Use the **Find Lat Lon on Map** screen to select a routing Origin and/or Destination by clicking on the map.

Select Location Screen Elements

Element	Description
Drag Map Radio Button	Select to drag the map to the area the user would like to view
Select Radio button	Select to set an Origin or Destination location to route
Focus City field	Enter the name of a city or town and click the Go button to center the map on that city and zoom to a level where the city fills the screen.
Go Button	Click to go to the city or town the user wants to zoom in to after entering the city name in the Focus City field
Done Button	Click to return to the Enter Trip Panel

**Montana Automated Routing System
External User Guide**

Select Location Screen Elements

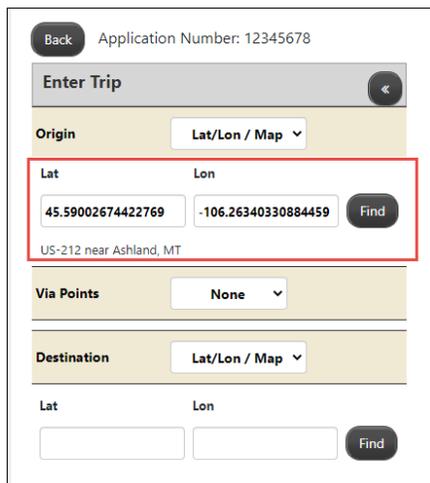
			Description
Map Area Note: These tools are provided by Google Maps and could change at any time. PSDC has no control over the availability of these tools.	Element	Symbol	Displays roads in the State
	Map button		The Map button allows the user to toggle to Map view.
	Satellite button		The Satellite button allows the user to toggle to Satellite view.
	Full Screen View		Click to view the map in full screen view
	Layers checkboxes		The Layers checkboxes allow the user to add and/or remove layers on the map such as on-system roads, restrictions, rest areas, and truck parking.
	Pegman icon		The Pegman icon allows users to view a specific location on the map, in Street view.
	Zoom Level		Click the Zoom Level icons (+/-) to zoom in and out of the center of the map.

- Use the *Focus City* tool (refer to **Using the Focus City Tool** on page 22) and the *Zoom* tool (refer to **Map Zoom** on page 13) to locate the Origin and/or Destination location. Be sure to zoom in close enough to see both directions of travel.
- Click the **Select** radio button.



- Click the desired location on the map.

The Find Lat Lon on Map screen will be closed, and the location will be entered in the Lat and Lon fields in the Enter Trip Panel.



- Enter the remainder of the Origin and/or Destination.
- Click the **Validate and Run** button.

Montana Automated Routing System External User Guide

Scenario Steps

Step	Description
------	-------------

Application Number: 12345678

Enter Trip ←

Origin Lat/Lon / Map

Lat: Lon: Find

Via Points None

Destination Lat/Lon / Map

Lat: Lon: Find

Validate and Run ?

Add Return Trip

The **Trip Results Panel** will be displayed. Refer to **Working With Trip Results** on page 32 for more information.

Note: When the system doesn't have any problems with the information entered, the **Trip Results Panel** will display the route. Review the route and driving directions. Use the **Enter Trip Panel** to make any changes. Changes will require the user to click the **Validate and Run** button to update the route.

Route Description

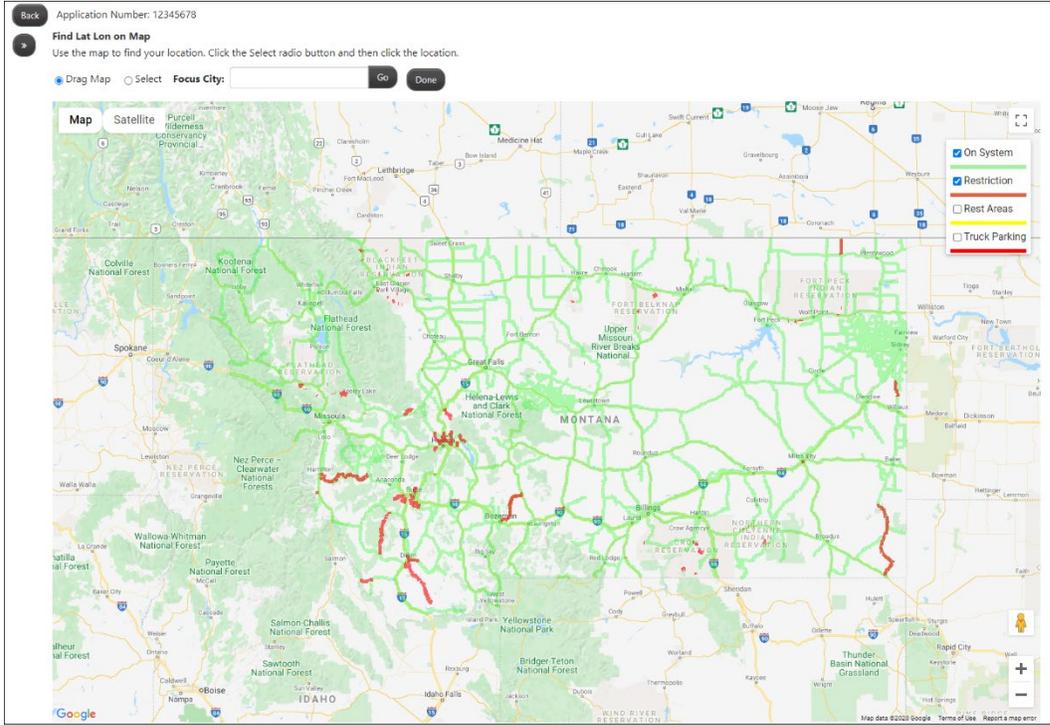
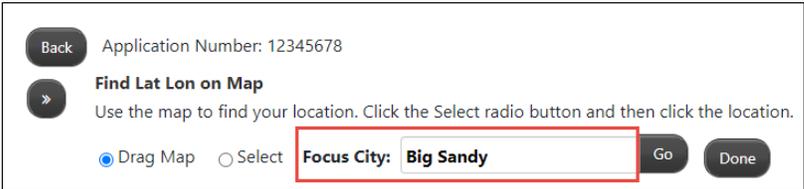
Order	From	To	Distance
200	2000	Turn right onto US-12 N/200	2000
201	2000	Continue on US-12 N/200 for 1000 feet	1000
202	2000	Turn right onto US-12 N/200	1000
203	2000	Turn right onto US-12 N/200	1000
204	2000	Turn right onto US-12 N/200	1000
205	2000	Turn right onto US-12 N/200	1000
206	2000	Turn right onto US-12 N/200	1000
207	2000	Turn right onto US-12 N/200	1000
208	2000	Turn right onto US-12 N/200	1000
209	2000	Turn right onto US-12 N/200	1000
210	2000	Turn right onto US-12 N/200	1000
211	2000	Turn right onto US-12 N/200	1000
212	2000	Turn right onto US-12 N/200	1000
213	2000	Turn right onto US-12 N/200	1000
214	2000	Turn right onto US-12 N/200	1000
215	2000	Turn right onto US-12 N/200	1000
216	2000	Turn right onto US-12 N/200	1000
217	2000	Turn right onto US-12 N/200	1000
218	2000	Turn right onto US-12 N/200	1000
219	2000	Turn right onto US-12 N/200	1000
220	2000	Turn right onto US-12 N/200	1000
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223	2000	Turn right onto US-12 N/200	1000
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246	2000	Turn right onto US-12 N/200	1000
247	2000	Turn right onto US-12 N/200	1000
248	2000	Turn right onto US-12 N/200	1000
249	2000	Turn right onto US-12 N/200	1000
250	2000	Turn right onto US-12 N/200	1000

Scenario Steps

Step	Description
	<ul style="list-style-type: none"> Click the Next button to continue the Order Permits process in ePART. <p>Helpful Hints:</p> <ul style="list-style-type: none"> When selecting a location, zoom in sufficiently to view both lanes of travel for divided highways. Select the location traveling in the correct direction. If the user clicks too close to an intersection, the system will assume the intersection as the location selection. If the user selects a location that is not on an available road network, the system will prompt the user to pick another location and will display all available roads highlighted green to aid in selection. <p>Note: If ARS is unable to generate a route based on the Origin and Destination submitted in the Enter Trip Panel, the Validation Results Panel is used to inform the user why the trip failed and provide alternative routing points to enter to calculate the desired route of travel. Refer to Validation Results Panel on page 31 for more information.</p>
6.	<p><u>Using the Focus City Tool</u></p> <ul style="list-style-type: none"> Select Lat/Lon / Map from the Origin and/or Destination dropdown list in the Enter Trip Panel. <p><i>The fields will change to allow users to enter latitude and longitude coordinates.</i></p> <div data-bbox="256 919 781 1709" style="border: 1px solid black; padding: 10px; margin: 10px 0;"> </div> <ul style="list-style-type: none"> Click the Find button to the right of the Lat and Lon fields.

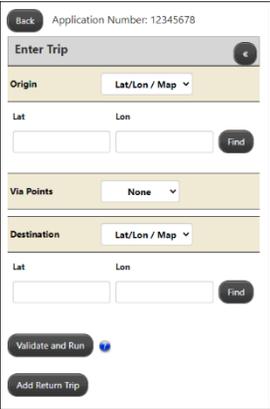
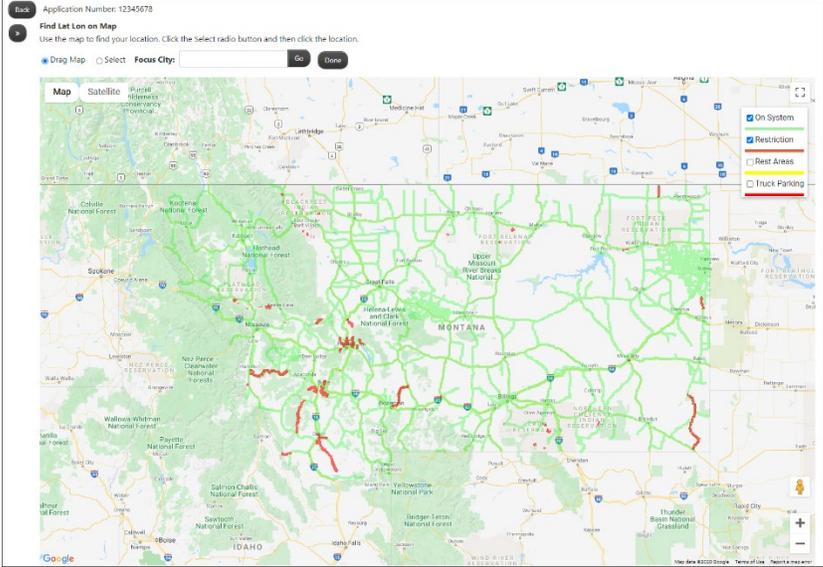
Montana Automated Routing System
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Scenario Steps

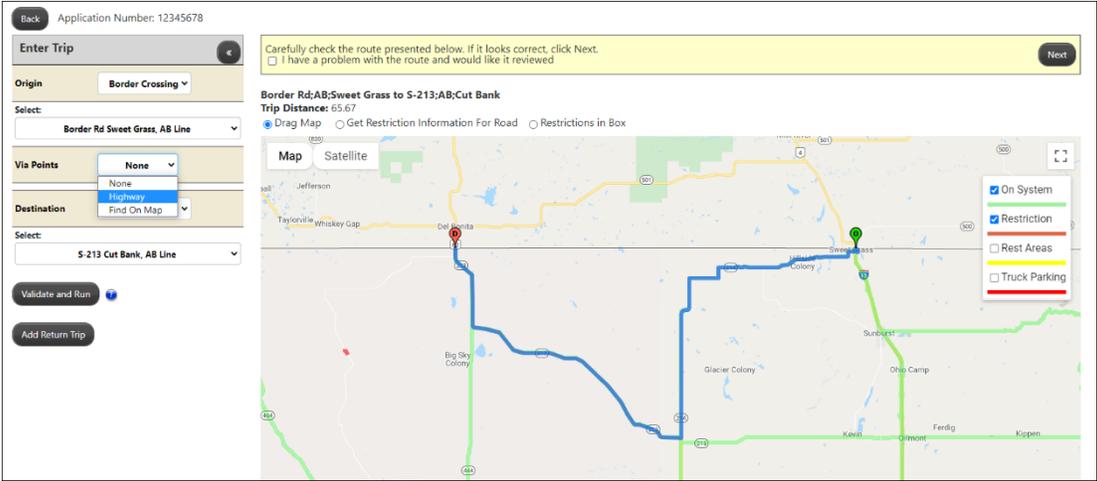
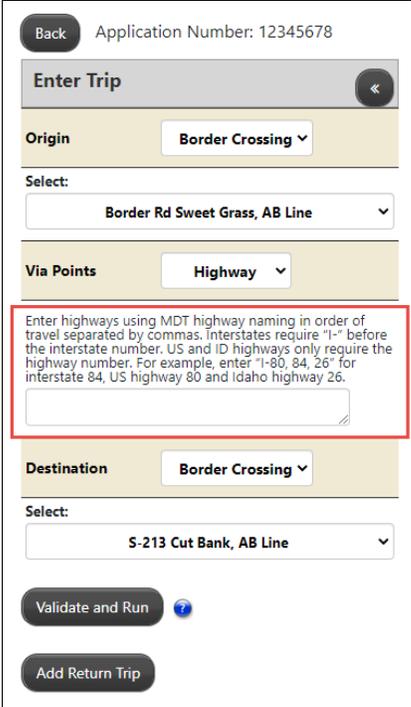
Step	Description
	<p data-bbox="219 344 755 373"><i>The Find Lat Lon on Map screen will be displayed.</i></p> <div data-bbox="219 388 1269 1113"><p>The screenshot shows the 'Find Lat Lon on Map' interface. At the top, there is a 'Back' button and the text 'Application Number: 12345678'. Below that is a 'Find Lat Lon on Map' section with a right-pointing arrow and the instruction 'Use the map to find your location. Click the Select radio button and then click the location.' There are two radio buttons: 'Drag Map' (selected) and 'Select'. To the right is a 'Focus City:' text input field with a 'Go' button and a 'Done' button. The main area is a map of Montana with various routing lines in green, red, and yellow. A legend on the right side of the map includes: 'On System' (checked), 'Restriction' (checked), 'Rest Areas' (unchecked), and 'Truck Parking' (unchecked). The map shows major highways and geographical features.</p></div> <ul data-bbox="219 1134 1031 1165" style="list-style-type: none">• Enter the name of a city or town within the State in the Focus City field. <div data-bbox="259 1176 1063 1365"><p>This close-up shows the 'Focus City:' text input field with the text 'Big Sandy' entered. The 'Go' and 'Done' buttons are visible to the right of the field.</p></div> <ul data-bbox="219 1386 1063 1470" style="list-style-type: none">• Click the Go button. <i>The map will center to the city or town entered and will zoom to a set level.</i> <p data-bbox="219 1480 1494 1543">Note: If the Done button is clicked instead of the Go button, the user will be returned to the Enter Trip Panel to make a different routing selection.</p>

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Scenario Steps

Step	Description
7.	<p data-bbox="220 344 496 373">Using the Drag Map Tool</p> <ul data-bbox="220 394 1289 472" style="list-style-type: none"><li data-bbox="220 394 1289 472">• Select Lat/Lon / Map from the Origin and/or Destination dropdown list in the Enter Trip Panel. <i>The fields will change to allow users to enter latitude and longitude coordinates.</i>  <ul data-bbox="220 915 883 993" style="list-style-type: none"><li data-bbox="220 915 883 993">• Click the Find button to the right of the Lat and Lon fields. <i>The Find Lat Lon on Map screen will be displayed.</i>  <ul data-bbox="220 1598 1068 1774" style="list-style-type: none"><li data-bbox="220 1598 1068 1627">• Leave the Drag Map radio button selected. This is the default radio button.<li data-bbox="220 1648 617 1677">• Place the cursor in the map area.<li data-bbox="220 1698 685 1728">• Click and hold the mouse button down.<li data-bbox="220 1749 518 1778">• Drag the cursor around. <p data-bbox="258 1793 691 1822"><i>The map area will move with the cursor.</i></p>

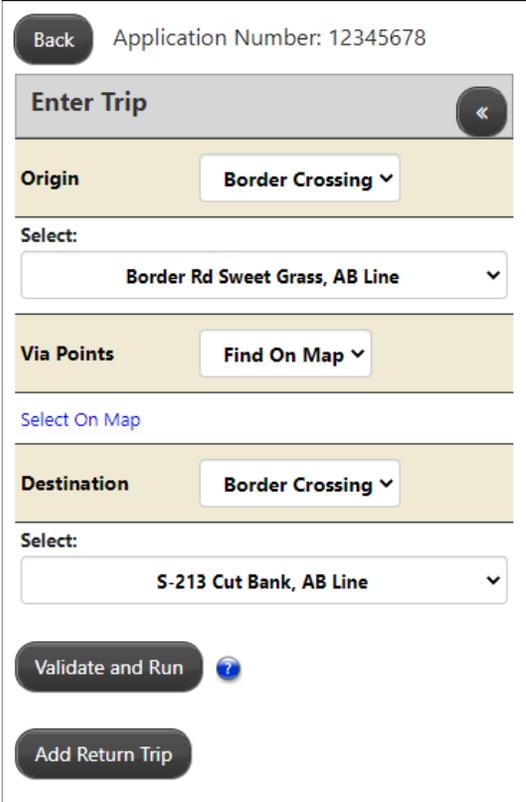
Scenario Steps

Step	Description
9.	<p>Using Via Points – Highways</p> <p>The Via Highways routing method is for use when editing the route. It is recommended that the user first try to create the route with only an Origin and Destination. If the desired route is not generated, edit the route by adding Via Highways or Via Points.</p> <ul style="list-style-type: none"> Select the Highway option from the Via Points dropdown list in the Enter Trip Panel.  <p>The <i>Highway Names</i> field will be displayed.</p>  <p>Enter highways using MDT highway naming in order of travel separated by commas. Interstates require "I-" before the interstate number. US and ID highways only require the highway number. For example, enter "I-80, 84, 26" for interstate 84, US highway 80 and Idaho highway 26.</p>

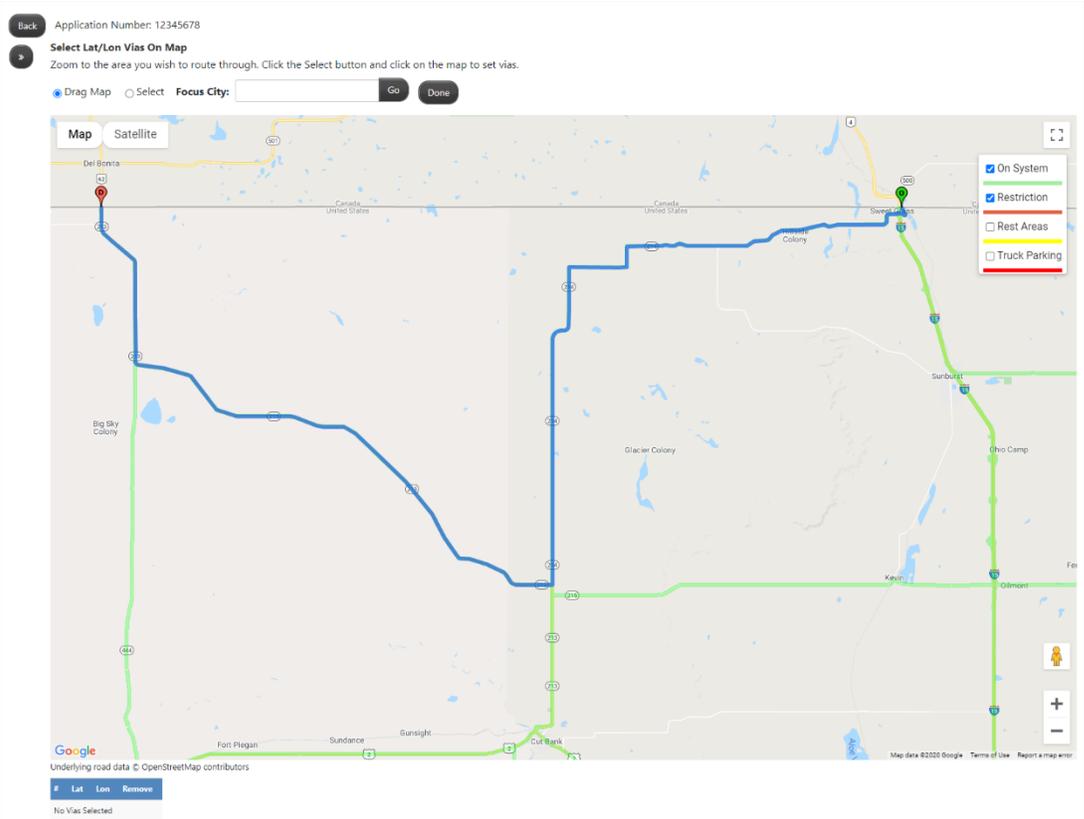
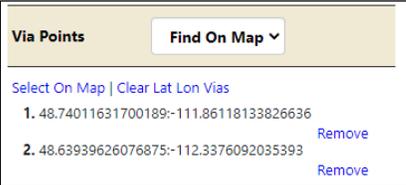
Scenario Steps

Step	Description																		
	<ul style="list-style-type: none"> Enter the names of roadways that the system should use to generate the route in the Highway Names field in the order of travel separated by commas. <p>Note: It is best to not duplicate the Origin and/or Destination in the list of Via Highways.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> </div> <ul style="list-style-type: none"> Click the Validate and Run button. <p>Note: If the route requested is blocked by restrictions or is perceived to be otherwise non-routable as entered, the system will ignore the request and route an approved route.</p> <p>For best results, use the official MDT Highway Names:</p> <p style="text-align: center;">MDT Highway Names</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #003366; color: white;">Road Type</th> <th style="background-color: #003366; color: white;">Naming Convention</th> <th style="background-color: #003366; color: white;">Examples</th> </tr> </thead> <tbody> <tr> <td>Interstate Highways</td> <td>I-XX where XX is the route number</td> <td>I-90</td> </tr> <tr> <td>US Highways</td> <td>US-XX where XX is the route number</td> <td>US-12</td> </tr> <tr> <td>Montana Highways</td> <td>MT-XX where XX is the route number</td> <td>MT-218</td> </tr> <tr> <td>County Roads</td> <td>CNTY-XX where XX is the route number</td> <td>CNTY 140</td> </tr> <tr> <td>Local Roads</td> <td>Where XX is the name of the road</td> <td>Prospect Ave</td> </tr> </tbody> </table>	Road Type	Naming Convention	Examples	Interstate Highways	I-XX where XX is the route number	I-90	US Highways	US-XX where XX is the route number	US-12	Montana Highways	MT-XX where XX is the route number	MT-218	County Roads	CNTY-XX where XX is the route number	CNTY 140	Local Roads	Where XX is the name of the road	Prospect Ave
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Local Roads	Where XX is the name of the road	Prospect Ave																	

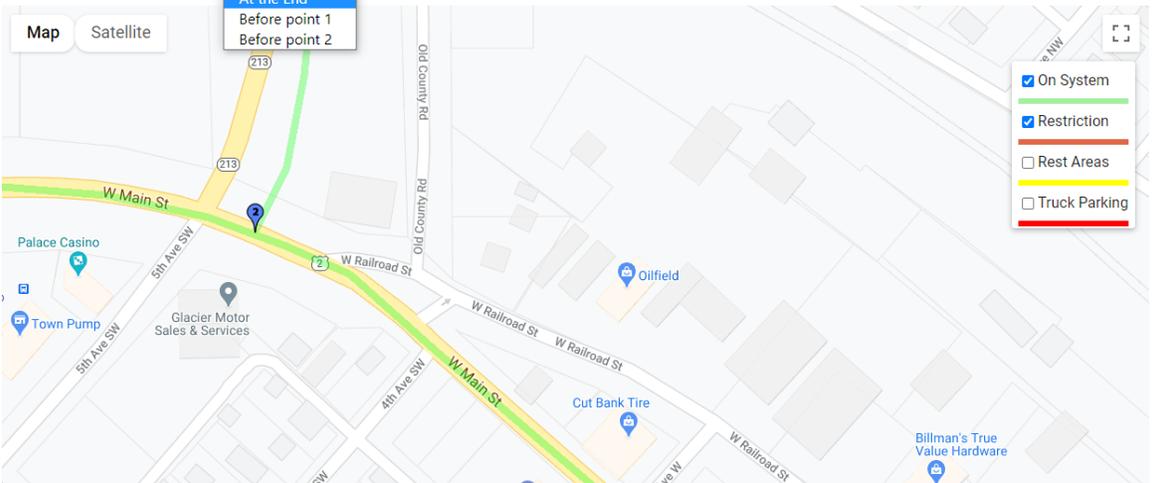
Scenario Steps

Step	Description
10.	<p data-bbox="220 344 565 373"><u>Using Via Points – Find on Map</u></p> <p data-bbox="220 394 1471 487">The Via Points routing method is for use when editing the route. It is recommended that the user first try to create the route with only an Origin and Destination. If the desired route is not generated, edit the route by expanding the Enter Trip Panel and adding Via Highways or Via Points.</p> <ul data-bbox="220 508 1218 537" style="list-style-type: none">• Select the Find on Map option from the Via Points dropdown list in the Enter Trip Panel. <p data-bbox="256 554 695 583"><i>The Select on Map link will be displayed.</i></p> <div data-bbox="261 600 787 1402"></div> <ul data-bbox="220 1423 565 1453" style="list-style-type: none">• Click the Select on Map link.

Scenario Steps

Step	Description																				
	<p><i>The Select Lat/Lon Vias on Map screen will be displayed.</i></p>  <ul style="list-style-type: none"> • Zoom in and move around the map as described in Using the Drag Map Tool on page 24. Be sure to zoom in very close to click a location on the map as a Via Point. • Select a Via Point by clicking the Select radio button and clicking the map in the selected location to add a Via Point. Click the Done button once finished. <p><i>The Via Point selected will be added to the list beneath the map and a numbered pin will be added to the map.</i></p> <table border="1" data-bbox="261 1440 675 1608"> <thead> <tr> <th>#</th> <th>Lat</th> <th>Lon</th> <th>Remove</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>48.74011631700189</td> <td>-111.86118133826636</td> <td>Remove</td> </tr> <tr> <td>2</td> <td>48.63939626076875</td> <td>-112.3376092035393</td> <td>Remove</td> </tr> </tbody> </table> <p><i>The same Via Point location will be placed in the Via Points section of the Enter Trip Panel.</i></p>  <table border="1" data-bbox="261 1675 667 1860"> <thead> <tr> <th>Via Points</th> <th>Find On Map</th> </tr> </thead> <tbody> <tr> <td>Select On Map Clear Lat Lon Vias</td> <td></td> </tr> <tr> <td>1. 48.74011631700189;-111.86118133826636</td> <td>Remove</td> </tr> <tr> <td>2. 48.63939626076875;-112.3376092035393</td> <td>Remove</td> </tr> </tbody> </table>	#	Lat	Lon	Remove	1	48.74011631700189	-111.86118133826636	Remove	2	48.63939626076875	-112.3376092035393	Remove	Via Points	Find On Map	Select On Map Clear Lat Lon Vias		1. 48.74011631700189;-111.86118133826636	Remove	2. 48.63939626076875;-112.3376092035393	Remove
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2. 48.63939626076875;-112.3376092035393	Remove																				

Scenario Steps

Step	Description
	<ul style="list-style-type: none"> • Add additional Via Points to the list by repeating the previous steps. <p>Note: When selecting each Via Point, decide if this point should be added to the end of the list or before a specific Via Point.</p> <div data-bbox="224 472 1406 1066" style="border: 1px solid black; padding: 5px;"> <p>Select Lat/Lon Vias On Map Zoom to the area you wish to route through. Click the Select button and click on the map to set vias.</p> <p><input checked="" type="radio"/> Drag Map <input type="radio"/> Select - Insert: At the End Focus City: <input type="text"/> <input type="button" value="Go"/> <input type="button" value="Done"/></p> <p>Map Satellite</p> <p>At the End Before point 1 Before point 2</p>  </div> <p>Via Points can be individually removed from the list by clicking the Remove link on the line. The entire list can be removed by clicking the Clear Lat Lon Vias link in the Via Points section on the left.</p> <div data-bbox="261 1161 807 1409" style="border: 1px solid black; padding: 5px;"> <p>Via Points <input type="button" value="Find On Map"/> ▾</p> <p>Select On Map Clear Lat Lon Vias</p> <p>1. 48.74011631700189;-111.86118133826636 Remove</p> <p>2. 48.63939626076875;-112.3376092035393 Remove</p> </div> <p>The Via Points will be entered into the trip between the Origin and Destination.</p> <p>Note: If the route requested is blocked by restrictions or is perceived to be otherwise non-routable as entered, the system will ignore the request and route an approved route. It is best to not duplicate the Origin and Destination in the list of Find on Map vias.</p>

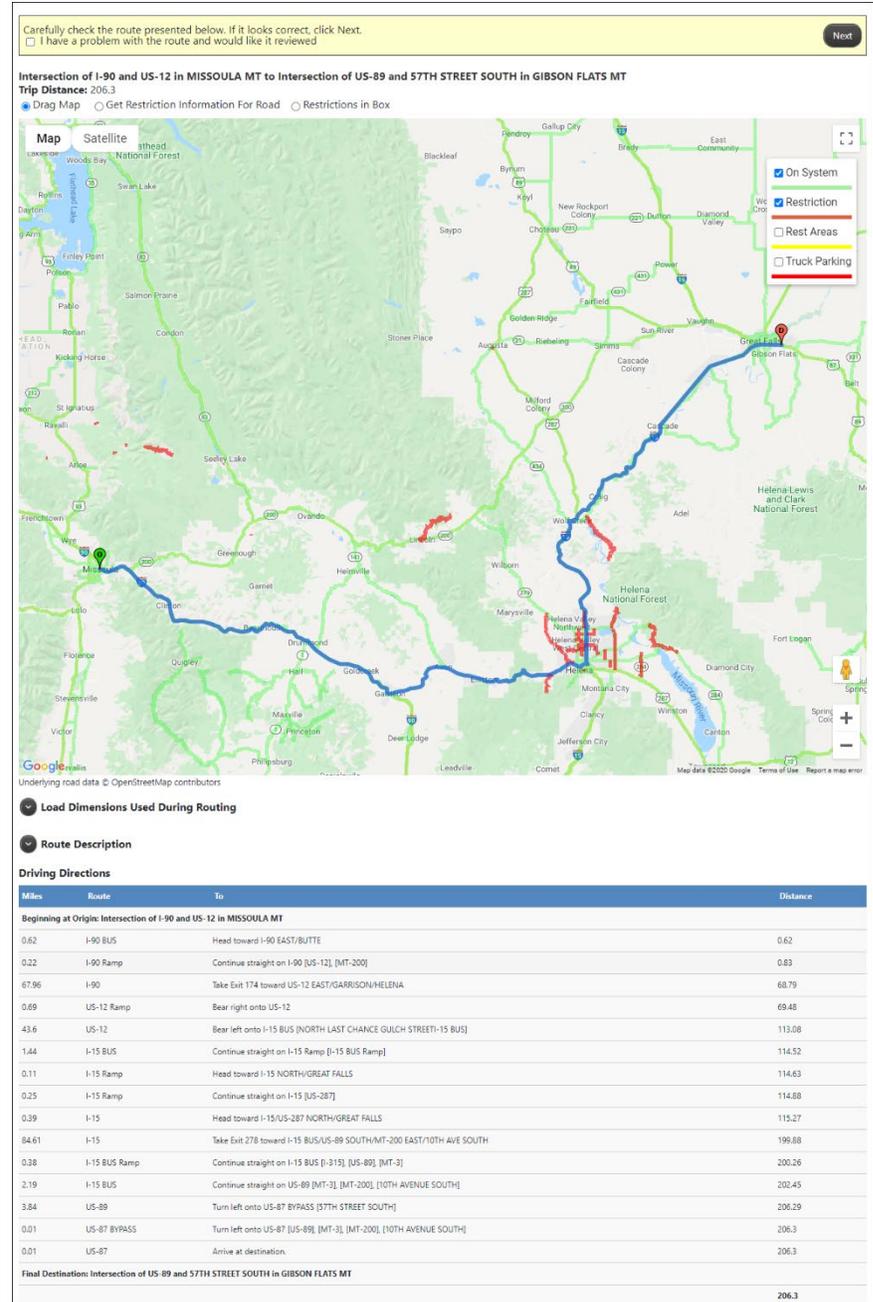
Scenario Steps

Step	Description														
11.	<p><u>Validation Results Panel</u></p> <p>If ARS is unable to generate a route based on the Origin and Destination submitted in the Enter Trip Panel, the Validation Results Panel is used to inform the user why the trip failed and provide alternative routing points to enter to calculate the desired route of travel.</p> <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="text-align: center;">Validation Results for Main Trip</p> <div style="background-color: #d9ead3; padding: 5px; margin-bottom: 5px;"> <p style="text-align: center;">Origin Location Is Valid</p> <p style="text-align: center;">Border Rd;AB;Sweet Grass is a valid location.</p> </div> <div style="background-color: #f2dede; padding: 5px;"> <p style="text-align: center;">Destination Location Not Found</p> <p style="text-align: center;">270 Prospect Ave Helena not found. Please check spelling.</p> </div> </div>														
	<p style="text-align: center;">Validation Results Panel</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #002060; color: white;">Element</th> <th style="background-color: #002060; color: white;">Function</th> </tr> </thead> <tbody> <tr> <td>Location</td> <td>Submitted routing point</td> </tr> <tr> <td rowspan="5">Type</td> <td>Routing point type selected from the Enter Trip Panel</td> </tr> <tr> <td>Address</td> <td>Route point is a street address and city/town, and/or ZIP code</td> </tr> <tr> <td>Intersection</td> <td>Route point is the intersection of two roadways The user has the option of specifying a city/town.</td> </tr> <tr> <td>Border Crossing</td> <td>Route point is a Border Crossing</td> </tr> <tr> <td>Lat/Lon / Map</td> <td>Route point is a location on the map manually selected by the user or entered latitude and longitude coordinates</td> </tr> </tbody> </table>	Element	Function	Location	Submitted routing point	Type	Routing point type selected from the Enter Trip Panel	Address	Route point is a street address and city/town, and/or ZIP code	Intersection	Route point is the intersection of two roadways The user has the option of specifying a city/town.	Border Crossing	Route point is a Border Crossing	Lat/Lon / Map	Route point is a location on the map manually selected by the user or entered latitude and longitude coordinates
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Working With Trip Results

This scenario details the steps needed to understand the trip results after a route is generated.

Scenario Steps

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**Montana Automated Routing System
External User Guide**

Scenario Steps

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Scenario Steps

Step	Description
2.	<p data-bbox="224 342 589 369"><u>Submit Route for Manual Review</u></p> <p data-bbox="224 394 1487 493">A route can be submitted to the queue for manual review if a User is unable to get the route needed for travel due to restrictions. Users must enter the Origin and Destination and click the Validate and Run button before the route can be submitted for manual review.</p> <ul data-bbox="224 520 1247 548" style="list-style-type: none"><li data-bbox="224 520 1247 548">• Users will select the I have a problem with the route and would like it reviewed checkbox. <div data-bbox="264 569 1446 688"><p data-bbox="280 604 865 632">Carefully check the route presented below. If it looks correct, click Next.</p><p data-bbox="280 632 789 659"><input type="checkbox"/> I have a problem with the route and would like it reviewed</p><p data-bbox="1349 611 1414 638">Next</p></div> <p data-bbox="264 709 670 737"><i>A free-form text box will be displayed.</i></p> <ul data-bbox="224 762 1008 789" style="list-style-type: none"><li data-bbox="224 762 1008 789">• Users will enter the reason for the route review in the field provided. <div data-bbox="264 810 1458 1037"><p data-bbox="280 846 914 873">Carefully check the route presented below. If it looks correct, click Next.</p><p data-bbox="280 873 829 900"><input checked="" type="checkbox"/> I have a problem with the route and would like it reviewed</p><p data-bbox="302 900 816 928">Please enter the reason you would like the route reviewed:</p><p data-bbox="323 928 647 955">Enter reason for route review here</p><p data-bbox="1365 915 1430 942">Next</p></div> <ul data-bbox="224 1062 1122 1089" style="list-style-type: none"><li data-bbox="224 1062 1122 1089">• Users will click the Next button to complete the Order Permit process in ePART. <p data-bbox="224 1110 1422 1178">Note: Once submitted, the permit will be submitted to the queue for State User review. The text entered in the Reason box will be displayed to the State User.</p>
3.	<p data-bbox="224 1228 370 1255"><u>Route Failure</u></p> <p data-bbox="224 1276 1227 1304">When a User cannot get a route due to restrictions, they will receive a route failure message.</p> <div data-bbox="224 1325 1495 1514"><p data-bbox="240 1352 529 1379">MT-38, NO PERMITS (2092)</p><p data-bbox="240 1388 1466 1455">ARS is unable to accommodate your requested route. Your permit application will be forwarded to the MDT permit staff for review if you continue or you can adjust your route now. To continue click here.</p></div> <ul data-bbox="224 1535 1260 1562" style="list-style-type: none"><li data-bbox="224 1535 1260 1562">• Click the To continue click here link to submit your route request to a State User for review.

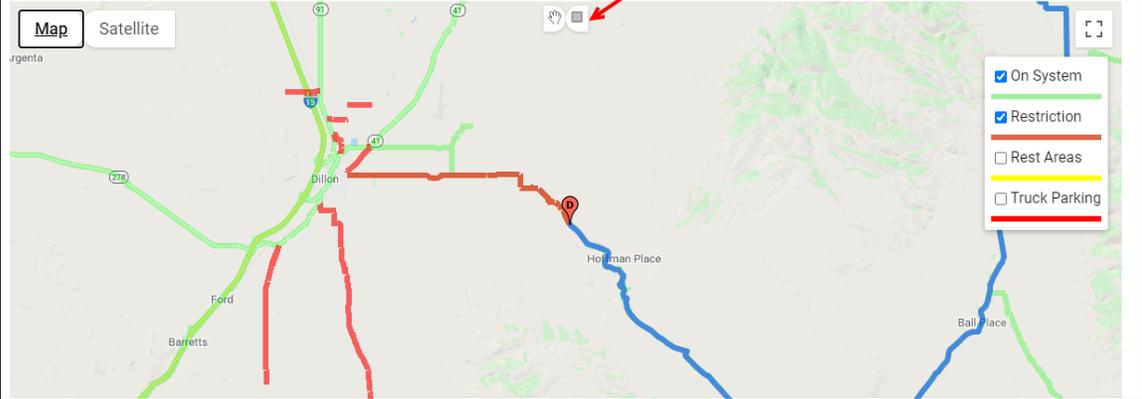
Scenario Steps

Step	Description
4.	<p data-bbox="220 344 548 373"><u>Restrictions Affecting a Route</u></p> <p data-bbox="220 394 1495 495">After generating a route, restrictions that apply to the vehicle and load dimensions will be displayed on the map as red highlights. Viewing the details for these restrictions can assist in identifying the areas where travel is restricted for the specific load size.</p> <ul data-bbox="220 520 1149 550" style="list-style-type: none">• Select the Get Restriction Information For Road radio button above the map area. <div data-bbox="261 571 1390 772"><p data-bbox="280 604 857 634">Carefully check the route presented below. If it looks correct, click Next.</p><p data-bbox="280 634 781 663"><input type="checkbox"/> I have a problem with the route and would like it reviewed</p><p data-bbox="1305 617 1349 646">Next</p><p data-bbox="272 688 686 718">Border Rd;AB;Sweet Grass to MT-16;SK;Outlook</p><p data-bbox="272 718 448 747">Trip Distance: 458.09</p><p data-bbox="272 747 906 772"><input checked="" type="radio"/> Drag Map <input type="radio"/> Get Restriction Information For Road <input type="radio"/> Restrictions in Box</p></div> <ul data-bbox="220 798 1143 877" style="list-style-type: none">• Zoom to a level where the restricted roadway to be examined can be clearly seen.• Click the restricted roadway. 

Scenario Steps

Step	Description										
	<p>The Restriction Viewer screen will be displayed for the roadway.</p> <p>Note: The Restriction Viewer screen will list any restrictions associated to the particular road segment that was selected. Each restriction will include the official MT text for that restriction and the associated dimensions. At least one of the restrictions for that section of the road will apply to the vehicle and load being routed since it was highlighted in red.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <div style="background-color: #cccccc; padding: 2px;">Restriction Viewer x</div> <div style="padding: 5px;"> <p>Restriction Information</p> <p>Road Name:SWEETWATER ROAD Road ID:328294</p> <p style="text-align: center;">Close</p> <div style="background-color: #800000; color: white; padding: 2px; text-align: center;"> BEAVERHEAD COUNTY: SWEETWATER RD, 7 TON SINGLE AXLE 14 TON TANDEM </div> <p>Conditions: Axle Weight: 14000; Tandem Weight: 28000;</p> <p style="text-align: center;">Close</p> </div> </div> <p>Note: If a No restrictions found message is displayed, click the OK button, zoom in closer on the map and be sure to click the road segment that is highlighted in red.</p> <ul style="list-style-type: none"> Click the Close button to close the Restriction Viewer screen and return to the Trip Results Panel. Click the Next button to continue the Order Permits process in ePART. <p style="text-align: center;">Restriction Information Screen Elements</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #002060; color: white;">Element</th> <th style="background-color: #002060; color: white;">Function</th> </tr> </thead> <tbody> <tr> <td>Road Name</td> <td>The ARS name of the selected road segment</td> </tr> <tr> <td>Road ID</td> <td>The ARS Road Segment ID</td> </tr> <tr> <td>Close Button</td> <td>Click the Close button to close the Restriction Viewer screen.</td> </tr> <tr> <td>Restriction description</td> <td>The details of each restriction assigned to the current road segment</td> </tr> </tbody> </table>	Element	Function	Road Name	The ARS name of the selected road segment	Road ID	The ARS Road Segment ID	Close Button	Click the Close button to close the Restriction Viewer screen.	Restriction description	The details of each restriction assigned to the current road segment
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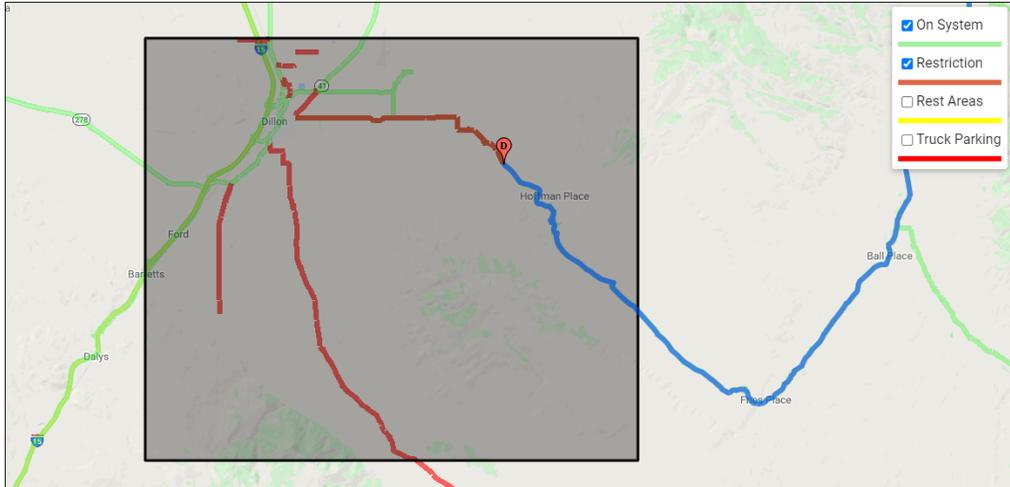
Scenario Steps

Step	Description
5.	<p>Restrictions in Box</p> <p>From the Trip Results Panel, users can view restrictions by clicking the restricted road segment as described in the previous step, or users can draw a box on the map to display all restrictions within the shape.</p> <p>Note: Users cannot override restrictions from this function. This feature is for viewing only.</p> <ul style="list-style-type: none"> Select the Restrictions in Box radio button from the Trip Results Panel. <div data-bbox="261 569 1292 762" style="border: 1px solid black; padding: 5px;"> <p>Carefully check the route presented below. If it looks correct, click Next. <input type="checkbox"/> I have a problem with the route and would like it reviewed Next</p> <p>Border Rd;AB;Sweet Grass to SWEETWATER ROAD, 0.4mi E of Guntner Place, MT Trip Distance: 354.01</p> <p><input checked="" type="radio"/> Drag Map <input type="radio"/> Get Restriction Information For Road <input type="radio"/> Restrictions in Box</p> </div> <p><i>The following message will be displayed.</i></p> <div data-bbox="261 825 777 974" style="border: 1px solid black; padding: 5px;"> <p>montana.promiles.com says Click the rectangle button on the map to begin drawing.</p> <p style="text-align: right;">OK</p> </div> <ul style="list-style-type: none"> Click the OK button. Click the Rectangle icon on the map. <div data-bbox="261 1089 1403 1520" style="border: 1px solid black; padding: 5px;"> <p><input type="radio"/> Drag Map <input type="radio"/> Get Restriction Information For Road <input checked="" type="radio"/> Restrictions in Box</p>  </div>

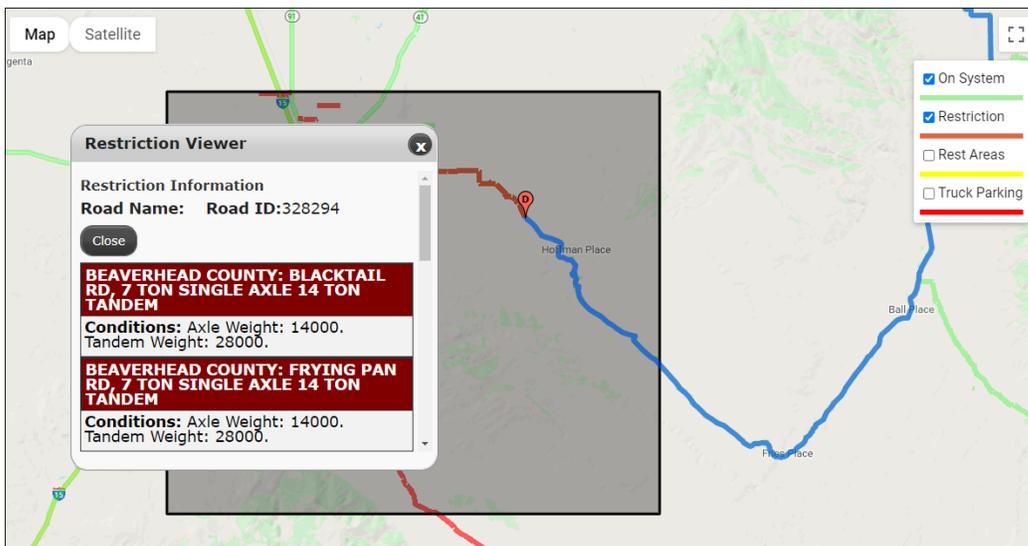
Scenario Steps

Step	Description
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- Select an area on the map.



The **Restriction Viewer** screen will be displayed along with the highlighted box.



Note: All restrictions contained within the highlighted box on the map are listed on the **Restriction Viewer** screen.

Note: If there are a large number of restrictions displayed, reduce the size of the box for the best results. Users cannot override restrictions from this function. This feature is for viewing restrictions only.

- Click the **Close** button to return to the **Trip Results Panel**.

Scenario Steps

Step	Description																																																												
6.	<p><u>Trip Results: Load Dimensions Used During Routing</u></p> <p>The Load Dimensions Used During Routing section will list the load dimensions entered during the Order Permits process. This is provided as an entry error checking feature to ensure that the route generated matches the vehicle and load parameters as intended.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>Load Dimensions Used During Routing</p> <p>Width: 12 ft. 0 in. Height: 13 ft. 0 in. Length: 100 ft. 0 in. Weight: 92000</p> </div> <p style="text-align: center;">Trip Results: Load Dimensions Used During Routing</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #003366; color: white;">Dimensions</th> <th style="background-color: #003366; color: white;">Definition</th> </tr> </thead> <tbody> <tr> <td>Width</td> <td>Greatest width of the vehicle and load</td> </tr> <tr> <td>Height</td> <td>Greatest height of the vehicle and load</td> </tr> <tr> <td>Length</td> <td>Total length of the vehicle and load</td> </tr> <tr> <td>Weight</td> <td>Total weight of the vehicle and load</td> </tr> </tbody> </table>	Dimensions	Definition	Width	Greatest width of the vehicle and load	Height	Greatest height of the vehicle and load	Length	Total length of the vehicle and load	Weight	Total weight of the vehicle and load																																																		
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7.	<p><u>Trip Results: Route Description</u></p> <p>The Route Description is an abbreviated route excluding turn-by-turn driving directions, distance, and time calculations. The abbreviated route mimics manual routing terminology. <i>The Route Description will be displayed when the Expand Chevron icon is clicked.</i></p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p>Route Description</p> <p>==> I-90 ID Line <==I-90, @ Exit 174 toward US-12 EAST/GARRISON/HELENA, US-12 Ramp, US-12, I-15 BUS, I-15 Ramp, on ramp, I-15, on ramp, @ Exit 200 toward S-279/S-453/LINCOLN RD, S-453, I-15 Ramp, I-15==> I-15, 2.9mi SE of Iron, MT <==</p> </div>																																																												
8.	<p><u>Trip Results: Driving Directions</u></p> <p>This section will display the detailed turn-by-turn driving directions, distance, and time calculations.</p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="background-color: #003366; color: white;">Miles</th> <th style="background-color: #003366; color: white;">Route</th> <th style="background-color: #003366; color: white;">To</th> <th style="background-color: #003366; color: white;">Distance</th> </tr> </thead> <tbody> <tr> <td colspan="4">Beginning at Origin Border R&AB/Sweet Grass</td> </tr> <tr> <td>0.42</td> <td>BORDER RD</td> <td>Bear right onto BORDER STREET</td> <td>0.42</td> </tr> <tr> <td>0.2</td> <td>BORDER STREET</td> <td>Continue straight on S-214</td> <td>0.62</td> </tr> <tr> <td>0.24</td> <td>S-214</td> <td>Continue straight on I-15 Ramp [S-214 Ramp]</td> <td>0.87</td> </tr> <tr> <td>0.24</td> <td>I-15 Ramp</td> <td>Continue straight on I-15</td> <td>1.1</td> </tr> <tr> <td>229.96</td> <td>I-15</td> <td>Take Exit 154 toward MT-69/BOULDER</td> <td>231.07</td> </tr> <tr> <td>0.23</td> <td>I-15 Ramp</td> <td>Turn left onto MT-69</td> <td>231.3</td> </tr> <tr> <td>38.4</td> <td>MT-69</td> <td>Continue straight on MT-55 (MT-2) (WEST LEGION AVENUE)</td> <td>269.7</td> </tr> <tr> <td>12.44</td> <td>MT-55</td> <td>Continue straight on MT-41</td> <td>282.13</td> </tr> <tr> <td>14.34</td> <td>MT-41</td> <td>Continue straight on MT-287 (MAIN STREET)</td> <td>296.47</td> </tr> <tr> <td>18.58</td> <td>MT-287</td> <td>Turn right onto S-275 (VIRGINIA AVENUE)</td> <td>318.04</td> </tr> <tr> <td>13.58</td> <td>S-275</td> <td>Bear right onto SWEETWATER ROAD</td> <td>329.62</td> </tr> <tr> <td>24.4</td> <td>SWEETWATER ROAD</td> <td>Arrive at destination.</td> <td>354.01</td> </tr> <tr> <td colspan="3">Final Destination: SWEETWATER ROAD, 0.4mi E of Gunter Place, MT</td> <td>354.01</td> </tr> </tbody> </table> </div>	Miles	Route	To	Distance	Beginning at Origin Border R&AB/Sweet Grass				0.42	BORDER RD	Bear right onto BORDER STREET	0.42	0.2	BORDER STREET	Continue straight on S-214	0.62	0.24	S-214	Continue straight on I-15 Ramp [S-214 Ramp]	0.87	0.24	I-15 Ramp	Continue straight on I-15	1.1	229.96	I-15	Take Exit 154 toward MT-69/BOULDER	231.07	0.23	I-15 Ramp	Turn left onto MT-69	231.3	38.4	MT-69	Continue straight on MT-55 (MT-2) (WEST LEGION AVENUE)	269.7	12.44	MT-55	Continue straight on MT-41	282.13	14.34	MT-41	Continue straight on MT-287 (MAIN STREET)	296.47	18.58	MT-287	Turn right onto S-275 (VIRGINIA AVENUE)	318.04	13.58	S-275	Bear right onto SWEETWATER ROAD	329.62	24.4	SWEETWATER ROAD	Arrive at destination.	354.01	Final Destination: SWEETWATER ROAD, 0.4mi E of Gunter Place, MT			354.01
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**Montana Automated Routing System
External User Guide**

Update History

Version #	Date	Author	Description
0.1	12/31/2020	PSDC	Initial draft developed for Montana ARS Customer User Guide.
0.2	01/06/2021	MDT / MCS	Overview and changes marked throughout the document. Questions asked.