

South Central Connection Corridor – Beloit to Madison

Corridor Overview

This 50-mile corridor is part of a major interstate passenger and freight route that connects southern Wisconsin to Rockford, IL and Chicago, IL and points beyond. The corridor provides a critical tourism link to much of northern Wisconsin as well as the Baraboo-Wisconsin Dells area. It includes the Wisconsin Veterans Memorial Highway (I-90 from Illinois/Wisconsin state line to the Minnesota/Wisconsin state line) and the Korean War Veterans Memorial Highway (US 51 from Illinois/Wisconsin state line to the Michigan/Wisconsin state line). The corridor serves the urban and urbanized areas of Madison, Oregon, Edgerton, Janesville and Beloit.



Current Corridor Characteristics

- Airports:
 - › Air carrier (passenger) airport: Dane County Regional (Madison)
 - › Transport/corporate airport: Rock County (Janesville)
 - › General utility airport: Middleton Municipal Airport - Morey Field
 - › Basic utility airport: Blackhawk Airfield (Cottage Grove)
- Highways:
 - › Primary state highways: I-39, I-90, US 14, US 51, WIS 213
 - › Corridors 2030 Backbone Routes: I-39, I-90
 - › NHS intermodal terminals with local road connections: Badger/Greyhound Terminal (Madison), Dane County Regional Airport (Madison)
- Public Transit:
 - › Bus systems: Madison, Monona, Janesville, Beloit
 - › Shared-ride taxi: Stoughton, Sun Prairie, Edgerton
 - › Specialized transit: Available in all counties; level of service depends on location
- Fixed Guideway Transit: None along this corridor
- Rail Freight: Freight rail service exists
- Intercity Passenger Rail: None along this corridor
- Intercity Bus:
 - › Service between Madison and Chicago, IL, with stops in Janesville and Beloit
 - › Service between Chicago, IL and Minneapolis/St Paul, MN, with stops in Beloit and Madison
 - › Connections in Madison to intercity bus services to La Crosse and Milwaukee
- Ports and Harbors: None along this corridor
- Ferry: None along this corridor
- Bicycle/Pedestrian:
 - › Major trails: Ice Age Trail (pedestrian only)
 - › Accommodations, linkages and accessibility along and across some facilities

Future Corridor Vision

- Airports: Continued service, increased direct air service and infrastructure projects to support business airplane-capable airports
- Highways: Maximized preservation and maintenance of infrastructure and continued user efficiency and mobility, including improved traffic movement, along I-39, I-90, US 14, US 51 and WIS 213 by implementing:
 - › New Corridors 2030 Backbone Route: US 14 (I-43 to I-39/90)
 - › New Corridors 2030 Connector Route: US 14 (US 12/18 to I-39/90)
 - › *State Access Management Plan* vision
 - Tier 1; I-39/90, US 51 (WIS 138 to Madison municipal limit; WIS 73 to I-39/90) and US 14 (WIS 92 to US 12/18)
 - Tier 2A; US 51 (Beloit municipal limit to Janesville municipal limit) and US 14 (WIS 213 to WIS 92)
 - Tier 2B; US 51 (Stoughton municipal limit to I-39/90; US 14 to Edgerton municipal limit)
 - Tier 3; US 51 (Edgerton municipal limit to WIS 73) and WIS 213
 - › Candidate passing lane corridors (US 14)
 - › Enumerated Major projects under study (I-39 and US 51)
- Public Transit: Increased regional coordination and continued service
- Fixed Guideway Transit: New service (Dane County, Rock County)
- Rail Freight: Continued freight rail service and corridor preservation
- Intercity Passenger Rail:
 - › New service:
 - New Madison – Milwaukee – Chicago, IL intercity passenger rail service
 - New Minneapolis/St. Paul, MN – Madison – Milwaukee – Chicago, IL intercity passenger rail service
 - All new intercity passenger rail services will operate within existing corridors
- Intercity Bus:
 - › Continued existing services
 - › New service:
 - Phase 1: Between Madison and Green Bay and between Madison and Wausau
 - Phase 2: Between Madison and Dubuque, IA; between Janesville and Milwaukee; between Janesville and Kenosha; between Madison and Sheboygan; between Madison and La Crosse via I-90; and between proposed Madison passenger rail station and Chicago, IL passenger rail station, with stops in Janesville and Beloit
- Ports and Harbors: None along this corridor
- Ferry: None along this corridor
- Bicycle/Pedestrian: Continued and enhanced accommodations, linkages and accessibility along and across facilities

	Year 2007	Year 2030
County populations		
Dane	468,514	579,976
Rock	159,530	177,855
Population age 65 and older	59,264	136,425
Enplanements		
Dane County Regional Airport	796,032	1,481,200
Intercity passenger rail ridership		
Madison station	NA	309,000
Average annual daily traffic along		
I-39/90	38,700 – 85,600	61,000 – 125,400
US 51	4,900 – 44,200	6,400 – 63,000
US 14	6,800 – 21,800	9,100 – 28,400
WIS 213	1,700 – 2,900	2,200 – 4,000
Truck volume along		
I-39/90	High	Very high
US 51	Low	Low
US 14	Low	Low
WIS 213	Low	Low

Refer to the "Corridor Map - Data Definitions and Sources" for more information.



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About Multimodal Corridors

The *Connections 2030* planning process identified statewide multimodal, intercity corridors as visual communication tools to view existing conditions, transportation features and future recommendations. These corridors collectively represent a starting point toward long-term implementation of *Connections 2030* and the corridor management process.

These multimodal corridors:

- Serve critical sectors of the economy or major population centers
- Carry significant travel activity for passenger and/or freight traffic
- Show significant growth in travel or economic development
- Serve an important role for other transportation modes

Corridor selection was also influenced by local land use and development plans. Each corridor is a broad geographical band that follows a general directional flow connecting trips that may include streets, highways, rail, pedestrian, bicycle facilities and routes and transit route alignments. A corridor generally follows the directional flow of a state highway alignment. It includes parallel state and local roads, service roads and facilities for other transportation modes, such as rail, pedestrian, and transit, which influence the mobility, capacity, safety and other functional elements of the corridor.

Important Notes about What is Depicted

The map shows currently programmed and proposed future activities (as of December 31, 2007) that have significant impacts on the corridor. Not all projects or initiatives are mapped, and additional analyses, including an environmental document, will be conducted before any of the projects or activities are completed. These analyses may include studying alternatives (including a no build/no change alternative) with public involvement opportunities as appropriate. Resources and shifting priorities may impact WisDOT's implementation of any proposed activity within the time frames identified. WisDOT will remain flexible in the implementation of *Connections 2030* recommendations. The map and table activities on the following page reflect actions identified in:

- *Connections 2030* policies
- WisDOT's Six-Year Highway Improvement Program (2008 - 2013)
- Other WisDOT program data
- Other WisDOT plans and studies
- Metropolitan planning organizations' (MPOs), regional planning commissions' (RPCs) and tribal long-range transportation plans

For information on funding and implementation priorities, see those *Connections 2030* chapters. For more information on transportation projects, contact the WisDOT Region Office (see *Connections 2030* or www.dot.wisconsin.gov/projects/ for a map of region offices). MPO, RPC and tribal long-range transportation plans offer recommendations on all transportation modes within their boundaries.

Existing Facilities

- Airport
- Park and ride
- Intercity bus stop
- Rail station
- Fixed guideway (commuter rail station)
- Port or harbor
- Mississippi River lock and dam
- Ferry
- Bicycle/pedestrian trail
- Rail-to-trail
- Railroad – private ownership
- Railroad – public ownership
- State trunk network
- State/county boundary
- Waterway
- City/village
- Metropolitan Planning Area
- Native American land

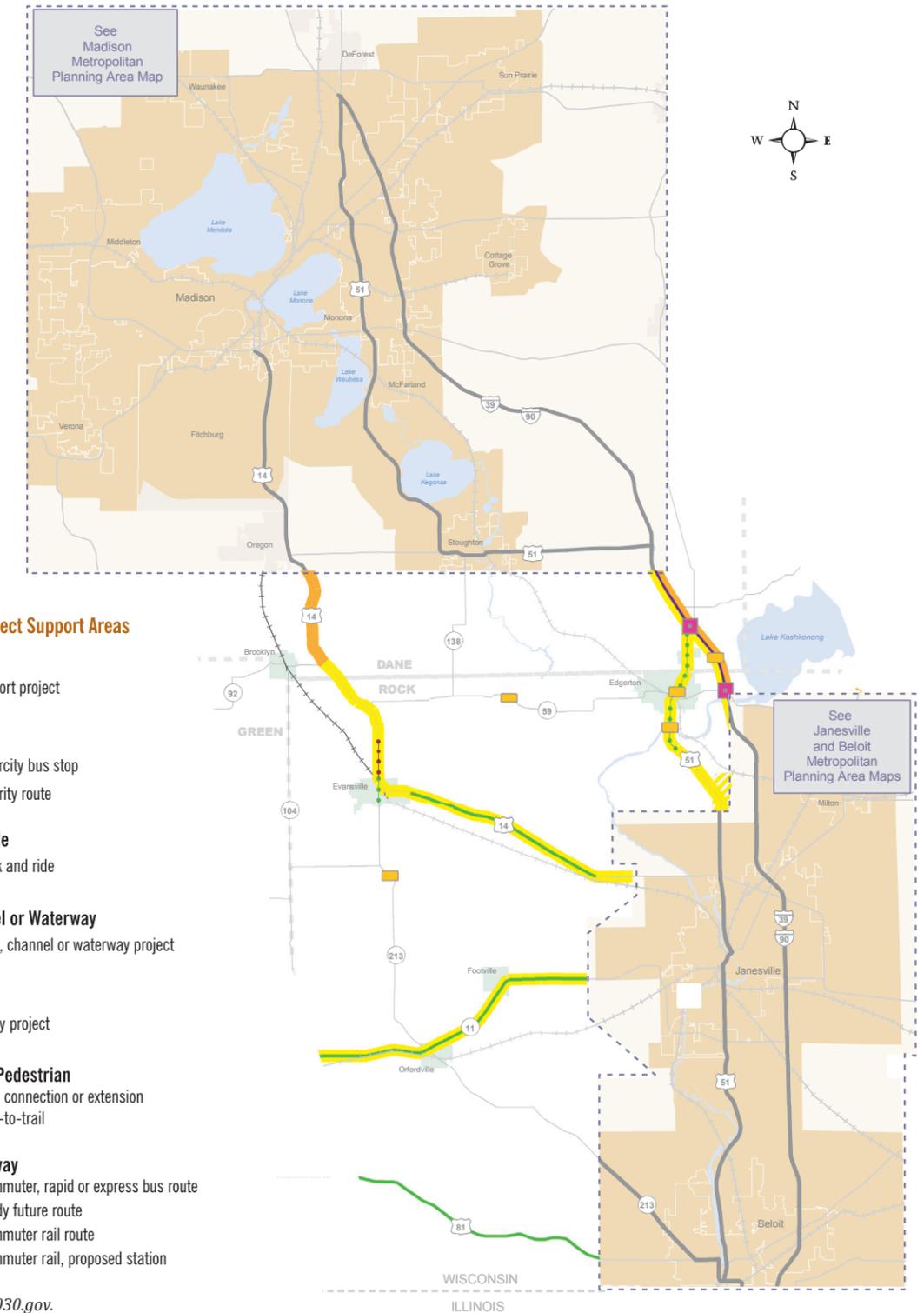
Priority Project Action Areas

- Interchange**
 - Study and/or preserve right of way
 - Study and construct new
 - Reconstruct existing
- Bicycle and Pedestrian**
 - Provide urban connection
 - Provide rural connection
- Bridge**
 - Reconstruct existing or construct new
- Intercity Passenger Rail**
 - Proposed station
 - Proposed station with intercity bus stop
 - Study future route
 - Priority route
- Highways**
 - Construct capacity project
 - Prepare corridor plan
 - Reconstruct existing
 - Construct passing lane
 - Convert to Interstate standards
 - Study bypass/new arterial

Priority Project Support Areas

- Airport**
 - Airport project
- Intercity Bus**
 - Intercity bus stop
 - Priority route
- Park and Ride**
 - Park and ride
- Port, Channel or Waterway**
 - Port, channel or waterway project
- Ferry**
 - Ferry project
- Bicycle and Pedestrian**
 - Trail connection or extension
 - Rail-to-trail
- Fixed Guideway**
 - Commuter, rapid or express bus route
 - Study future route
 - Commuter rail route
 - Commuter rail, proposed station

For more information, refer to the Corridor Map Legend Definitions document at www.wiconnections2030.gov.



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Current and Proposed Future Activities

These activities may not occur in the time frame identified due to budget constraints, changing conditions or shifting priorities. Refer to the “Important Notes about What is Depicted” for more information or contact the WisDOT Region Office.

Short-Term (2008 – 2013)

US 14	Prepare corridor plan from WIS 92 (Dane Co) to I-39/90 (Janesville)
WIS 11	Prepare corridor plan from WIS 35/US 151 to I-39/90
Commuter Bus/ Fixed Guideway	Support regional service expansion to include Janesville and Beloit in Wisconsin, and Rockton, Roscoe, Rockford and Belvedere in Illinois
Public Transit/ Fixed Guideway	Support studies of commuter bus or fixed guideway service in Dane, Rock and Walworth counties, with potential links to Rockford, IL and Chicago, IL
Public Transit/ Fixed Guideway	Support implementation of the <i>South Central Wisconsin Commuter Transportation Study</i> . Transit alternatives include commuter rail service from Janesville and/or Beloit to the Harvard, IL Metra station; commuter rail service from Madison to Rockford, IL, via either Milton or Evansville; bus rapid transit between Madison and northwestern Cook County, IL; express bus service from Madison to Rockford, IL; and feeder bus service from Beloit and/or Janesville to the Harvard, IL Metra station

Mid-Term (2014 – 2019)

I-39/90	Replace bridge over Lake Drive Rd (north of Dane/Rock county line) if supported by environmental document
US 14	Reconstruct as a new two-lane, limited access highway between WIS 138 and WIS 92 if supported by environmental document
US 51	Replace bridge over Rock River if supported by environmental document
US 51	Prepare corridor plan from US 14 to I-39
WIS 59	Replace bridge over Badfish Creek if supported by environmental document
Bicycle/Pedestrian	Provide urban and rural accommodations along US 14 from Bullard Rd to Old Hwy 92 (Evansville)
Bicycle/Pedestrian	Provide urban accommodations along US 51 from County Rd M (Rock Co) through Edgerton to I-39
Intercity/Feeder Bus	Support new intercity bus service between proposed Madison passenger rail station and Chicago, IL passenger rail station with stops in Janesville and Beloit

Long-Term (2020 – 2030)

US 51	Replace bridge over Main St (Edgerton) if supported by environmental document
WIS 213	Replace bridge over Branch of Allen Creek if supported by environmental document

Entire Planning Period

I-39/90	Complete corridor plan from Illinois/Wisconsin state line to US 12/18 and study interchanges at I-39/90 and US 51 East/WIS 73, and I-39/90 and WIS 59. Implement plan/study results, which may include reconstructing interchanges, and adding lanes and/or capacity if supported by environmental document and process leading to candidate Major project enumeration
US 14	Construct candidate passing lanes from County Rd M (Rock Co) to County Rd H (Rock Co) if supported by environmental document
WIS 11	Construct candidate passing lanes from WIS 104 to County Rd D (Rock Co) if supported by environmental document
WIS 81	Construct candidate passing lanes from WIS 11 to Bittel St (Beloit) if supported by environmental document
Airports	Support continued preservation, maintenance and infrastructure projects at <i>State Airport System Plan</i> airports
Bicycle/Pedestrian	Support accommodations and linkages to create a connected network that provides accessibility along and across facilities
Fixed Guideway	Support studies and implementation of potential new commuter rail service from Rock, Walworth, Racine and Kenosha counties to Chicago, IL
Intercity Bus	Support continued intercity bus service between Minneapolis/St. Paul, MN and Chicago, IL with stops in Eau Claire, Tomah, Wisconsin Dells, Madison and Beloit; and between Madison and Chicago, IL with stops in Janesville and Beloit
Local Roads	Support continued preservation, maintenance and infrastructure projects
Public Transit	Work with counties and transit service providers to coordinate and expand rural transit service
Public Transit	Support continued shared-ride taxi service in Edgerton
Rail Freight	Support preservation of existing freight services and corridors
Specialized Transit	Support continued service and encourage improved service coordination
State Highways	Construct grade separations at rail crossings if supported by environmental document
State Highways	Preserve and maintain infrastructure
State Highways	Improve traffic movement with traffic operations infrastructure strategies



Corridor Map – Data Definitions and Sources

Data Definitions

Corridors 2030

(See *Connections 2030 Chapter 5, Preserve and Maintain Wisconsin's Transportation System, for more information.*)

- Backbone system: Multilane, divided highways interconnecting all major population and economic centers of the state and linking them to the national transportation network
- Connector system: Two- and four-lane highways directly linking other significant economic and tourism centers to the Backbone system

State Access Management Plan vision

(See *Connections 2030 Chapter 9, Promote Transportation Efficiencies, for more information.*)

- Tier 1: By 2030, in rural areas (outside of city and village boundaries), access to the highway will primarily be at interchanges (with some existing safely spaced, locked and gated emergency vehicle driveways and a few isolated field entrances possible at select locations)
- Tier 2A: By 2030, in rural areas (outside of city and village boundaries), access to the highway will primarily be at at-grade public road intersections (with some existing safely spaced, locked and gated emergency vehicle driveways and few isolated field entrances)
- Tier 2B: By 2030, in rural areas (outside of city and village boundaries), access to the highway will primarily be at at-grade public road intersections with some existing safely spaced, lower volume private, residential, field or emergency service driveways
- Tier 3: By 2030, in rural areas (outside of city and village boundaries), access to the highway will primarily be at at-grade public road intersections with some existing safely spaced, higher volume private, residential and field or emergency service driveways
- Tier 4: By 2030, in rural areas (outside of city and village boundaries), access to the highway will be at safely spaced driveways and roads

State Airport System Plan classifications

- Air carrier (passenger)/air cargo: Designed to accommodate virtually all aircraft up to and, in some cases, including wide body jets and large military transports
- Transport/corporate: Intended to serve corporate, small passenger and cargo jet aircraft used in regional service, and small airplanes (piston or turboprop) used in commuter air service
- General utility: Intended to serve virtually all small aviation single and twin-engine aircraft (both piston and turboprop) with a maximum take-off weight of 12,500 pounds or less
- Basic utility: Intended to serve all small-engine piston aircraft and many of the smaller twin-engine piston aircraft with a gross takeoff weight of 12,500 pounds or less

Truck volume descriptions

- Low (0 – 501 trucks per day), Medium (501 – 2,500 trucks per day),
- High (2,501 – 8,000 trucks per day), Very High (more than 8,000 trucks per day)

Urban/urbanized areas

- Urban areas: Areas with populations between 5,000 and 49,999
- Urbanized areas: Areas with populations of 50,000 or more

Data Sources

Annual average daily traffic (AADT)

- Current data: WisDOT, *2005 Wisconsin Highway Traffic Volume Data*, December 2006
- Forecast data: WisDOT, August 2007

Enplanements

- Current data: WisDOT, *2006 Wisconsin Aviation Activity*, April 2007
- Forecast data: Flight Transportation Associates, Inc., *Updated Wisconsin State Airport System Plan Aviation Activity Forecasts*, September 2005; Southeast Wisconsin Regional Planning Commissions, *Review and Update of Regional Airport System Plan Forecasts*, 2005

National Highway System (NHS) intermodal terminals

- Federal Highway Administration, October 2007

Passenger rail ridership

- Current data: WisDOT, 2007
- Forecast data:
 - › Transportation Economics & Management Systems, Inc., *Midwest Regional Rail Initiative Project Notebook*, 2004
 - › Forecast year 2020
 - › Forecast Milwaukee station data includes all Milwaukee area stations (Milwaukee Intermodal Station, General Mitchell International Airport and Granville)

Population

- Current population: Wisconsin Department of Administration, *January 1, 2007 Preliminary Population Estimates for Wisconsin Counties*, August 10, 2007
- 2030 Population: Wisconsin Department of Administration, *Final Population Projections for Wisconsin Counties by Age and Sex: 2000 – 2030*, January 2004
- Current Age 65 and older population: 2000 US Census, Summary File 1, Variable P12: Sex by Age
- 2030 Age 65 and older population: Wisconsin Department of Administration, *Final Population Projections for Wisconsin Counties by Age and Sex: 2000 – 2030*, January 2004

Public and specialized transit

- WisDOT, January 2008

Truck volume

- WisDOT, August 2007

Wisconsin Metropolitan Planning Organizations (MPOs)

- Chippewa – Eau Claire Metropolitan Planning Organization, *Long Range Transportation Plan 2005 – 2030*, October 2005
- Dubuque Metro Area Transportation Study, *2031 Long-Range Transportation Plan*
- Duluth – Superior Metropolitan Interstate Council, *Access and Mobility for People and Freight 2030*, September 2005

- Fond du Lac Metropolitan Planning Organization, *Long Range Transportation/Land Use Plan for the Fond du Lac Urbanized Area*, October 2005
- Fox Cities Metropolitan Planning Organization, *Long Range Transportation/Land Use Plan for the Fox Cities Urbanized Area*, October 2005
- Green Bay Metropolitan Planning Organization, *Long Range Transportation Plan*, November 2005
- Janesville Metropolitan Planning Organization, *2005 – 2035 Long Range Transportation Plan*, December 2005
- La Crosse Area Planning Committee, *2030 La Crosse and La Crescent Metropolitan Area Transportation Plan*, August 2005
- Madison Area Transportation Planning Board, *Regional Transportation Plan 2030*, November 2005
- Oshkosh Metropolitan Planning Organization, *Long Range Transportation/Land Use Plan for the Oshkosh Urbanized Area*, October 2005
- Sheboygan Metropolitan Planning Organization, *Year 2035 Sheboygan Area Transportation Plan*, January 2006
- Southeastern Wisconsin Regional Planning Commission, *Planning Report 49, A Regional Transportation System Plan for Southeastern Wisconsin 2035*, March 2006
- Stateline Area Transportation Study, *2006 – 2035 Long-Range Transportation Plan*, December 2005
- Wausau Metropolitan Planning Commission, *Wausau Area Metropolitan Area Long-Range Transportation Plan – 2035*, December 2005

Wisconsin Tribal Transportation Plans

- Bad River Band of Lake Superior Tribe of Chippewa Indians, *Long Range Tribal Transportation Plan*, July 2006
- Forest County Potawatomi Community, *Long Range Transportation Plan*, March 2008
- Ho-Chunk Nation, *Ho-Chunk Nation Long Range Transportation Plan*, June 2005, amended March 2007
- Lac Courte Oreilles Band of Lake Superior Chippewa Indians, *2006 Transportation Plan*, March 2006
- Lac du Flambeau Band of Lake Superior Chippewa Indians, *Long-Range Transportation Plan*, February 2007
- Menominee Nation, *Menominee Indian Reservation Long-Range Transportation Plan*, May 2007
- Oneida Tribe of Indians of Wisconsin, *Transportation Improvement Plan*, December 2003, amended March 2007
- Red Cliff Band of Lake Superior Tribe of Chippewa Indians, *Long Range Transportation Plan for the Red Cliff Reservation*, February 2006
- St. Croix Chippewa Indians of Wisconsin, *St. Croix Tribal Council 2007 Long Range Transportation Plan*, March 2007
- Sokaogon Chippewa Community, *Long Range Transportation Plan*, March 2007
- Stockbridge-Munsee Community Band of Mohican Indians, *2006 Tribal Long-Range Transportation Plan Update*, May 2007

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