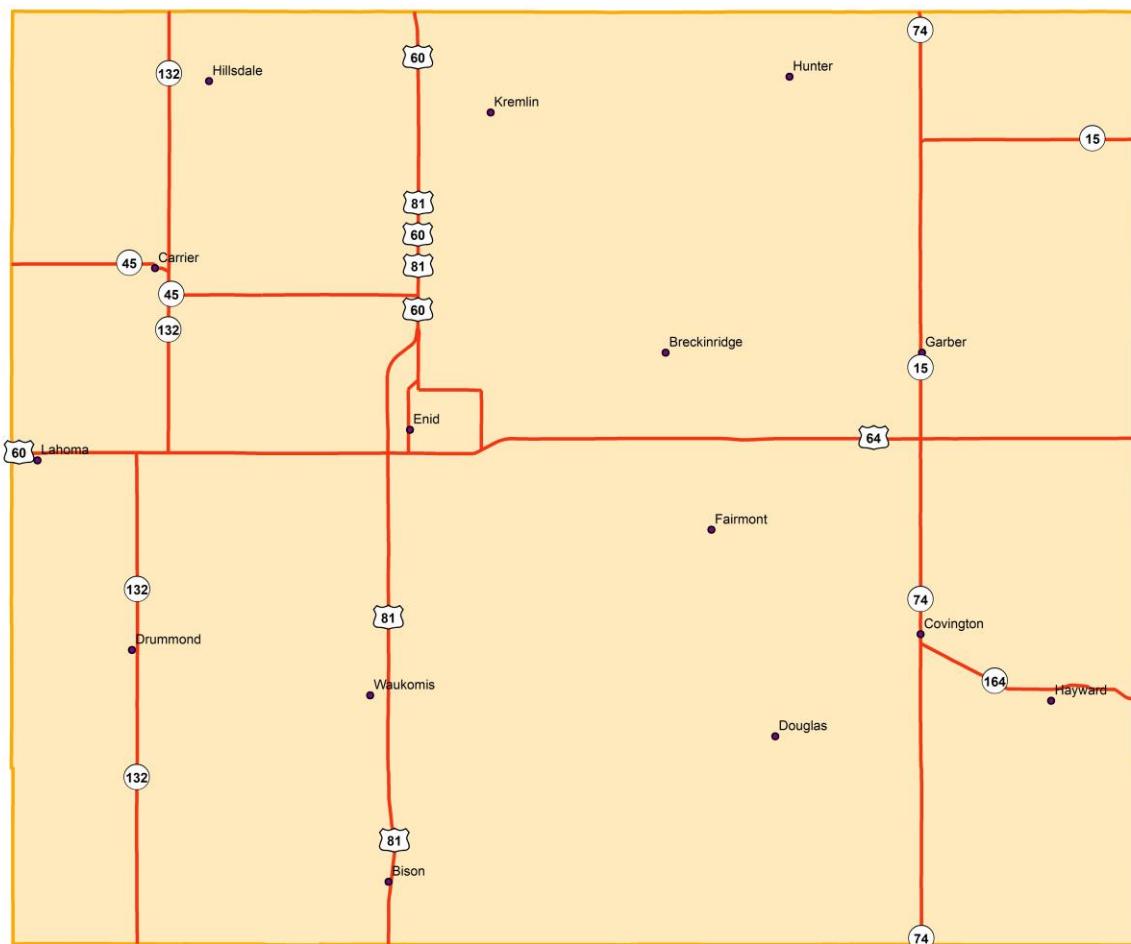
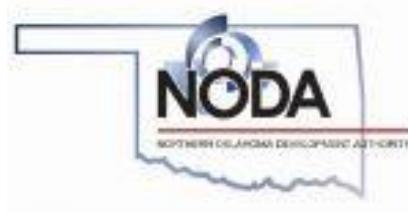


Garfield County Oklahoma 2039 Long Range Transportation Plan

**Northern Oklahoma Regional Transportation Planning
Organization (NORTPO)**



Northern Oklahoma Development Authority





Prepared by:

Northern Oklahoma Regional Transportation Planning Organization

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In cooperation with:

The County of Garfield

The Cities of Enid & Garber

The Towns of Breckenridge, Carrier, Covington, Douglas, Drummond, Fairmont, Hillsdale, Hunter, Kremlin, Lahoma, North Enid, & Waukomis

The Oklahoma Department of Transportation

The Federal Highways Administration

The Federal Transit Administration

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Resolution Adopting the Garfield County 2039 Long Range Transportation Plan

Whereas, The Northern Oklahoma Regional Transportation Planning Organization (NORTPO) is the Regional Transportation Planning Organization for the Northern Oklahoma Development Authority, for the expressed purposes to carrying out the transportation planning requirements of U.S. C. Title 23, Chapter 134 and U.S.C. 49, Subtitle III, Section 5303; and

Whereas, the Garfield County 2039 Long Range Transportation Plan (LRTP) has been prepared by the NORTPO in consultation with all member local and state governments and local, state and federal transportation agencies in a continuing, cooperative, coordinated and comprehensive planning process; and

Whereas, the Plan has been presented to the general public for review and comment in accordance with the Public Participation Plan in addition to the series of public meetings and the Plan was posted on the NODA website for public review and comment.

Whereas, the Plan is consistent with local, regional, and state transportation and other planning goals and objectives and has been prepared in accordance with all relative state and federal rules and regulation, and

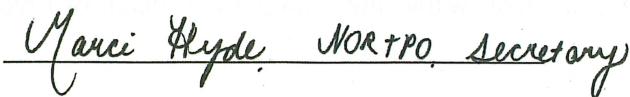
NOW, THEREFORE BE IT RESOLVED, that the NORTPO Policy Board hereby approves and adopts the Garfield County 2039 Long Range Transportation Plan. Further be it resolved that the NORTPO Policy Board recommends that the Plan be accepted by the Oklahoma Department of Transportation and the Federal Highway Administration and the Federal Transit Administration as the official long range transportation plan for the above cited area.

Approved and Adopted by NORTPO Policy Board and signed this 26th day of September, 2019.

A handwritten signature in black ink, appearing to read "Guy L. Clark", is written over a horizontal line. The signature is fluid and cursive.

NORTPO Policy Board Chairman

ATTEST:

A handwritten signature in black ink, appearing to read "Marci Hyde, NORTPO, Secretary", is written over a horizontal line. The signature is cursive and includes the title "Secretary" in parentheses.

— a council of local governments providing opportunities to improve the quality of life in the counties of
ALFALFA • BLAINE • GARFIELD • GRANT • KAY • KINGFISHER • MAJOR • NOBLE

EXECUTIVE SUMMARY

The Northern Oklahoma Regional Transportation Planning Organization (NORTPO) developed the Garfield County 2039 Long Range Transportation Plan (LRTP) in coordination and collaboration with stakeholders, communities, local, state, and federal agencies. The LRTP includes an inventory of the different modes of travel and identifies issues, opportunities, and trends that may influence transportation in the County over the next 20 years. The LRTP also identifies existing and potential future transportation improvement needs.

The Garfield County LRTP is part of a pilot project to help determine feasibility and organizational structure of an eventual statewide regional transportation improvement plan. This plan will be a part of the region-wide effort of NORTPO in their continuation of a regional approach to identify and examine both short and long range goals for development. A regional approach to long range transportation planning is necessary because of the rural nature and diverse characteristics of the population in Oklahoma.

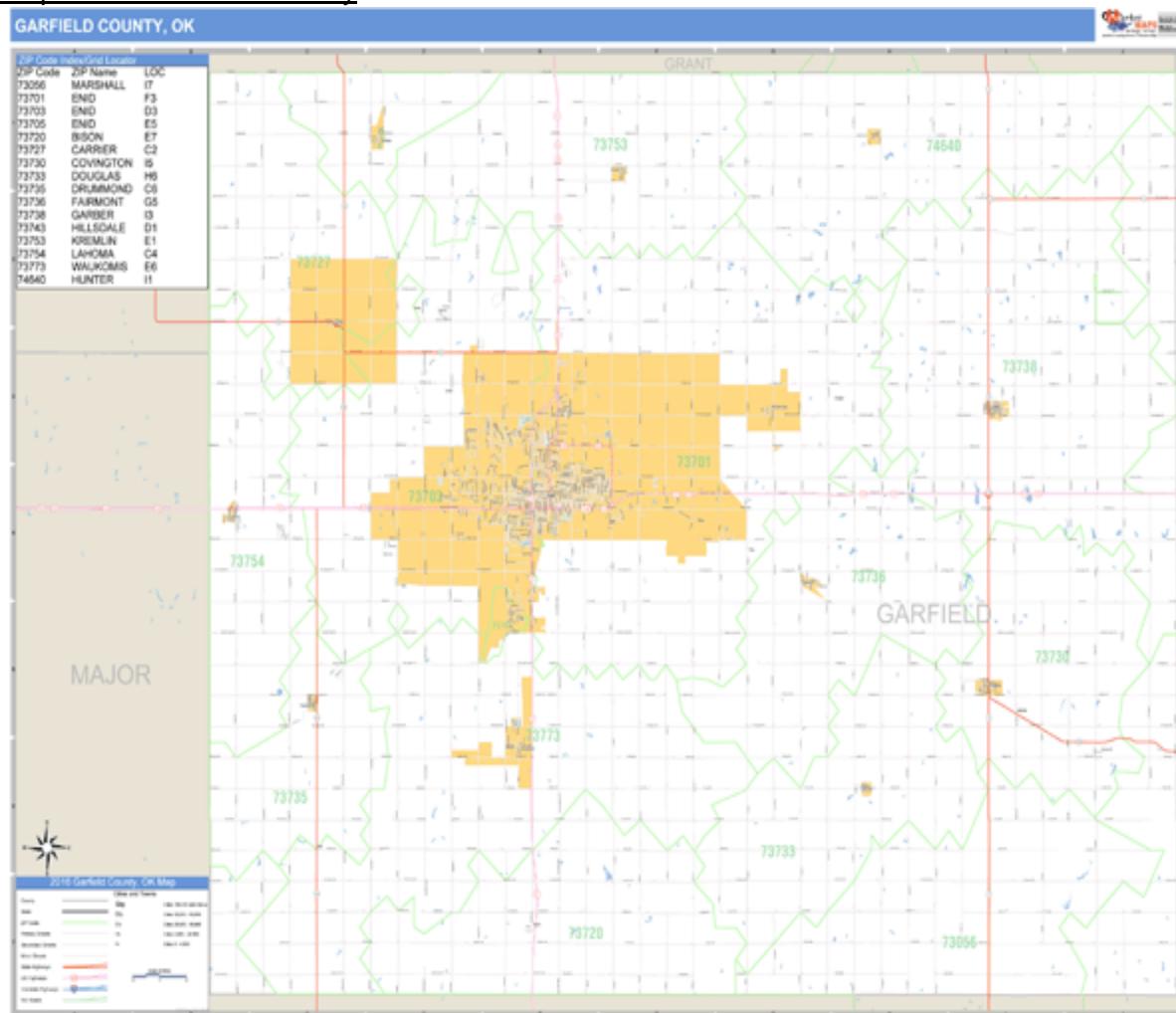
Map ES.1 - NORTPO Area

NORTPO Region



NORTPO Area (Map ES.1) includes the NODA region and its eight counties plus the OEDA region and its eight counties for a total of sixteen counties. The region is approximately 18,900 square miles, more than one hundred cities and towns, and twenty conservation districts. The area is predominately rural, with the majority of the population within the incorporated cities of Enid, Ponca City, Woodward, and Guymon.

Map ES.2 - Garfield County



Garfield County is located in north-central Oklahoma. It is surrounded by Kingfisher and Logan Counties to the South, Major and Alfalfa Counties to the West, Grant County to the North, and Noble County to the East. Garfield County has a total of 1,060 of land and water.

CHAPTER 1

INTRODUCTION, GOALS, AND KEY ISSUES

Introduction, Transportation Plan Purpose and Process

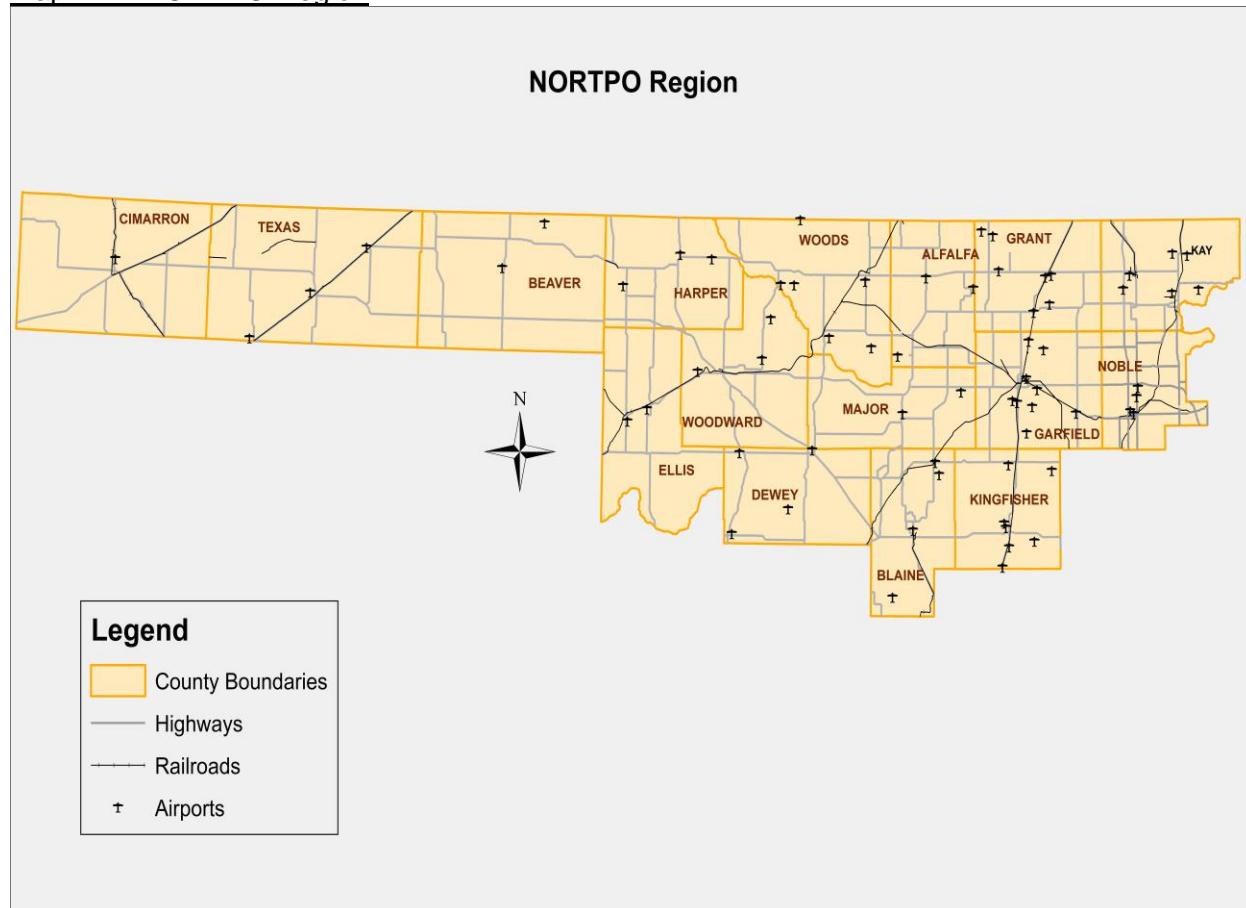
In 1970 Oklahoma's governor established 11 sub-state planning districts. Subsequently, the local governments served by the planning districts created the 11 Councils of Government (COG) using the sub-state planning district's boundaries. These 11 districts make up the Oklahoma Association of Regional Councils (OARC). Throughout the past 48 years, the regional councils have evolved from conduits for regional planning and major administration to catalysts of change in all aspects of life throughout the state. During April of 2012 the Oklahoma Department of Transportation (ODOT) contracted with OARC to implement a transportation planning process in three selected COGs. These COGS developed Regional Transportation Planning Organizations (RTPOs): Northern Oklahoma Regional Transportation Planning Organization (NORTPO), Southwestern Oklahoma Regional Transportation Planning Organization (SORTPO), and Central Oklahoma Regional Transportation Planning Organization (CORTPO). In October 2015 ODOT selected Association of South-Central Oklahoma Governments (ASCOG) and Grand Gateway Economic Development Association (GGEDA) to participate in the transportation planning process. ASCOG joined in with their neighbor SORTPO and GGEDA created GGRTP. These four RTPOs are working together as part of a state-wide pilot regional transportation planning process.

The Northern Oklahoma Development Authority (NODA) on June 16, 2010 created Northern Oklahoma Regional Transportation Planning Organization (NORTPO). In 2017, Oklahoma Economic Development Authority (OEDA) joined NORTPO to grow the region to sixteen counties total, as illustrated in Map 1.1.

NORTPO is tasked with developing a Long-Range Transportation Plan (LRTP) for Garfield County. This plan will be a part of the region-wide effort of NORTPO in their continuation of a regional approach to identify and examine both short- and long-range goals for development. A regional approach to long range transportation planning is necessary because of the rural nature and diverse characteristics of the population in Oklahoma. With less populated communities and counties, maintenance funding of transportation projects and programs is an issue. It became evident in the early stages of development that the region would need to be assessed, various data collected, and long-range plans created for several counties with the culmination of a regional planning document encompassing the original eight counties within five years, and all 16 counties within eight years.

The purpose of the transportation system is to move people and goods in the safest and most efficient manner possible. The LRTP envisions the transportation system as a critical element of the quality of life for the citizens. Transportation systems for both highway and transit must safely, efficiently, and effectively allow citizens to travel to and from work and to conduct their personal lives.

Transportation systems must also provide for the efficient movement of goods to markets to support the county's economic vitality. Additionally, transportation decisions should carefully consider and reflect environmental and community concerns.

Map 1.1 - NORTPO Region

Source: NORTPO

Transportation planning is a process that develops information to help make decisions on the future development and management of transportation systems. It involves the determination of the need for new or expanded roads, transit systems, freight facilities, bicycle and pedestrian facilities, and priority sets. The process allows the community to focus their attention on transportation in the context of Garfield County, as well as the NORTPO region.

Regional Transportation Planning

Regional transportation planning is a collaborative process designed to foster participation by all interested parties such as business communities, community groups, elected officials, and the general public through a proactive public participation process. Emphasis by the Federal Highway Administration (FHWA) and Federal Transit Administration (FTA) is placed on extending public participation to include people who have been traditionally underserved by the transportation system and services in the region. All aspects of the transportation planning process are overseen by the NORTPO Policy Board with input provided by the NORTPO Technical Committee. This committee reviews transportation planning work efforts and provides a recommendation to the policy board for their consideration and action. The day-to-day activities of NORTPO are supported by one full-time NODA staff member. Additional NODA staff members contribute to the transportation planning process to ensure the overall planning program is executed in a timely and efficient manner and in accordance with federal regulations. Staff is housed at the NODA office located in Enid, Oklahoma. Staff, equipment, supplies, rent, consulting studies, and other expenses used to support staffing operations are reimbursable to NORTPO by the FHWA State

Planning & Research (SPR) program funds at 80% of the total amount of the work effort and the local match of 20% is provided by NODA.

The LRTP establishes the goals, objectives, and transportation strategies for addressing the region's transportation needs. This planning process follows the four "C's" identified by federal transportation regulations:

- *Consideration* means one or more parties takes into account the opinions, actions and relevant information from other parties in making decisions or determining a course of action.
- *Consultation* means one or more parties confer with other identified parties in accordance with an established process and, prior to taking action(s), consider the views of the other parties and periodically inform them about action(s) taken.
- *Cooperation* means the parties involved in carrying out the transportation planning programming processes work together to achieve a common goal or objectives.
- *Coordination* means the cooperative development of plans, programs and schedules among agencies and entities with legal standing and adjustment of such plans, programs, and schedules to achieve general consistency, as appropriate.

The LRTP was developed with the regulatory framework of Moving Ahead for Progress in the 21st Century Act (MAP-21) and the Fixing America's Surface Transportation Act (FAST Act).

Purpose of the Plan

The *Garfield County 2039 Long Range Transportation Plan (LRTP)* is a document that can be utilized by Breckinridge, Carrier, Covington, Douglas, Drummond, Enid, Fairmont, Garber, Hillsdale, Hunter, Kremlin, Lahoma, North Enid, Waukomis, Garfield County, and residents as a guide to maintain and improve the county's transportation system through 2039. The LRTP is an important tool and assists communities in focusing their limited funds on projects that give them the best value and benefit of public funds. This is accomplished by developing a realistic project list based upon available resources, analysis of data, and input from the communities. The prioritized list of transportation projects will provide elected officials and citizens a clear focus for future transportation projects and programs.

The transportation planning process involves both long-term transportation system objectives and short-term implementation of projects that will provide a blueprint for the development of a healthier, safer and more efficient transportation system.

The year 2039 was chosen as the planning horizon year for the LRTP for the following reasons:

- The year 2039 is far enough into the future to allow for the anticipated growth of the area to be implemented, and
- Allows the local governments and participating agencies adequate time to plan for long range solutions to anticipated needs.

Although this may appear to be a rather pragmatic approach in response to critical planning issues, it is a direction that will enable local governments and participating agencies to adequately plan and prepare to achieve the long-term goals, while maintaining the necessary short-term vision and implementation techniques to respond to crucial short-term issues. The identified planned transportation improvement projects will be prioritized with the goal of being implemented within the next 20 years.

As a means of achieving the successful implementation of the LRTP, the plan has been developed in five-year increments. The five-year increment format will offer realistic goals later in this chapter and are relative to the LRTP's short range implementation activities while still addressing the ultimate long-range goals. Additionally, the five-year incremental approach presents a "good fit" with the local governments' ability to program and commit local financial resources for transportation improvements. The incremental approach also provides a reasonable opportunity in scheduling state and/or federally funded transportation improvements within Garfield County.

Residents and elected officials representing Breckinridge, Carrier, Covington, Douglas, Drummond, Enid, Fairmont, Garber, Hillsdale, Hunter, Kremlin, Lahoma, North Enid, Waukomis, and Garfield County Commissioners as well as regional stakeholders, were contacted to compile and prioritize a county-wide list of transportation projects. Projects were also taken from County Improvements for Roads and Bridges (CIRB) program and ODOT (Table 6.1, Chapter 6).

Relationships and Requirements with State and Federal Agencies

The LRTP was developed in cooperation and collaboration with local (cities, towns, county) governments, ODOT, FHWA, and FTA. The LRTP is the culmination of a continuing, cooperative, coordinated, and comprehensive planning effort among the federal, state, and local governments. Directed by NORTPO, the LRTP provides for consideration and implementation of projects, strategies, and services that address the eight planning factors identified in MAP-21, and the FAST Act which was signed into law in December 2015. The FAST Act added two additional factors for a total of ten, which NORTPO will strive to address through their LRTP planning process.

Planning Factors

1. Support the economic vitality of the United States, the States, nonmetropolitan areas, and metropolitan areas, especially enabling global competitiveness, productivity and efficiency.
2. Increase the safety of the transportation system for motorized and non-motorized users.
3. Increase the security of the transportation system for motorized and non-motorized users.
4. Increase accessibility and mobility of people and freight.
5. Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic patterns.
6. Enhance the integration and connectivity of the transportation system across and between modes, people, and freight.
7. Promote efficient system management and operation.
8. Emphasize the preservation of the existing transportation system.
9. Improve the resiliency and reliability of the transportation system and reduce or mitigate storm-water impacts of surface transportation.
10. Enhance travel and tourism.

Source: 23 USC Section 135(d) (1) and 23 USC Section 134 (h) (1) - *refers to "the metropolitan area"

In addition, the FAST Act continues MAP-21's requirement to state departments of transportation and Metropolitan Planning Organizations (MPO) to use a performance-based approach to support seven national goals for the transportation system. This requirement has not been mandated to non-metropolitan areas. Though specific performance measures are not identified in this plan, NORTPO recognizes the significance of such measures and will begin the collection of data needed to establish standards in future plans.

Goals, Objectives and Policies

The LRTP format follows a hierarchy that includes goals, objectives, and policies to assist NORTPO in planning and prioritization of transportation system projects and studies. The following definitions describe the scope and intent of the goals, objectives, and policies in this plan. Goals are far-reaching statements of intent and were developed cooperatively with the communities by identifying shared values and understanding of existing trends and issues. Implementation of goals is the responsibility of local, county and state governments and the RTPOs.

Objectives were developed in coordination with partner agencies. Objectives are more focused statements that should be specific and measurable, and typically are more tangible statements of approach related to attaining the set goals.

Policies identified in the Plan are formal statements of approach related to attaining the set goals and statements of practice or procedures that are recommended to be adopted by the NORTPO Policy Board. Policies are how to implement goals and objectives and are the responsibility of the appropriate agency(s). The policies developed do not fall solely under the responsibility of NORTPO. Local and community agencies should consider their roles in affecting outcomes. It will be necessary to prioritize the policies and build the data collection for those policies deemed most important into annual programs, such as the Planning Work Program (PWP).

Table 1.1 identifies and describes goals for the 2039 Garfield County Transportation Plan.

Table 1.1: Garfield County Transportation Goal Categories

| Goal | Description |
|---|---|
| 1. Community and Economic Vitality | Facilitate the easy movement of people and goods and improve interconnectivity of regions. Ensure continued quality of life during project development and implementation by considering natural, historic, and community environments, including special populations, and promote a County and regional transportation system that contributes to communities' livability and sustainability. The transportation system will support and improve the economic vitality of the county and region by providing access to economic opportunities. |
| 2. Environment | Reduce impacts to the county's natural environment, historic areas and under-represented communities resulting from transportation programs and projects. |
| 3. Finance and Funding | A cooperative process between RTPO partners, state officials, and private interests in the pursuit and funding of transportation improvements. |
| 4. Maintenance and Preservation | Preserve the existing transportation system and promote efficient system management in order to promote access and mobility for both people and freight. |
| 5. Safety and Security | The transportation system will safely and securely support the people, goods and emergency preparedness. |

Goal 1. Community and Economic Vitality

Facilitate the easy movement of people and goods and improve interconnectivity of regions. Ensure continued quality of life during project development and implementation by considering natural, historic, and community environments, including special populations, and promote a County and regional transportation system that contributes to communities' livability and sustainability. The transportation system will support and improve the economic vitality of the county and region by providing access to economic opportunities.

Objectives

1. Improve or expand the multi-modal transportation system to meet the needs of the community and under-represented population.
2. Increase access to ensure all residents have the capability of moving affordably between where they live, work, play, and get services, using transportation options that promote a healthy lifestyle.
3. Improve multi-modal access to county and regional employment concentration centers.
4. Support transportation projects that promote economic development and job creation.
5. Support the county and region's economic competitiveness through the efficient movement of freight.
6. Invest in a multi-modal transportation system to attract and retain businesses and residents.

Policies

1. Support transportation projects serving already-developed locations of residential or commercial/industrial activity.
2. Consider local economic development activities in the transportation planning process.
3. Coordinate with local and tribal governments on the placement of regionally significant developments.
4. Maintain local and state support for the general aviation airports that serve the region.
5. Prioritize transportation projects that serve major employment areas, activity centers, and freight corridors.
6. The RTPO will coordinate with other agencies planning and pursuing transportation investments that strengthen connections to support economic vitality.
7. Emphasize improvements to the major truck freight corridors.
8. The RTPO partners will plan and implement a transportation system that considers the needs of all potential users, including children, senior citizens, and persons with disabilities, and that promotes active lifestyles and cohesive communities.
9. Design the transportation network to protect cultural, historical and scenic resources, community cohesiveness, and quality of life.

Goal 2: Environment

Reduce impacts to the County's natural environment, historic areas, and under-represented communities resulting from transportation programs and projects.

Objective

Plan and design new expanded transportation projects while preserving historical, cultural and natural environments, and serving under-represented communities.

Policies

1. Promote proper environmental stewardship and mitigation practices to restore and maintain environmental resources that may be impacted by transportation projects.

2. Promote the use of alternative fuels and technologies in motor vehicles, fleet and transit vehicles.
3. Assist in identification of potential environmental mitigation issues by acquiring, creating, and updating geographic information system (GIS) data layers.
4. RTPO partners will avoid, minimize, and mitigate disproportionately high and adverse impacts of transportation projects to the county's under-represented communities.

Goal 3: Finance and Funding

Develop a cooperative process between RTPO partners, state officials, and private interests in the pursuit and funding of transportation improvements.

Objective

Seek and acquire a variety of transportation funding sources to meet the many needs of a diverse system.

Policies

1. Maximize local leverage of state and federal transportation funding opportunities.
2. Increase private sector participation in funding transportation infrastructure and services.
3. Encourage multi-year capital improvement planning by local, county and state officials that includes public participation, private sector involvement, coordination among jurisdictions and modes, and fiscal constraint.
4. Assist jurisdictions in identifying and applying for funds that enhance or support the region's transportation system.

Goal 4: Maintenance and Preservation

Preserve the existing transportation network and promote efficient system management in order to promote access and mobility for both people and freight.

Objective

Preserve, maintain and improve the existing street, highway system, bike and pedestrian facilities, and infrastructure.

Policies

1. Identify sources of transportation data and develop a procedure to collect the data and present to the public.
2. Emphasize system rehabilitation and preservation.
3. Establish a regular traffic count and reporting system for the region.

Goal 5: Safety and Security

The transportation system will safely and securely sustain people, goods, and emergency support services.

Objective

Improve the safety and security of the transportation system by implementing transportation improvements that reduce fatalities and serious injuries, as well as enabling effective emergency management operations.

Policies

1. Collect and routinely analyze safety and security data by mode and severity to identify changes and trends.

2. Incorporate emergency service agencies in the transportation planning and implementation processes in order to ensure delivery of transportation security to the travelling public.
3. Coordinate with local governments and other agencies to identify safety concerns and conditions. Coordinate county and regional actions with the Statewide Highway Safety Plan.
4. Improve the transportation infrastructure to better support emergency response and evacuations.
5. Assist in the designation of various corridors and development of procedures to provide for safe movement of hazardous materials.
6. Minimize the impacts of truck traffic on roadways not designated as local truck routes or regional goods movement corridors.
7. Support the Oklahoma Department of Transportation in its plans to add and improve roadway shoulders to designated two-lane highways.

Key Issues, Trends and Challenges

Rural communities have problematic transportation areas even if they do not experience congestion. Understanding the true nature of the problem at these locations and developing a plan to address them is an important part of regional planning. Unanticipated changes may happen that can have impacts on a city, town, county or region. There are several issues, challenges and trends facing the county that have a direct or indirect impact on the transportation system. Key issues, trends and challenges were obtained by NORTPO through the stakeholder's meetings, public surveys, technical committee meetings and policy board meetings. The following information is intended to identify issues, trends and challenges in Garfield County.

Key issues

Key issues as identified through public comment and by existing plans and reports include:

- Maintenance and preservation of the existing transportation system
- Road flooding/drainage
- Safety/Lack of proper signage at intersections
- Localized congestion in cities and towns
- Traffic caused by the oil/gas industry's vehicles

Challenges

The challenges facing the transportation system in Garfield County include:

- Lack of significant financial resources necessary to maintain the existing transportation system and make improvements as necessary
- An aging population and their need for alternate transportation services
- Lack of funding for public transportation
- Lack of commercial airline

Trends

Trends identified include:

- Increase in aging population
- Freight traffic will fluctuate
- Traffic congestion

CHAPTER 2

CURRENT CONDITIONS and FUNDED IMPROVEMENTS

This chapter provides a “snapshot” of current conditions that relate to transportation in Garfield County. Understanding the status of the transportation system provides a basis for developing the transportation plan. Much of this data and information was obtained from county, state and federal agencies or institutions. Tables and maps referred to in this chapter are included in Appendix G-2.

Transportation planning in Oklahoma has typically been limited to urban areas. Rural or regional transportation planning is evolving into an opportunity to consider both the short- and long-term transportation needs for locations outside of urban areas. This plan will consider growth and development patterns in the county and will not address development regulations. However, critically important complements to these growth areas are the locations that may generate significant demands on the transportation system. Such “activity generators” include business and industrial sites, governmental, schools, universities, tourism, and recreation centers. Counties in the NORTPO region are working to seek new economic growth and diversification while striving to preserve their natural, historic and cultural resources.

Covering northwest and north central Oklahoma, NORTPO region is predominately rural with the majority of the population located within the incorporated cities of Enid population of 50,809), Ponca City, (24,579), Woodward (12,687) and Guymon (11,859) from the 2013-2017 American Community Survey (ACS) estimates. Table 2.1 provides population data for NORTPO counties.

Population fluctuation through economic changes, in or out migration, or shifting within the region include but are not limited to loss or gain of major employer, movement of younger sectors of population to larger urban areas, and tribal land development. With population fluctuation rural areas also experience impacts to education, health care, social services, employment, and transportation.

Each county in the region, although a separate entity as far as governmental services, is linked together through commerce, employment, and regional transportation. Population growth and shifts for the NORTPO region are dependent on many factors for each particular county. Garfield County’s deviations in population and employment pattern are attributed to the volatile nature of the oil and gas industry, and subsequent impact to declines in prices in those industries. Although current data indicates this decline, historical data found on Table 2.2 illustrates Garfield County’s growth from 1980 to 2017. Historically, Garfield County’s economy was agriculture and livestock. Additional prominent industries include oil and gas, manufacturing and Vance Air Force Base.

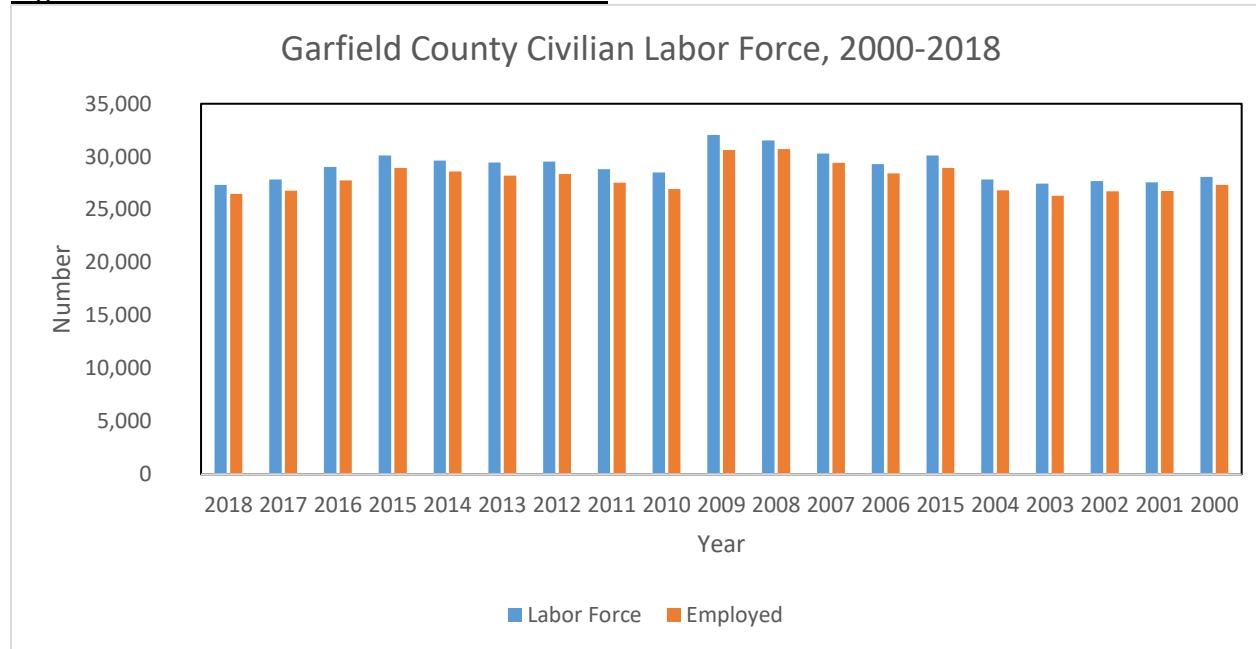
According to 2013-17 ACS population census estimates, Garfield County has an estimated total population of 62,421. The County encompasses 1,060 square miles and include fourteen (14) cities and towns. Enid is the county seat, home to Vance Air Force Base, and is the largest city in Garfield County with a population of 50,809 (2013-17 ACS). Waukomis is the second largest with a population of 1,526 and North Enid comes in third with a population estimate of 920 (2013-17). The remaining towns have a population ranging from 123 to 819.

The County population is distributed 49.5% male and 50.5% female with a median age of 35.7 (2013-17 ACS). Garfield County’s 65 years and older population represents 15.2% (2013-17 ACS) of the total population. Transportation is crucial to keeping older adults independent, healthy and connected to friends, family, and health providers. However, older residents’ transportation

needs differ based on their health, income, marital status, age, race, and whether they live in a city, town, or rural area. The needs of this segment of the population will influence the demand for public transportation services, which is limited in the region.

According to data obtained from the Oklahoma Employment Security Commission (OESC) the Local Area Unemployment Statistic (LAUS) data indicates the number of people employed ranged from 27,326 in 2000 to 26,498 in 2018 a decline of 828; while total labor force during the same time period ranged from 28,105 to 26,498.

Figure 2.1 Civilian labor force from 2000-2018.



Source: Bureau of Labor Statistics, LAUS

Table 2.3 summarizes vehicle registration data obtained from the Oklahoma Tax Commission (OTC). Automobile and farm truck registration continues to show a decline between 2014 and 2018. The data in this table confirms that the primary vehicle is the automobile. Data obtained from the 2013-17 ACS reveals that 45.6% of workers 16 years on over in households had access to two or more vehicles; while 1.3% of the workers 16 years and over in households did not have access to a vehicle. Commute patterns to work for workers 16 years and older according the 2013-17 ACS identify that 84.5% of them drove alone, 9.3% carpooled, and 2.8% work from home. Mean travel time was estimated 16.6 minutes to get to work.

Traffic Analysis Zones

The Traffic Analysis Zone (TAZ) Program is a specialized software program used for delineating TAZs in support of the Census Transportation Planning Products (CTPP). This software program is designed to allow agencies the ability to define areas to and associate demographic data that supports transportation system analysis as well as creation of geographic summary layers suitable to their planning. TAZ delineation for the areas other than Metropolitan Planning Organizations (MPO) are the responsibility of ODOT. Historically, in non-MPO areas the TAZ boundary defaulted to the census tract boundary. This makes the process of maintaining and updating socioeconomic data much easier. However, utilizing this default for the plan did not provide NORTPO with transportation data that met the needs of the planning process (<https://www.urban.org/urban-wire/what-defines-city>).

As rural transportation planning continues to mature the delineation of TAZ will allow acquisition of data that supports the transportation planning process. NORTPO developed TAZ maps and data for the areas of Garfield County. NORTPO staff developed TAZ boundaries based on county population as identified below:

- Small populated counties (population < 6,000)
Population thresholds of 200 to 400 and employment thresholds of 200-300
- Medium populated counties (population 6,001-34,999)
Population thresholds of 400 to 600 and employment thresholds of 300-400
- Large populated counties (population > 35,000)
Population thresholds of 600-800 and employment thresholds of 400-500

Geographically, Garfield County is subdivided into 71 traffic analysis zones. Maps 2.1-2.5 illustrate the TAZs for Garfield County and cities meeting the population and employment threshold listed above. Maps 2.6-2.10 illustrate the population by TAZ and maps 2.12-2.16 illustrate employment by TAZ. Table 2.4 shows the population by TAZ and major employer data is shown in Table 2.5. Major employers by TAZ can be found in Map 2.11. While the population has not changed significantly over the past twenty years, it has continued to increase.

Physical Development Constraints, Development Conditions and Patterns

There are several factors that constrain development in Garfield County. These include but are not limited to, land ownership of large tracts of land, military installation, wind generator fields, existing development, and environmental features that affect the growth of Garfield County. These constraints, both physical and manmade, have shaped and impacted the development of the County. Current growth is concentrated in cities and towns as well non-incorporated areas of the County. A comprehensive plan has not been completed for Garfield County.

Figure 2.2 depicts the location of the highways, waterbodies, rivers, airports and railroad. The primary east/west corridor is US Highway 412 and the primary north/south highway is US Highway 81. Two Class I rail companies (Burlington Northern Santa Fe [BNSF] and Union Pacific, [UP]) provide service in the county. One Class III rail line, Grainbelt (GNBC), provides service in the county. There is one public airport located in Garfield County, Enid Woodring Regional Airport. Figure 2.13 identifies public owned airports in Garfield County.

Garfield County is home to environmental features and natural and cultural resources which can influence the transportation system. Environmental information collected and mapped provides for an understanding and awareness of important features and resources early in the planning process. This way the protection of these resources, either through avoidance or minimization of impact, can be more fully considered as an integral part of plan and project development. There are many different types of environmentally sensitive areas and potential impacts to the natural and human environment that may be affected by various actions associated with the 2039 LRTP.

These include (but are not necessarily limited to):

- Threatened and endangered species
- Wetlands
- Floodplains
- Surface and ground waters
- Storm water management and erosion and sediment control
- Hazardous materials
- Air quality
- Historical/cultural resources

- Right-of-way/property impacts, including impacts to parks, farmland and neighborhoods
- Traffic and train noise

Identification of important environmental features provide agencies and officials, involved with addressing the transportation issues, baseline information necessary to afford protection or to minimize impact to environmental resources, as required by the National Environmental Policy Act (NEPA) and other state and federal laws, rules, and regulations. As individual projects or transportation improvements are advanced from this plan, detailed environmental impact assessments will be required for any projects using federal funds, and in many cases, also any using state funds.

Environmental (Streams/creeks, floodplains and wetlands), Deficient Bridges, Historic and Archeological Sites, Federal or State Listed Species

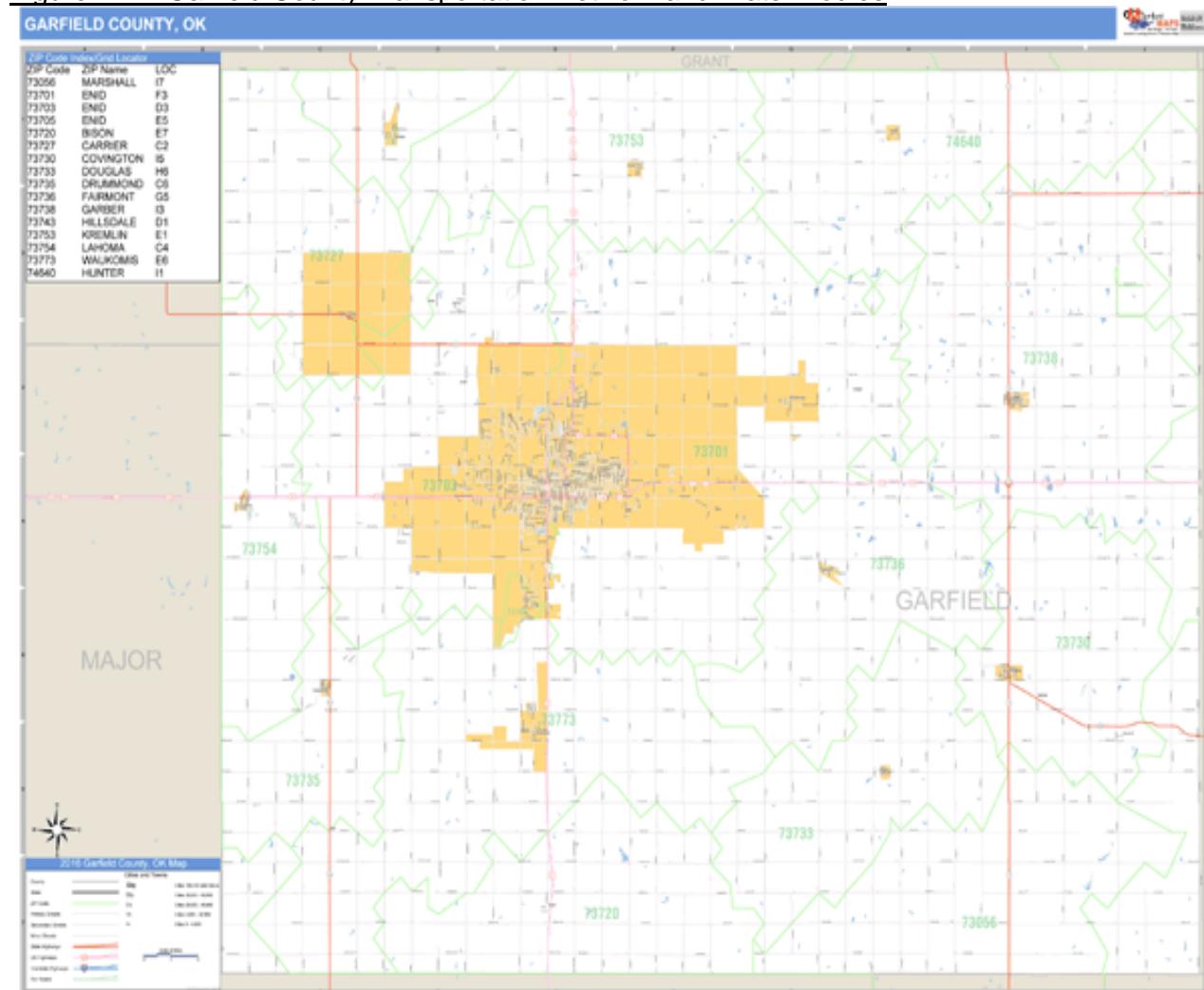
The environmental features and constraints in this section were identified and mapped using secondary source information that included mapping, publications, and correspondence from the following: United States Environmental Protection Agency (USEPA), Oklahoma Geological Survey, Oklahoma Department of Wildlife Conservation (ODWC), Oklahoma Department for Environmental Quality (ODEQ), United States Department of Agriculture (USDA), United States Department of the Interior Fish and Wildlife Service (USFWS), United States Geological Survey (USGS), Oklahoma University Geographic Information System (GIS), and other state and local agencies. (A complete list of references is included in Appendix F.)

Bodies of water in Garfield County, including creeks and streams, are natural corridors that provide habitat for fish, insects, and wildlife, and recreational benefits to people such as hunting, fishing, boating, and bird watching, as well as aesthetic benefits. Streams also provide drinking water for wild animals, livestock, and people. Figure 2.2 illustrates the location of Garfield County Waterbodies.

Garfield County Floodplains

Floodplains have been mapped for Garfield County and were last updated in 2012. Special flood hazard areas are a designated width along a stream or river which has a 1% chance of flooding annually. Flood hazard areas are protected to prevent any increase in the risks or severity of possible future floods and to maintain their natural and ecological benefits. Additional information can be accessed through the website www.msc.fema.gov.

Figure 2.2 – Garfield County Transportation Network and Water Bodies



Earthquakes

Earthquakes have become a reoccurring issue in Garfield County. Due to this issue, ODOT in 2014 changed the protocol to require bridge inspections after every 4.4 to 4.7 magnitude event within a 5-mile radius of the epicenter. A computer software analytical and mapping modeling program "ShakeCast" created by the USGS was adopted by ODOT in 2017. This program generates information after an earthquake on the bridges that should be inspected (<https://news.transportation.org/Pages/081115quakin.aspx>).

Historic Places

The National Register of Historic Places (NRHP) is a list of properties determined significant in American history, architecture, archeology, engineering, or culture, by virtue of design or architectural criteria, association with historical persons and events, and/or value for historic or prehistoric information.

Under state and federal law, NRHP listed and NRHP-eligible properties are afforded equal protection from impact. NRHP properties are designated to help state and local governments, federal agencies, and others identify important historic and archeological resources, to ensure their protection, either preservation, or minimization and mitigation of impact. Such Garfield

County properties are listed in Table 2.5. For additional information visit the website noted here: <https://nationalregisterofhistoricplaces.com/OK/garfield/state.html>.

Threatened and Endangered Species

State and federal agencies classify plants and animals as threatened or endangered when their numbers are low or declining due to direct destruction (from development or pollution, for example) or loss or degradation of suitable habitat. The presence of a threatened or endangered species in an area is an indicator of a better or good quality environment. Federally listed endangered and threatened species in Garfield County may include: Whooping Crane, Interior Least Tern, Black-capped Viero, Piping Plover, and Arkansas River Shiner. Additional information can be found at: <http://www.wildlifedepartment.com/wildlifemgmt/endangeredspecies.htm>

Air Quality

The Clean Air Act requires the Environmental Protection Agency (EPA) to set National Ambient Air Quality Standards (NAAQS) for pollutants considered harmful to public health and the environment. The Clean Air Act identifies air quality standards to protect public health, including protecting the health of “sensitive” populations such as asthmatics, children and the elderly. A monitoring site installed by The Oklahoma Department of Environmental Quality (ODEQ) for sulfur dioxide (SO₂) is located in the town of Kremlin.

Wind Farms

An increasing source of electricity around the nation has been through the harnessing of wind power. Due to the geographic location of Oklahoma in the Great Plains and the Rocky Mountains to the west, and the pattern of meteorological systems' general movement of west to east, winds tend to come over the mountains onto the plains at an increasing rate, thus making Oklahoma a prime location for power-generating wind turbines to be located to harness this energy.

Wind farms, locations with multiple wind turbines in fairly close proximity to each other, are created by energy companies to collect the energy created and move it via power lines to other locations. Located in Garfield County is the Chisholm View Wind Project (140 turbines), Breckinridge Wind Project (58 turbines) and the Skeleton Creek Farm to be operational by the end of 2019.

County and Community Development

Planning in Oklahoma has been nonexistent or very limited outside of urbanized cities and towns. This LRTP will consider growth and development patterns in the County. A critically important component to transportation planning is growth areas that may generate significant demands on the transportation system. The predominant land use in Garfield County is agricultural, manufacturing, military installation, commercial and residential uses.

Historical trends show fluctuations in the population between 1980 and 2017 (Table 2.1). The population growth is stable in the cities/towns of Enid, Covington, Drummond, Garber, Lahoma, North Enid and Waukomis. The trend of population declining in rural areas is evident with the data available. Government leadership (local, county, state, and tribal) must consider the impact of declining population and its long-term impact on declining revenues dedicated to transportation systems and infrastructure. Efforts to maintain and attract business and industry will remain the focus of the communities for the future. Changes that impact the transportation system in Garfield include, but are not limited to, loss or gain of a major employer, and movement of younger sectors of the population to more urban areas. Areas that may generate demands on the transportation system include agriculture operations, retail sites, industrial and energy related facilities. A map depicting major employers by TAZ is found in Map 2.11.

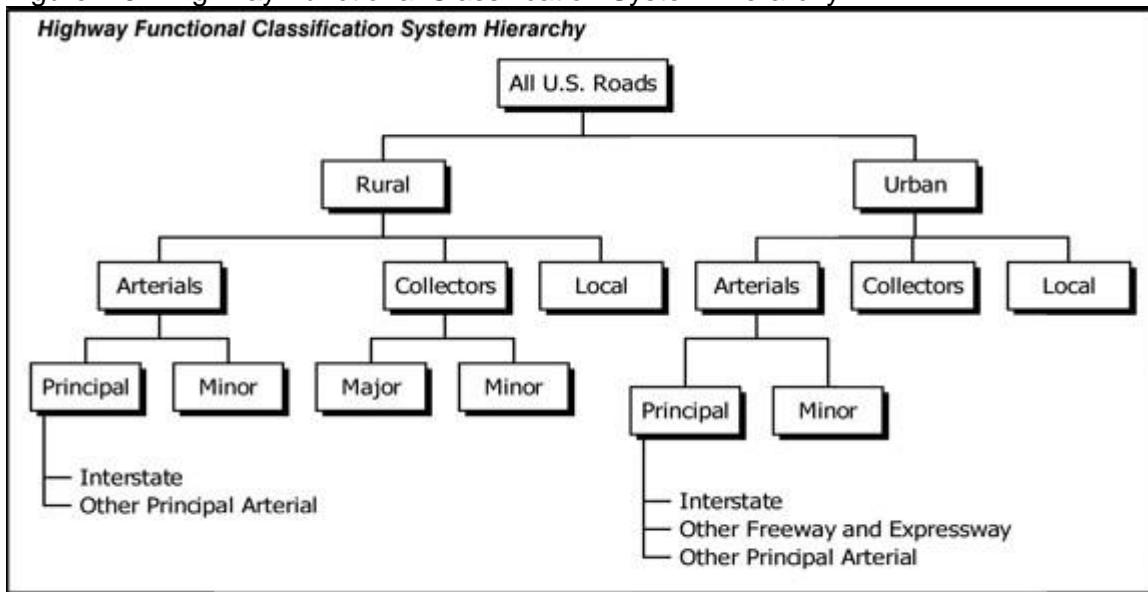
Streets and roads considered to be most important in the development of a LRTP are shown in Figure 2.2. This includes the US and state highways and those county roads considered to be critical to overall mobility in Garfield County. The majority of the roads in the county are two-lane undivided roads.

Road Classification

Functional classification is a well-established system utilized by the Federal Highway Administration (FHWA) for grouping streets and highways into classes based on roadway characteristics and intended services. Basic to this process is the recognition that individual roads and streets cannot serve travel independently; rather, most travel involves movement through a network of roads. Thus, it is necessary to determine how to channelize travel within the network in a logical and efficient manner. Functional classification defines the extent to which roadways provide for through travel versus the extent to which they provide access to land parcels. An interstate highway provides service exclusively for through travel, while a local street is used exclusively for land access. Each roadway has a classification number based on its location, access, and capacity characteristics. Functional class and jurisdiction are important not only in relation to operational and maintenance responsibility, but also in how roadway improvement projects can be funded. Map 2.17 illustrates Garfield County's Functional Classification system.

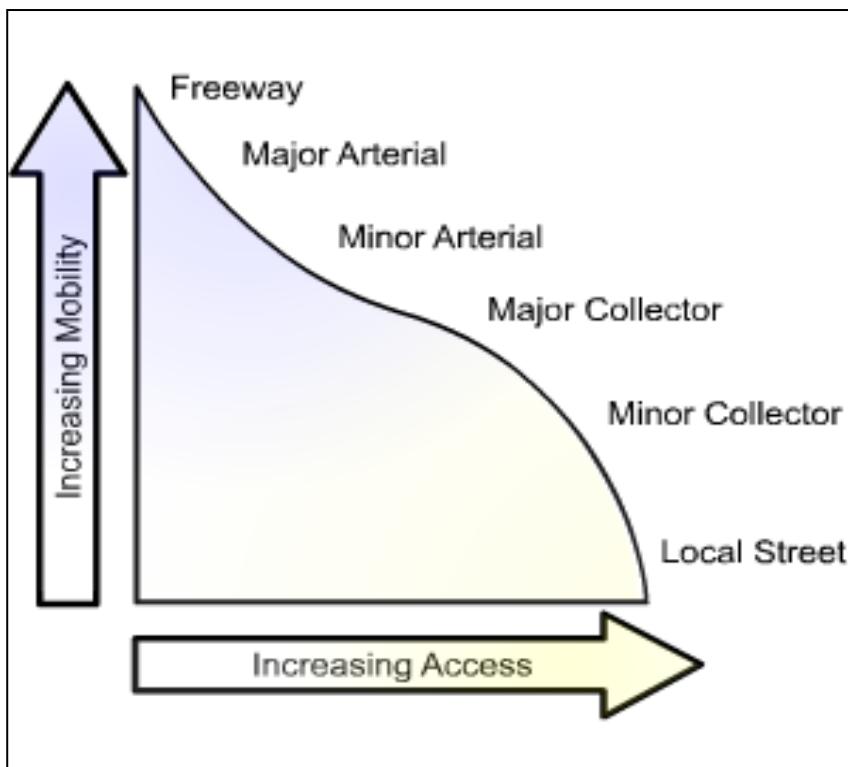
An efficient transportation system includes a proper balance between movement of traffic and access to abutting land. The majority of the roads in Garfield County are designated as rural. The Functional Classification Hierarchy Charts in Figure 2.3, Figure 2.4, and Figure 2.5 illustrates the relationship between functional classification and travel characteristics.

Figure 2.3 - Highway Functional Classification System Hierarchy.



Source: FHWA Functional Classification Guidelines.

Figure 2.4 - Conceptual Roadway Functional Hierarchy



Source: FHWA

Figure 2.5 - Functional Classification and Travel Characteristics

| Functional Classification | Distance Served (and Length of Route) | Access Points | Speed Limit | Distance between Routes | Usage (AADT and DVMT) | Significance | Number of Travel Lanes |
|---------------------------|---------------------------------------|---------------|-------------|-------------------------|-----------------------|--------------|------------------------|
| Arterial | Longest | Few | Highest | Longest | Highest | Statewide | More |
| Collector | Medium | Medium | Medium | Medium | Medium | Medium | Medium |
| Local | Shortest | Many | Lowest | Shortest | Lowest | Local | Fewer |

Source: FHWA

Traffic counts collected by ODOT for 2018 year are illustrated in Map 2.18. Data collected can be as specific as type of vehicle and direction traveled, or just how many vehicles traveled the roadway. Also called annual average daily traffic (AADT) counts, this data reveals that the largest volume of traffic is concentrated within the Enid limits. This concentration is near the intersection of SH 64 and US 81.

- SH 64 – east of the intersection of SH 64 and US 81 (22,000 – 23,500 AADT)
- SH 64 – west of the intersection of US 81 (21,700 – 23,300 AADT)
- US 81 – north of SH 64 (17,800 – 19,100 AADT)
- US 81 – south of SH 64 (15,800 – 16,600)

A counter for truck traffic was located approximately 5 miles north of Enid on US 81, and 2018 data reveals 4,151 trucks. Garfield County does not have designated high-volume truck corridors. However, regionally significant truck corridors in the county include: US 81, US 412, and SH 74 as illustrated on Map 2.25.

Public Safety Issues

The vulnerability of a region's transportation system and its use in emergency evacuations are issues receiving new attention with the threat of intentional damage or destruction caused by vandalism, criminal activity, terrorist events, and natural disasters. Therefore, security goes beyond safety and includes the planning to prevent, manage, or respond to threats toward a region and its transportation system and users. There are many programs to help manage security concerns and emergency issues. NORTPO's member jurisdictions in transportation and emergency services are regular participants in security planning and preparation activities, including the update of the Garfield County Multi-Jurisdiction Hazard Mitigation Plan. Ongoing participation in these planning activities helps prepare for and better manage transportation security situations.

The FAST Act requires all states to prepare and annually evaluate their Strategic Highway Safety Plan (SHSP), a statewide, coordinated safety plan which includes goals, objectives and emphasis areas for reducing highway fatalities and serious injuries on all public roads. More information on the Oklahoma SHSP can be found on the State of Oklahoma Highway Safety Office's website (<http://ohso.ok.gov/strategic-planning-results>).

The safety of the travelling public, regardless of vehicle type or highway system classification, is of paramount concern for ODOT and NORTPO. Safety strategies are developed based on an analysis of key contributing factors such as crash data, highway inventories, traffic volumes, and highway configurations such as geometric challenges. When undesirable patterns become evident, specific countermeasures are identified based on a more in depth and detailed analysis of crash locations and causes.

Collisions

To help identify safety issues, traffic safety data must be analyzed. Trend analysis based upon multiple-years' worth of data will give a more accurate reflection of the safety condition of the county. Collision records were collected from ODOT for the years 2013-2018 which is the most completed and up-to-date data.

There were 8,703 collisions between 2013-2018 involving 2,904 people and 34 fatality collisions resulting in 37 fatalities in Garfield County. This averages to 1,740.6 collisions per year during this timeframe. Map 2.19 illustrates the collision locations between the years of 2013-2018 and corresponding data. The majority of collisions (26.5%) were rear-end, other (16.1%), angle turning (16.1%) and right angle (13.6%).

A severity index is a measure of the severity of collisions at a particular location, derived by assigning a numeric value according to the severity of each collision and totaling those numeric values. Figure 2.6 identifies the top 15 collision locations with the highest severity index for the Enid area and Figure 2.7 identifies the top 10 collision locations for the rural areas of Garfield County.

Figure 2.6 – Garfield County Collision Severity Index, 2013-2018

| CITY | HWY | INTERSECTION RELATED/TERM-LOCATION | CITY STREET NAME | CITY STREET NAME | SEVERITY INDEX | NUM COLLS. | RANK |
|------|--------|------------------------------------|------------------|---------------------|----------------|------------|------|
| ENID | US-60 | INTER | OWEN K. GARRIOTT | OAKWOOD RD. | 193 | 154 | 1 |
| ENID | US-60 | INTER | OWEN K. GARRIOTT | VAN BUREN ST./US-81 | 183 | 151 | 2 |
| ENID | US-60 | INTER | OWEN K. GARRIOTT | CLEVELAND ST. | 125 | 96 | 3 |
| ENID | US-60 | INTER | VAN BUREN ST. | WILLOW AVE. | 120 | 85 | 4 |
| ENID | US-60 | INTER | OWEN K. GARRIOTT | GARLAND RD. | 105 | 82 | 5 |
| ENID | US-60 | INTER | VAN BUREN ST. | BROADWAY | 83 | 58 | 6 |
| ENID | | INTER | | | 76 | 74 | 7 |
| ENID | US-60 | INTER | OWEN K. GARRIOTT | OVERLAND TRAIL | 75 | 48 | 8 |
| ENID | US-60 | INTER | VAN BUREN ST. | RANDOLPH-JAMES | 71 | 51 | 9 |
| ENID | US-412 | INTER | OWEN K. GARRIOTT | GRAND ST. | 67 | 45 | 10 |
| ENID | | INTER | 10 ST. | BROADWAY | 67 | 42 | 11 |
| ENID | | INTER | CLEVELAND ST. | CHESTNUT AVE. | 66 | 51 | 12 |
| ENID | US-60 | INTER | OWEN K. GARRIOTT | JOHNSON ST. | 60 | 44 | 13 |
| ENID | | INTER | CLEVELAND ST. | OKLAHOMA AVE. | 60 | 37 | 14 |
| ENID | US-60 | INTER | OWEN K. GARRIOTT | HOOVER ST. | 59 | 45 | 15 |

(Source: ODOT)

Figure 2.7 - Garfield County (excluding Enid) Collision Severity Index, 2013-2018

| HWY | CITY STREET NAME | HWY | SEVERITY INDEX | NUM COLLS | RANK |
|--------------|------------------|--------|----------------|-----------|------|
| | | | 21 | 8 | 66 |
| | | | 21 | 8 | 66 |
| US-64 | ATSF RR #11717R | | 18 | 7 | 79 |
| SH-15 | US-64 OP*3* | US-64 | 16 | 8 | 95 |
| US-60 | KEOWEE/EW 32(54) | | 15 | 8 | 104 |
| US-60 | SH-132 SOUTH | SH-132 | 11 | 9 | 136 |
| US-60 | N. MICHAEL RD. | SH-132 | 11 | 6 | 144 |
| | | | 9 | 3 | 182 |
| | | | 8 | 5 | 207 |
| US-64 | | | 8 | 3 | 218 |

(Source: ODOT)

Areas of Concern

Areas of concern were identified through surveys, holding public meetings, and soliciting comments from stakeholders. Through the collective knowledge and experience of the members of the NORTPO Technical Committee and NORTPO Policy Board, and information obtained via public comment, data areas of concern were identified. The major areas of concern are:

- RR crossing at US 412 and Grand Ave and N. 30th
- US 412/US 81 the only 2 main thoroughfares for a community to grow transportation must accommodate it
- Garriott during rush hour times. Willow during a.m. traffic.
- South side of Covington flooding
- Congestion on W. Randolph
- Van Buren needs pedestrian access for DHS, health department, medical and business services
- Railroads, Southgate, Van Buren by Walgreens
- Walgreens & Integris Hospital ER and no left Turn from Van Buren to go to Walgreens and had to jog in ER entrance to go to Walgreens
- Hayward/US 81 very dangerous due to Dollar General traffic merging onto US 81 in Waukomis
- County dirt roads
- Hwy 81 and Chestnut
- Terrible roads and bridges
- Highway 81 multiple safety concerns that need immediate attention
- North Hwy 81 from hwy 45 north to Grant County holds water, uneven, poor patch work, congestion at 81 and Koonce

- Southgate from 114th west to Van Buren
- Roads blocked by trains stopped on railroad tracks at intersections
- Van Buren and Garriott Intersection
- Rural roads outside city limits
- 30th St. needs improved for heavy truck traffic. Randolph St needs houses removed between different traffic directions
- US 81 through Enid
- Railroad crossing on Willow
- Potholes on roads
- Separated right turn lanes
- E. Oak from 2nd to 3rd; 3rd St north to Wabash and E. Randolph from downtown to Johnson
- 100 N. 8th bad roads; 9th & Pine intersection

Transportation Inventory and Improvement Needs

Road System

The state-owned highway system in Oklahoma is comprised of the State numbered route highways, the US numbered route highways and the Interstate Highway System. The state system of highways encompasses 12,254 centerline miles as measured in one direction along the dividing strip of two-lane facilities and in one direction along the general median of multilane facilities. Transportation on our highways is also facilitated by over 6,800 bridge structures that span major rivers and lakes, named and unnamed perennial streams and creeks, other roads, highways, and railroads. On average passenger vehicles, buses and trucks travelled more than 68.8 million vehicle miles each day (daily vehicle miles travelled or DVMT) in 2017 on the state-owned highway system (not including toll roads).

Oklahoma's rural nature and historically agriculture and energy-based economy has witnessed the conversion of many farm-to-market roads and bridges into highways. While these roads were ideal for transporting livestock and crops to market 70 years ago, they are less than adequate when supporting today's heavier trucks, increased traffic demands and higher operating speeds. Almost 4,390 miles of Oklahoma highways are two-lane facilities without paved shoulders Map 2.20 illustrates the location of two-lane highways with no paved shoulders.

Map 2.21 illustrates the Steep Hill/Sharp Curves areas of concern (statewide). Garfield County transportation system has approximately 1,433 miles of roadways that make up the road network. (Source: ODOT)

Preserving the transportation system has emerged as a national, state, and local transportation priority. Aging infrastructure continues to deteriorate, reducing the quality of the system and increasing maintenance costs. All roads deteriorate over time due to environmental conditions and the volume and type of traffic using the roadway.

Without proper maintenance, roadways wear out prematurely. ODOT's annual evaluation of pavement conditions and safety features such as passing opportunities, adequate sight distances, existence of paved shoulders, recovery areas for errant vehicles, and the severity of hills and curves in 2018 reveals about 30% or approximately 3,646 of the state's 12,254 miles of highway rate as poor which includes 3,126 miles of two-lane highway. The interstate system in Oklahoma is the highest class of highway and is designed to be the critical transportation link. While the 673

miles of no toll interstate account for only 5.5% on the centerline miles of our state system, it carries 33.6% of daily miles travelled.

Garfield County is served by five state highways and four US highways, as well as municipally owned streets and county roads. Highways in Garfield County include:

- US Highway 60
- US Highway 64
- US Highway 81
- US Highway 412
- SH 15
- SH 45
- SH 74
- SH 132
- SH 164

The NORTPO network of roads consists of more than 10,000 lane miles (centerline miles multiplied by the number of lanes). The municipalities are responsible for road maintenance within their corporate limits excluding the Interstate system, US and state highways which are maintained by ODOT. The county maintains the other roads outside the municipalities' corporate limits.

Bridges

Federal law requires that all bridges be inspected biennially; those that have specific structural problems may require more frequent inspections. Inspections include evaluation and rating of numerous elements of the substructure, superstructure, and deck, with special attention paid to fracture-critical members. Underwater inspections occur no less than every 5 years to check for scour (sediment removal from moving water causing holes) around bridge piers.

Bridges are rated on a numerical scale of “1” to “7” that translates into a range of Poor, Fair, Good, and Excellent. Bridges can also be described as “Structurally Deficient” and “Functionally Obsolete.” The former may have any of a number of structural problems noted in the section; while some may be closed or load-posted, many remain safe for traffic. The latter are bridges that do not meet current design standards. They may have narrow lanes, or inadequate clearances, but they may also be structurally sound. Bridges are composed of three basic parts: deck, superstructure and substructure. If any of these components receives a condition index value of 4 or less in the National Bridge Index, it is considered structurally deficient.

The NORTPO planning area has more than 4,300 bridges, culverts, and structures constructed since 1902 that are critical for regional mobility. These structures enable vehicles, bicycles, pedestrian and wildlife to cross an obstacle. More specifically, culverts are structures designed to increase water flow, while bridges are structures that span more than 20 feet between supports. Like roads, bridges and culverts deteriorate over time due to weather and normal wear-and-tear with the passage of vehicles. To ensure safety and minimize disruption to the transportation network these structures undergo regular inspections by qualified engineers. Inspections help locate and identify potential problems early and trigger protection mechanisms when a problem is found. The bridges and culverts in the county vary greatly in their age, averaging 48 years.

There are 539 bridges in Garfield County. Map 2.22 illustrates the bridges located in the City of Enid and Map 2.23 illustrates the location of on system and off system bridges. Tables 2.7 and 2.8 lists the on system and off system bridges by location and identifies structurally deficient and functionally obsolete. According to data received from ODOT, there are numerous deficient

bridges, not only in Oklahoma but Garfield County, as well. In the last few years repair and/or replacement of deficient bridges has been a priority of ODOT.

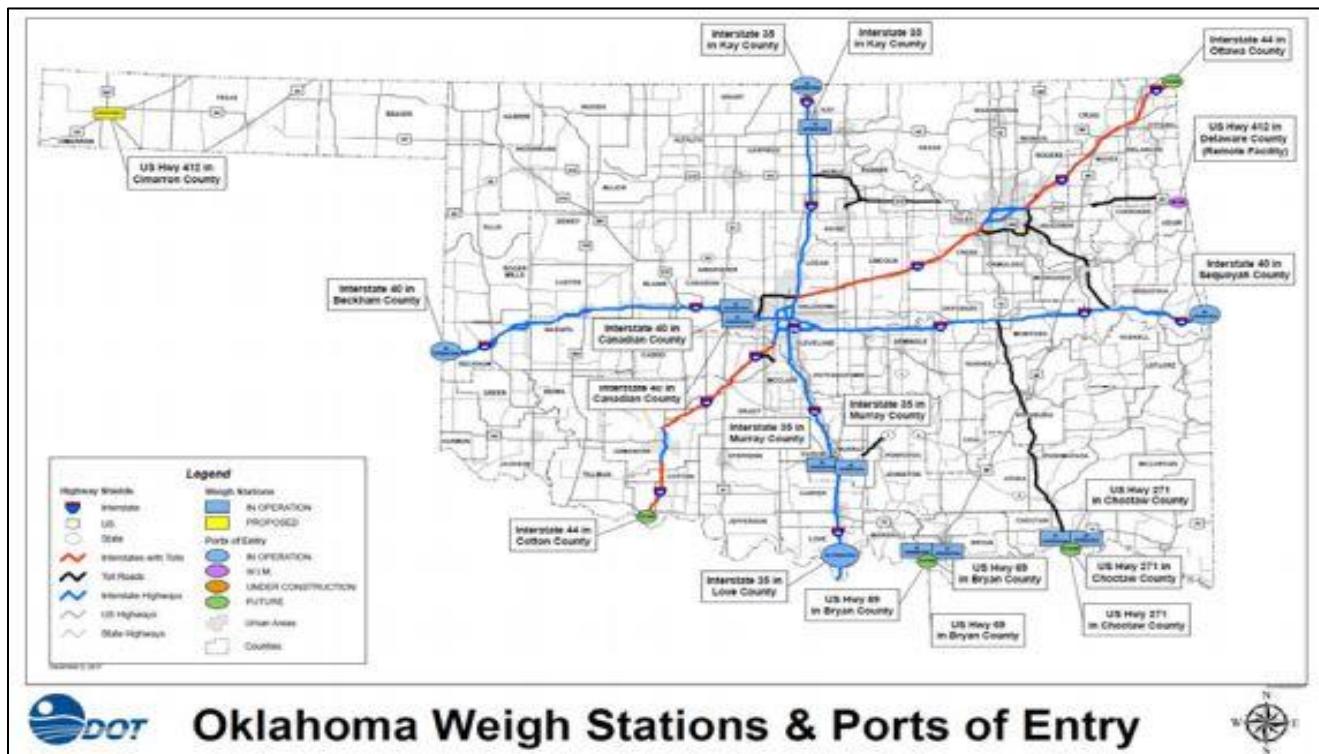
Freight

The FAST Act repealed both the Primary Freight Network (PFN) and Nation Freight Network and directed the FHWA Administrator to establish a National Highway Freight Network (NHFN). The FAST Act included the Interstate System – including Interstate facilities not located on the Primary Highway Freight System (PHFS) in the NHFN (Map 2.24). While Garfield County does not include roads identified in the NHFN, the NORTPO Policy Board recognizes that US 81, US 412 and SH 74 are major highways. Connectors are SH 15, SH 45, SH 152, SH 164, Carrier Rd., Oakwood Rd., Keowee Rd., Breckinridge Rd., 114th St., Wood Rd., Flynn Rd., and 66th St. Significant statewide and regional highway freight corridors include: US 81, US 412 and SH 132 are Garfield County Freight Corridors that were recommended by the NORTPO Technical Committee are located on Map 2.25. The majority of freight movement in the region is by truck and rail. Figure 2.8 shows the average daily long-haul traffic on the National Highway System (NHS) for 2015. Growth of freight by truck will continue to grow as industrial business grows. To assist with the inspection and enforcement of truck permits the Ports of Entry (POE) facilities were constructed. The POE are state-of-the-art facilities established as the mechanism to create a more controlled freight transportation environment on the highway system. This system monitors freight ingress at the state line and allows better enforcement of vehicle and freight laws. Figure 2.9 illustrates existing and proposed ports of entry.

Figure 2.8 - Average Daily Long-Haul Traffic, 2015



Figure 2.9 Existing and Proposed Ports of Entry



Rail

Freight traffic continues to be the main source of railroad activity in the state. An estimated 287.5 million tons of freight flows through the state on rail lines each year with many rail lines carrying 50 to 100 trains a day. Rail freight traffic will experience significant growth over the next few decades with the number of trains on some corridors expected to double over the next 20 years. The state-owned tracks are leased by privately operated railroads. (Source: ODOT)

The State of Oklahoma owns approximately 213 miles of track and the tracks are leased by privately operated railroads. In August 2014, ODOT and the Stillwater Central Railroad completed a \$75 million sale of the Sooner Sub rail line between Midwest City and Sapulpa. With the sale of the 97.5 mile, ODOT announced a \$100 million initiative to improve safety at the State's railroad crossings. Most of the money for this program comes from the \$75 million sale of the Sooner Sub. Improvements are to be made to more than 300 rail crossings statewide and will add flashing lights and crossing arms to many of these crossings. Federal funding, as well as funds provided by railroad companies, will also be used in completing the three to four-year program.

There are three Class I railroads and 19 Class III railroads in Oklahoma. Grainbelt Corporation (GNBC) is a Class III railroad operating in Garfield County. Grain and mining products are the main freight transported through the county. Freight movement by rail in the NORTPO region is primarily used by the agricultural industries. There are more than 1,375 miles of open rail track in the NORTPO region. The rail infrastructure is the responsibility of the railroads. According to information obtained from "Freight Flow Report 2012" prepared by Parsons Brinkerhoff, to enhance the state freight truck model, county-level traffic and truck counts are needed.

Oklahoma is a part of the Strategic Rail Corridor Network (STRACNET) (Figure 2.10), a function of the Railroads for National Defense Program. STRACNET consists of 38,800 miles of rail lines that connects all major Army installations, depots and ports of embarkation. Both Fort Sill and the McAlester Army Ammunition Depot are actively connected to STRACNET, while Vance Air Force Base, Altus Air Force Base (Jackson County), and Tinker Air Force Base (Oklahoma County) have the capability to reconnect to STRACNET "connector lines" through other railroad lines.

Figure 2.10 - STRACNET

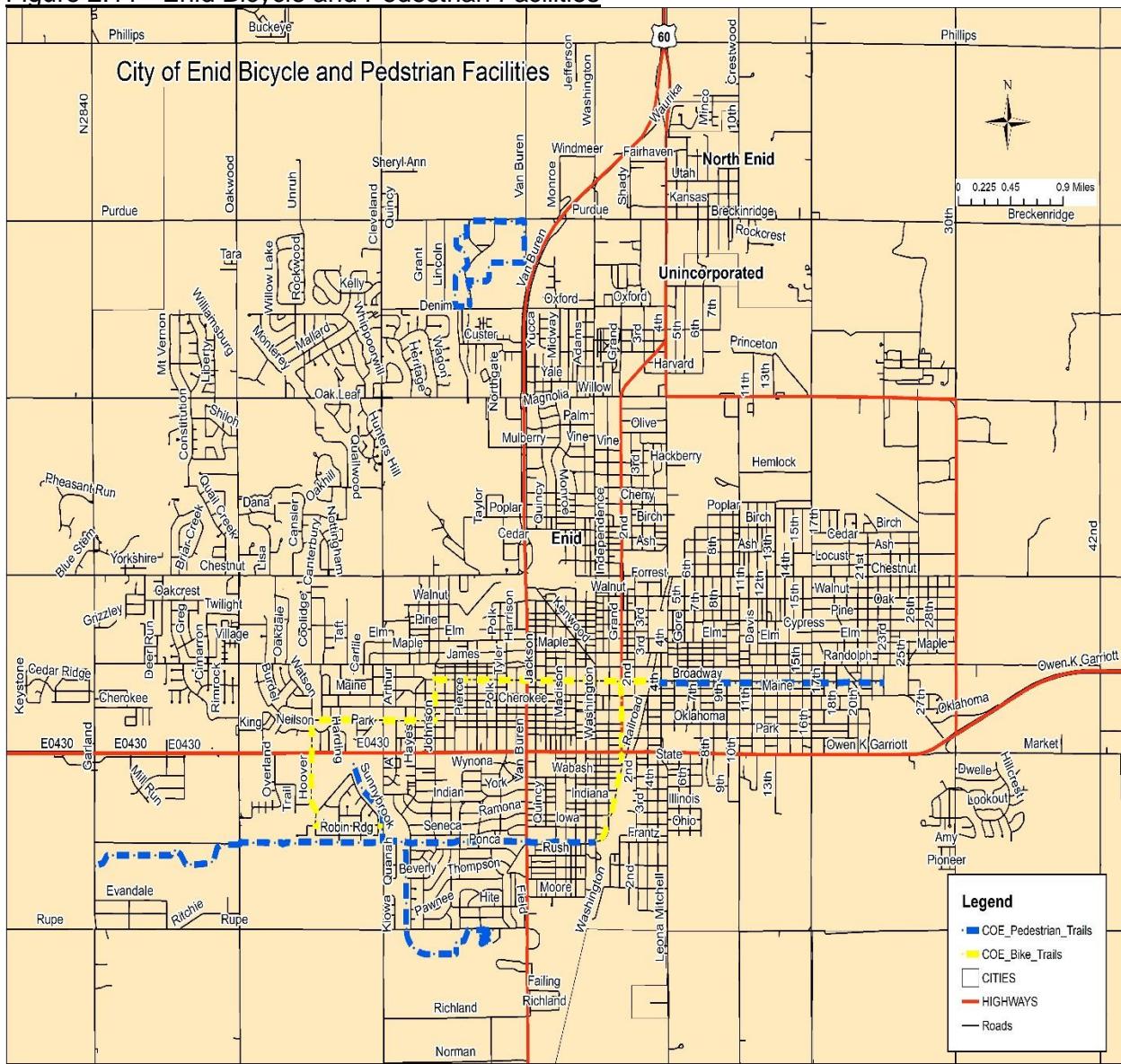


Source: https://www.sddc.army.mil/sites/TEA/Functions/SpecialAssistant/RND%20Publications/STRACNET%202018_Reduced.pdf

Bicycle and Pedestrian Network

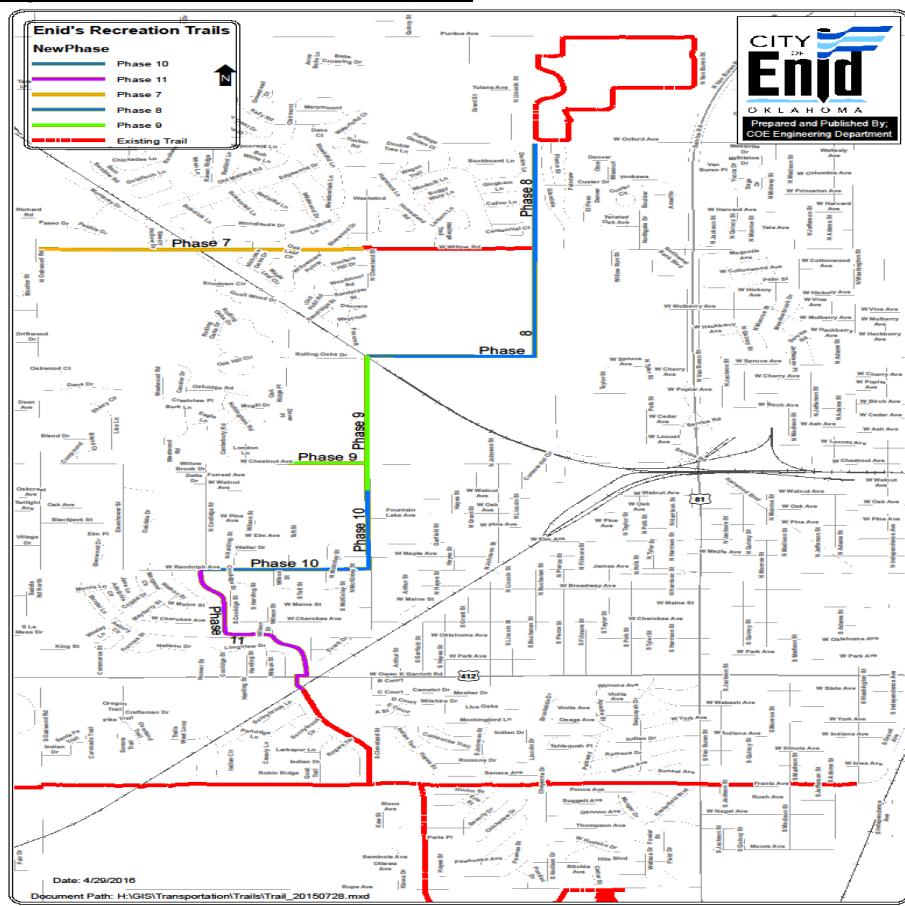
Pedestrian travel requires a network of sidewalks without gaps and with accommodations for people with disabilities as defined by the Americans with Disabilities Act (ADA). There are instances, particularly in rural areas, where a wide shoulder on a highway is an acceptable substitute for a sidewalk. Safe pedestrian travel also requires protected crossings of busy streets with marked crosswalks and pedestrian signals and appropriate pedestrian phases at signalized intersections. Garfield County's rural nature has limited the available investment in a bicycle and pedestrian network outside of the City of Enid. Figure 2.11 illustrates the City of Enid's bicycle and pedestrian facilities.

Figure 2.11 - Enid Bicycle and Pedestrian Facilities



One opportunity to develop and implement bicycle and pedestrian facilities is the Transportation Alternative Programs (TAP), administered by ODOT. In FFY 2019, projects awarded in NORTPO region included Kaw City was awarded TAP funding to install new sidewalks and walking trails connecting the Kaw City Community Center, the Kaw City Museum, the Senior Citizens Building, the city park and the post office. Potential future TAP projects include the City of Enid's recreational trails identified in Figure 2.12.

Figure 2.12 – Potential TAP Projects



Public Transportation

Public transportation systems and services in rural areas are limited. Low population densities in the NORTPO region and the distances between activity centers complicate the delivery of public transportation in rural areas. There are limited activity generators (mostly job destinations) that produce concentrations of transit need. That is, at least one end-of-trip is concentrated enough that public transit may be attractive. The difficulty then becomes establishing feasible routes and scheduling service such that the trip is acceptable to the workers. Services needed for doctor appointments, transportation to and from special events, and to accommodate wheelchairs including motorized versions, just to name a few. Federal, state and especially local funding is limited. This limits the type and level of service (LOS) that can be provided. ODOT's Transit Programs Division is responsible for the administration of the Federal Transit Administration (FTA) for rural transit operations.

Transit services available in the county are limited to on demand van service provided by:

- Enid Public Transit— curb to curb system providing service to Enid and surrounding areas.
- MAGB Transportation Inc. – call-on-demand response system serving all of northwest Oklahoma through demand van service. Table 2.9 shows ridership and revenue data.
- Cherokee Strip Transit (CTS) – originally known as Garber Elderly Transportation Systems (GETS), merged and expanded to include most of north central Oklahoma. Their main office remains in Garber, (Garfield County), but also has offices in Perry (Noble County), Tonkawa (Kay County), Watonga (Blaine County), and Kingfisher (Kingfisher County). Services are call-on-demand van or car services. Table 2.10 shows ridership and revenue data.

Aviation

NORTPO area consists of more than 25 general aviation airports (Figure 2.13) which are considered all civil aviation operations other than scheduled air services and non-scheduled air transport operation for remuneration or hire. General aviation flights range from gliders and powered parachutes to corporate jet flights. General aviation covers a large range of activities, both commercial and non-commercial, including flying clubs, flight training, agricultural aviation, light aircraft manufacturing and maintenance.

Figure 2.13 - List of NORTPO Airports

| County | Towns | Airports |
|------------------------|-------------|---------------------------------------|
| Alfalfa County | Cherokee | Cherokee Municipal Airport |
| Beaver County | Beaver | Beaver Municipal Airport |
| Blaine County | Okeene | Christman Airfield |
| | Watonga | Watonga Regional Airport |
| Cimarron County | Boise City | Boise City Airport |
| Dewey County | Seiling | Seiling Airport |
| | Vici | Vici Municipal Airport |
| Ellis County | Gage | Gage Airport |
| Garfield County | Enid | Enid Woodring Regional Airport |
| Grant County | Medford | Medford Municipal Airport |
| | Pond Creek | Pond Creek Municipal Airport |
| Harper County | Buffalo | Buffalo Municipal Airport |
| | Laverne | Laverne Municipal Airport |
| Kay County | Blackwell | Blackwell-Tonkawa Municipal Airport |
| | Ponca City | Ponca City Regional Airport |
| Kingfisher | Kingfisher | Kingfisher Airport |
| Major County | Fairview | Fairview Municipal Airport |
| Noble County | Perry | Perry Municipal Airport |
| Texas County | Guymon | Guymon Municipal Airport |
| | Hooker | Hooker Municipal Airport |
| | Texhoma | Municipal Airport |
| Woods County | Alva | Alva Regional Airport |
| | Freedom | Freedom Municipal Airport |
| | Waynoka | Waynoka Municipal Airport |
| Woodward County | Mooreland | Mooreland Municipal Airport |
| | Woodward | West Woodward Airport |

Source: <http://www.tollfreeairline.com/oklahoma.htm>

CHAPTER 3

FUTURE CONDITIONS and PLANNED IMPROVEMENTS

The objective of the Future Conditions and Planned Improvements chapter is to portray a “snapshot” of typical daily traffic conditions in Garfield County for the year 2039. It is assumed that only those projects included in the current ODOT eight-year construction plan, CIRB, Asset Preservation and projects funded by local governments will be constructed by the year 2039. Tables and maps referred to in this plan are included in Appendix G-3.

Future Conditions

Population and employment projections are based upon available data. When utilizing this data, it is imperative to understand that with this knowledge of the continued fluctuation in growth NORTPO will continue to monitor projections and impact on the LRTP. The population and employment projections for Garfield County were produced at the TAZ level for 2039. The projected population and employment data are illustrated in Maps 3.1-3.10. Table 3.1 contains supporting data for the maps. Compared to 2010, population and employment is projected to remain consistent with the 2013 - 2017 ACS estimated population of 61,581 and Oklahoma Employment Security Commission’s LAUS employment data of 28,395 through 2039. (Source: NORTPO)

The need for safety and intersection improvements in Garfield County is widespread and not practical to address all the improvements at once. Instead, careful review is needed prior to prioritization of the projects. Often times through new road construction or improvement, safety problems can be addressed. However, many of the local roads experiencing safety concerns do not need widening or are not conducive to widening. Studies to identify specific causes and solutions for these areas will need to be considered on a case-by-case basis. As population changes occur, the impact on the traffic volume and roadway capacity will need to be re-examined.

2039 Transportation Improvements

Not all service needs for the transportation system are for constructed improvements. In many instances additional data will need to be collected and studies developed to provide a complete list of needs. In the interim, projected construction improvement needs will rely on information, data, programs implemented by state, tribal governments, rail line companies, county, and city governments.

There are a number of options for addressing safety concerns on rural roads. These include but are not limited to: widening and paving shoulders, designing shoulders to accommodate pedestrians and bicyclists, realigning intersections and curves, and intersection improvements.

The funded projects identified in Appendices Tables 3.2-3.4 were obtained from the ODOT 8-Year Construction Program 2018-2025, County Improvements for Roads & Bridges Program (CIRB) Plan FFY2019-FFY2023, and Asset Preservation Program FFY2019-FFY2022. Map 3.11 illustrates the location of projects included in the ODOT 8-Year Construction Program 2018-2025.

Planned Improvements

Planned improvements are projects that are desired but funding has not been secured. After contacting the individual towns and cities in Garfield County, the following are a list of projects that are planned, only the City of Enid’s Comprehensive Plan identified potential projects.

CHAPTER 4

FINANCIAL SUMMARY

Financial Assessment

The assessment is intended to summarize federal, state, and local transportation sources.

Funding Sources

Federal

In general, transportation revenues continue to follow an unsustainable trajectory as multiple factors force the funding available for transportation to continue a downward trend. For example, both the Oklahoma and federal gas tax rates are fixed on a per-gallon basis, and therefore gas tax revenues are not responsive to inflation. As the cost of transportation infrastructure projects increases, the amount of revenue generated from the gas tax remains static. It is not possible to maintain past levels of transportation investments as per capita collections continue to decline. Additionally, as cars become more fuel efficient, drivers pay less in gas taxes. At the same time, the wear and tear on roadways caused by these vehicles remains the same. The federal funding levels related to highways are typically established through authorizing legislation commonly referred to as the Federal Highway Bill. This legislation normally authorizes projected funding levels for a period of six years. Consistent, long-term funding anticipations are critical in order to understand the expected annual federal funding availability and prepare projects accordingly. Each year, the legislation is funded through the Administration's budgeting and the congressional appropriations processes. The primary source for the dedicated federal transportation funding appropriation is the gasoline and diesel tax deposits directed to the Federal Highway Trust Fund (HTF).

The department of transportation in each state is designated as the cognizant or recipient agency to interact with the representative federal agency, the Federal Highway Administration (FHWA). Therefore, federal funding for roads and bridges is administered by ODOT regardless of facility ownership. All traditional, congressionally identified or discretionarily funded city street and county road projects that utilize federal highway funding are administered by and through ODOT.

Taxes on gasoline and other motor fuels are collected and distributed from the HTF and are distributed to the states by the FHWA and the Federal Transit Administration (FTA) to each state through a system of formula Majors and discretionary allocations. Motor fuels taxes, consisting of the 17 cents per gallon tax on gasoline and 14 cents per gallon tax on diesel fuels, are the trust fund's main dedicated revenue source. Taxes on the sale of heavy vehicles, truck tires, and the use of certain kinds of vehicles bring in smaller amounts of revenue for the trust fund.

Surface Transportation Program (STP) are federal funds utilized on road projects. These STP funds may provide up to eighty percent (80%) of the construction costs of these projects. Counties and municipalities fund the remaining twenty percent (20%) match for construction costs, plus the costs for engineering, right of way and utility relocation through local sources or state funded taxes.

State

Funding for highway improvements in Oklahoma comes primarily from two sources – Federal HTF and revolving funds including federal and state motor fuel taxes directed to the Highway Trust Fund and the State Transportation Fund along with the Rebuilding Oklahoma Access and Driver Safety (ROADS) fund as initiated by House Bill 1078 in 2005. House Bill 2248 and House

Bill 2249 provide funding to reduce the number of structurally deficient bridges and deteriorating road conditions on the state highway system.

In 1923, Oklahoma enacted its first state level excise tax on motor fuels. The last increase was in 1987 and the tax is currently seventeen cents (\$0.17) per gallon for gasoline and diesel at fourteen cents (\$0.14) per gallon. There is also a transportation-dedicated five cents (\$0.05) per gallon tax on natural gas used for motor vehicle fuel. Oklahoma's primary sources of funding for road and bridge construction and maintenance are derived from fuel taxes and motor vehicle tax. The motor fuel taxes that are deposited to the State Transportation Fund (STF) are gasoline excise tax, diesel fuel excise tax, special fuel use tax, and special fuel decals. The fuel tax is assessed on consumers when they purchase fuel, and the gasoline tax is the largest generator of revenue to the STF. The motor fuel tax revenues are also apportioned to municipalities and county governments for road and bridge repair and maintenance and to Native American Tribes.

In addition to the above taxes the ROADS Fund is guaranteed an annual apportionment but capped at \$575 million annually. Oklahoma's state budget shortfalls since 2010 continues to have a negative impact on the transportation system. In FY 2017 there was a \$367 million reduction in transportation funding. During FY 2018 \$156.6 million was transferred from the State Transportation fund which led to a reduction and removal of projects under the 8 Year Construction Work Program. Funding (\$50 million) was also reduced from the county road and bridge improvement fund administered by ODOT.

Public transportation funding for rural transit agencies is as follows:

- ODOT receives FTA's Section 5311 funding.
- Sub recipients submit application for Section 5311 funds annually.
- ODOT reviews application which includes service areas. Service areas usually include multiple counties and/or city limits.
- Funds are allocated to eligible sub recipients based on the average of their last two previous years of performance measures (i.e. revenue miles, passenger trips, etc.) within their pre-approved Section 5311 service areas.
- Sub recipients are reimbursed for eligible administrative, operational, and capital expense, at specific rates, for services performed within their total pre-approved Section 5311 service areas.

Funding of local transportation projects and programs is heavily influenced by State of Oklahoma's annual budget and federal funding. Transportation funding sources based on motor vehicle fuel taxes tend to fluctuate with changes in fuel prices and fuel consumption. While most taxes are not tied to fuel prices, when gas prices go up, consumption tends to go down and thus tax revenues decline. Oklahoma's state budget continues to experience historic downfall revenues and these downfalls have a negative impact on the transportation system. With this plan development it is anticipated that there will continue to be a downfall in available revenue for transportation programs and projects. Therefore, the coordination with local, regional and statewide agencies in the development of transportation programs and projects is significant in order to accomplish the projects.

County

The main funding program for county roads and bridges is the County Highway Fund, which consists of revenues from the state taxes on gasoline and diesel fuels, as well as, motor vehicle registration fees and a portion of the state gross production tax on oil and gas in the case of counties that have oil and gas production. A county's apportionment is based on several formulas that use proportional shares of each factor as it relates to the total statewide county totals.

Counties that have oil and natural gas production receive a portion of the seven percent (7%) state tax for roads and bridges with revenues earmarked for roads and bridges.

Challenges faced by local and state governments include: dependence on revenues from the state gas tax, the state's fixed rate gas tax, major disaster declarations, and impact on the infrastructure.

In the summer of 2006, a law created the County Improvements for Roads and Bridges (CIRB) program. The funds apportioned to the program are in equal amounts to the eight Transportation Commission Districts. The sole purpose of the funds is for the construction or reconstruction of county roads or bridges on the county highway system that are the highest priority. Funds may accumulate annual funding for a period of up to five years for a specific project. Information obtained from a report published by the National Association of Counties, funds collected by OTC for transportation projects are distributed directly to the counties. Revenues for specifically for the CIRB category are collected from state gasoline and diesel tax, special fuel tax and state gross production tax on oil. CIRB funding was depleted by \$230 million over 3 years. In 2019, \$30 million was paid back to the CIRB program by the legislators. Table F3.4 summarizes the CIRB for Garfield County. The County uses a small percentage of tax revenues for maintenance and minor improvements, relying on outside funding sources for major improvements.

Local

The main source of funding for community transportation projects is found in the general operating budgets. Generally, these funds are derived by city sales tax and fees.

Funding for rural transportation projects may also be available through federal sources such as Community Development Block Grant (CDBG) through Oklahoma Department of Commerce, Economic Development Administration (EDA), and US Department of Agriculture Rural Development (USDA RD) programs. Oklahoma has limited funding available for projects through REAP administered by Councils of Government (COG).

CHAPTER 5

PUBLIC PARTICIPATION SUMMARY

This chapter presents and describes the public participation tools the RTPOs utilize as part of the planning process. Public participation is a federal requirement identified in the FAST Act. NORTPO has an adopted Public Participation Plans that was followed.

Environmental Justice (EJ)

The Federal Highway Administration (FHWA) has long embraced non-discrimination policy to make sure federally-funded activities (planning through implementation) are not disproportionately adversely impacting certain populations. These populations include low-income persons and populations as defined by the U.S. Department of Health and Human Services (HHS) Poverty Guidelines, and minority persons and populations (Black or African American, Hispanic or Latino, Asian American, American Indian and Alaskan Natives). As such, public involvement and outreach for the LRTP must adhere to Presidential Executive Order 12898, Environmental Justice.

According to the US Census Bureau's 2013-17 ACS population estimates, Garfield County's racial and ethnic composition is 82% White, followed by 3.2% African American, 2.8% Native Hawaiian and Other Pacific Islander; 2.1%, American Indian and Alaska Native, 0.8% Asian, and Hispanic or Latino 11.6%. In comparison, Oklahoma's racial ethnic composition for 2013-2017 ACS was 72.6% White, 7.3% African American, 7.4% American Indian and Alaska Native, 2.1% Asian and 10.1% Hispanic or Latino. The LRTP process identified EJ populations through a comparison of the racial and ethnic composition of the county.

Coordination Efforts

The process to identify goals and objectives for the county started with a review and comparison of goals and objectives from other related planning documents and policies to ensure general consistency. The review included:

- FAST Act Federal Planning Factors (MAP-21 Federal Planning Factors)
- ODOT 2015-2040 Long Range Transportation Plan
- Freight Flow study
- 2012 Transit Gap Overview and Analysis
- Oklahoma Mobility Plan
- STIP: http://www.okladot.state.ok.us/p-r-div/stip/STIP_2018-21/Complete_2018-21_STIPSEP2018.pdf
- https://www.ok.gov/odot/Programs_and_Projects/8_Year_Construction_Work_Plan/
- CIRB: <http://www.okladot.state.ok.us/cirb/index.htm>
- ODOT report on earthquakes
- Rail Plan: http://www.okladot.state.ok.us/rail/rail-plan/pdfs/2012_RailPlan.pdf

Public involvement is an integral part of the transportation process. NORTPO is proactive in its efforts to effectively communicate with the public and in 2019 adopted a revised Public Participation Plan (PPP) (on NORTPO website) to ensure that the transportation planning process and procedures complies with federal requirement for public to take an active role in the decision-making process.

NORTPO hosted 5 public meetings in Garfield County, and/or provided notice of availability for public outreach to involve interested parties in the early stages of the plan development. Surveys were distributed at three stakeholders meeting held at NODA's office in Enid, Fairmont Fire Department Annual Fundraiser presentation, Garfield County Public Safety Association (GCPSA) presentation, and were available on NORTPO's website (www.nortpo.org). The survey and summary are shown in Appendix E.

CHAPTER 6

TRANSPORTATION RECOMMENDATIONS

This chapter identifies the recommendations and summary of improvements that were developed as a result of the previous review of demographics, growth, activity generators, transportation system, survey information, existing plans (such as Emergency Operation Procedures, hazard mitigation plans, capital improvement plans, etc.) and other such issues. The information provided in the LRTP is to provide guidance on recommended projects, studies and plans. It is assumed that only those Garfield County projects included in the ODOT eight-year FFY2019-2026 construction program and CIRB will be constructed by the year 2039.

The projects included in the LRTP are primarily funded by ODOT, with some having additional funding from local grants and/or local funds. When implementing this plan, NORTPO and its partners will continue to review potential funding sources as they become available or as projects become eligible for other sources. NORTPO will expand on this effort by identifying additional projects that are needed in the county and helping local governments with the identification of funding sources for those projects.

Not all of the recommendations are for constructed improvements. In some cases, studies must be conducted to determine if the improvement is warranted (installation of new traffic signals, for example). In other cases, studies should be undertaken in order to develop a comprehensive set of solutions.

Implementation policies and solutions include:

Roadway

- Plan and implement transportation systems that are multi-modal and provide connections between modes.
- Support transportation projects serving already developed locations.
- Protect cultural, historical, scenic resources.
- Establish a scheduled traffic count and reporting system for the region.
- Develop a regional freight plan.
- Improve infrastructure to support emergency response and evacuations.
- Utilize ODOT's bridge rating system as a tool to identify marginally sufficient structures.
- Collect and review data from Weight in Motion (WIM, aka Truck Weigh Station/Port of Entry) and identify trends.
- Participate in updates of the State Multi-modal Freight Plan.

Rail

- Collect and review incident data at rail crossings. Identify crossings for potential upgrade.

Bicycle and Pedestrian

- Develop an education safety awareness program.
- Participate in ODOT's planning efforts to develop a statewide bicycle and pedestrian plan.

Safety

- Coordinate with local governments to identify safety concerns.
- Collect and review accident data and identify trends.

Public Transportation

- Increase inter- and intra- county transit services.
- Promote transit systems providing service to major activity centers and enhance coordination among providers.
- Measure transit service and identify needs.

Planning and Community

- Coordinate with local, regional and state partners to identify type, frequency and responsibility of data collection and maintenance.
- Facilitate meetings with local and regional transportation providers and users.
- Engage the public in various methods to increase their understanding of the planning process.
- Protect the general aviation airports from encroachment of incompatible development.
- Prioritize transportation projects that serve major activity centers and freight corridors.
- Develop and maintain electronic database and mapping of environmental resources or areas of concern.
- Participate in regional and statewide planning efforts.

The projects included in the LRTP may have potential funding from a single source or multiple sources. Each project has its own unique components relative to only that project and while there are many funding programs within various state and federal agencies, each project must be evaluated on its own merits to determine which programs will apply. It should be noted that some projects have multiple funding sources, these represent the primary sources and additional sources not listed may also be available. Additional sources could include funding from sources such as but not limited to Economic Development Administration (EDA), United States Department of Agriculture (USDA), Community Development Block Grant (CDBG), Rural Economic Action Plan (REAP) Grant, Industrial Access, Lake Access, and Transportation Alternative Programs (TAP).

Committed Improvements

The ODOT eight-year Construction plan groups projects according to anticipated state and federal fund categories. With regard to federally funded projects, the current plan is fiscally balanced in that the total project costs do not exceed the anticipated federal funds. ODOT policy prohibits start of future projects until all funding is in place and policy dictates projects cannot be programmed in the Statewide Transportation Improvement Program (STIP) unless there is a programmatic and financial game plan for completing the project within six years. Transportation projects that are part of the ODOT eight-year plan (Table 3.2), CIRB (Table 3.3), Asset Preservation (Table 3.4) and county lists identified in are described in Chapter 3 and illustrated in Figure 6.1.

Table 6.1 – Garfield County Prioritized List of Transportation Projects

| COUNTY | TYPE | YEAR | DESCRIPTION | ADVCON\$ Federal\$ STATE\$ | OTHERS\$ CIRB\$ TRIBES\$ | TOTAL |
|--------------------------------|-----------------------|--|--|----------------------------------|--------------------------------|---------------------------|
| GARFIELD DIV 4 24868(09) | CO RD 11.00 MI | FY 2019 RESURFACE | CO. RD. EW-40 (2416C) FROM SH-15 TO NS-305 PHASE III | \$0 \$0 \$0 | \$0 \$1,000,000 \$0 | \$0 \$1,000,000 \$0 |
| GARFIELD DIV 4 29876(04) | COBRGE 0.20 MI. | FY 2019 BRIDGE & APPROACHES | BR AND APP ON EW-46 OVER TURKEY CREEK, 0.3 MILES EAST, 3.3 MILES NORTH AND 1.3 MILES EAST OF DRUMMOND CT BEAMS | \$0 \$0 \$0 | \$0 \$657200 \$0 | \$0 \$657200 \$0 |
| GARFIELD DIV 4 31808(05) | COBRGE 0.25 MI. | FY 2019 CONTRACT P.E. (AS OF 10/1/2019) | BRIDGE AND APPROACHES ON EW-56 OVER BITTER CREEK, 0.5 MILES NORTH AND 9.0 MILES EAST OF BISON PE FOR 31808(04) | \$0 \$0 \$0 | \$0 \$75,000 \$0 | \$0 \$75,000 \$0 |
| GARFIELD DIV 4 32843(06) | CO RD 2.90 MI. | FY 2019 RIGHT OF WAY | SOUTHGATE RD. FROM 0.1 MILES EAST OF US-81, EXTEND EAST 2.9 MILES RW FOR 32843(04) | \$0 \$0 \$0 | \$0 \$100,000 \$0 | \$0 \$100,000 \$0 |
| GARFIELD DIV 4 32843(07) | CO RD 2.90 MI. | FY 2019 UTILITIES | SOUTHGATE RD. FROM 0.1 MILES EAST OF US-81, EXTEND EAST 2.9 MILES UT FOR 32843(04) | \$0 \$0 \$0 | \$0 \$100,000 \$0 | \$0 \$100,000 \$0 |
| GARFIELD DIV 4 28679(06) | CO RD 5.00 MI. | FY 2020 RIGHT OF WAY | CO RD NS-282, FROM US-412, EXTEND SOUTH 8.0 MILES TO EW-51 RW FOR 28679(04) | \$0 \$0 \$0 | \$0 \$100,000 \$0 | |
| GARFIELD DIV 4 28679(07) | UTILITIES 5.00 MI. | FY 2020 UTILITIES | CO RD NS-282, FROM US-412, EXTEND SOUTH 8.0 MILES TO EW-51 UT FOR 28679(04) | \$0 \$0 \$0 | \$0 \$0 \$0 | \$100,000 |
| GARFIELD DIV 4 29874(04) | COBRGE 0.20 MI | FY 2020 BRIDGE AND APPROACHES | BR AND APP ON EW-47 OVER SPRING CREEK, 5.0 MILES EAST, 4.0 MILES SOUTH AND 0.2 MILES EAST OF LAHOMA CT BEAMS | \$0 \$0 \$0 | \$0 \$700,000 \$0 | \$700,000 |
| GARFIELD DIV 4 31808(05) | COBRGE 0.25 MI. | FY 2019 CONTRACT P.E. (AS OF 10/1/2013) | BRIDGE AND APPROACHES ON EW-56 OVER BITTER CREEK, 0.5 MILES NORTH AND 9.0 MILES EAST OF BISON PE FOR 31808(04) | \$0 \$0 \$0 | \$0 \$75,000 \$0 | \$75,000 |
| GARFIELD DIV 4 32843(06) | CO RD 2.90 MI | FY 2019 RIGHT OF WAY | SOUTHGATE RD. FROM 0.1 MILES EAST OF US-81, EXTEND EAST 2.9 MILES RW FOR 32843(04) | \$0 \$0 \$0 | \$0 \$100,000 \$0 | \$100,000 |

| COUNTY | TYPE | YEAR | DESCRIPTION | ADVCON\$ Federal\$ STATE\$ | OTHERS\$ CIRB\$ TRIBES\$ | TOTAL |
|--------------------------------|-------------------|---|--|----------------------------------|--------------------------------|-------------------------------|
| GARFIELD DIV 4 32843(07) | CO RD 2.90 MI | FY 2019 UTILITIES | SOUTHGATE RD. FROM 0.1 MILES EAST OF US-81, EXTEND EAST 2.9 MILES UT FOR 32843(04) | \$0 \$0 \$0 | \$0 \$100,000 \$0 | \$100,000 |
| GARFIELD DIV 4 30437(04) | COBRGE 0.25 MI | FY 2020 BRIDGE & APPROACHES | BRIDGE & APPROACHES N NS-296 OVER RED ROCK CREEK, 6.0 MILES EAST & 3.9 MILES SOUTH OF KREMLIN | \$0 \$560,000 \$0 | \$0 \$140,000 \$0 | \$0 \$700,000 \$0 |
| GARFIELD DIV 4 31210(04) | COBRGE 0.25 MI | FY 2020 BRIDGE & APPROACHES | ON EW-48 OVER TURKEY CREEK, 6.4 MILES WEST OF US-81 | \$0 \$560,000 \$0 | \$0 \$140,000 \$0 | \$0 \$700,000 \$0 |
| GARFIELD DIV 4 31968(05) | COBRGE 0.25 MI | FY 2020 CONTRACT PE (10/1/2013) BRIDGE AND APPROACHES | ON NS-298 OVER RED ROCK CREEK, 1.9 MILES WEST AND 4.3 MILES SOUTH OF HUNTER PE FOR 31968(045) | \$0 \$0 \$0 | \$0 \$75,000 \$0 | \$0 \$75,000 \$0 |
| GARFIELD DIV 4 32843(04) | CO RD 2.90 MI | FY 2020 GRADE, DRAIN & SURFACE | SOUTHGATE RD. FROM 0.1 MILES EAST OF US-81, EXTEND EAST 2.9 MILES | \$0 \$1,000,000 \$0 | \$0 \$1,000,00 \$0 | \$0 \$1,000,0 00 \$0 |
| GARFIELD DIV 4 32843(09) | CO RD 1.00 MI | FY 2020 RIGHT OF WAY | GRADE, DRAIN, & SURFACE ON SOUTHGATE START 16TH ST. EXTEND 1.0 MILE TO 30TH ST. RW FOR 32843(08) | \$0 \$0 \$0 | \$0 \$25,000 \$0 | \$0 \$25,000 \$0 |
| GARFIELD DIV 4 32843(10) | CO RD 1.00 MI | FY 2020 UTILITIES | GRADE, DRAIN, & SURFACE ON SOUTHGATE START 16TH ST. EXTEND 1.0 MILE TO 30TH ST. RW FOR 32843(08) | \$0 \$0 \$0 | \$0 \$25,000 \$0 | \$0 \$25,000 \$0 |
| GARFIELD DIV 4 33508(05) | CO RD | FY 2020 CONTRACT P.E. (AS OF 10/1/2013) | CHIP SEAL STP PROJECT: 6.0 MI ON EW-51 FROM US- 81 TO NS-293 & 7.0 MI. ON NS-293 FROM EW-52.25 TO EW-45. (MULTI COUNTIES DIV) (DESIGN FOR 33508(04)) | \$0 \$0 \$0 | \$0 \$50,000 \$0 | \$0 \$50,000 \$0 |
| GARFIELD DIV 4 29872(04) | COBRGE 0.20 MI | FY 2021 BRIDGE & APPROACHES | BR AND APP ON NS-307 OVER BLACK BEAR CREEK, 3.0 MILES EAST AND 2.0 MILES SOUTH OF JCT US-64/SH-74 CT BEAMS | \$0 \$0 \$0 | \$0 \$800,000 \$0 | \$0 \$800,000 \$0 |
| GARFIELD DIV 4 29873(04) | COBRGE 0.20 MI | FY 2021 BRIDGE & APPROACHES | BR AND APP ON NS-295 OVER SKELETON CREEK, 8.0 MILES EAST AND 0.6 MILES SOUTH OF BISON CT BEAMS | \$0 \$0 \$0 | \$0 \$600,000 \$0 | \$0 \$600,000 \$0 |

| COUNTY | TYPE | YEAR | DESCRIPTION | ADVCON\$ Federal\$ STATE\$ | OTHERS\$ CIRB\$ TRIBES\$ | TOTAL |
|---------------------------------|-------------------|---|---|----------------------------------|--------------------------------|-------------------------------|
| GARFIELD DIV 4 29875(04) | COBRGE 0.20 MI | FY 2021 BRIDGE & APPROACHES | BR AND APP ON NS-286 OVER WILD HORSE CREEK, 4.0 MILES WEST AND 0.3 MILES NORTH OF KREMLIN CT BEAMS | \$0 \$0 \$0 | \$0 \$700,000 \$0 | \$0 \$700,000 \$0 |
| GARFIELD DIV 4 32843(08) | CO RD 1.00 MI | FY 2021 GRADE, DRAIN & SURFACE | GRADE, DRAIN, & SURFACE ON SOUTHGATE START 16TH ST. EXTEND 1.0 MILE TO 30TH | \$0 \$1,168,831 \$0 | \$0 \$200,000 \$0 | \$0 \$1,368,8 31 \$0 |
| GARFIELD DIV 4 32870(05)) | COBRGE 0.25 MI | FY 2021 CONTRACT P.E. (AS OF 10/1/2013) | BRIDGE & APPROACHES ON EW-57 OVER SKELETON CREEK, 0.5 MILES SOUTH & 7.3 MILES EAST OF BISON PE FOR 32870(04) | \$0 \$0 \$0 | \$0 \$75,000 \$0 | \$0 \$75,000 \$0 |
| GARFIELD DIV 4 33049(04) | COBRGE 0.25 MI | FY 2021 BRIDGE & APPROACHES | BRIDGE AND APPROACHES ON EW-49 OVER TURKEY CREEK, 0.3 MILES NORTH AND 2.4 MILES EAST OF DRUMMOND CIRCLE #175 | \$0 \$800,000 \$0 | \$0 \$200,000 \$0 | \$0 \$1,000,0 00 \$0 |
| GARFIELD DIV 4 28679(04) | CO RD 5.00 MI | FY 2022 GRADE, DRAINING, BRIDGE & SURFACE | CO RD NS-282, FROM US- 412, EXTEND SOUTH 6.0 MILES TO EW-49 | \$0 \$0 \$0 | \$0 \$3,000,00 0 \$0 | \$0 \$3,000,0 00 \$0 |
| GARFIELD DIV 4 31808(04) | COBRGE 0.25 MI | FY 2022 BRIDGE & APPROACHES | BRIDGE AND APPROACHES ON EW-56 OVER BITTER CREEK, 0.5 MILES NORTH AND 9.0 MILES EAST OF BISON | \$0 \$640,000 \$0 | \$0 \$160,000 \$0 | \$0 \$800,000 \$0 |
| GARFIELD DIV 4 33495(05) | COBRGE | FY 2022 CONTRACT P.E. (AS OF 10/1/2013) | CO BR ON E0290 2.0 MI. N. & 7.0 MI. E. OF HILLSDALE (DESIGN FOR 33495(04)) | \$0 \$0 \$0 | \$0 \$75,000 \$0 | \$0 \$75,000 \$0 |
| GARFIELD DIV 4 33508(04) | CO RD 13.00 MI | FY 2022 CHIP SEAL | CHIP SEAL STP PROJECT: 6.0 MI. ON EW-51 FROM US-81 TO NS-293 & 7.0 MI. NS-293 FROM EW-52.25 TO EW-45. (MULTI COUNTIES IN DIV 4 | \$0 \$366,667 \$0 | \$0 \$100,000 \$0 | \$0 \$466,667 \$0 |
| GARFIELD DIV 4 31968(04) | COBRGE 0.25 MI | FY 2023 BRIDGE & APPROACHES | BRIDGE AND APPROACHES ON NS-298 OVER RED ROCK CREEK, 1.9 MILES WEST AND 4.3 MILES SOUTH OF HUNTER | \$0 \$640,000 \$0 | \$0 \$160,000 \$0 | \$0 \$800,000 \$0 |
| GARFIELD DIV 4 33927(05) | CO RD | FY 2023 CONTRACT P.E. (AS OF 10/1/2013) | COUNTY ROAD CN 156 D1 PE FOR 33927(04) | \$0 \$0 \$0 | \$0 \$75,000 \$0 | \$0 \$75,000 \$0 |

Conclusion

This plan will be used to develop and implement programs to enhance the County and region's multi-modal transportation system, providing the public and businesses safe, convenient, affordable and environmentally responsible transportation choices. NORTPO will work with elected officials, various state and federal agencies, and public and private stakeholders as it is the intent of this plan to also encourage communities to invest in improving their streets, ensuring the transportation network is a high-performing system for economic competitiveness for the next 20 years.

APPENDICES

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Appendix A - Acronyms

| | |
|----------|---|
| ACS | American Community Survey (Census) |
| ADA | Americans with Disabilities Act |
| CDBG | Community Development Block Grant |
| CIRB | County Improvements for Roads and Bridges |
| COG | Council of Government |
| CST | Cherokee Strip Transit |
| C/L | County Line |
| EDA | Economic Development Administration |
| EJ | Environmental Justice |
| FAST | Fixing America's Surface Transportation Act |
| FEMA | Federal Emergency Management Agency |
| FHWA | Federal Highway Administration |
| FTA | Federal Transit Administration |
| GIS | Geographic Information System |
| GNBC | Grainbelt Corporation |
| HTF | Federal Highway Trust Fund |
| LAUS | Local Area Unemployment Statistic |
| LOS | Level of Service |
| LRTP | Long Range Transportation Plan |
| MAGB | Major, Alfalfa, Grant, Blaine (county transit system) |
| MI | Miles |
| NHFN | National Highway Freight Network |
| NHPP | National Highway Performance Program |
| NHS | National Highway System |
| NODA | Northern Oklahoma Development Authority |
| NORTPO | Northern Oklahoma Regional Transportation Planning Organization |
| ODEQ | Oklahoma Department of Environmental Quality |
| ODOT | Oklahoma Department of Transportation |
| ODWC | Oklahoma Department of Wildlife Conservation |
| OESC | Oklahoma Employment Security Commission |
| OTC | Oklahoma Tax Commission |
| PFN | Primary Freight Network |
| PHFS | Primary Highway Freight System |
| POE | Points of Entry |
| PWP | Planning Work Program |
| REAP | Rural Economic Action Plan |
| ROADS | Rebuilding Oklahoma Access and Driver Safety |
| RTPO | Regional Transportation Planning Organization |
| SHSP | Strategic Highway Safety Plan |
| STF | State Transportation Fund |
| STP | Surface Transportation Program |
| STRACNET | Strategic Rail Corridor Network |
| TAP | Transportation Alternate Program |

| | |
|---------|--|
| TAZ | Traffic Analysis Zone |
| USDA-RD | US Department of Agriculture Rural Development |
| USEPA | United States Environmental Programs Agency |
| USGS | United States Geological Survey |
| WIM | Weight in Motion |

Appendix B - Definitions

Accident Severity Index – A measure of the severity of collisions at a particular location, derived by assigning a numeric value according to the severity of each collision and totaling those numeric values.

Americans with Disabilities Act of 1990 (ADA) – Federal law which requires accessible public transportation services for persons with disabilities, including complementary or supplemental paratransit services in areas where fixed route transit service is operated. Expands definition of eligibility for accessible services to persons with mental disabilities, temporary disabilities, and the conditions related to substance abuse. The Act is an augmentation to but does not supersede Section 504 of the Rehabilitation Act of 1973, which prohibits discrimination on the basis of disability against otherwise qualified individuals in programs receiving federal assistance.

Capacity – The maximum number of vehicles that can pass over a given section of a lane or roadway in one direction during a given time period under prevailing roadway and traffic conditions.

Census Tracts – Small areas with generally stable boundaries, defined within counties and statistically equivalent entities, usually in metropolitan areas and other highly populated counties. They are designed to be relatively homogeneous with respect to population characteristics, economic status, and living conditions.

Class I railroad – Having annual carrier operating revenues of \$250 million or more after adjusting for inflation using the Railroad Freight Price Index.

Class III or short-lined railroad – Having an annual operating revenue of less than \$20 million and typically serve a small number of towns and industries or haul cars for one or more Class I railroads.

Congestion – The level at which transportation system performance is no longer acceptable to the travelling public due to traffic interference.

Deck - The portion of the bridge that directly carries traffic.

Demand Response Service (DRS) – Provides travel assistance from one location to another within a specific area for medical appointments, shopping, and other basic needs destinations. The vehicles do not operate over a fixed route or on a fixed schedule but in response to calls from passengers or their agents. Fares will vary based on length of trip and users are required to call in advance to make reservations. The vehicle may be dispatched to pick up several passengers at different pick-up points before taking them to their respective destinations.

Culvert: A pipe or small structure used for drainage under a road, railroad or other embankment. A culvert with a span length greater than 20 feet is included in the National Bridge Inventory (NBI) and receives a rating using the NBI scale.

Environmental Justice (EJ) – The fair treatment and meaningful involvement of all people regardless of race, color, national origin, culture, education, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. In transportation, this requires review of whether the benefits and burdens of transportation investments appear to be distributed evenly across the regional demographic profile and, if necessary, mitigation of such effects.

Functional Classification (FC) – Identification and categorization scheme describing streets according to the type of service they provide into one of four categories: principal arterials, minor

arterials, collectors and local. G Grade – The slope (ratio of change in elevation to change in distance) of a roadway typically given in percent. For example, a 2% grade represents 2-feet of elevation change over a 100-foot distance.

Functionally Obsolete - A bridge term used when any of the geometric properties of a bridge are deficient such as being too narrow or load posted; any restriction of strength or weight.

Level of Service (LOS) – Refers to a standard measurement used by planners which reflects the relative ease of traffic flow on a scale of A to F with free-flow being rated LOS A and congested conditions rated as LOS F.

Long Range Transportation Plan (LRTP) – Every state and MPO must develop a long-range transportation plan for transportation improvements, including a bicycle and pedestrian element. The LRTP looks 20 years ahead and is revised every five years.

Multimodal – The consideration of more than one mode to serve transportation needs in a given area. Refers to the diversity of options for the same trip; also, an approach to transportation planning or programming which acknowledges the existence of or need for transportation options.

National Highway System (NHS) – A nation-wide system of approximately 155,000 miles of major roads. The entire Interstate System is a component of the National Highway System and includes a large percentage of urban and rural principal arterials, the defense-strategic highway.

Structurally Deficient - A bridge term used when the physical condition of any of the bridge elements are lacking. These properties have a major bearing in qualifying a bridge for federal bridge replacement or rehabilitation funds.

Substructure - The portion of the bridge that supports the superstructure and distributes all bridge loads to below-ground bridge footings.

Superstructure - The portion of the bridge that supports the deck and connects one substructure element to another.

Surface Transportation Program (STP) – A category of federal transportation funds administered by the Federal Highway Administration and allocated to states and metropolitan areas based on a prescribed formula. This category of funds can provide 80% of the cost to complete transportation improvement projects. These funds are flexible, and can be used for planning design, land acquisition, and construction of highway improvement projects, the capital costs of transit system development, and up to two years of operating assistance for transit system development.

Traffic Analysis Zones (TAZ) – A traffic analysis zone is the unit of geography most commonly used in conventional transportation planning models. The size of a zone varies and will vary significantly between the rural and urban areas. Zones are constructed by census block information. Typically, these blocks are used in transportation models by providing socio-economic data. This information helps to further the understanding of trips that are produced and attracted within the zone.

APPENDIX C

Performance Measures – FAST Act

Transportation performance measures data/information about the condition, use and impact of the system. The performance measures (or indicators) to track progress toward established goals.

US DOT has established performance measures and state DOTS will develop performance targets in consultation with MPOs and others. The law allows the state DOT to develop performance targets for rural and urban areas. The targets must be established in coordination with MPOs and public transit operators in areas not represented by MPOs. Seven (7) areas in which performance measures will be developed:

1. Safety – to achieve reduction in facilities and serious injuries on all public roads.
2. Infrastructure Condition – to maintain highway infrastructure assets in state of good repair.
3. Congestion Reduction – to achieve reduction in congestion on the National Highway System.
4. System Reliability – performance on the Interstate/Non-Interstate system.
5. Freight Movement – freight movement on the Interstate and
6. Economic Vitality – Environment Sustainability to enhance the performance of the transportation system while protecting and enhancing the environment
7. Reduced Project Delivery Delays – to reduce project costs, promote jobs and the economy and expedite the movement of people and goods by accelerating project completion through eliminating delays in the project development and delivery process, including reducing regulatory burdens and improving agencies work practices.

As a fundamental element of a performance management framework, states, MPOs and providers of public transportation will need to establish targets in key national performance areas to document expectations for future performance. The statewide and metropolitan transportation planning processes shall provide for the use of a performance-based approach to transportation decision-making to support the national goals.

Appendix D

Functional Classification and Level of Service

Functional Classification

Functional classification is the grouping of roads, streets, and highways into integrated systems ranked by their importance to the general welfare, motorist and land-use structure. It is used to define the role that any particular road should play in providing mobility for through movements and access adjoining land. This grouping acknowledges that roads have different levels of importance and provides a basis for comparing roads fairly.

Historically, one of the most important uses of functional classification of streets has been to identify streets and roads that are eligible for federal funds. The original Federal-aid Primary, Federal-aid Secondary, Federal-aid Urban, and National Interstate systems all relied on functional classification to select eligible routes. In 1991, the Intermodal Surface Transportation Efficiency Act (ISTEA) eliminated the Primary, Secondary, and Urban Federal-aid systems and created the National Highway System (NHS). ISTEA continued the requirement that a street, road, or highway had to be classified higher than a “Local” in urban areas and higher than a “Local” and “Minor Collector” in rural areas before federal funds could be spent on it. The selection of routes eligible for NHS funding was also based on functional criteria. While eligibility for federal funding continues to be an important use for functional classification, it has also become an effective management tool in other areas of transportation planning.

Streets are grouped into functional classes according to the character of service they are intended to provide. Oklahoma’s Functional Classification system undergoes a comprehensive review after each decennial U.S. Census. The list below helps depict the hierarchy of the roadway system. As the figure indicates, local streets provide the most access to the adjacent properties, but function poorly in terms of mobility. Freeways exhibit high mobility because of speeds and volumes, serve poorly as access to adjacent roads and properties. Streets that carry higher volumes of traffic should have a limited number of “curb cuts” (driveway openings, few intersections) so traffic movement will not be impeded. While eligibility for federal funding continues to be an important use for functional classification, it has also become an effective management tool in other areas of transportation planning.

The functional classification of streets is shown in Map 2.7 and includes the following functional classes: Interstate, Freeway, Rural Principal Arterial, Rural Minor Arterial, Rural Major Collector and Rural Minor Collector. Rural roads consist of those facilities that are outside of small urban and urbanized areas. The functional classification of streets is shown on Map 2.7 and includes the following functional classes: Interstate, Freeway, Rural Principal Arterial, Rural Minor Arterial, Rural Major Collector and Rural Minor Collector.

Rural Principal Arterial – A rural principal arterial road includes the following service characteristics:

- Traffic movements with trip length and density suitable for substantial statewide travel
- Traffic movements between urban areas with populations over 25,000
- Traffic movements at high speeds
- Divided four-lane roads
- Desired LOS C

Rural Minor Arterial – A rural minor arterial road includes the following service characteristics:

- Traffic movements with trip length and density suitable for integrated interstate or intercountry service
- Traffic movements between urban areas or other traffic generators with populations less than 25,000
- Traffic movements at high speeds
- Undivided four-lane roads
- Striped for one or two lanes in each direction with auxiliary lanes at intersections as required by traffic volumes
- Desired LOS C

Rural Major Collector - A rural major collector road includes the following service characteristics:

- Traffic movements with trip length and density suitable for inter-county service
- Traffic movements between traffic generators, between traffic generators and larger cities, and between traffic generators and routes of a higher classification
- Traffic movements subject to a low level of side friction
- Development may front directly on the road
- Controlled intersection spacing of 2 miles or greater
- Striped for one lane in each direction with a continuous left turn lane
- Desired LOS C

Rural Minor Collector - A rural minor collector road includes the following service characteristics:

- Traffic movements between local roads and collector roads
- Traffic movements between smaller communities and developed areas
- Traffic movements between locally important traffic generators within their remote regions
- Two-lane undivided roads with intersections at grade, and designed to take a minimum interference of traffic from driveways appropriate to a rural setting
- Striped for one lane in each direction
- Desired LOS B

Rural Local Road - A rural local road includes the following service characteristics:

- Two-lane undivided roads with intersections at grade
- Traffic movements between collectors and adjacent lands
- Traffic movements involving relatively short distances
- Desired LOS A

Other classifications of roadways include:

1. The National Highway System represents 4% to 5% of the total public road mileage in the US. This System was designed to contain the following subcategories:
 - a. Interstate - The current Interstate System retained its separate identity within the NHS along with specific provisions to add mileage to the existing Interstate subsystem.
 - b. Other Principal Arterials - These routes include highways in rural and urban areas which provide access between an arterial route and a major port, airport, public transportation facility or other intermodal transportation facility.
 - c. Intermodal Connecting Links - These are highways that connect NHS routes to major ports, airport, international border crossings, public transportation and

transit facilities, interstate bus terminals and rail and intermodal transportation facilities.

2. The Strategic Highway Network (STRAHNET). This system includes the Dwight D. Eisenhower system of Interstate and Defense Highways, identified as strategically important to the defense of the United States.
3. The National and Scenic Byways recognizes highways that are outstanding examples of our nation's beauty, culture, and recreational experience in exemplifying the diverse regional characteristics of our nation.

Level of Service

Level of service (LOS) is a quality measure describing operational conditions within a traffic stream, generally in terms of such service measures as speed and travel time, freedom to maneuver, traffic interruptions, and comfort and convenience. Street Capacity is the measure of a street's ability to accommodate the traffic volume along the street. Level-of-service range from LOS A, which indicates good operating conditions with little or no delay, to LOS F, which indicates extreme congestion and long vehicle delays.

The following is a list of the various LOS with abbreviated definitions from the Highway Capacity Manual.

- LOS A describes a condition with low traffic volumes with little or no delays. There is little or no restriction in maneuverability due to the presence of other vehicles. Drivers can maintain their desired speeds and can proceed through signals without having to wait unnecessarily. Operating capacity can be measured as less than 30% of capacity.
- LOS B describes a condition with stable traffic flow with a high degree of choice to select speed and operating conditions, but with some influence from other drivers. Operating capacity can be measured as less than 50% of capacity.
- LOS C describes the beginning of the range of flow in which the operation of individual users becomes significantly affected by interactions with others in the traffic stream. LOS C is normally utilized as a measure of "average conditions" for design of facilities in suburban and urban locations. Operating capacity can be measured as less than 69% of capacity.
- LOS D describes high density flow in which speed and freedom to maneuver is severely restricted even though flow remains stable. LOS D is considered acceptable during short periods of time and is often used in large urban areas. Operating capacity can be measured as less than 70% to 90% of capacity.
- LOS E describes operating conditions at or near capacity. Operations at this level are usually unstable, because small increases in flow or minor disturbances within the traffic stream will cause breakdowns. Operating capacity can be measured as between 90% to 99% of capacity.
- LOS F is used to define forced or breakdown flow. This condition exists whenever the amount of traffic approaching a point exceeds the amount that can be served. LOS F is characterized by demand volumes greater than the roadway capacity. Under these conditions, motorists seek other routes in order to bypass congestion, thus impacting adjacent streets. Operating capacity can be measured above 100% of capacity.

Future increases in traffic volume can be traced to population growth and land use development patterns. Capacity and LOS can also be diminished by increasing the number of access points and median cuts on the road network.

Appendix E - Stakeholder Survey Summary

Disclaimer – All comments on stakeholder surveys are included as written and do not reflect the beliefs of the NORTPO technical committee, NORTPO policy board, NODA board of trustees, nor NODA staff.

Garfield County Stakeholder Survey

1. In which City/County do you reside? Breckinridge, Covington, Douglas (1); Enid (22); Fairmont (3); Garber, Hunter, Kremlin, Lahoma (1); Waukomis (2) / Canadian (1); Garfield (31)
2. In which City/County do you work? Enid (24); Fairmont, Garber, Hillsdale, Hunter (1) / Alfalfa, Blaine, Canadian, Grant, Kay, Logan, Noble, Woods (1); Garfield (21); Statewide (3); AR, LA, TX (1) or attend school? Stillwater (1) / Garfield (1)
3. How many days per week do you travel to work? 7 (4) 6 (9) 5 (32) 4 (2) 3 (1) 2 (1) to school? 5 (2)
4. What type of transportation do you use most often to go to work/school? (Circle one)
Drive (alone) (41) Carpool (1) Bus (2) Motorcycle (1) Bicycle/Walk (1) Other (please specify)
5. How many miles do you travel (round trip) for work and/or school? (Circle one)
Less than 1 mile (1) 2-5 miles (11) 6-10 miles (10) 11-20 miles (10)
21-30 miles (2) 31-50 miles (4) 50 miles + (5) Other 500 – 800+ (1)
6. How much time does it usually take to travel to and from work? (Circle one)
Less than 10 minutes (8) 11-15 minutes (16) 16-30 minutes (12)
31-45 minutes (2) 46-60 minutes (1) 61 minutes + (5)
7. How much time does it usually take to travel to and from school? (Circle one)
Less than 10 minutes (3) 11-15 minutes (5) 16-30 minutes (1)
31-45 minutes (1) 46-60 minutes (1) 61 minutes + (1)
8. How many total miles do you travel for other trips per day? (Circle your response)
Less than 1 mile (2) 2-5 miles (7) 6-10 miles (9)
11-20 miles (3) 21-30 miles (8) 31-50 miles (1) 50 miles + (8)
9. What are your usual methods of transportation for other trips such as shopping, appointments, entertainment?

| | Every Day | 3-4 Times a Week | 1-2 Times a Week | 1-2 Times a Month | Never |
|---------------------------------------|-----------|------------------|------------------|-------------------|-------|
| Car (alone or with household members) | 24 | 3 | 5 | | |
| Carpool with others | | 4 | 4 | 4 | 6 |
| Bus/Public Transportation | | | | | 12 |
| Motorcycle | | | 5 | 4 | 10 |
| Bicycle/Walk | | 1 | 4 | | 7 |
| Other - Please list. | | | | | |

10. So that we can ensure this survey has reached a variety of individuals in the community, please provide the information below (Circle your response):

Your Age Group: 18-24 (3) 25-34 (4) 35-44 (13) 45-54 (9) 55-65 (8) 66-74 (5) 75+ ()

Gender: Male (27) Female (13)

Household Income: Under \$35,000 (2) \$35,000 to \$50,000 (5) \$50,001 - \$75,000 (7) \$75,001+ (21)

American Indian/Alaska Native () Asian (1) Black or African American () Hispanic () Native Hawaiian or other Pacific Islander (1) White (34) Other _____

11. Please indicate how important each of the transportation system components is to you.

| | Not Important | Somewhat Important | Important | Very Important |
|--|---------------|--------------------|-----------|----------------|
| Improve Technology of Signals | 2 | 9 | 14 | 11 |
| Intersection Improvements | 2 | 2 | 15 | 19 |
| Pedestrian Facilities/Sidewalks | 5 | 8 | 9 | 16 |
| Maintenance Improvements | | 2 | 10 | 27 |
| Bicycle Lanes | 10 | 12 | 8 | 7 |
| Public Transportation | 6 | 13 | 11 | 6 |
| Availability of Passenger Rail Service | 23 | 8 | 1 | 4 |
| Connection to State or US Highways | 3 | 9 | 11 | 14 |
| Maintenance of Bridges | | 4 | 9 | 25 |
| Protecting the environment | 1 | 11 | 14 | 11 |
| Improving access to freight rail service | 12 | 13 | 6 | 5 |
| Providing a smooth driving surface | | 1 | 7 | 29 |
| Improve existing roadways | | 1 | 9 | 31 |
| Add shoulders on State or US Highways | | 3 | 16 | 18 |
| Improve signs along existing roadways | 1 | 13 | 11 | 12 |

12. Which do you think should be a priority when selecting transportation projects?

| | Not Important | Somewhat Important | Important | Very Important |
|--------------------------------------|---------------|--------------------|-----------|----------------|
| Supports Economic Development | | 7 | 16 | 16 |
| Improves Safety | | | 10 | 28 |
| Reduces Congestion | 1 | 2 | 13 | 21 |
| Bicycle Lanes or Facilities | 9 | 11 | 11 | 6 |
| Improve Pedestrian walkways | 4 | 12 | 10 | 11 |
| Improves Travel Choices | 3 | 12 | 17 | 5 |
| Reduces Energy Consumption/Pollution | 3 | 24 | 13 | 5 |
| Improves freight movement | 1 | 13 | 16 | 8 |
| Other (specify) | 2 | 1 | | |

13. In your community are there challenges to accessing the transportation system? (Circle one)

Yes (18) No (9)

Please describe access limitations: not enough of the public transportation; Safe pedestrian access to community services; Larger need than access. Financial struggles; Lack of resources to improve commute. Lack of emphasis on pedestrian traffic; We need more options for hospital discharged patients. Non-emergent w/c vans; Our roadways haven't grown at the same rate as our community; Walkways; Bridges underrated, Construction in multiple places throughout state; Numerous road construction projects on main roads/highways @ same time; No public transportation, Horrible sidewalks; Very few crosswalks + bike lanes at major roadways; availability, ease of access, funds; Limited opportunities for pedestrian bicycle commuting; Rail road crossing at 114th + Southgate is in bad need of repair; into city transport; too many improvements at one time;

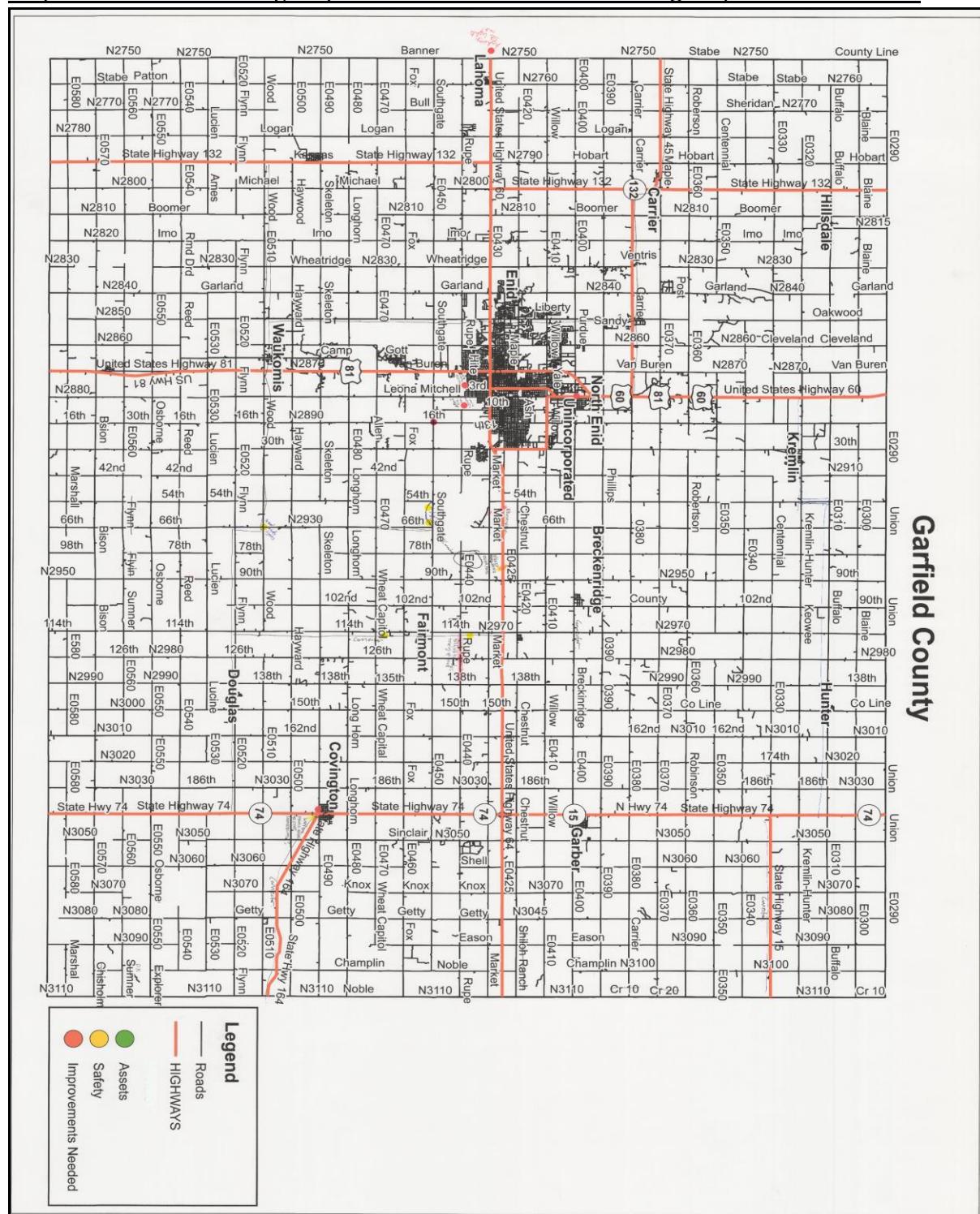
14. What are some specific locations with traffic problems that you encounter through the day?

100 N 8th, 9th & Pine intersection bad roads; E. Oak from 2nd to 3rd, 3rd St. North to Walnut & Randolph from downtown to Johnson; dedicated right turn lanes; main thorough way; pot holes on roads; pot holes!!; RR crossing on willow; US 81 through Enid; 30th St. needs improved for heavy truck traffic, Randolph St. needs houses removed between different traffic directions; Rural roads outside city limits; Van Buren & Garriott Intersection; Railroad tracks blocked by trains; Southgate from 114th to Van Buren; N Hwy 81 from Hwy 45 North to Grant County line Holds water, uneven, poor patch work, Congestion at 81 and Keowee; terrible roads & bridges; Hwy 81, Chestnut; County dirt roads; Hayward/US 81 – very dangerous due to Dollar General traffic merging onto US 81; Walgreens & Integris Hospital Emergency Entrance > No left turn from Van Buren to go to Walgreens and had to jog in emergency entrance to go to Walgreens; Railroads, Southgate, Van Buren by Walgreens; Van Buren needs pedestrian access for important DHS, Health Dept., Medical & Business services; Congestion on West Randolph; W. Owen K Garriott becomes very congested between Van Buren and Garland, Southgate at Van Buren does not seem a fit for large trucks, Often cars need to back up; South side of Covington, flooding; Garriott during rush hour times, Willow during am traffic; RR crossing @ 412 and Grand Ave. and 30th St., 412/81 the only 2 main thoroughfares – for a community to grow – transportation must accommodate it;

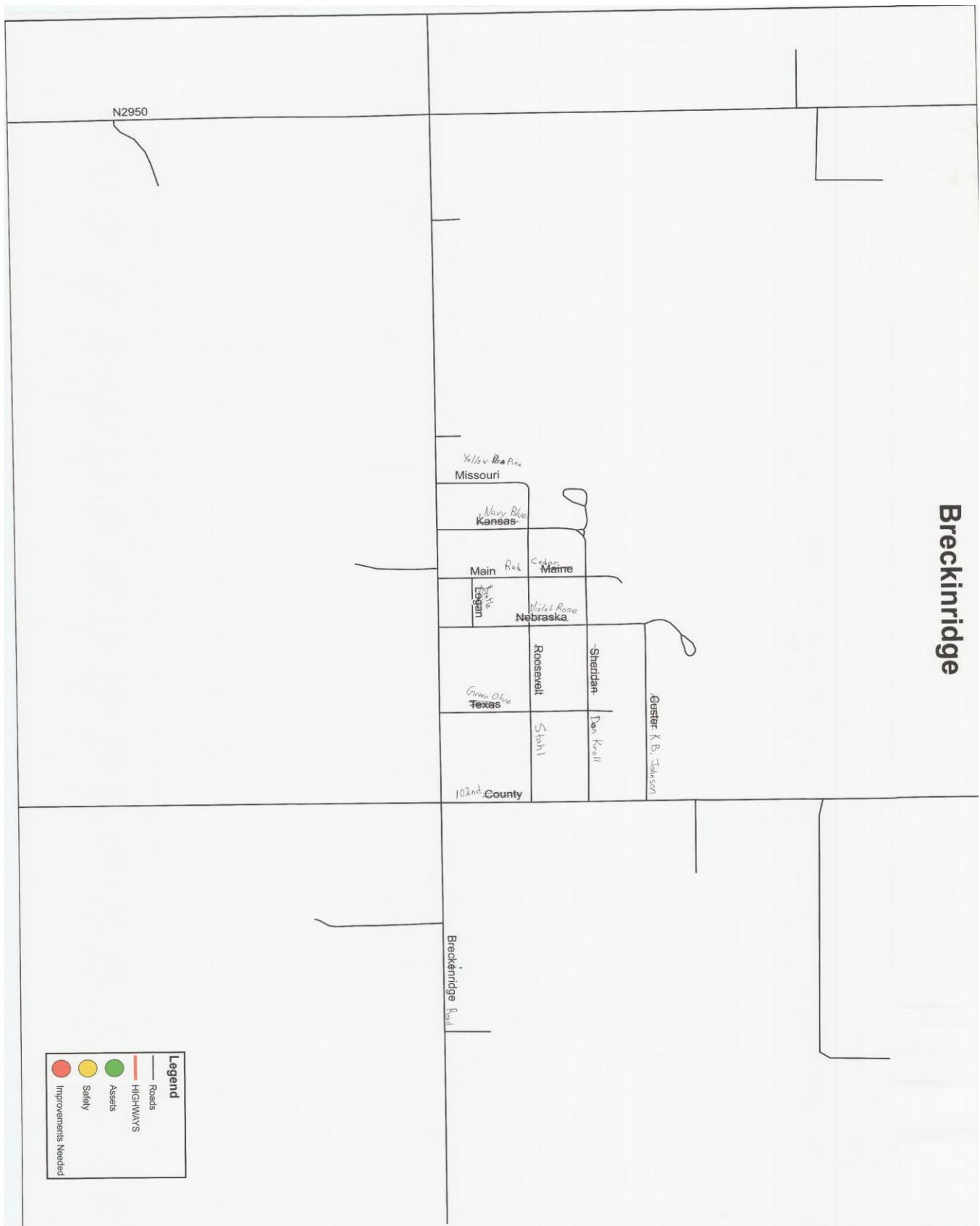
15. Please provide additional comments regarding transportation improvement needs:

We also need a sidewalk on 81 north from Walgreen to public health; Obesity rate of 46%, We must have more pedestrian access for those w/out cars; potholes throughout Enid, on neighborhood roads, several throughout the city they cause damage to cars; there should NEVER EVER be railroad crossings on a state HW, they should be diverted over/under the highway! Ie east of Enid; Many Rural Roads are not Paved or graveled which makes all weather travel Difficult; Wet conditions are extremely bad on N Hwy 81; Put Shale on dirt Roads and Keep Rock Roads in Better Shape By Adding Rock; Paved county roads are horrible, county commissioner sucks, Waukomis city streets need improved, would be nice to have sidewalk or walking trail; Much better improvements to road surfaces, That means the pencil pushing inspectors need to ride in a semi/vehicle pulling a trailer & see how terrible our roads are; safety, ride, economic development; Turn lanes and Sidewalks and crosswalks are needed near Chisholm High School, Willow St. near Prairie View School needs widened or center turn lane added; Congestion West Garriott – To many signals!!!; more lanes, less potholes!, public transportation, sidewalks, more lanes, less pot holes!!;

Map D.1 - Garfield County, City and Towns Stakeholder Meeting Maps with Comments

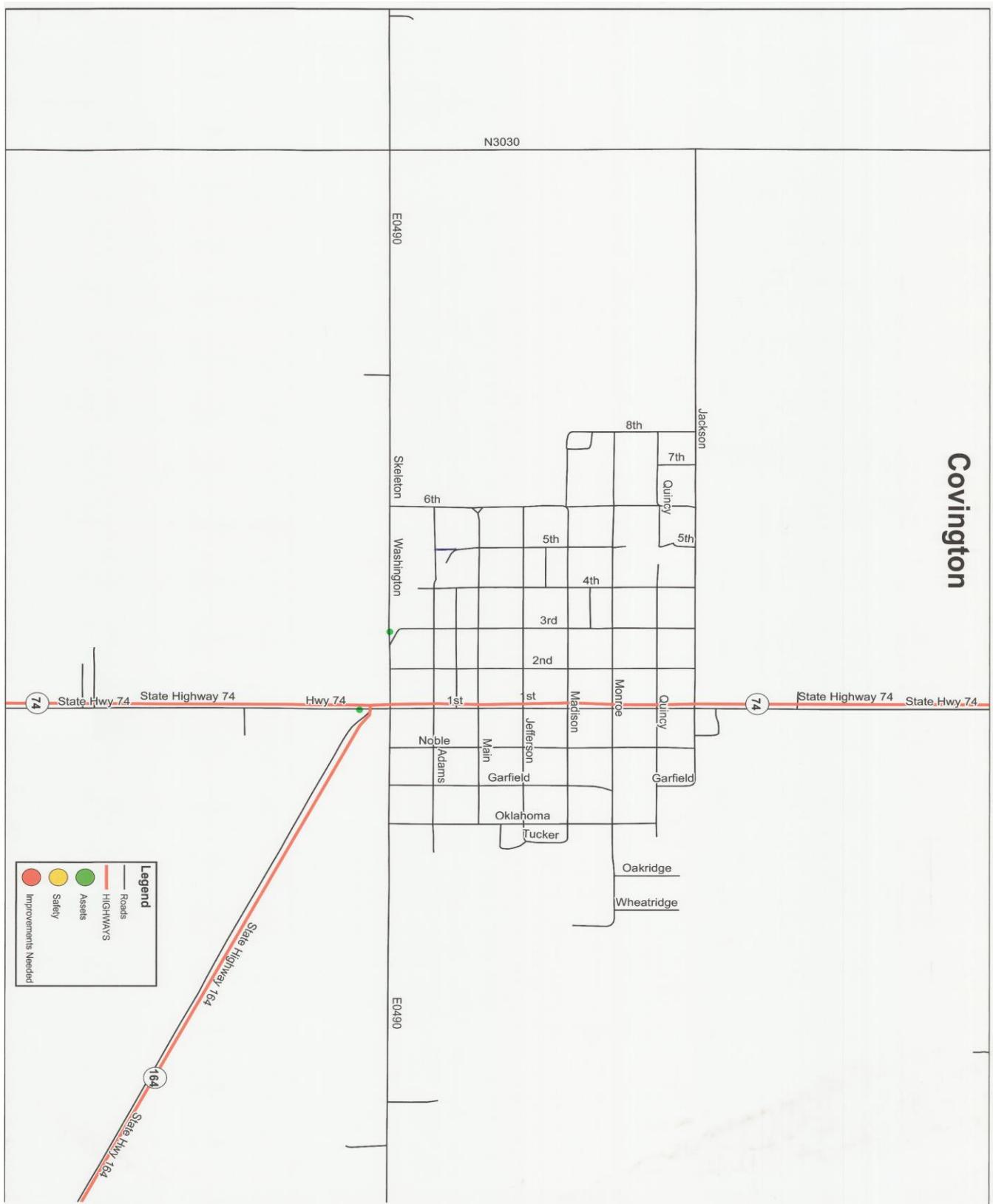


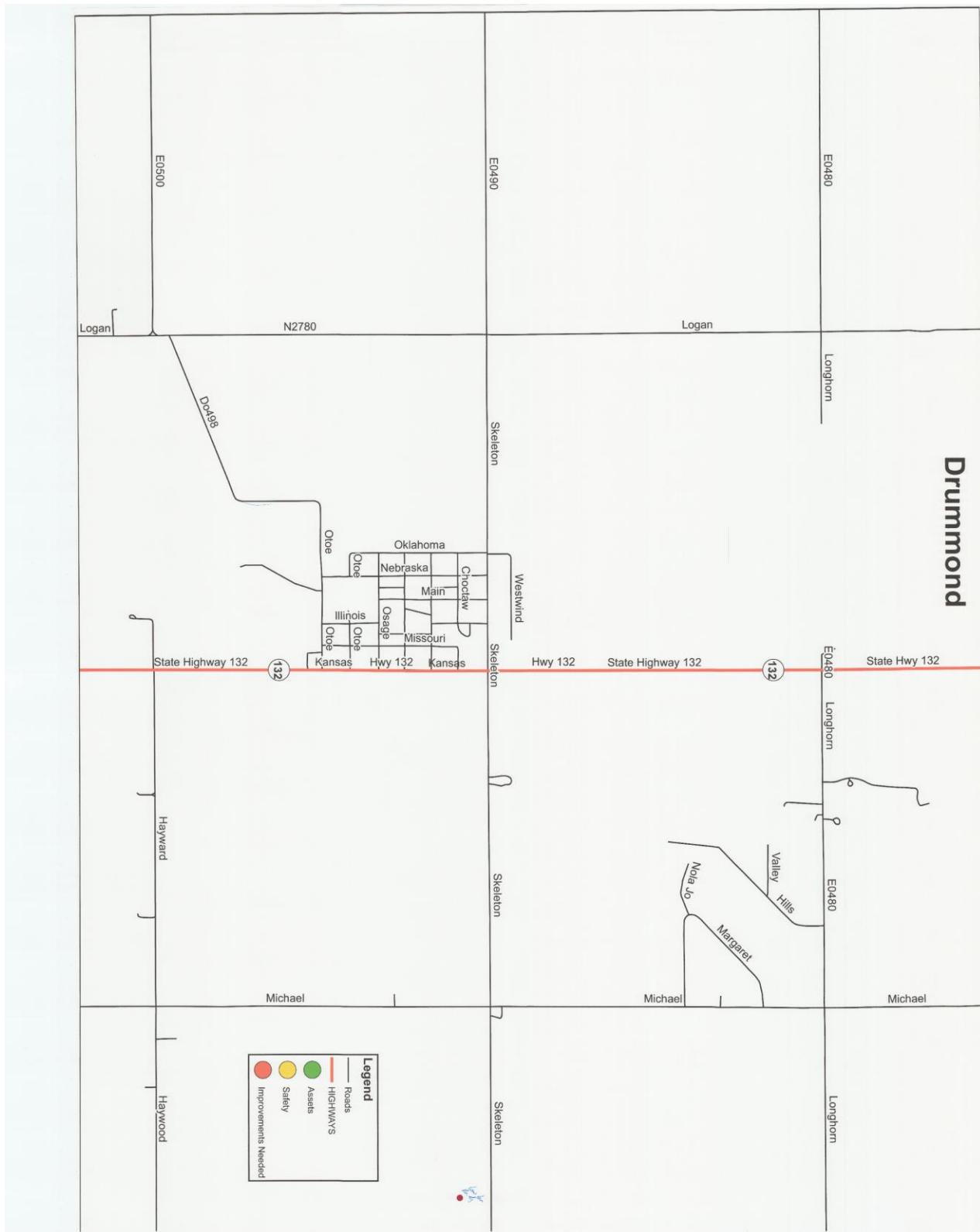
Breckinridge



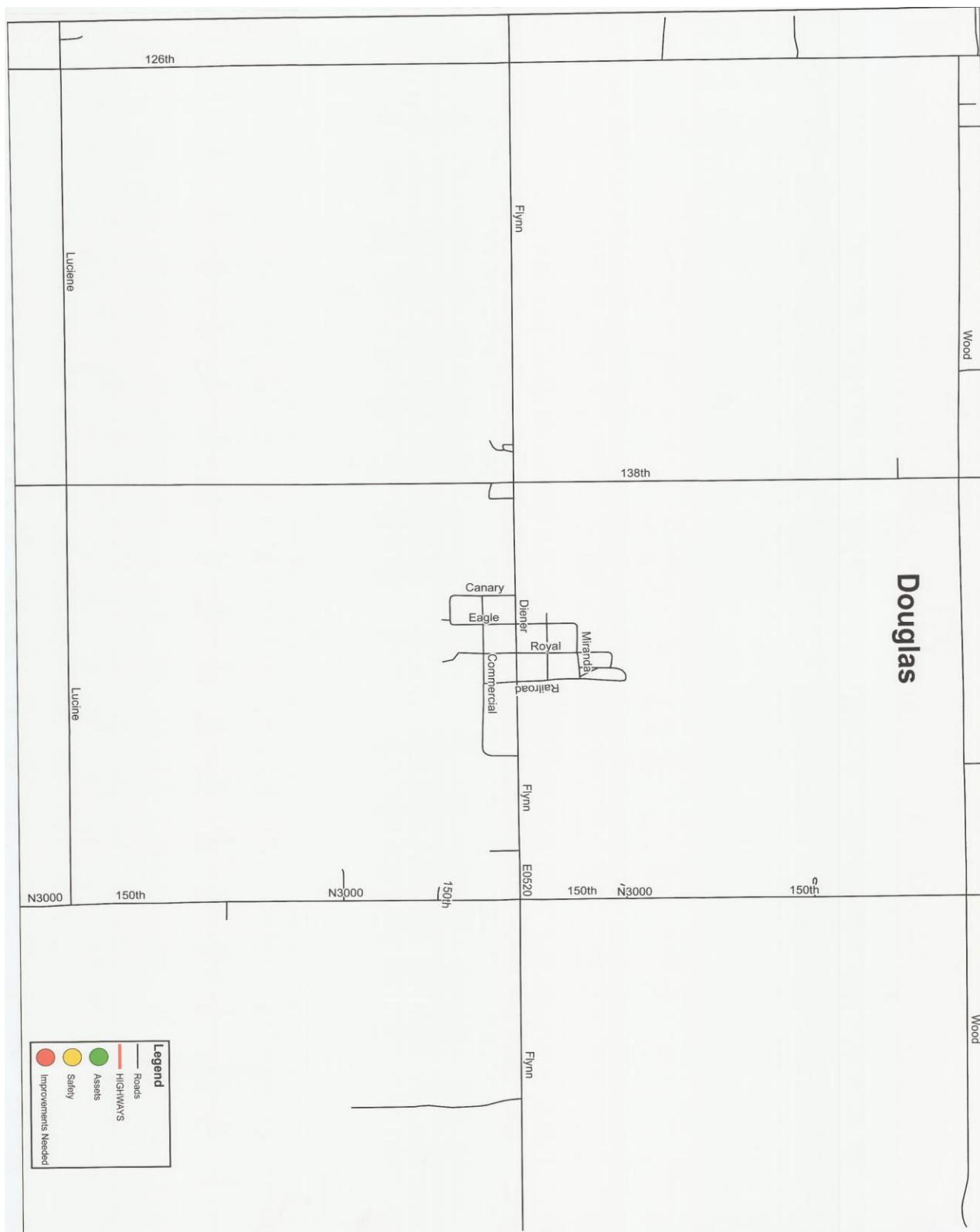
Garfield County 2039 Long Range Transportation Plan



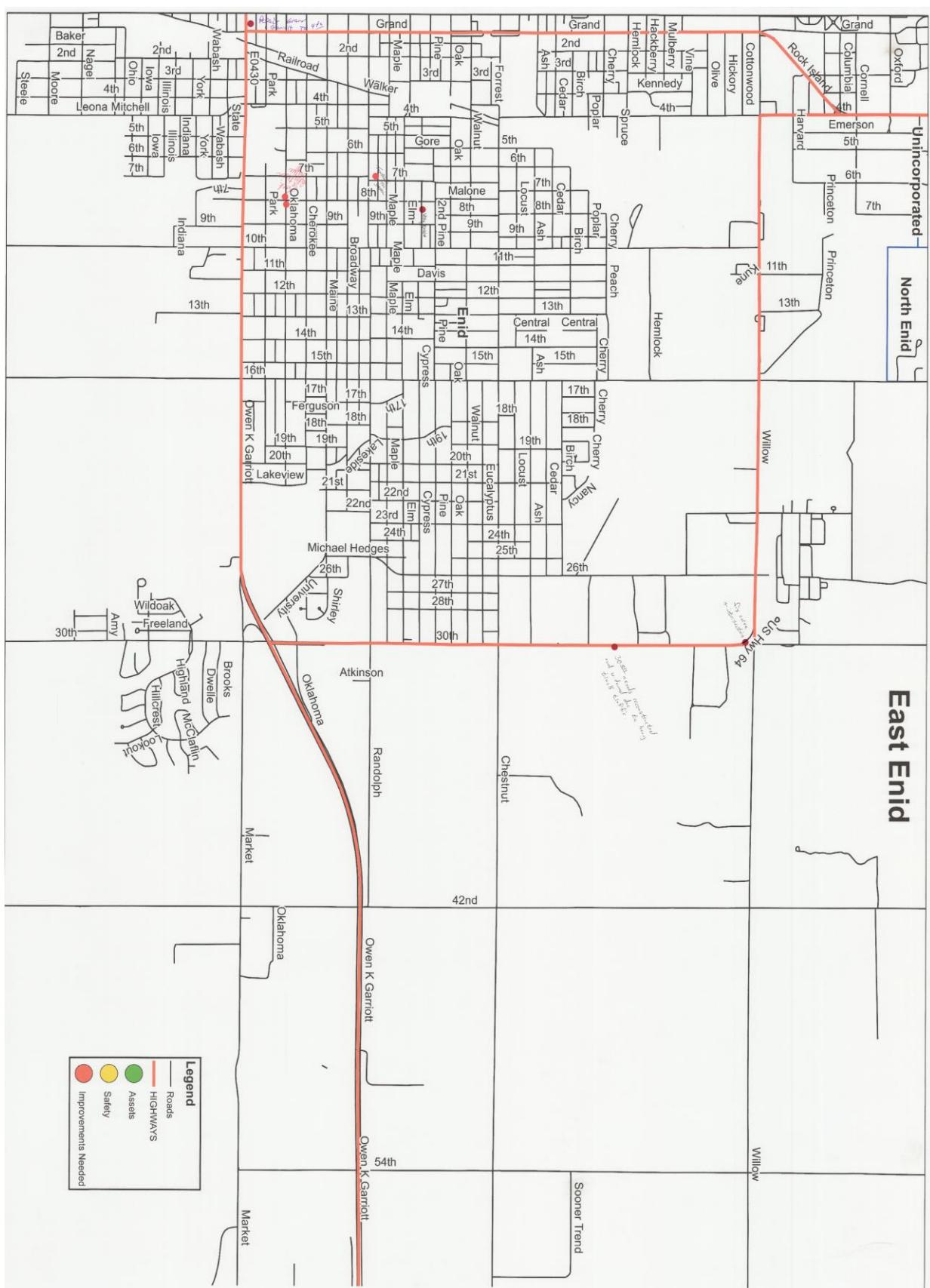


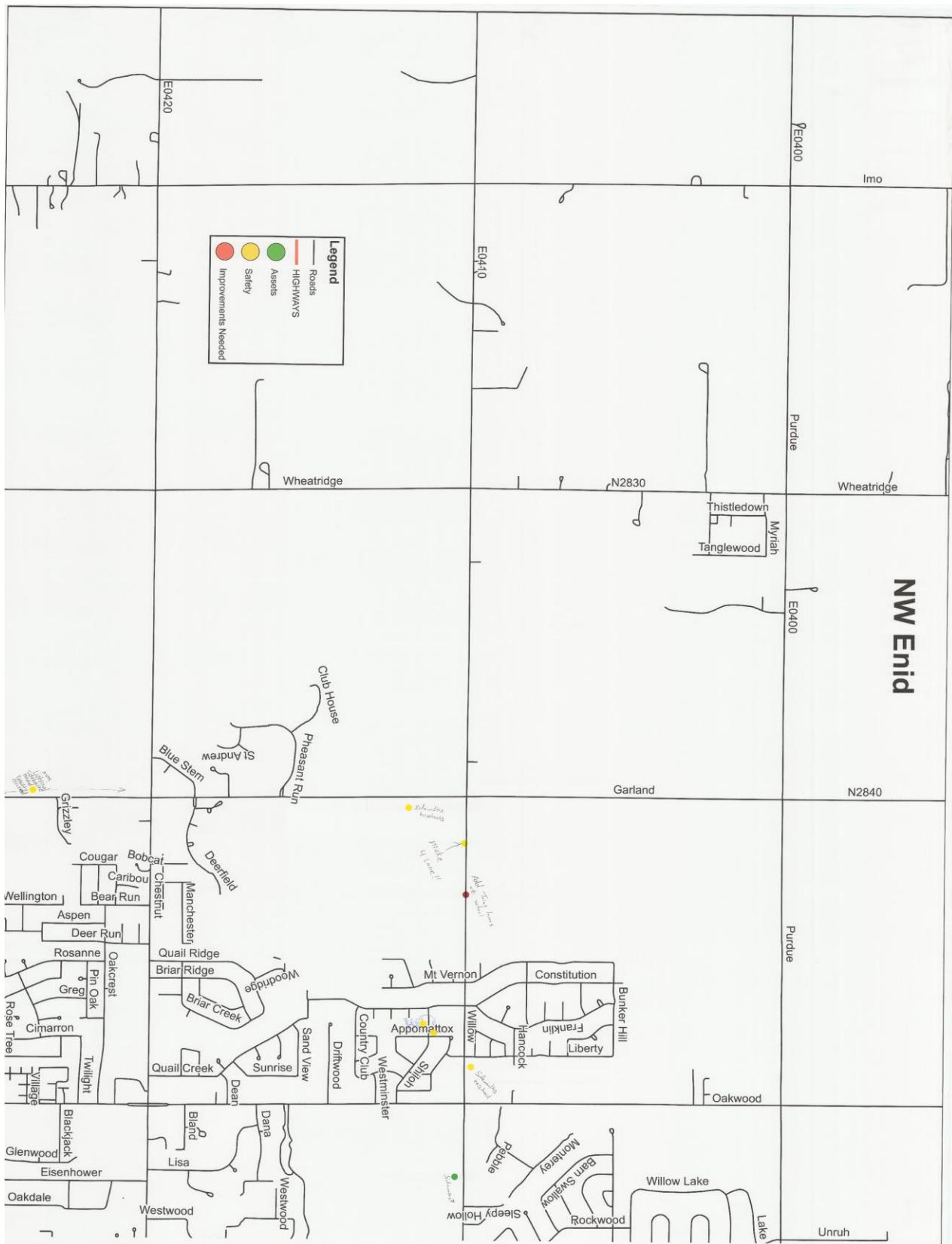


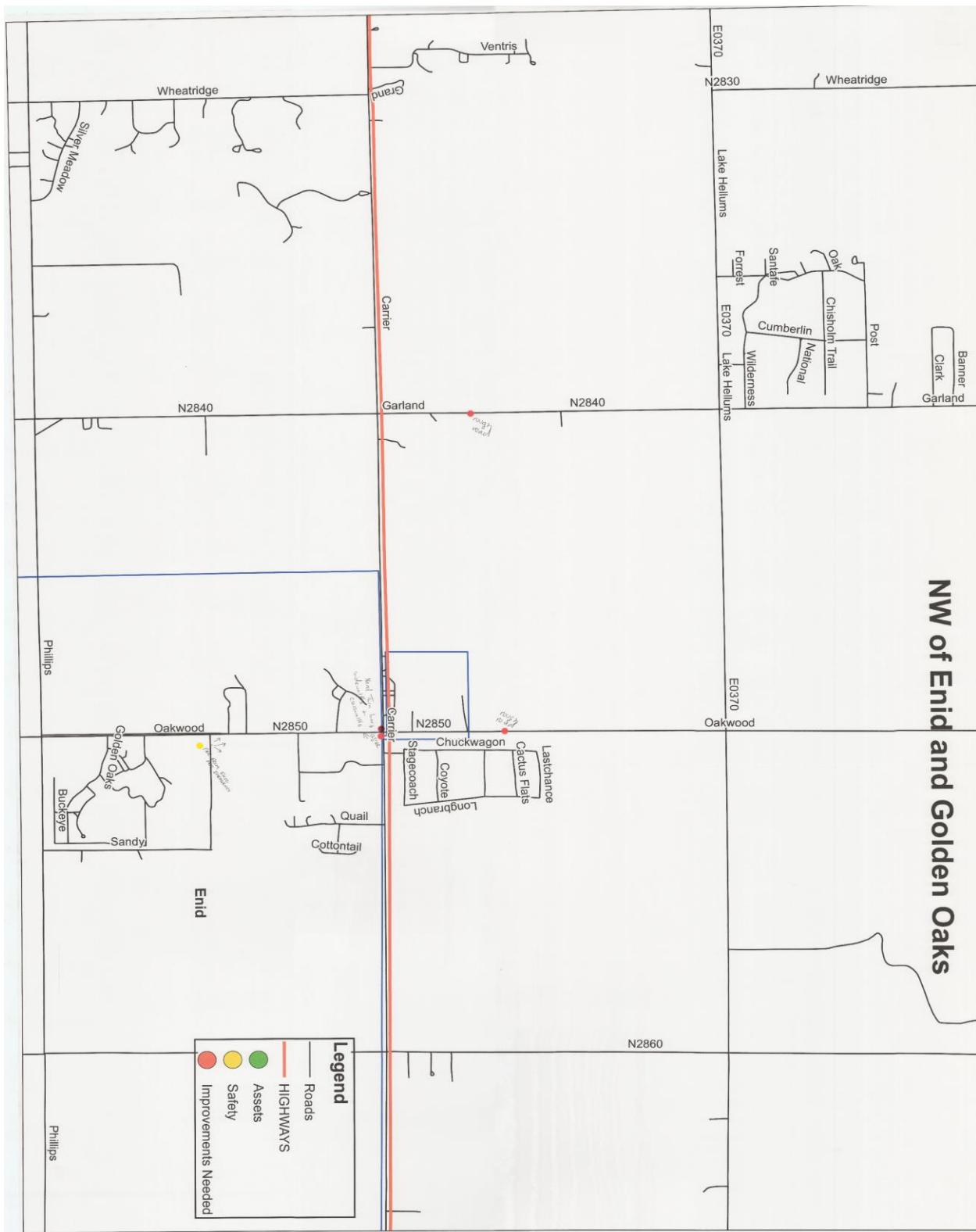
Garfield County 2039 Long Range Transportation Plan



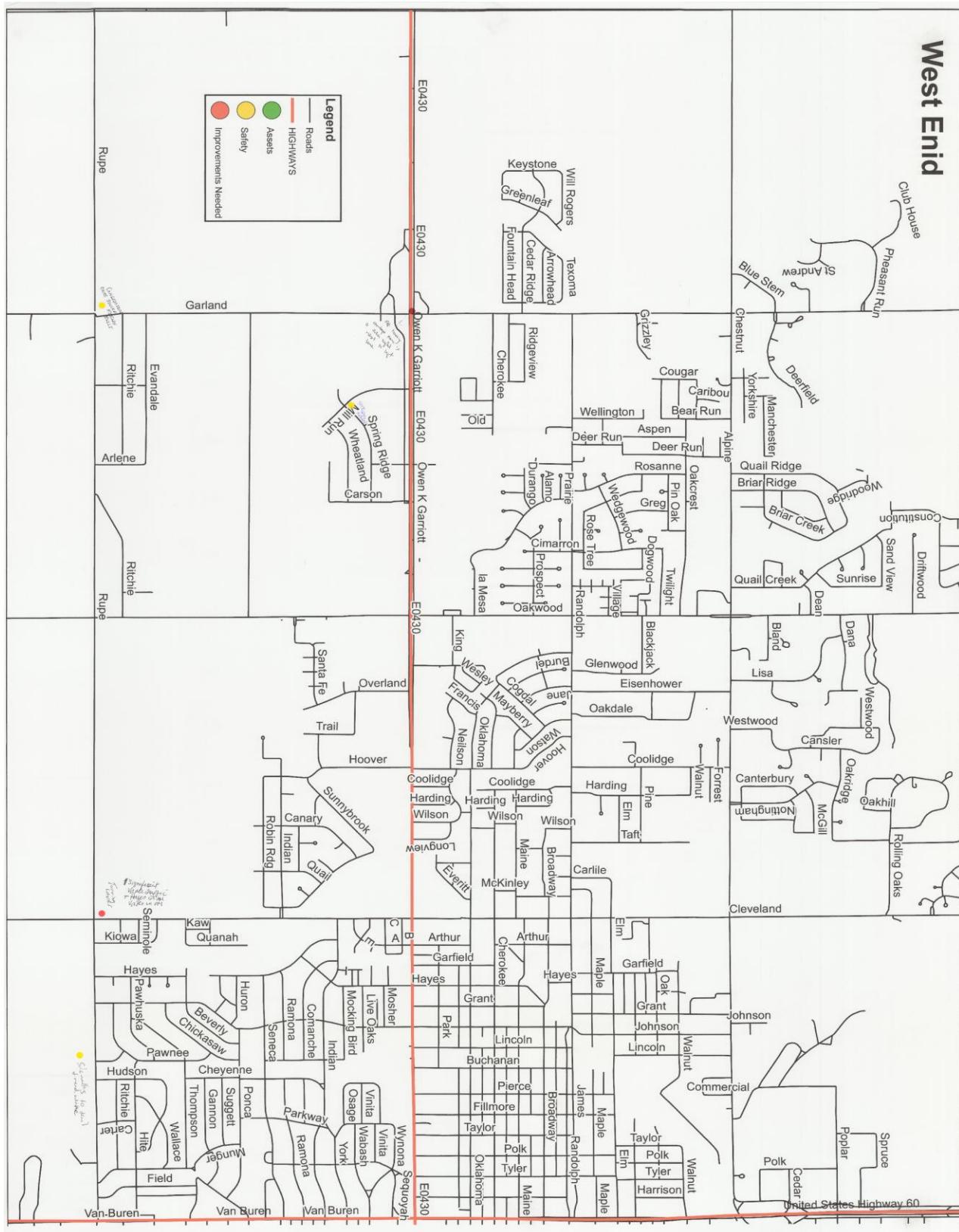
Garfield County 2039 Long Range Transportation Plan

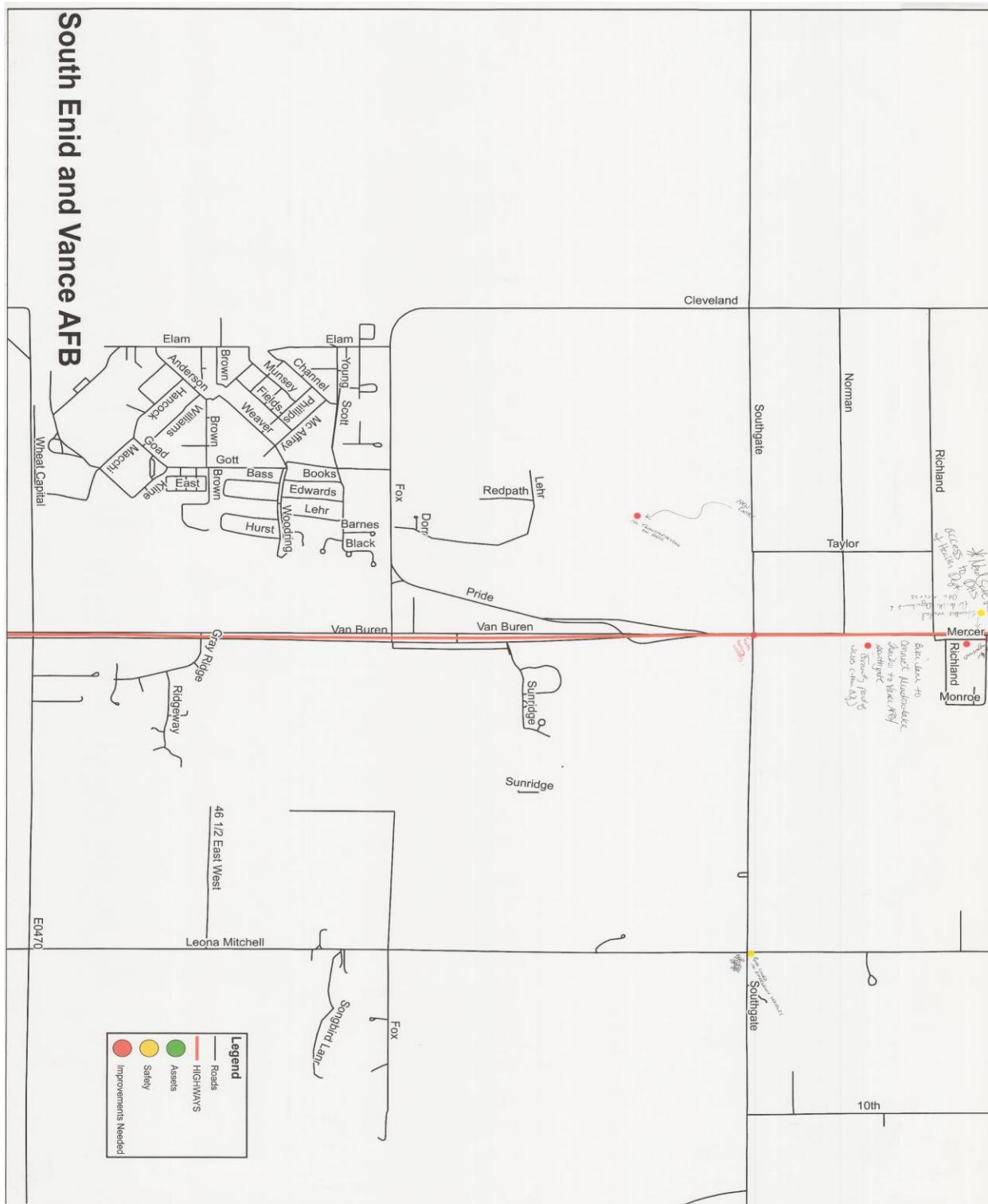




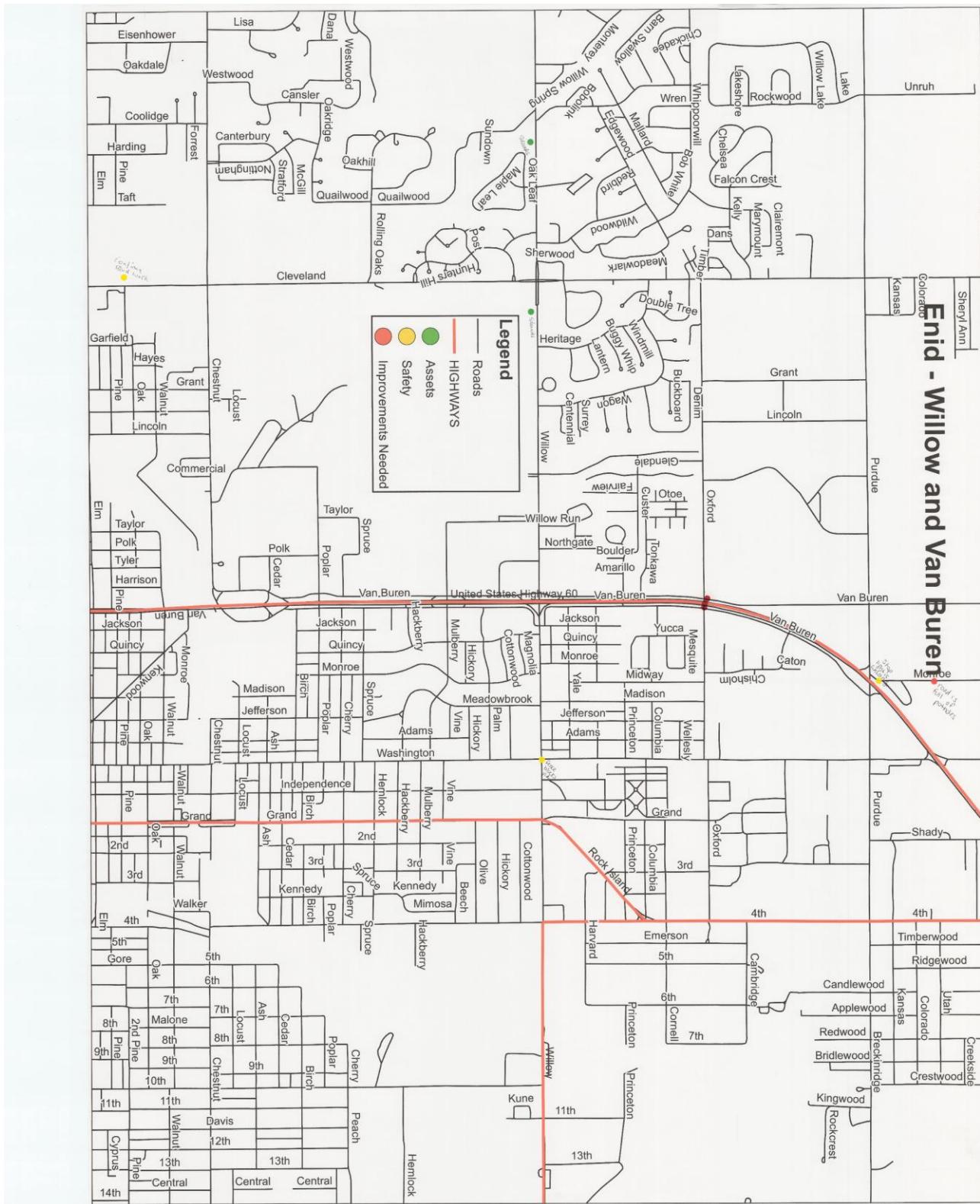


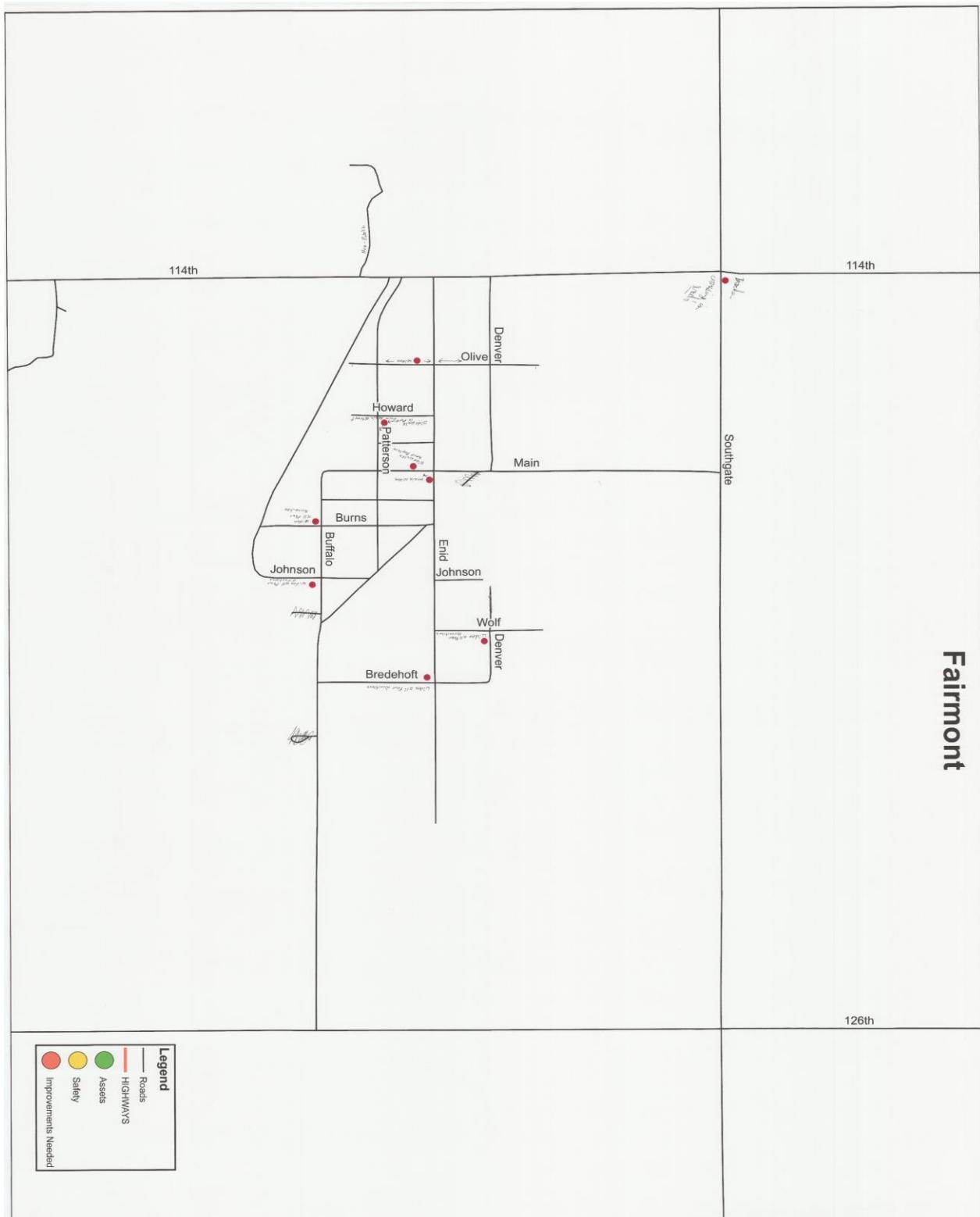
Garfield County 2039 Long Range Transportation Plan

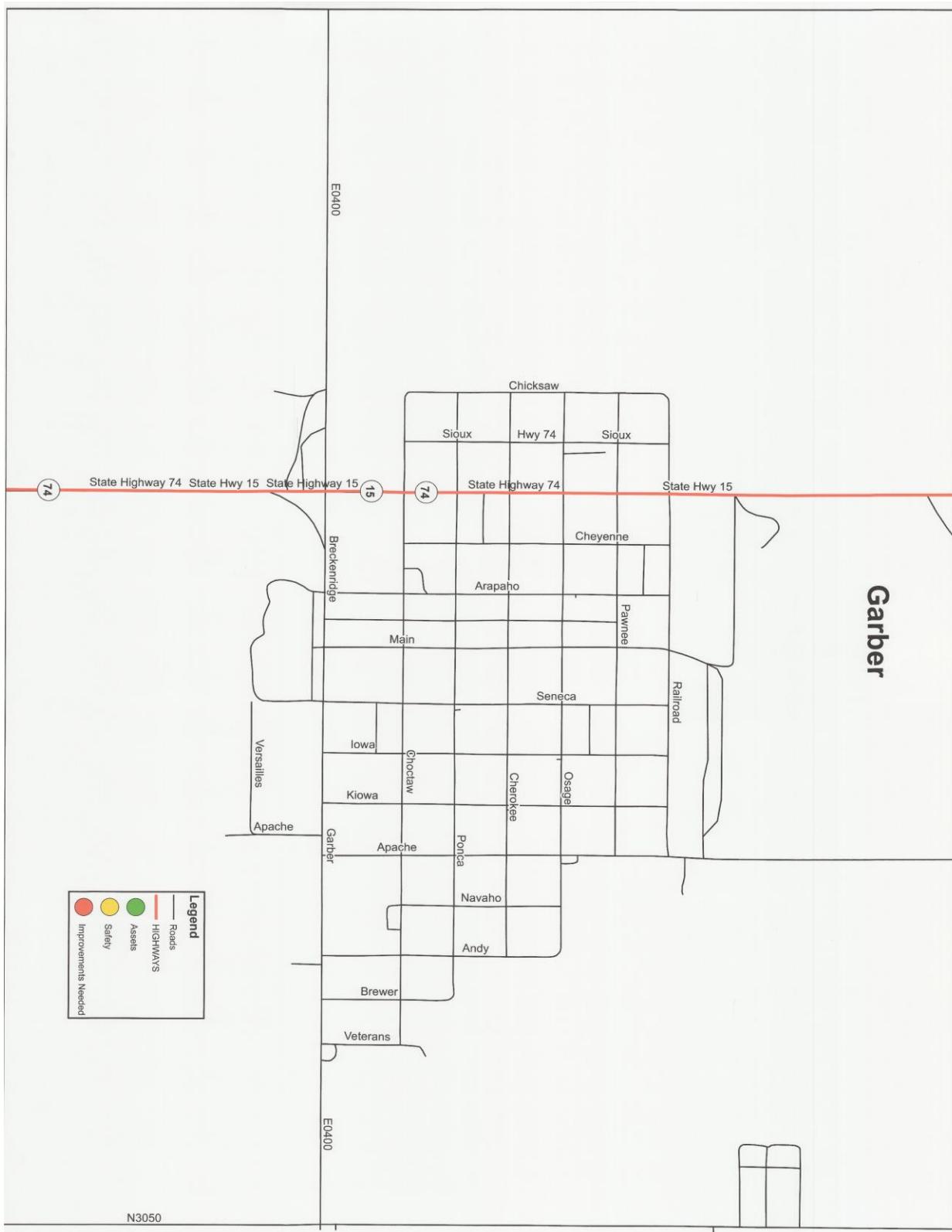




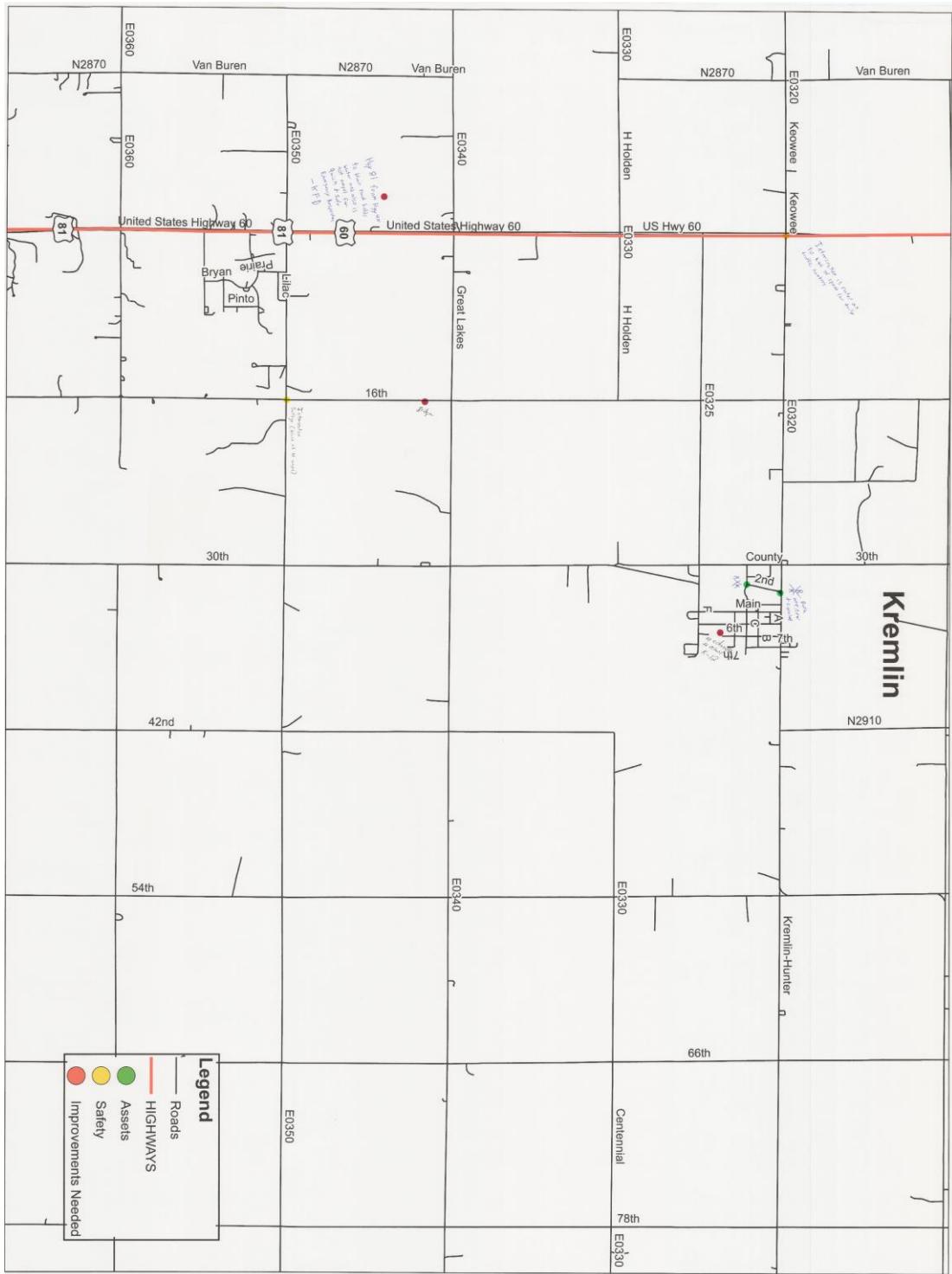
Garfield County 2039 Long Range Transportation Plan







Garfield County 2039 Long Range Transportation Plan



Garfield County 2039 Long Range Transportation Plan

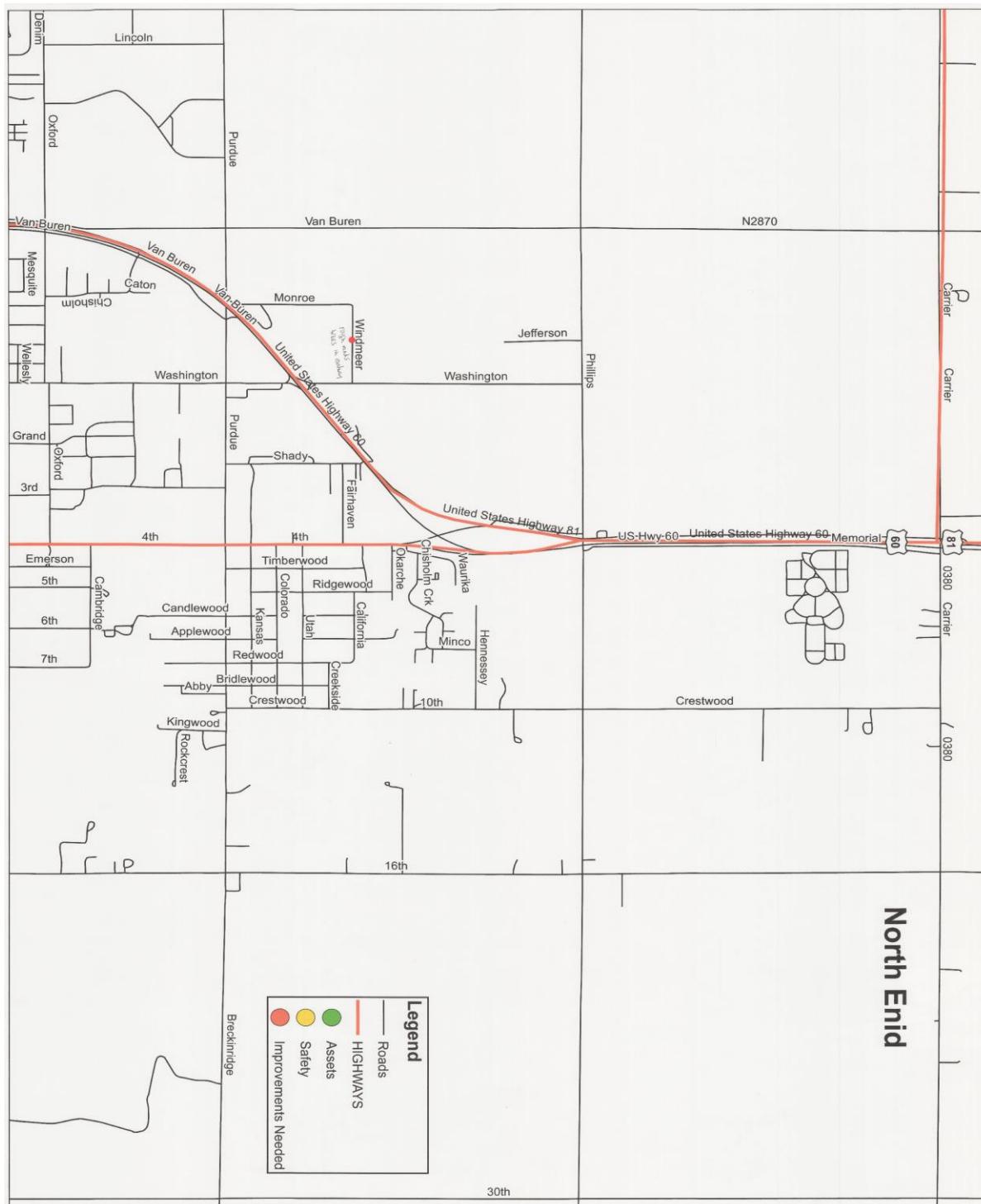


Table D.1 - Stakeholder Maps Safety Comments

| Covington | |
|---|--|
| <i>Location</i> | <i>Description</i> |
| E0490/SH64 | Why does northbound traffic have to stop |
| Drummond | |
| <i>Location</i> | <i>Description</i> |
| Skelton (east of Michael) | Low ton bridge |
| Enid | |
| <i>Location</i> | <i>Description</i> |
| 66th/Wood | School needs signals |
| US 60(Banner) | Highway lights out |
| 16th/Southgate | |
| 412 & Van Buren | |
| Van Buren/3rd St. | Need access |
| Purdue/US 60 | |
| Rupe (114th - 138th) | Oil field trucks |
| Cypress (8th - 9th) | Very rough |
| 7th (Maple - Randolph) | Ton to small |
| Grand (Owen K. Garriott - 4th) | Repair |
| Oklahoma/8th | Lack of pedestrian traffic |
| 30th (Chestnut/Willow) | Reconstruct and widen |
| US 64/Willow | Fix curve at intersection |
| Jonson/Randolph | Stop sign hard to see. Traffic backup |
| Randolph (Fillmore-Main) | Remove houses from middle of street |
| Randolph (Jackson - Adam) | Not wide enough |
| Johnson (Owen K. Garriott - Oklahoma) | Very rough |
| Cleveland (Oklahoma - Owen K. Garriott) | Railroad congestion |
| Kenwood/Maple | Signal not safe |
| Jefferson (Park-Cherokee) | Rough road |
| Independence (Park - Cherokee) | Lack of sidewalks. Bike lanes not well maintained. |
| Madison/Wabash/Monroe | Not pedestrian friendly |
| Van Buren/York | Flooding |
| Illinois/Monroe | Sidewalk! |
| Van Buren - High School | Need pedestrian access |
| E0410 (Garland - Mount Vernon) | Add turn lane at school |
| Mercer/Richland | |
| Mercer (Norman - north) | Need bike lanes to Meadowlake trails, Vance AFB, Southgate. This is currently part of JLUS |
| Southgate/Mercer | Truck turning width |
| Southgate (Cleveland - Mercer) | No transportation. Need ne entry to base |

| | |
|------------------------------|--|
| Oakwood (Carrier-E0370) | Rough road |
| Garland (Carrier E0370) | Rough road |
| Carrier/N2850 | Need turn lanes, sidewalks and crossings |
| Oklahoma/Garret | At turn there is a ditch right next to left lane |
| Cleveland/Rupe | Need turn lane on Cleveland. Significant traffic to Vance in AM/PM |
| Fairmont | |
| <i>Location</i> | <i>Description</i> |
| Southgate/114 | Truck crossing bad |
| Olive (Denver-Patterson) | Widen |
| Howard (Enid - Patterson) | Sidewalk in park to Main St. |
| Main (Patterson - Enid) | Sidewalks need repair |
| Main (Patterson - Enid) | Widen all directions |
| Wolf (Enid-Denver) | Widen all directions |
| Bredehoft/Enid | Widen all directions |
| Johnson/Buffalo | Widen all directions |
| Barns/Buffalo | Widen all directions |
| Hunter | |
| <i>Location</i> | <i>Description</i> |
| 150th (Cherokee - north) | Need reconstruction and wide to wind farm offices and warehouse |
| Kremlin | |
| <i>Location</i> | <i>Description</i> |
| 7th | No sidewalks to school k-12 |
| 16th (south of Great Lakes) | Bridge |
| US 81 (SH 45 to Blair) | holds water and not ample for quick and safe emergency response |
| Lahoma | |
| <i>Location</i> | <i>Description</i> |
| US 60/Main | Flashing lights needed for crossing 412 |
| North Enid | |
| <i>Location</i> | <i>Description</i> |
| Windmere (Monroe-Washington) | Rough road, trees in roadway. |
| Waukomis | |
| <i>Location</i> | <i>Description</i> |
| Van Buren/Hayward | Dangerous intersection |
| US 81/Euclid | Traffic Congestion |
| Main/Wood | Intersection improvement, fire station needs flashing lights |
| US 81 (south of Wood) | Flooding |
| Wood (Cleveland-Main) | Flashing school light |

Table D.2 - Stakeholder Maps Improvement Comments

| | |
|--|--|
| Breckinridge | Correct street names on map |
| Carrier | |
| <i>Location</i> | <i>Description</i> |
| Maple/Broadway | |
| Broadway/Maine | |
| SH132/45th | Need more advance warning before intersection |
| Enid | |
| <i>Location</i> | <i>Description</i> |
| Southgate (54-66) | |
| E0425 (78th - 90th) | Railroad crossing overpass |
| E0425 (54th - 60th) | Railroad crossing overpass |
| Wheat Capital/114th | |
| Broadway (Hayes-Arthur) | Cars blocking road, 1-way traffic congestion. |
| Hays/Broadway | Tree blocking railroad crossing sign. |
| Cleveland (Oklahoma - Owen K. Garriott) | Sidewalks needed |
| E0410 (Garland - Mount Vernon) | Make 4 lanes |
| Garland (south to E0410) | Need sidewalks |
| Garland (Willow-Oakwood) | Need sidewalks to school |
| Appomattox/Shiloh | Stop sign |
| Between Randolph & Chestnut on Garland Rd. | More lighting |
| Mercer (Norman - north) | Need safe access to DHS & Health Dept. Need sidewalks for pedestrians. |
| Southgate/Leonna Mitchell | Road closed for emergency vehicles |
| Golden Oaks | Far from Enid for emergency response |
| Mill Run/Spring Ridge | Need stop sign |
| Rupe/Cleveland/Van Buren | Sidewalks |
| Monroe (north of Purdue) | Stop light confusing |
| Willow/Washington | Fence blocking view |
| Cleveland (south of Chestnut) | Significant Vance traffic + Hayes (school) in AM, Vance in PM |
| Hillsdale | |
| <i>Location</i> | <i>Description</i> |
| Taylor (Jett/Main) | |
| Kremlin | |
| <i>Location</i> | <i>Description</i> |
| Keowee/US 60 | Intersection rated to high of speed for traffic numbers |
| 16th/E03500 | Intersection safety. Blind 4 way |
| Lahoma | |
| <i>Location</i> | <i>Description</i> |

| | |
|--------------------------------|---|
| | School zone lights don't work |
| | Alleyways have large potholes. |
| Rupe/Logan | Rough |
| Logan (Rupe - US 60) | Road beat up, pot holes, down to 1 lane |
| Waukomis | |
| <i>Location</i> | <i>Description</i> |
| US 81/Wood | Needs improvement |
| Wood (US 81/Main) | Railroad crossing improvement |
| Hayward (Cleveland- Van Buren) | Bad road |
| Lisa/Cleveland | Street improvement |
| Cherokee (Cleveland-Main) | Widen |
| Cowboy | Street flooding |
| E0520 | Railroad crossing improvement |

Appendix F - Corresponding Websites and Plans

Garfield County Multi-Jurisdictional Hazard Mitigation Plan <https://gcem.org/wp-content/uploads/2017/07/2016-03-07-Garfield-County-HMP.pdf>
http://www.okladot.state.ok.us/maps/railroad/2016-2017/RRmap1_2016-17_web.pdf
<http://www.fhwa.dot.gov/>
www.oksafe-t.org
www.census.gov
<http://geography.brucemyers.com/bridges/county/40-11>
[https://www.ok.gov/odot/About_ODOT/Contact_ODOT/Divisions/Strategic_Asset_&_Performance_Management_\(SAPM\)_Division.html](https://www.ok.gov/odot/About_ODOT/Contact_ODOT/Divisions/Strategic_Asset_&_Performance_Management_(SAPM)_Division.html)
<http://www.odot.org/maps/aadt/index.htm>
<http://www.odot.org/maps/aadt/2018/08-Garfield.pdf>
<https://ok.gov/odot/Bridges.html>
https://www.ok.gov/odot/Funding_Transportation_in_Oklahoma.html
<http://www.airnav.com/airports/us/OK>
<http://www.tollfreeairline.com/oklahoma.htm>
<http://www.tollfreeairline.com/oklahoma/garfield.htm>
<http://nodanet.org/cherokee-strip-transit/>
<http://www.magb.org/>
<http://www.okladot.state.ok.us/newsmedia/pdfs/freight-goods-movement.pdf>
http://www.okladot.state.ok.us/p-r-div/long_range_plan/ODOT%20Freight%20Flows%20Nov2012.pdf
<http://www.okhistory.org>
<http://www.okladot.state.ok.us/rail/rail-plan/index.htm>
<http://www.okstatefreightplan.com/>
<https://nationalregisterofhistoricplaces.com/ok/Garfield/state.html>
https://www.wildlifedepartment.com/wildlifemgmt/endangered/State>Listed_by_County.pdf
<https://www.okwindpower.com/oklahoma-wind/wind-farms/>

APPENDIX G

Maps and Tables by Chapters

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| | |
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Table 2.1 NORTPO Counties Population Data

| NORTPO Counties | 2013-2017 Estimate | 2012-2016 Estimate | 2011-2015 Estimate | 2010-2014 Estimate | 2009-2013 Estimate | 2008-2012 Estimate | 2010 Census |
|------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|
| Alfalfa County | 5,877 | 5,784 | 5,868 | 5,793 | 5,847 | 5,666 | 5,642 |
| Blaine County | 9,680 | 9,777 | 9,833 | 9,896 | 9,720 | 9,785 | 11,943 |
| Beaver County | 5,445 | 5,400 | 5,435 | 5,519 | 5,558 | 5,583 | 5,636 |
| Cimarron County | 2,221 | 2,170 | 2,202 | 2,271 | 2,307 | 2,383 | 2,475 |
| Dewey County | 4,904 | 4,886 | 4,961 | 4,949 | 4,844 | 4,805 | 4,810 |
| Ellis County | 4,102 | 4,083 | 4,215 | 4,116 | 4,132 | 4,077 | 4,151 |
| Garfield County | 62,421 | 62,481 | 63,569 | 62,977 | 62,267 | 61,189 | 60,580 |
| Grant County | 4,458 | 4,497 | 4,523 | 4,496 | 4,528 | 4,516 | 4,527 |
| Harper County | 3,843 | 3,794 | 3,842 | 3,894 | 3,873 | 3,706 | 3,685 |
| Kay County | 45,173 | 45,398 | 45,366 | 45,510 | 45,633 | 45,779 | 46,562 |
| Kingfisher County | 15,510 | 15,392 | 15,584 | 15,509 | 15,276 | 14,994 | 15,029 |
| Major County | 7,730 | 7,721 | 7,771 | 7,758 | 7,683 | 7,667 | 7,527 |
| Noble County | 11,421 | 11,470 | 11,554 | 11,519 | 11,446 | 11,546 | 11,561 |
| Texas County | 21,409 | 21,131 | 21,379 | 21,677 | 21,959 | 21,497 | 20,640 |
| Woods County | 9,132 | 9,134 | 9,283 | 9,231 | 8,981 | 8,834 | 8,878 |
| Woodward County | 21,140 | 20,924 | 21,575 | 21,518 | 21,224 | 20,656 | 20,081 |
| NORTPO Region | 234,466 | 234,042 | 236,960 | 236,633 | 235,278 | 232,683 | 233,727 |
| Oklahoma | 3,896,251 | 3,875,589 | 3,911,338 | 3,879,610 | 3,850,568 | 3,815,780 | 3,751,351 |

(Source: US Census Bureau)

Table 2.2 Garfield County Growth Chart 1980-2017 ACS Estimate

| | 1980 Census | 1990 Census | 2000 Census | 2010 Census | 2012-2016 ACS | 2013-2017 ACS |
|------------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Oklahoma | 3,025,290 | 3,145,585 | 3,450,654 | 3,751,351 | 3,875,589 | 3,896,251 |
| Garfield County | 62,820 | 56,735 | 57,813 | 60,580 | 62,481 | 62,421 |
| Breckinridge | 261 | 251 | 239 | 245 | 216 | 137 |
| Carrier | 259 | 171 | 77 | 85 | 58 | 49 |
| Covington | 715 | 590 | 553 | 527 | 545 | 512 |
| Douglas | 89 | 55 | 32 | 32 | 13 | 29 |
| Drummond | 482 | 408 | 405 | 455 | 436 | 432 |
| Enid | 50,363 | 45,417 | 47,045 | 49,379 | 50,891 | 50,809 |
| Fairmont | 419 | 129 | 147 | 134 | 239 | 255 |
| Garber | 992 | 959 | 845 | 822 | 843 | 865 |
| Hillsdale | 110 | 96 | 101 | 121 | 150 | 141 |
| Hunter | 276 | 218 | 173 | 165 | 177 | 190 |
| Kremlin | 301 | 243 | 240 | 255 | 215 | 207 |
| Lahoma | 537 | 645 | 577 | 611 | 614 | 539 |
| North Enid | 992 | 874 | 796 | 860 | 1,091 | 1,110 |
| Waukomis | 1,551 | 122 | 1,261 | 1,286 | 1,368 | 1,526 |

(Source: <http://worldpopulationreview.com/us-counties/ok/garfield-county-population/> & <https://population.us/settlement/ok/>)

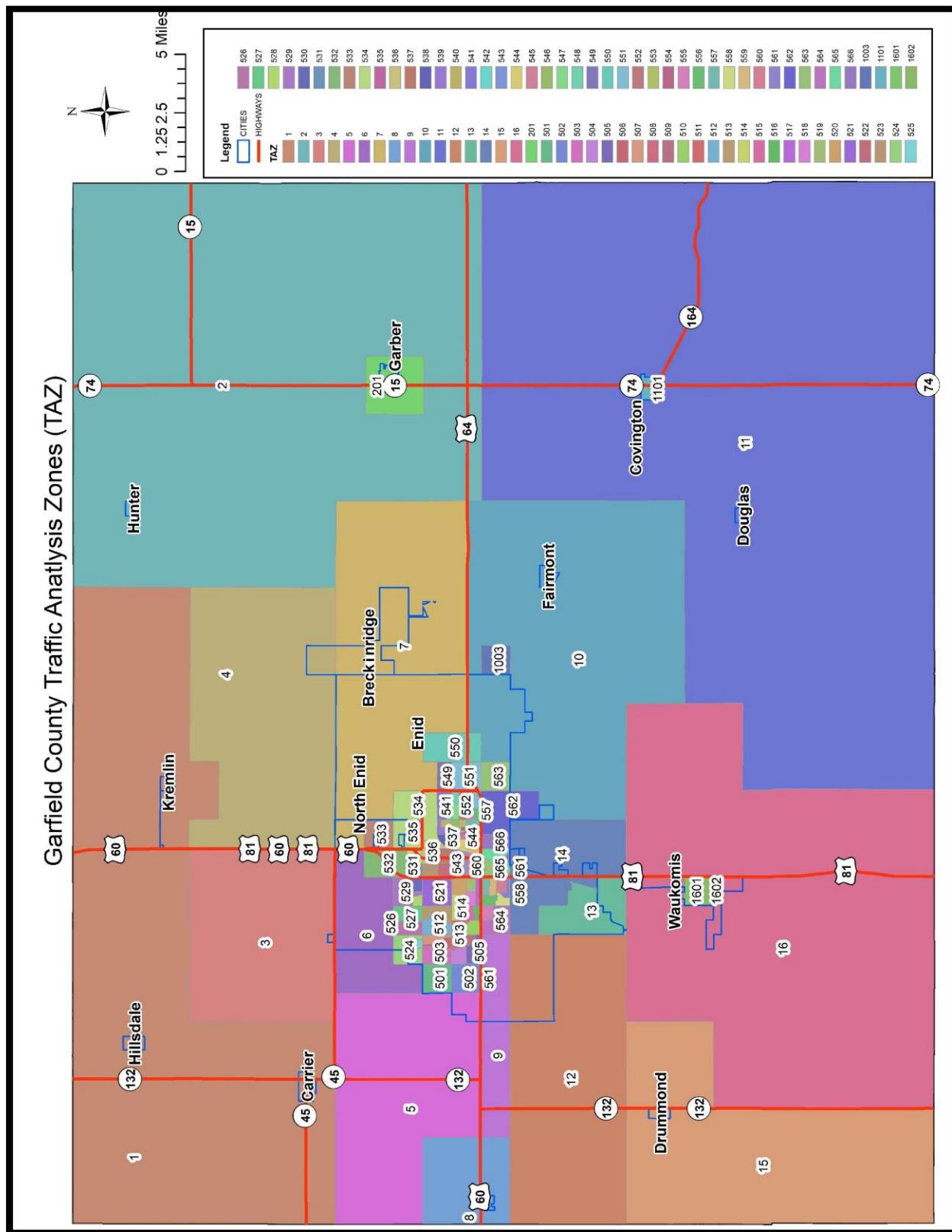
Source: US Census; Factfinder)

Table 2.3 Vehicle Registration Chart

| | 2014 | 2015 | 2016 | 2017 | 2018 |
|--------------------------|--------|--------|--------|--------|--------|
| Automobile | 54,978 | 53,352 | 53,342 | 53,223 | 51,557 |
| Farm Truck | 4,086 | 3,901 | 3,688 | 3,429 | 3,376 |
| Commercial Truck | 3,719 | 3,420 | 2,927 | 2,733 | 2,643 |
| Commercial Truck Tractor | 589 | 474 | 555 | 459 | 452 |
| Commercial Trailer | 6,194 | 2,390 | 2,009 | 1,879 | 3,970 |
| Motorcycles | 3,273 | 3,292 | 3,163 | 3,096 | 2,918 |

(Source: Oklahoma Tax Commission)

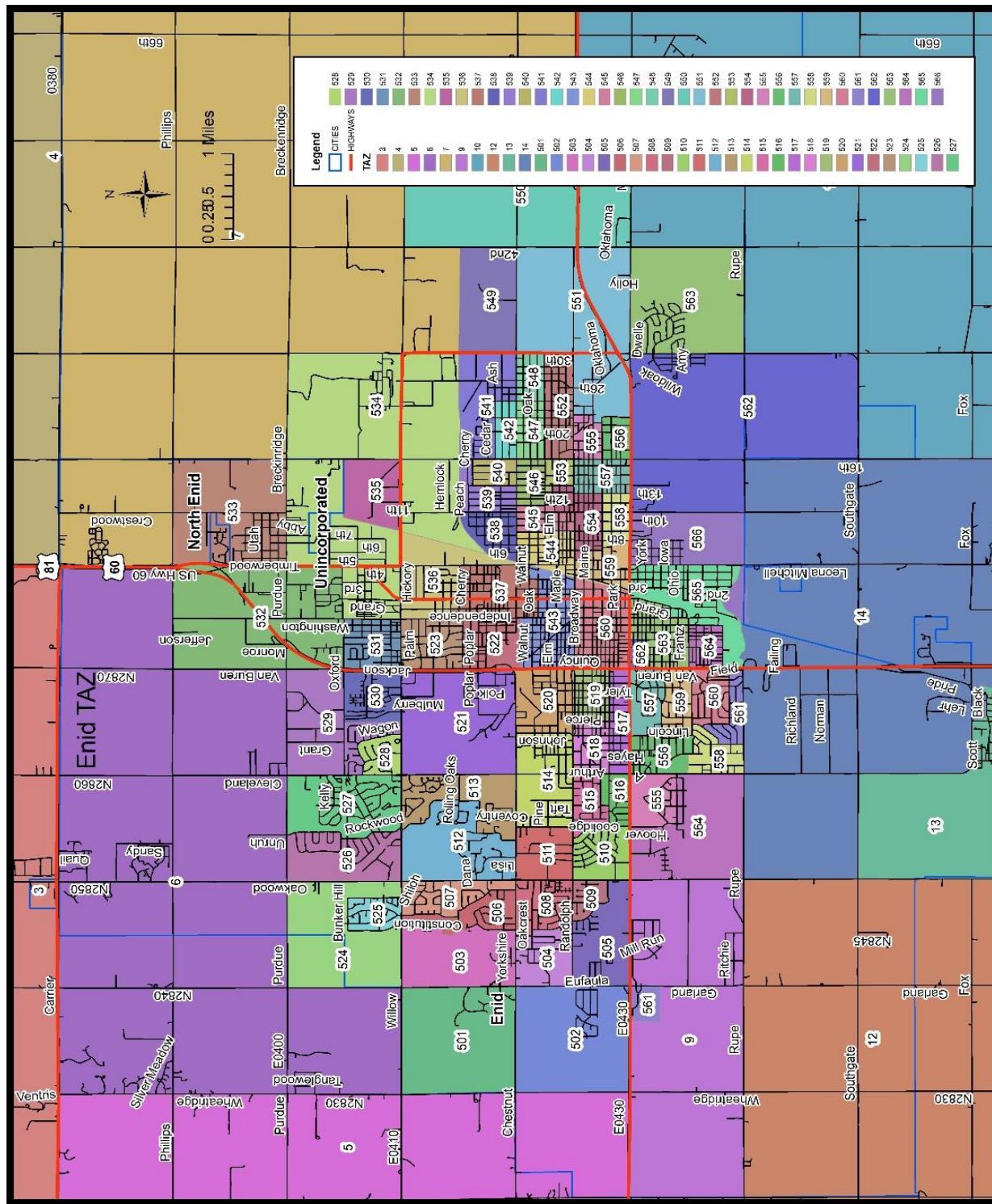
Map 2.1 Garfield County TAZ



(Source: NORTPO)

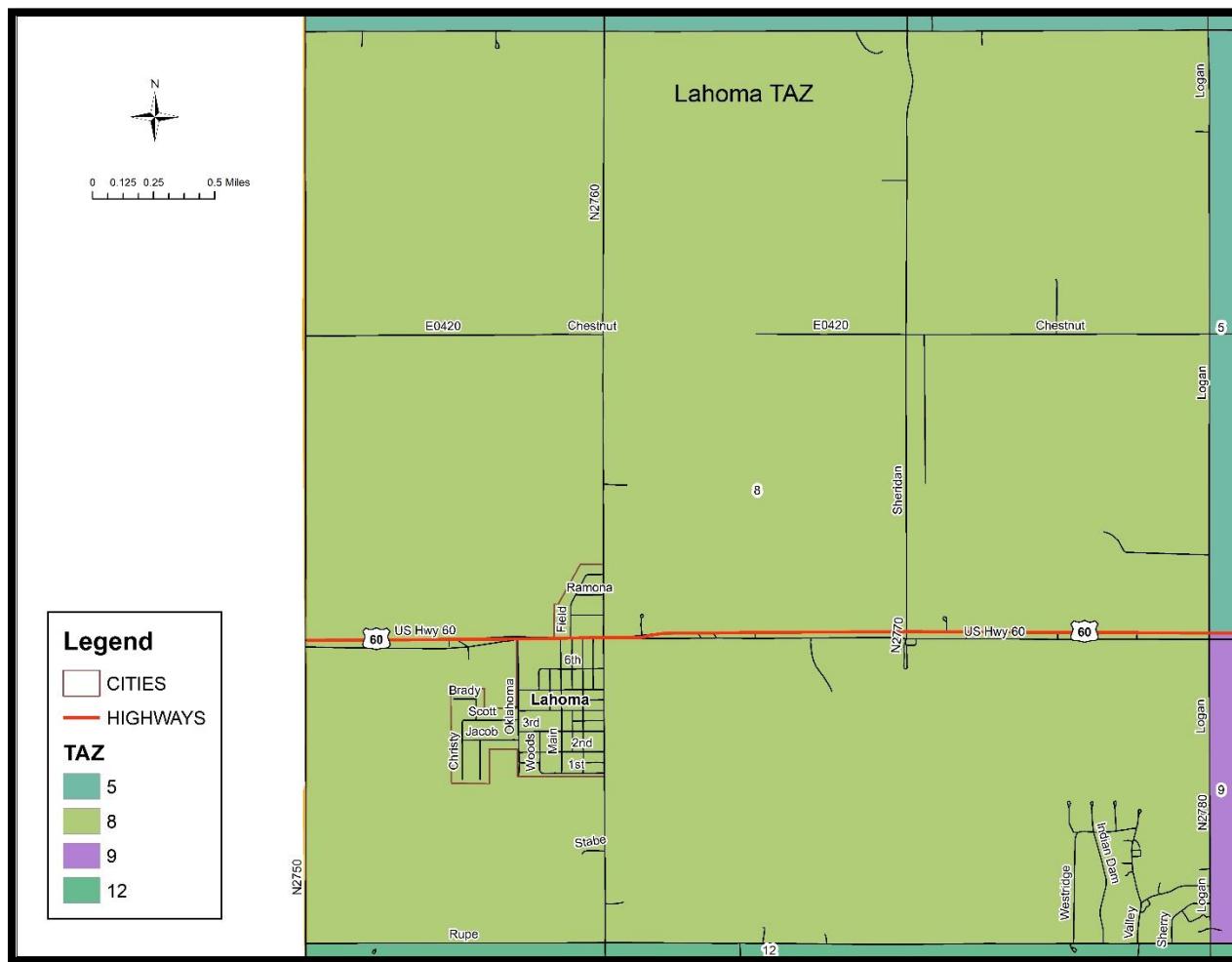
Garfield County 2039 Long Range Transportation Plan

Map 2.2 City of Enid TAZ



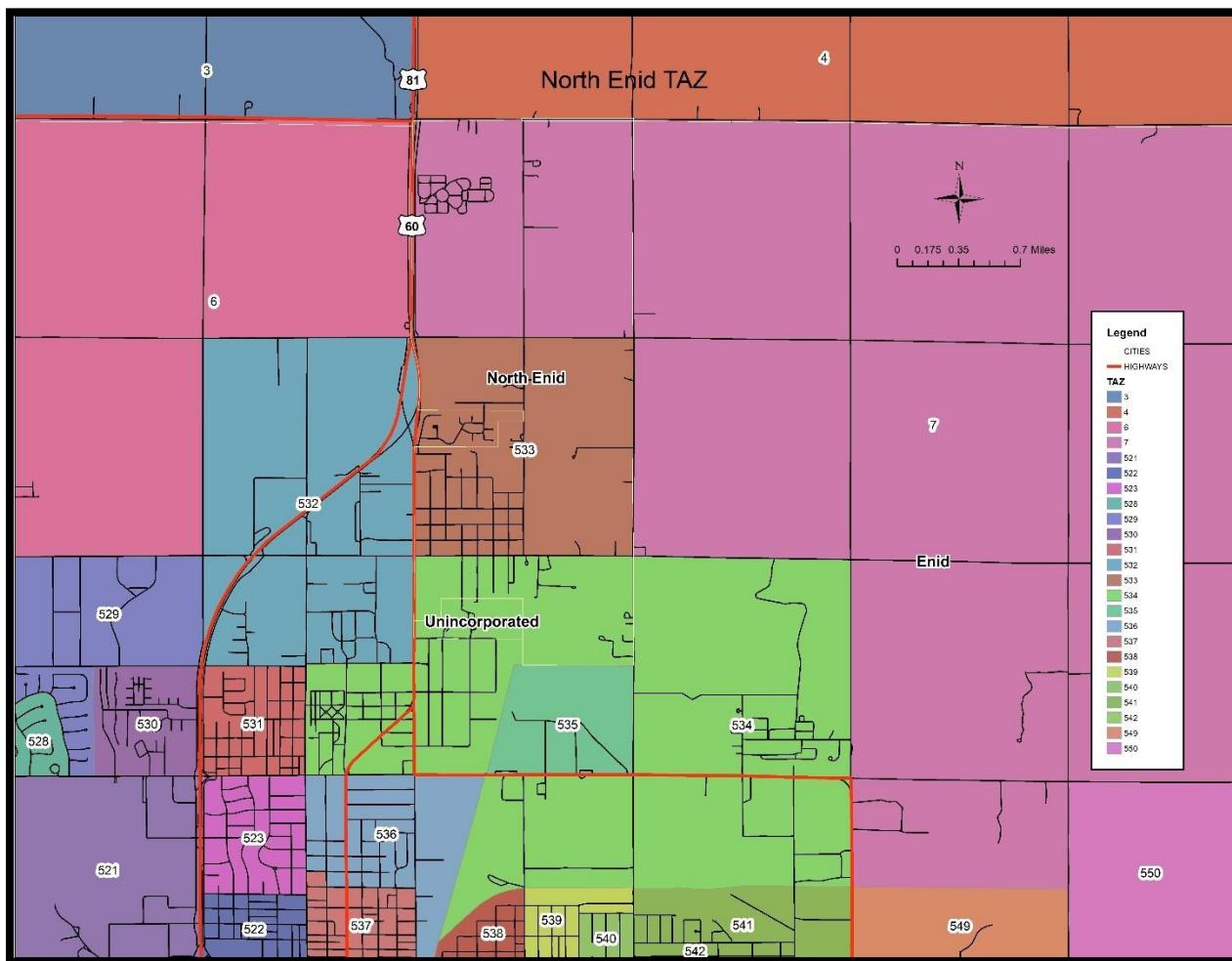
(Source: NORTPO)

Map 2.3 Town of Lahoma TAZ



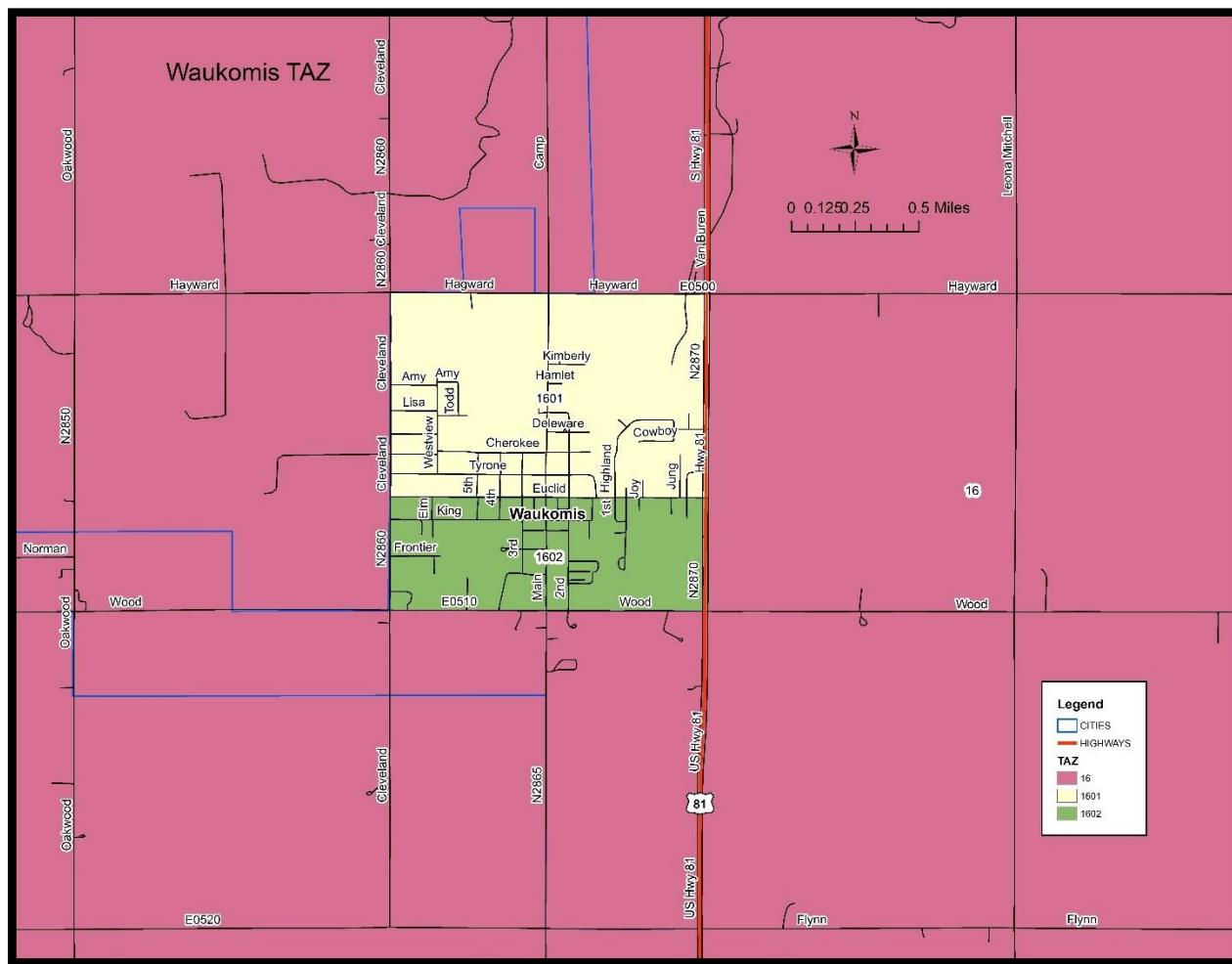
(Source: NORTPO)

Map 2.4 Town of North Enid TAZ



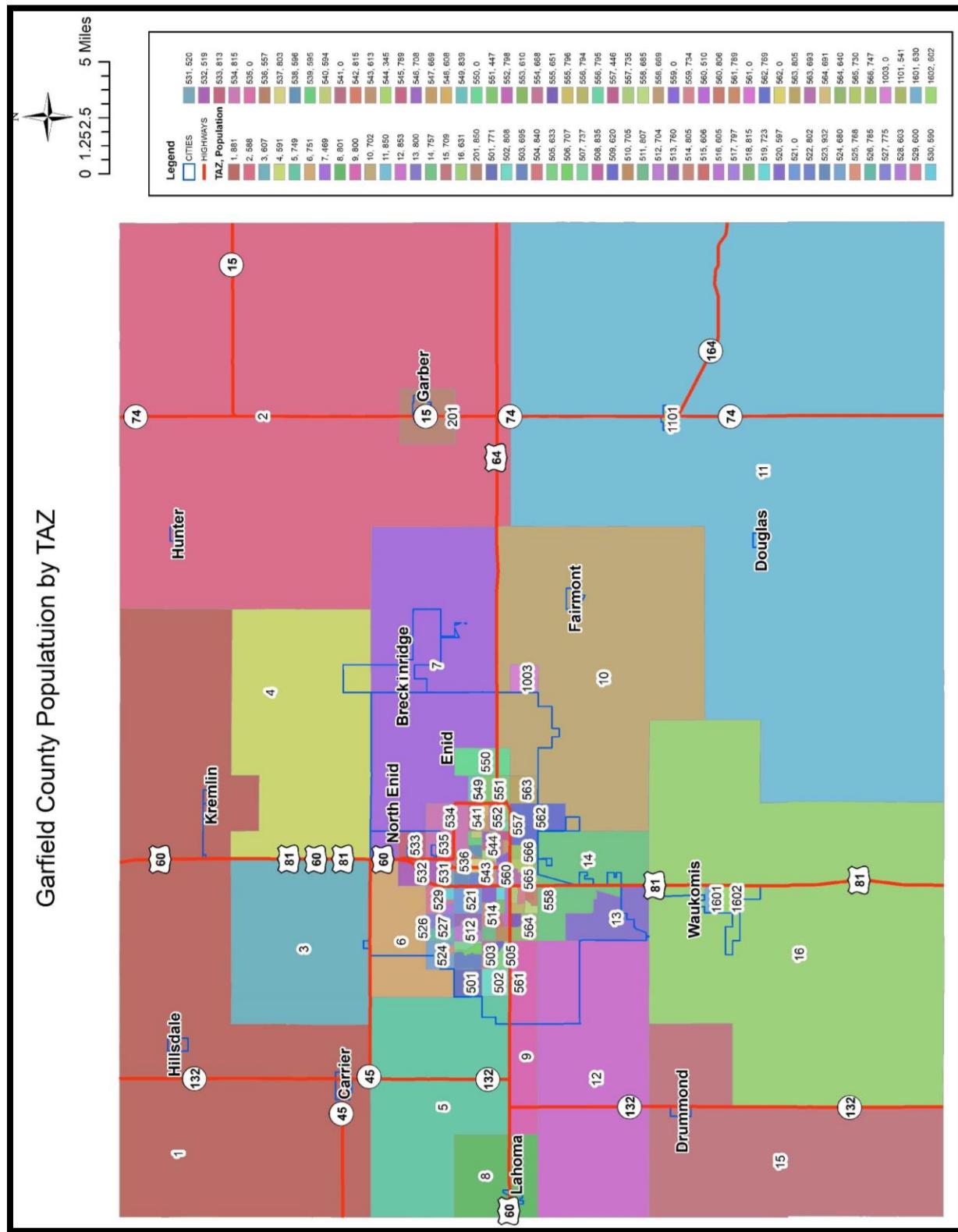
(Source: NORTPO)

Map 2.5 Town of Waukomis TAZ



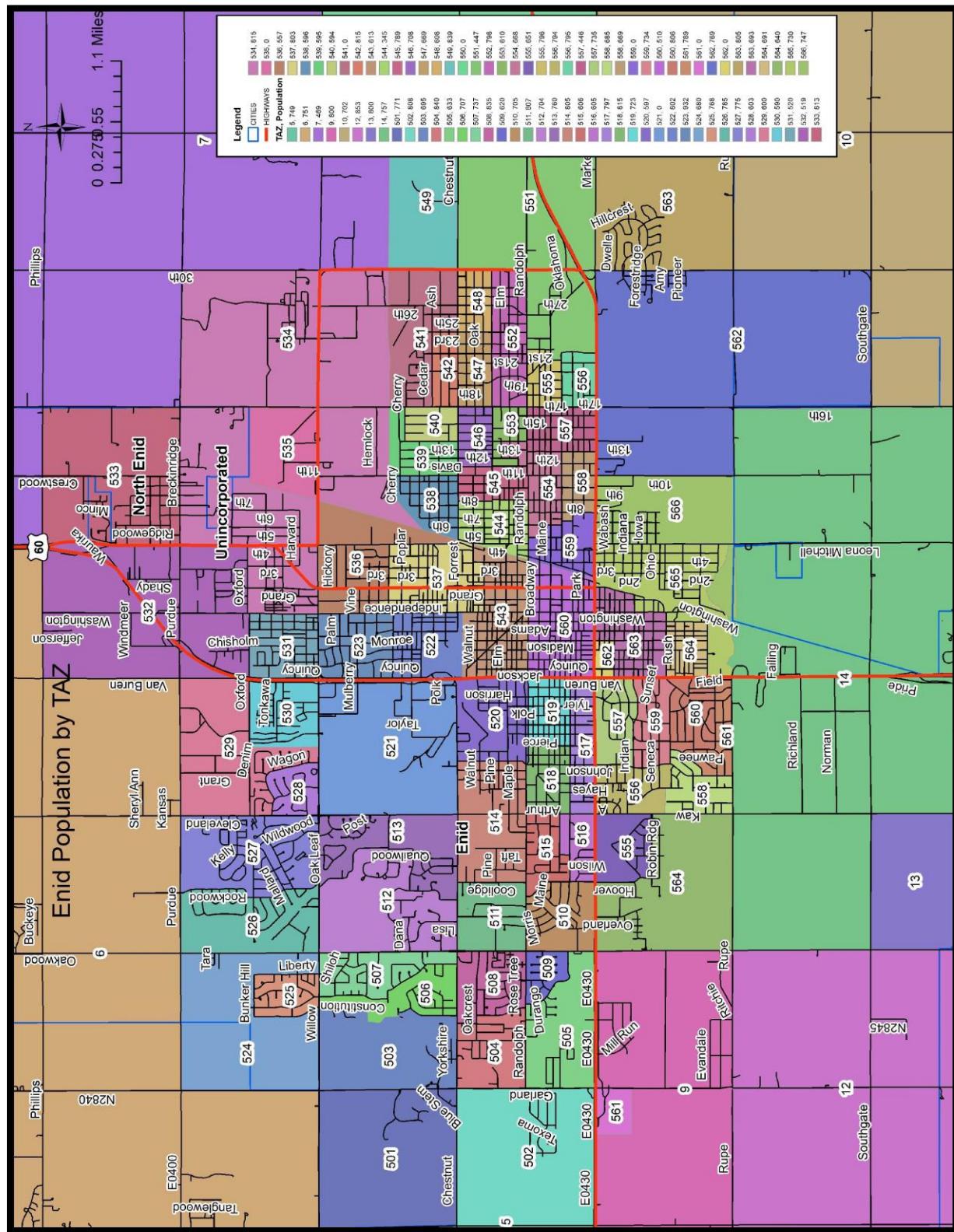
(Source: NORTPO)

Map 2.6 Garfield County Population by TAZ

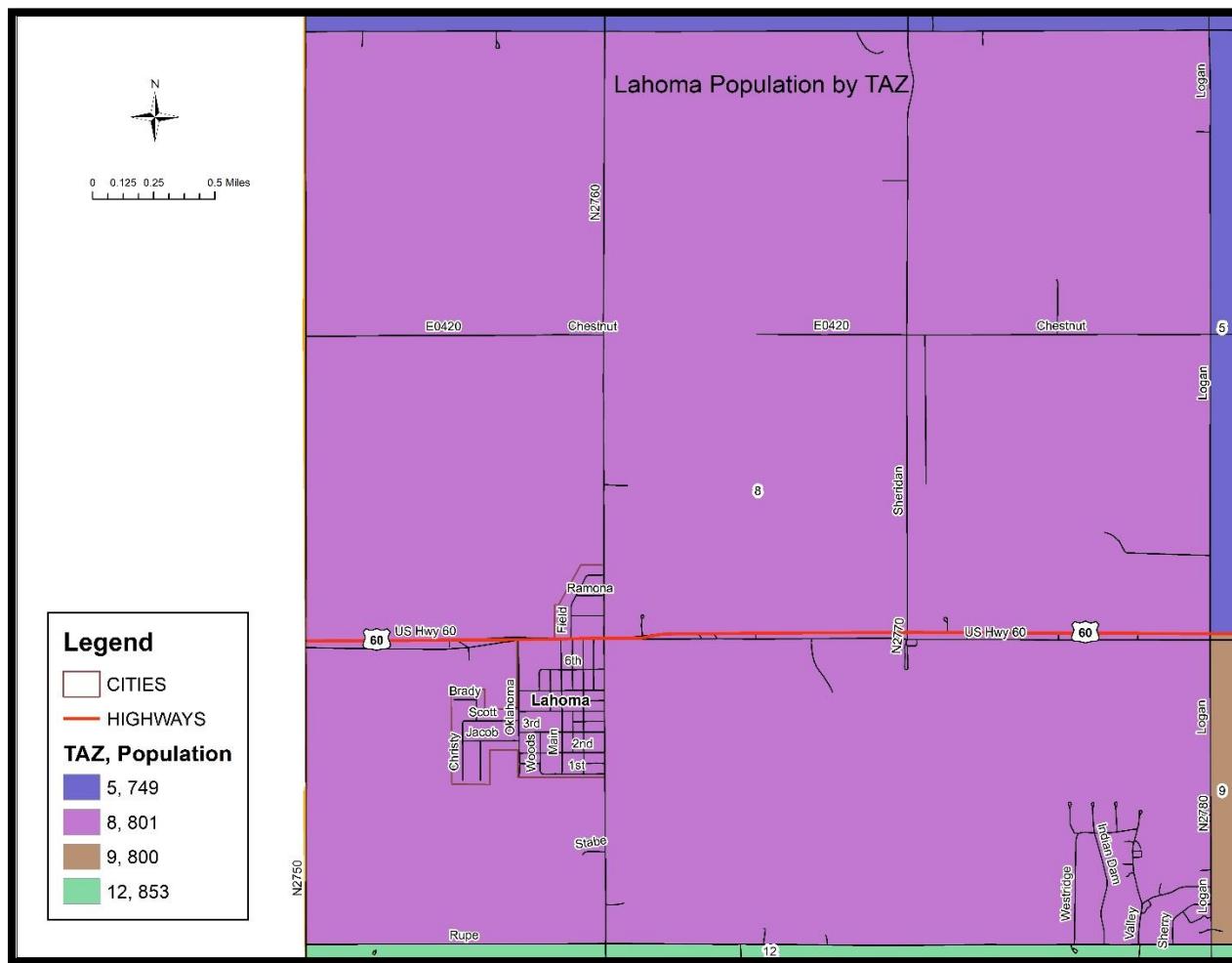


(Source: NORTPO)

Map 2.7 City of Enid Population by TAZ

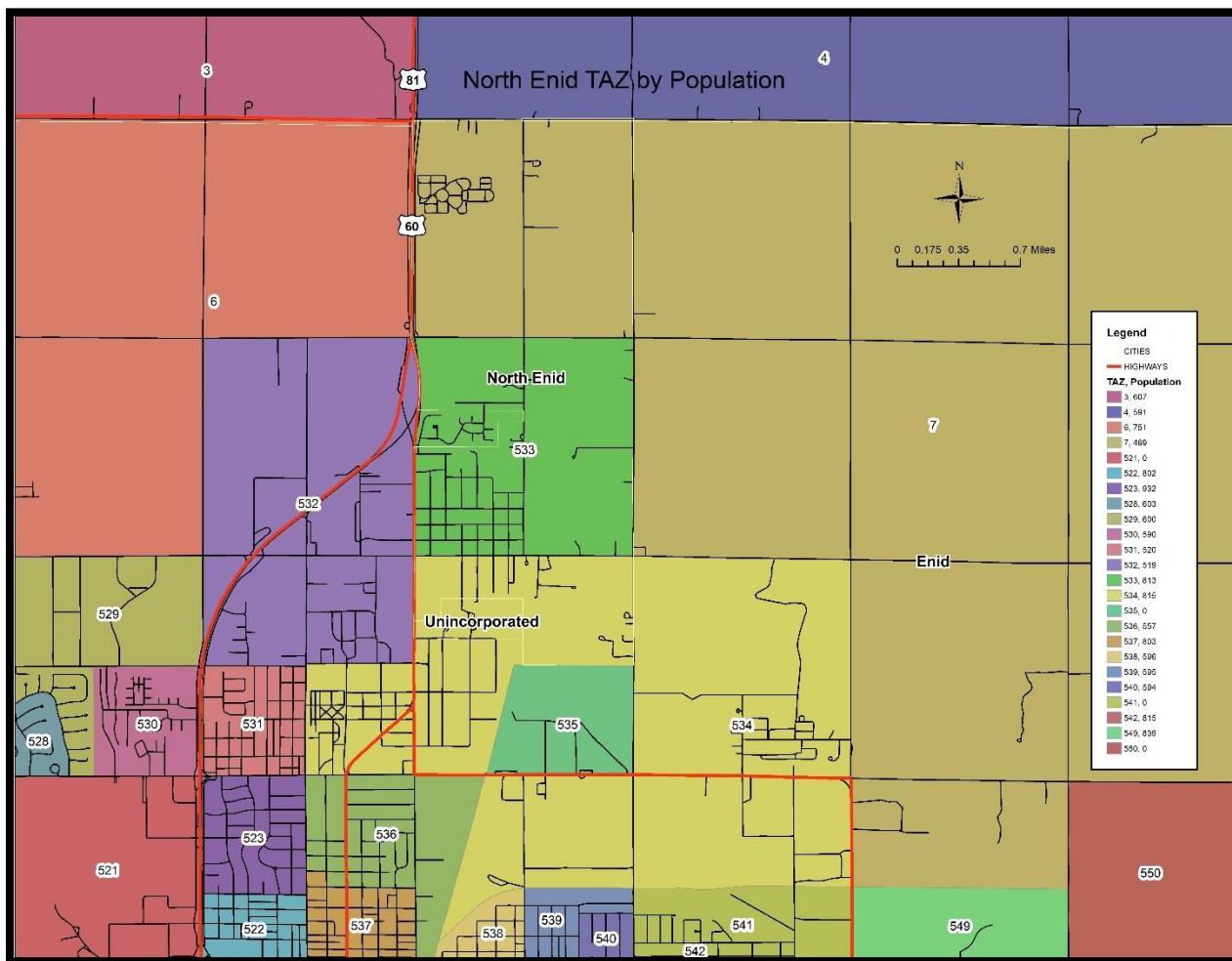


Map 2.8 Town of Lahoma Population by TAZ



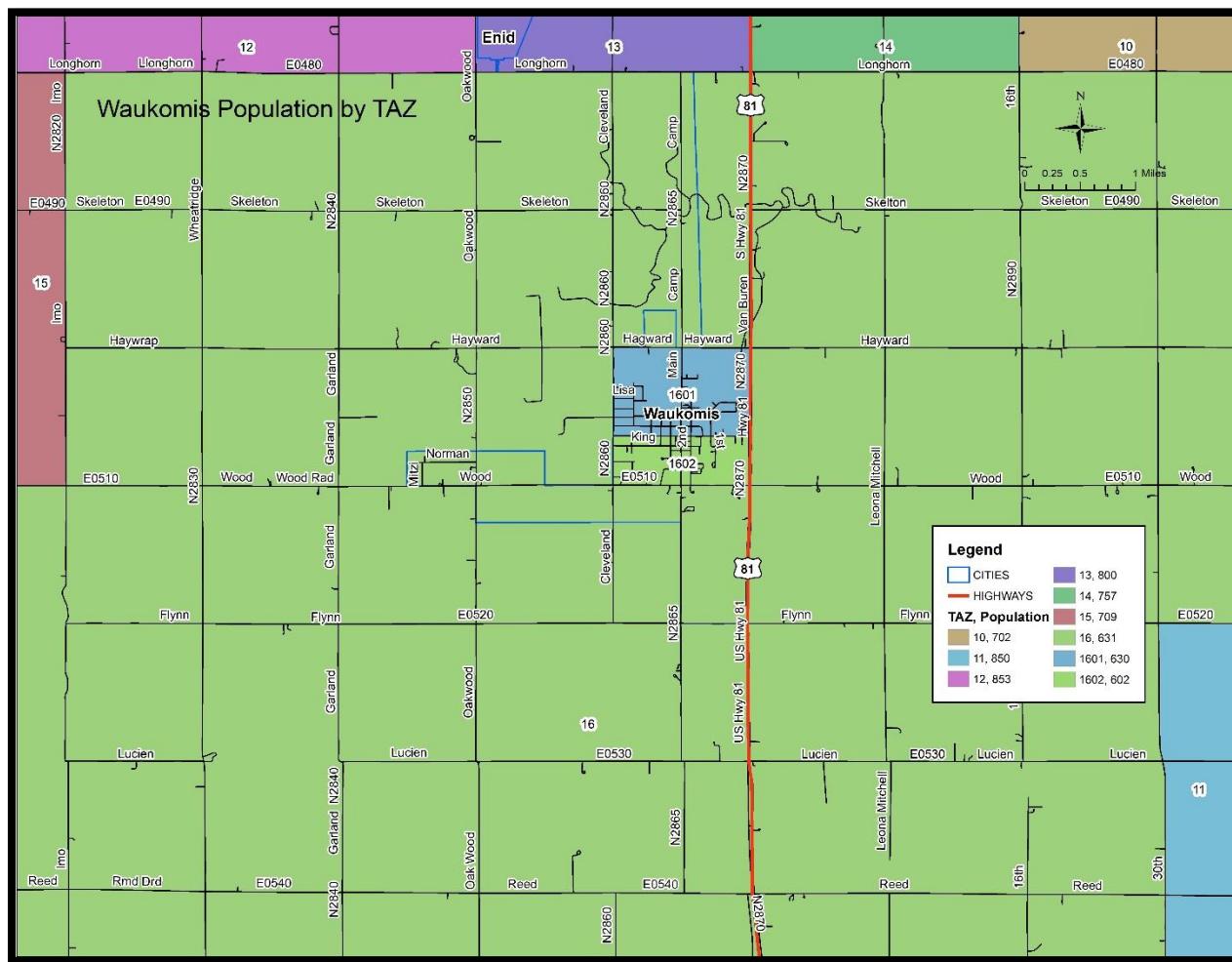
(Source: NORTPO)

Map 2.9 Town of North Enid Population by TAZ



(Source: NORTPO)

Map 2.10 Town of Waukomis Population by TAZ



(Source: NORTPO)

Table 2.4 Garfield County Population by TAZ

| TAZ NO. | POPULATION (2017) | EMPLOYEE NO. (2017) |
|---------|----------------------|-------------------------|
| 1 | 881 | |
| 2 | 588 | |
| 3 | 607 | |
| 4 | 591 | |
| 5 | 749 | |
| 6 | 751 | |
| 7 | 469 | |
| 8 | 801 | |
| 9 | 800 | |
| 10 | 702 | |
| 11 | 850 | |
| 12 | 853 | |
| 13 | 800 | 250-499 Vance Air Force |
| 14 | 757 | |
| 15 | 709 | |
| 16 | 631 | |
| 201 | 850 | |
| 501 | 771 | |
| 502 | 808 | |
| 503 | 695 | |
| 504 | 840 | |
| 505 | 633 | |
| 506 | 707 | |
| 507 | 737 | |
| 508 | 835 | |
| 509 | 620 | |
| 510 | 705 | |
| 511 | 807 | |
| 512 | 704 | |
| 513 | 760 | |
| 514 | 805 | |
| 515 | 606 | |
| 516 | 605 | |
| 517 | 797 | |
| 518 | 815 | |
| 519 | 723 | |
| 520 | 597 | |
| 521 | 0 | 250-499 |
| 522 | 802 | |

| TAZ NO. | POPULATION (2017) | EMPLOYEE NO. (2017) |
|---------|----------------------|--|
| 523 | 932 | |
| 524 | 680 | |
| 525 | 768 | |
| 526 | 785 | |
| 527 | 775 | |
| 528 | 603 | |
| 529 | 600 | |
| 530 | 590 | |
| 531 | 520 | |
| 532 | 519 | |
| 533 | 813 | |
| 534 | 815 | |
| 535 | 0 | 250-499 |
| 536 | 557 | |
| 537 | 803 | |
| 538 | 596 | |
| 539 | 595 | |
| 540 | 594 | |
| 541 | 0 | 500-999 |
| 542 | 815 | |
| 543 | 613 | |
| 544 | 345 | |
| 545 | 789 | |
| 546 | 708 | |
| 547 | 669 | |
| 548 | 608 | |
| 549 | 839 | |
| 550 | 0 | 250-499 |
| 551 | 447 | 100-249 / Northern Oklahoma College |
| 552 | 798 | |
| 553 | 610 | |
| 554 | 668 | |
| 555 | 651 | |
| 555 | 796 | |
| 556 | 794 | |
| 556 | 795 | |
| 557 | 446 | |
| 557 | 735 | |
| 558 | 669 | |

Garfield County 2039 Long Range Transportation Plan

| TAZ NO. | POPULATION (2017) | EMPLOYEE NO. (2017) |
|---------|----------------------|---------------------|
| 558 | 685 | |
| 559 | 0 | 250-499 |
| 559 | 734 | |
| 560 | 510 | |
| 560 | 806 | |
| 561 | 789 | |
| 561 | 0 | 250-499 |
| 562 | 769 | |
| 562 | 0 | 250-499 |
| 563 | 693 | |
| 563 | 805 | |
| 564 | 640 | |
| 564 | 691 | |
| 565 | 730 | |
| 566 | 747 | |
| 1003 | 0 | 250-499 |
| 1101 | 541 | |
| 1601 | 630 | |
| 1602 | 602 | |

(Source: NORTPO)

Table 2.5 Garfield County Major Employers by TAZ

| Company Name | Address | City | # of Employees |
|---|-----------------------|-----------|----------------|
| Covington & Douglas Schools | 400 E Main St | Covington | [50 - 99] |
| Covington General Store | 102 E Main St | Covington | [10 - 19] |
| Phillips 66 | 102 E 1st St | Covington | [10 - 19] |
| County Shop | 311 Commercial St | Douglas | [10 - 19] |
| R & M Pipeline Svc Inc. | 7604 Highway 132 | Drummond | [50 - 99] |
| All terrain Electric LLC | 11528 W Skeleton Rd | Drummond | [10 - 19] |
| Drummond Schools | 610 Kansas Ave | Drummond | [20 - 49] |
| R & M Pipeline Svc Inc. | 7604 Highway 132 | Drummond | [50 - 99] |
| Central Machine & Tool (PT Coupling/Parrish Enterprises | 1414 E Willow Rd | Enid | 300 |
| Attwood's Ranch & Home | 500 S Garland Rd | Enid | [100 - 249] |
| BNSF Railway Co | 930 E Cherry Ave | Enid | [100 - 249] |
| Central National Bank & Trust | 324 W Broadway Ave | Enid | [100 - 249] |
| Clay Hall Senior Resident | 311 Lakeview Dr. | Enid | [100 - 249] |
| Complete Energy Svc Fluid Mgmt. | 205 W Maple Ave # 600 | Enid | [100 - 249] |
| Cummins Construction Co Inc. | 1420 W Chestnut Ave | Enid | [100 - 249] |

Garfield County 2039 Long Range Transportation Plan

| Company Name | Address | City | # of Employees |
|---------------------------------|---------------------------|------|----------------|
| Dillard's | 4125 W Owen K Garriott Rd | Enid | [100 - 249] |
| Enid Administrative Offices | 401 W Owen K Garriott Rd | Enid | [100 - 249] |
| Enid High School | 611 W Wabash Ave | Enid | [100 - 249] |
| Enid News & Eagle | 227 W Broadway Ave | Enid | [100 - 249] |
| Enid Police Dept. | 301 W Owen K Garriott Rd | Enid | [100 - 249] |
| Garland Road Nurse & Rehab Ctr | N Garland Rd | Enid | [100 - 249] |
| GEFCO Inc. | 2215 S Van Buren St | Enid | [100 - 249] |
| Greenbrier Village | 715 S 10th St | Enid | [100 - 249] |
| Hackney Ladish | 400 E Willow Rd | Enid | [100 - 249] |
| INTEGRIS Bass Behavioral Health | 2216 S Van Buren St | Enid | [100 - 249] |
| Jumbo Foods | 821 Commercial Cir | Enid | [100 - 249] |
| Lowe's Home Improvement | 5201 W Owen K Garriott Rd | Enid | [100 - 249] |
| Lukenbill | 304 E Broadway Ave | Enid | [100 - 249] |
| Methodist Care Ctr | 301 S Oakwood Rd | Enid | [100 - 249] |
| Methodist Home of Enid Inc. | 301 S Oakwood Rd | Enid | [100 - 249] |
| Onvisource Inc. | 2300 N 10th St | Enid | [100 - 249] |
| Robert M Greer Ctr | 2501 Delaware | Enid | [100 - 249] |
| Steco Trailers | 2215 S Van Buren St | Enid | [100 - 249] |
| Trinity Assisted Living | | Enid | [100 - 249] |
| Trinity Assisted Living | 3706 King St | Enid | [100 - 249] |
| Trinity Industries Inc. | 400 E Willow Rd | Enid | [100 - 249] |
| United Methodist Retirement | 3706 King St | Enid | [100 - 249] |
| US Post Office | 115 W Broadway Ave # 1 | Enid | [100 - 249] |
| Commons | 3706 King St | Enid | [250 - 499] |
| Koch Fertilizer LLC | 1619 S 78th St | Enid | [250 - 499] |
| St Mary's Regional Medical Ctr | 305 S 5th St | Enid | [250 - 499] |
| Walmart Supercenter | 5505 W Owen K Garriott Rd | Enid | [250 - 499] |
| Academy Sports + Outdoors | 4406 W Owen K Garriott Rd | Enid | [50 - 99] |
| ADM Milling Co | 1301 N 4th St | Enid | [50 - 99] |
| Aircraft Structures Intl Corp | 1026 S 66th St | Enid | [50 - 99] |
| AMC Classic Oakwood Mall 8 | 4125 W Owen K Garriott Rd | Enid | [50 - 99] |
| Applebee's | 3616 W Owen K Garriott Rd | Enid | [50 - 99] |
| Atwood's | 5418 W Owen K Garriott Rd | Enid | [50 - 99] |
| Autry Technology Ctr | 1201 W Willow Rd | Enid | [50 - 99] |
| Buffalo Wild Wings Grill & Bar | 2126 N Van Buren St | Enid | [50 - 99] |
| C & C Pipeline Svc | 613 S Boomer Rd | Enid | [50 - 99] |
| Chili's Grill & Bar | 3620 W Owen K Garriott Rd | Enid | [50 - 99] |
| Chisholm High School | 4018 W Carrier Rd | Enid | [50 - 99] |
| Commons | 301 S Oakwood Rd | Enid | [50 - 99] |
| Enid Fire Dept. | 702 W Willow Rd | Enid | [50 - 99] |

Garfield County 2039 Long Range Transportation Plan

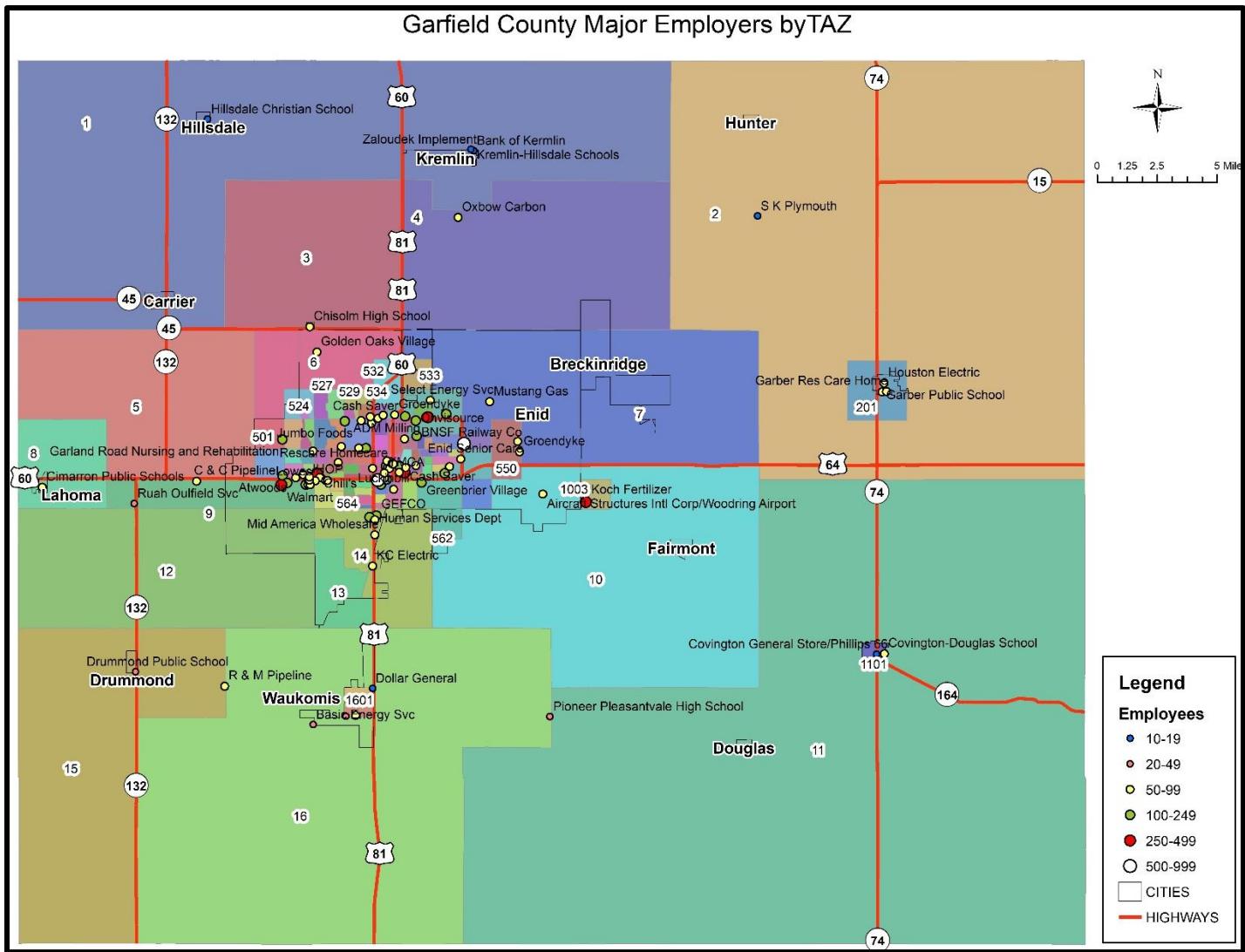
| Company Name | Address | City | # of Employees |
|--------------------------------|--------------------------------|------|----------------|
| Enid Fire Dept. | 410 W Owen K Garriott Rd | Enid | [50 - 99] |
| Enid Senior Care | 410 N 30th St | Enid | [50 - 99] |
| Evergreen Life Svc | 705 S Oakwood Rd # B4 | Enid | [50 - 99] |
| Family Center | 114 S Independence St | Enid | [50 - 99] |
| Glenwood Elementary School | 824 N Oakwood Rd | Enid | [50 - 99] |
| Golden Oaks Village Green Golf | 5801 N Oakwood Rd # D | Enid | [50 - 99] |
| Groendyke Transport Inc. | 810 N 54th St | Enid | [50 - 99] |
| Groendyke Transport Inc. | 2510 Rock Island Blvd | Enid | [50 - 99] |
| Human Services Dept. | 2405 Mercer Dr | Enid | [50 - 99] |
| IHOP Restaurant | 4125 W Owen K Garriott Rd # E | Enid | [50 - 99] |
| INTEGRIS Bass Health Pavilion | 401 S 3rd St | Enid | [50 - 99] |
| JC Penney | 4125 W Owen K Garriott Rd # 10 | Enid | [50 - 99] |
| Jumbo Foods | 221 S 30th St | Enid | [50 - 99] |
| Kc Electric Co | 4300 S Van Buren St | Enid | [50 - 99] |
| Life Emergency Medical Svc | 302 W Maple Ave | Enid | [50 - 99] |
| Longfellow Middle School | 900 E Broadway Ave | Enid | [50 - 99] |
| Mc Donald's | 1010 W Maine Ave | Enid | [50 - 99] |
| Mc Donald's | 4125 W Owen K Garriott Rd | Enid | [50 - 99] |
| Metals USA | 101 E Illinois Ave | Enid | [50 - 99] |
| Mid America Wholesale | 3101 S Van Buren St | Enid | [50 - 99] |
| Mid-Continent Packaging Inc. | 1200 N 54th St | Enid | [50 - 99] |
| Mustang Gas Products LLC | 910 W Park Ave | Enid | [50 - 99] |
| Northcutt Chevrolet Buick | 3201 W Owen K Garriott Rd | Enid | [50 - 99] |
| Northern Oklahoma College | 110 S University Ave | Enid | [50 - 99] |
| Northwest OK Blood Institute | 301 E Cherokee Ave | Enid | [50 - 99] |
| Pope Distributing Co Inc. | 1600 W Chestnut Ave | Enid | [50 - 99] |
| Putt-Putt Fun Ctr | 710 Overland Trail | Enid | [50 - 99] |
| ResCare Homecare | 112 W Randolph Ave | Enid | [50 - 99] |
| Select Energy Svc | 3124 N 16th St | Enid | [50 - 99] |
| Stevens Ford | 3101 W Owen K Garriott Rd | Enid | [50 - 99] |
| Supported Community Lifestyles | 2506 N Jefferson St | Enid | [50 - 99] |
| Tru Green | | Enid | [50 - 99] |
| United Super Market | 531 E Broadway Ave | Enid | [50 - 99] |
| United Super Market | 1010 W Willow Rd | Enid | [50 - 99] |
| Walmart Neighborhood Market | 1018 N Cleveland St | Enid | [50 - 99] |
| Western Sizzlin | 4722 W Owen K Garriott Rd | Enid | [50 - 99] |
| Wymer Brownlee | 201 N Grand St # 100 | Enid | [50 - 99] |
| YMCA of Enid | 415 W Cherokee Ave | Enid | [50 - 99] |
| INTEGRIS Bass Bapt Health Ctr | 600 S Monroe St | Enid | [500 - 999] |
| Marsau Enterprises Inc. | 1209 N 30th St | Enid | [500 - 999] |

Garfield County 2039 Long Range Transportation Plan

| Company Name | Address | City | # of Employees |
|--------------------------------|--------------------|-----------|----------------|
| Garber Public Schools | 108 W Garber Rd | Garber | [50 - 99] |
| Houston Electric | 315 Main St | Garber | [50 - 99] |
| County Warehouse | 102 Main St | Garber | [20 - 49] |
| Garber Public Schools | 108 W Garber Rd | Garber | [50 - 99] |
| Garber Res Care Home LLC | 209 E Garber Rd | Garber | [50 - 99] |
| Hillsdale Christian School | 206 E Taylor St | Hillsdale | [10 - 19] |
| S K Plymouth | 16202 N 150th St | Hunter | [10 - 19] |
| Kremlin Bancshares Inc. | 102 6th St | Kremlin | [50 - 99] |
| Oxbow Carbon & Minerals LLC | 11826 N 30th St | Kremlin | [50 - 99] |
| Zaloudek F W Implement Co | 3328 E Keowee Rd | Kremlin | [10 - 19] |
| Bank of Kremlin | 102 6th St | Kremlin | [10 - 19] |
| Kremlin-Hillsdale Schools | 605 5th St | Kremlin | [20 - 49] |
| Oxbow Carbon & Minerals LLC | 11826 N 30th St | Kremlin | [50 - 99] |
| Cimarron Public School | 301 Main St | Lahoma | [50-99] |
| Rauh Oilfield Svc Co | 1622 S Hwy 132 | Lahoma | [20 - 49] |
| Waukomis School Supt | 209 W Locust | Waukomis | [50 - 99] |
| Basic Energy Svc | 10830 S Oakwood Rd | Waukomis | [20 - 49] |
| Dollar General | 9410 S Highway 81 | Waukomis | [10 - 19] |
| Maxline Construction LLC | 600 W Drummond Rd | Waukomis | [20 - 49] |
| Pioneer Pleasantvale Sch Dist. | 6520 E Wood Rd | Waukomis | [20 - 49] |
| Waukomis City Fire Dept. | 121 S Main St | Waukomis | [20 - 49] |
| Waukomis Public Schools | 1818 W Wood Rd | Waukomis | [50 - 99] |
| Enid News & Eagle | | | [100 - 249] |
| Groendyke Transport Inc. | | | [50 - 99] |

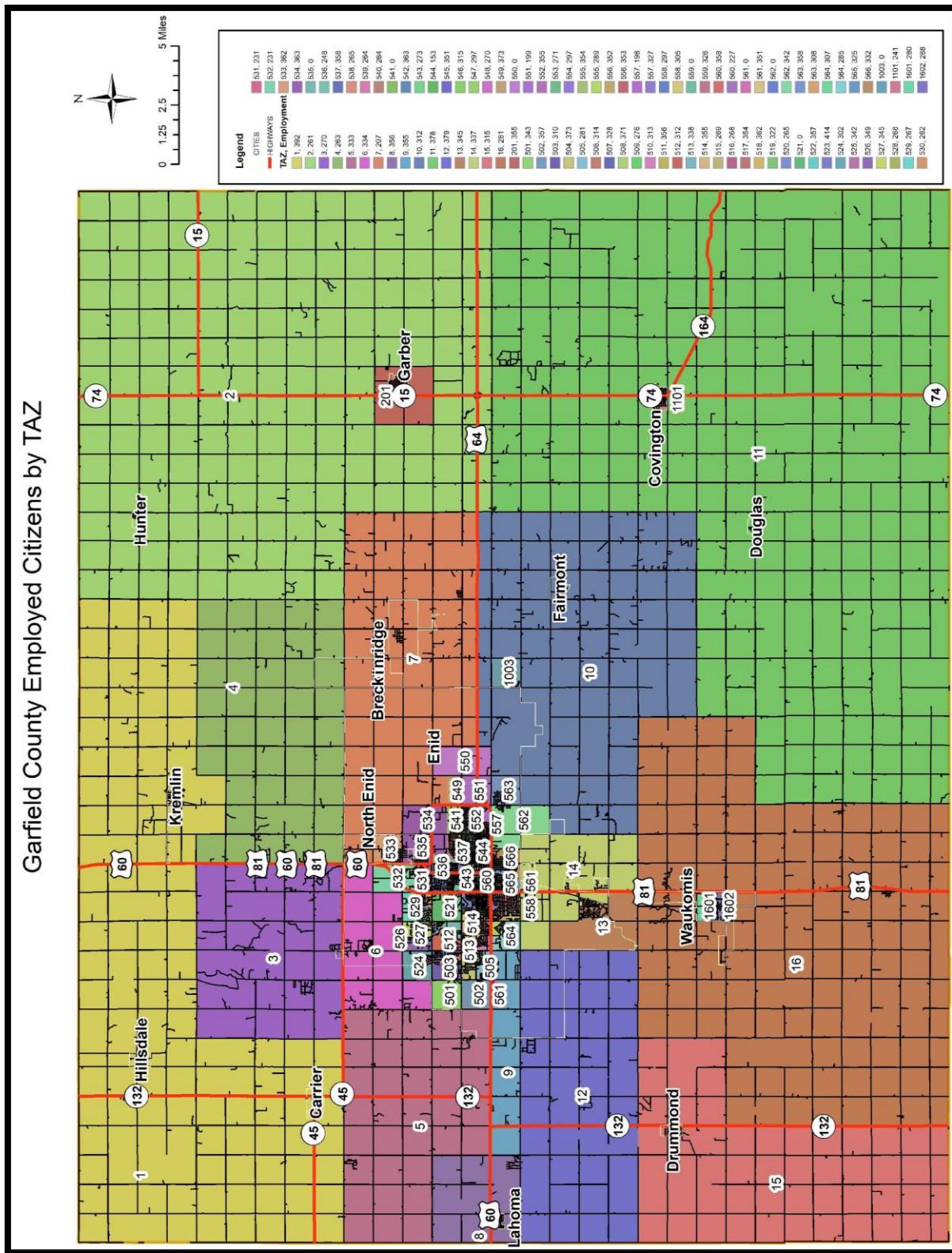
(Source: NORTPO and Oklahoma Employment Security Commission)

Map 2.11 Major Employers by TAZ



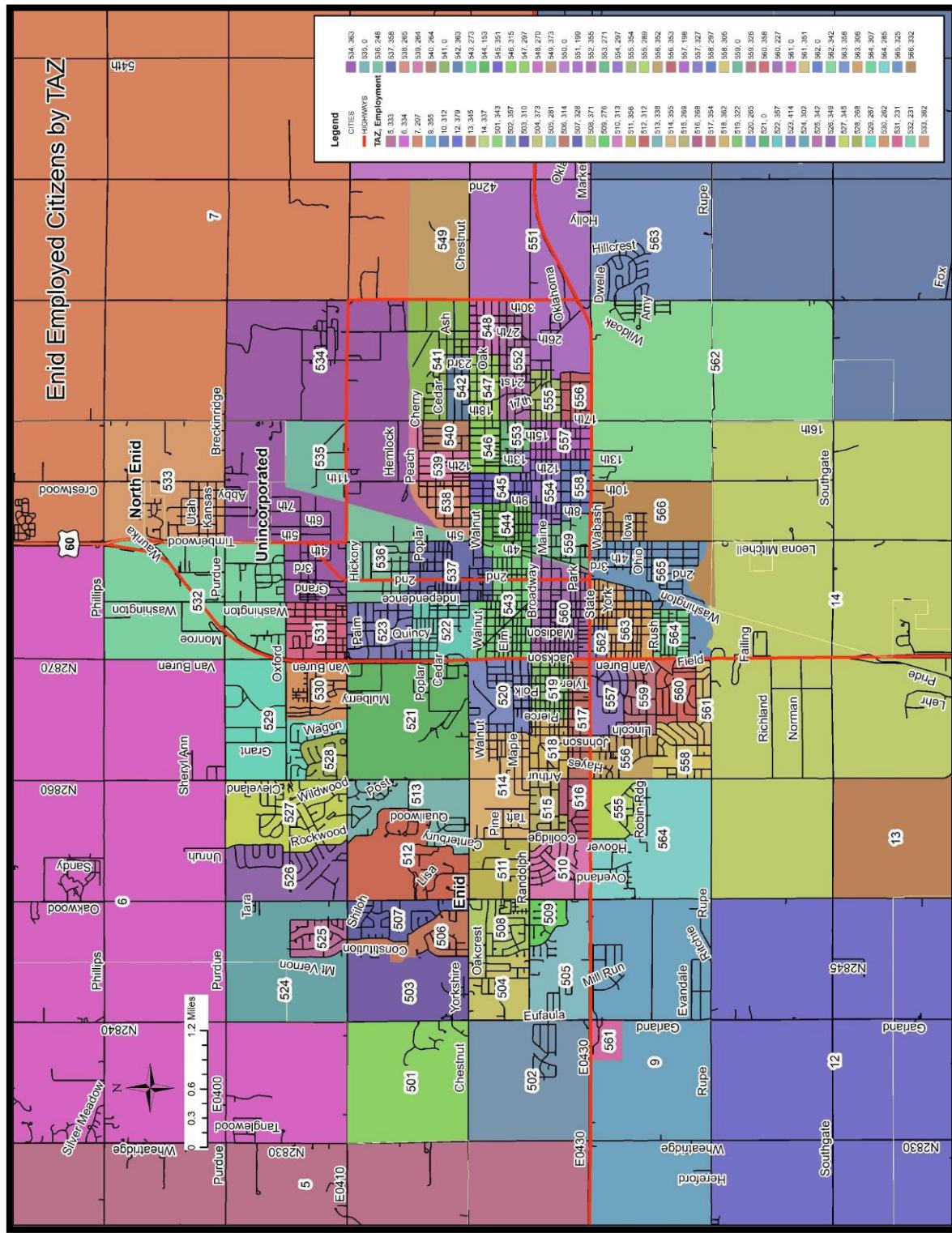
(Source: NORTPO)

Map 2.12 Garfield County Employment by TAZ



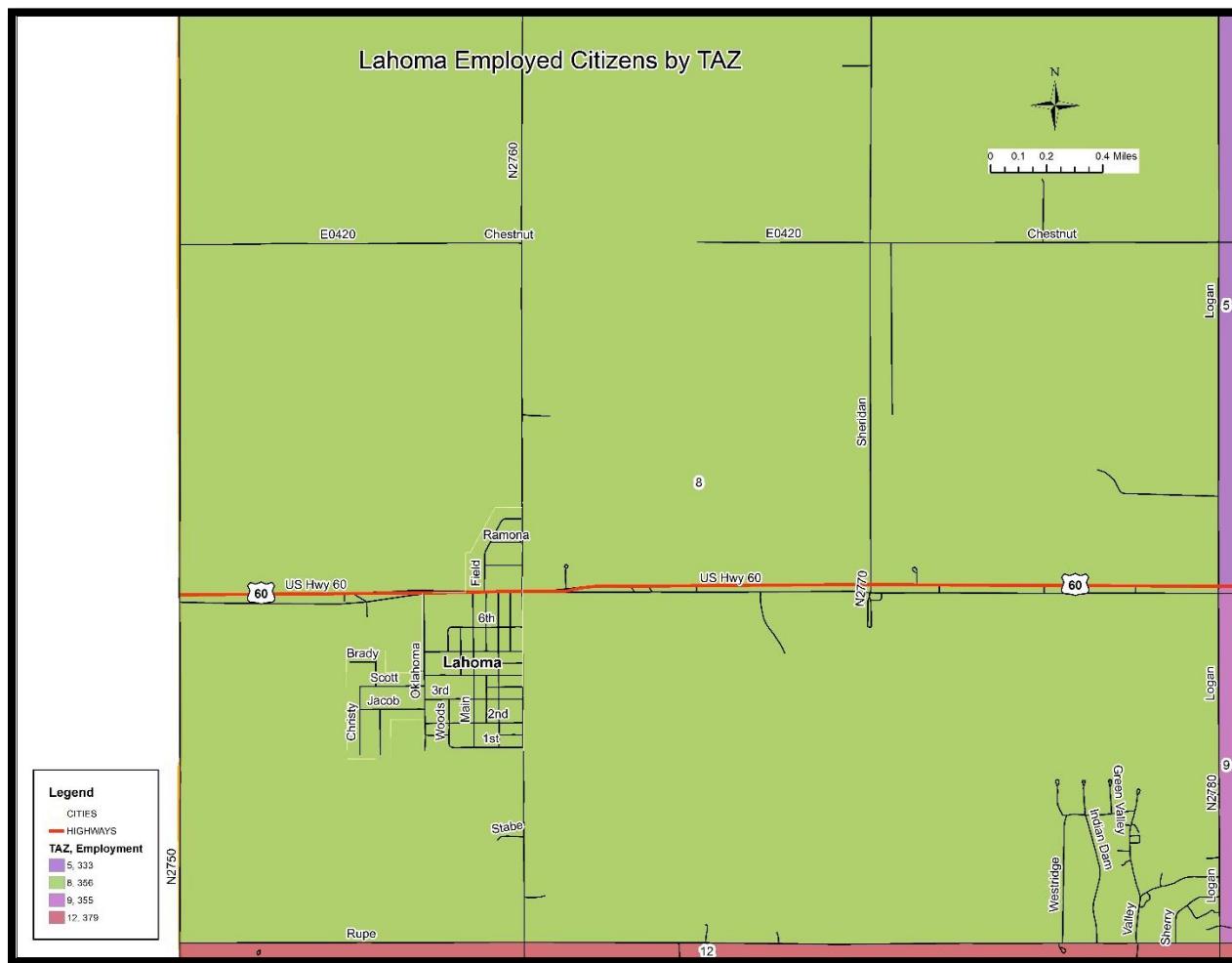
(Source: NORTPO)

Map 2.13 City of Enid Employment by TAZ



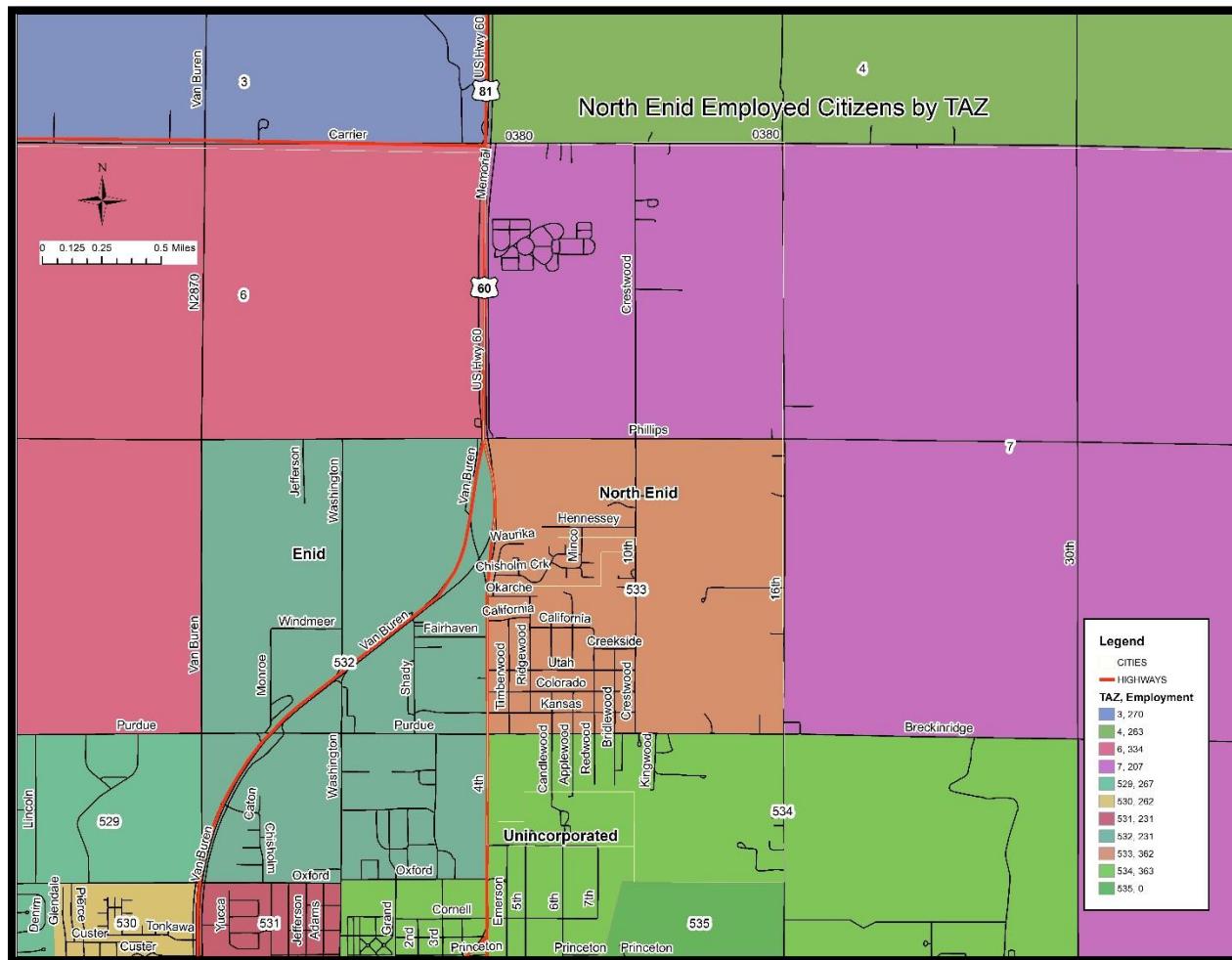
(Source: NORTPO)

Map 2.14 Town of Lahoma Employment by TAZ



(Source: NORTPO)

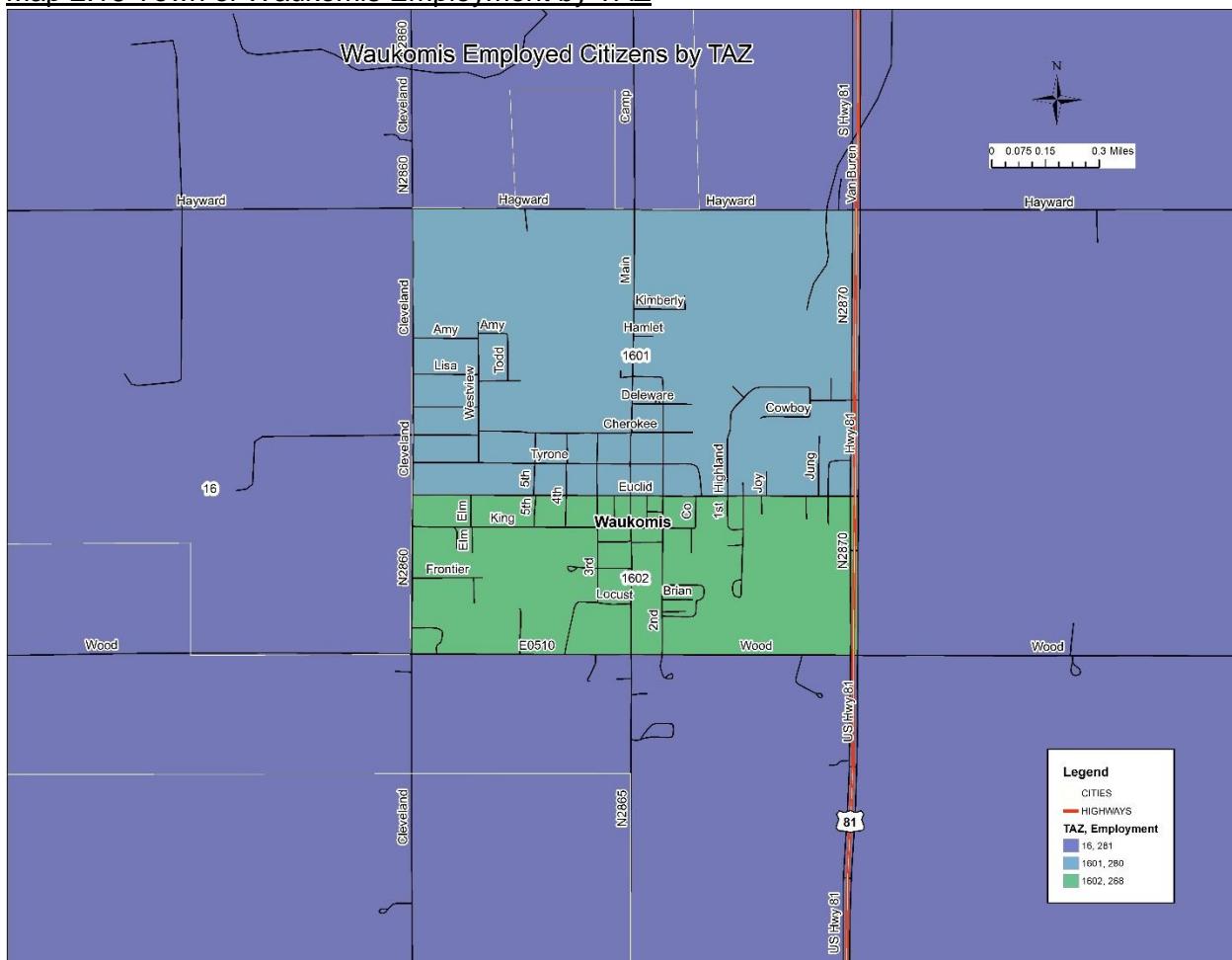
Map 2.15 Town of North Enid Employment by TAZ



(Source: NORTPO)

Garfield County 2039 Long Range Transportation Plan

Map 2.16 Town of Waukomis Employment by TAZ



(Source: NORTPO)

Table 2.6 Garfield County Historical Sites

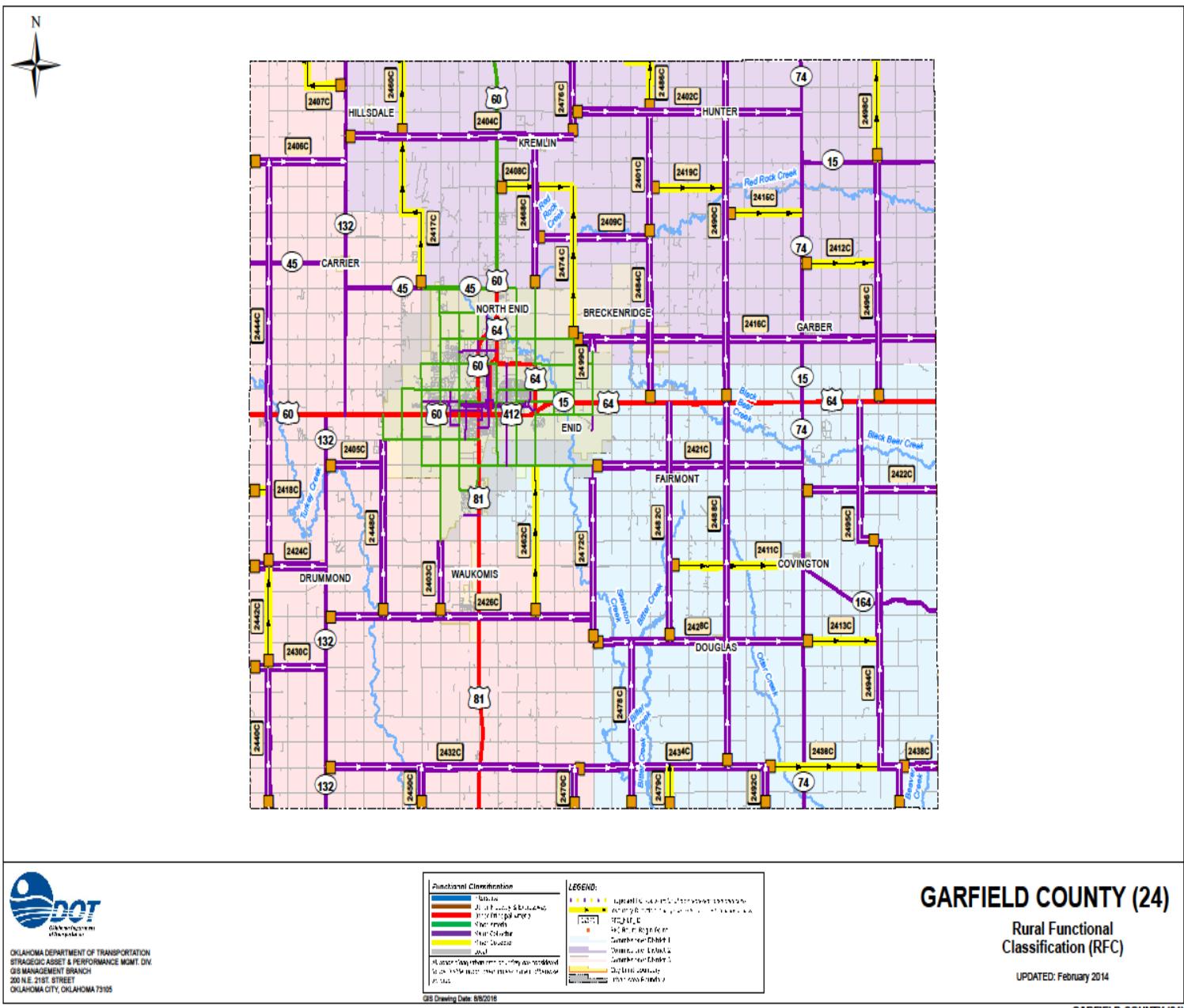
| Historical Site | Added | Located | Historical Function | Current Function | Owner |
|---|-------|--|---|---|-------------------------|
| Bank of Hunter | 1984 | Cherokee and Main St., Hunter | Commerce/Trade, Social | Commerce/Trade | Private |
| Broadway Tower | 1985 | 114 E Broadway St., Enid | Commerce/Trade | Commerce/Trade | Private |
| H.H. Champlin House | 1993 | 612 S Tyler, Enid | Domestic | Domestic | Private |
| T.T. Eason Mansion AKA Bob Herlihy Home | 1987 | 1305 W Broadway, Enid | Domestic | Domestic | Private |
| Enid Armory | 1988 | Sixth & Elm St., Enid | Defense | Defense | State |
| Enid Cemetery and Calvary Catholic Cemetery | 1996 | 200 blk of W. Willow, Enid | Cemetery | Cemetery | Private |
| Enid Downtown Historic District | 2007 | Roughly bounded by Maple Ave., 2 nd St., Cherokee Ave., and Adams St., Enid | Commerce/Trade, Domestic, Government, Industry/Processing/Extraction, Landscape, Recreation & Culture, Social | Commerce/Trade, Education, Government, Health Care, Industry/Processing/Extraction, Landscape, Recreation & Culture | Federal, Local, Private |
| Enid Masonic Temple AKA Knox Building | 1984 | W. Broadway and Washington, Enid | Commerce/Trade, Social | Commerce/Trade | Private |
| Enid Terminal Grain Elevators Historic District | 2009 | Near E. Willow Rd., N. 16 th St., N. 10 th St., and N. Van Buren St., Enid | Agriculture/Subsistence | Agriculture/Subsistence Vacant/Not In Use | Private |
| Garfield County Courthouse | 1984 | W. Broadway, Enid | Government | Government | Local |
| R.E. Hoy, No. 1 Oil Well | 1986 | Off US 64, Covington | Industry/Processing/Extraction | Industry/Processing/Extraction | Private |
| Jackson School AKA Community Care Center, Inc. | 1989 | 415 E. Illinois, Enid | Education | Education | Private |
| H.L. Kaufman House | 1985 | 1708 W. Maine, Enid | Domestic | Domestic | Private |
| Kenwood Historic District | 1985 | Bounded by Oak St., Maple, Washington and Madison, Enid | Domestic, Funerary, Religion | Commerce/Trade, Domestic, Funerary | Private |
| Kimmell Barn AKA Freese Barn | 1984 | NE of Covington, Covington | Agriculture/Subsistence | Agriculture/Subsistence | Private |

Garfield County 2039 Long Range Transportation Plan

| Historical Site | Added | Located | Historical Function | Current Function | Owner |
|--|-------|--|--|--|---------|
| Lamerton House | 1997 | 1520 W. Indian Dr., Enid | Domestic | Domestic | Private |
| McCrusty-Knox Mansion AKA Knox- Hedges Mansion | 1987 | 1323 W. Broadway, Enid | Domestic | Domestic | Private |
| Rock Island Depot | 1979 | 200 Owen K Garriott Blvd., Enid | Transportation | Vacant/Not In Use | Private |
| Sinclair Production Camp Machine Shop | 1986 | N. of Covington, Covington | Industry/ Processing/ Extraction | Industry/ Processing/ Extraction | Private |
| Waverly Historic District | 2006 | Roughly bounded by W Broadway Ave., N and S Tyler St., S. Harrison St., W. Oklahoma St. and S Buchanan St., Enid | Domestic, Religion | Domestic, Religion | Private |

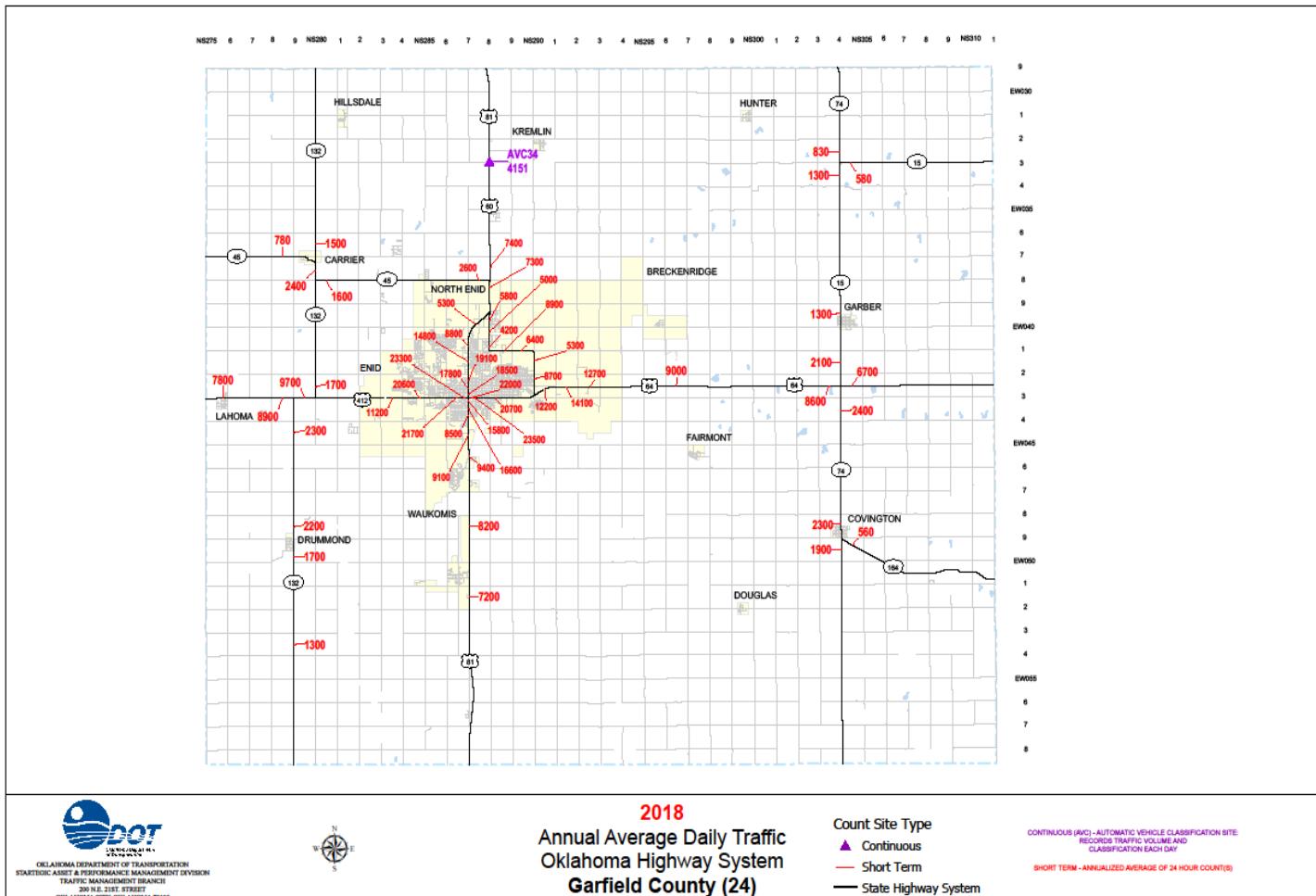
(Source: <https://nationalregisterofhistoricplaces.com/ok/garfield/state.html>)

Map 2.17 Garfield County Rural Functional Classification System



Garfield County 2039 Long Range Transportation Plan

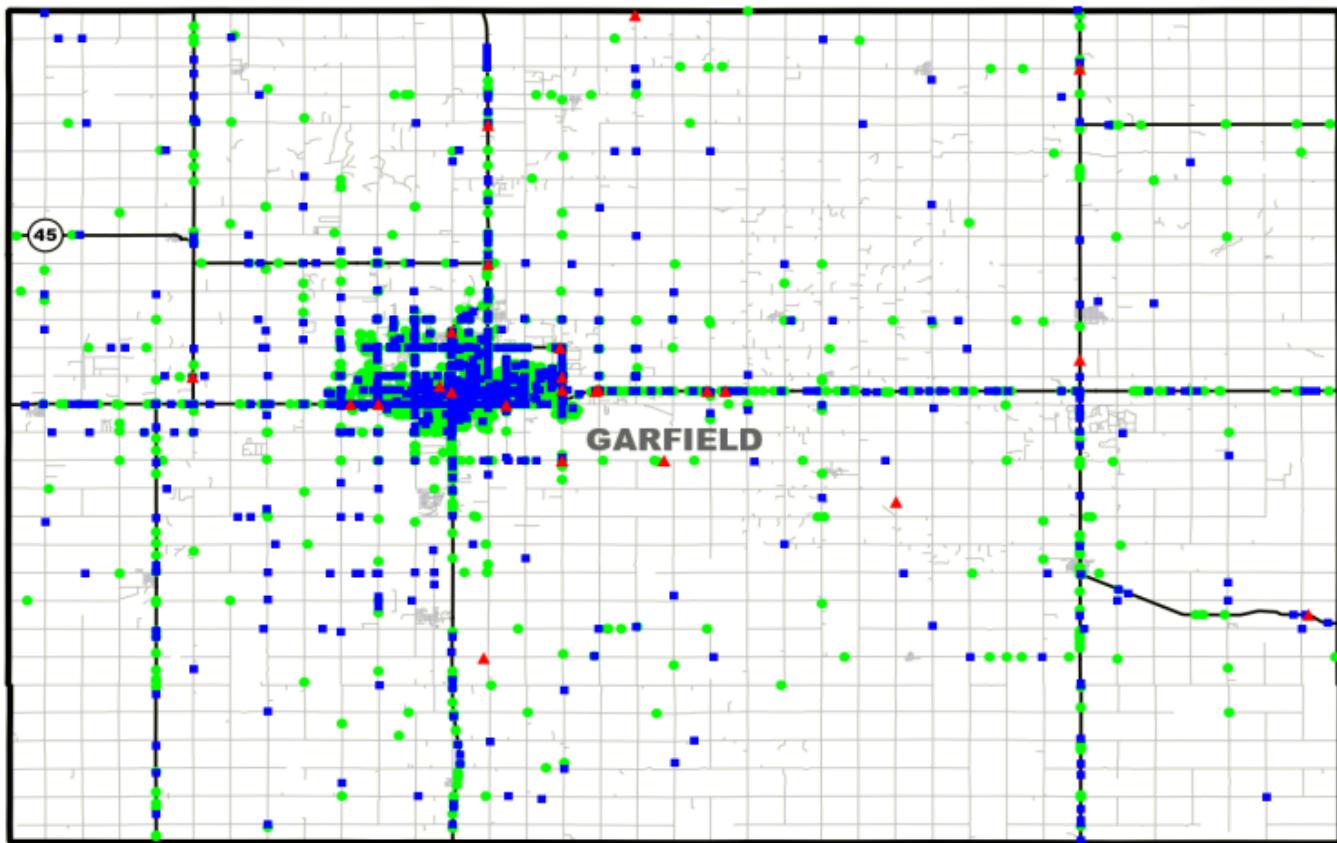
Map 2.18 Garfield County Annual Average Daily Traffic, 2018



OKLAHOMA DEPARTMENT OF TRANSPORTATION
 STRATEGIC ASSETS & PERFORMANCE MANAGEMENT DIVISION
 TRAFFIC MANAGEMENT BRANCH
 201 N.E. 21ST STREET
 OKLAHOMA CITY, OKLAHOMA 73105



Map 2.19 Garfield County Locations of Collisions for 2014-2018



Program Provided by:
Traffic Engineering Division
Collision Analysis and Safety Branch
(405) 522-0985
Created: 07/16/2019
by NODA2

Study Map & Totals



Garfield County 2039 Long Range Transportation Plan

Table 2.7 Crash Data for 2014-2018

| | 2014 | | | | | | | 2015 | | | | | | | 2016 | | | | | | |
|------------|------|-----------|---------------|----------|------|------|-----|-----------|---------------|----------|------|------|-----|-----------|---------------|----------|------|------|--|--|--|
| | Fat | Incap Inj | Non-Incap Inj | Poss Inj | PD | Tot | Fat | Incap Inj | Non-Incap Inj | Poss Inj | PD | Tot | Fat | Incap Inj | Non-Incap Inj | Poss Inj | PD | Tot | | | |
| Collisions | 4 | 23 | 161 | 157 | 1305 | 1650 | 4 | 17 | 169 | 184 | 1226 | 1600 | 9 | 39 | 152 | 191 | 1170 | 1561 | | | |
| Persons | 4 | 28 | 198 | 247 | | 477 | 4 | 18 | 220 | 304 | | 546 | 10 | 43 | 192 | 302 | | 547 | | | |

| | 2017 | | | | | | | 2018* | | | | | | | | | |
|------------|------|-----------|---------------|----------|-----|-----|------|-----------|---------------|----------|----|-----|-----|-----|------|--|--|
| | Fat | Incap Inj | Non-Incap Inj | Poss Inj | PD | Tot | Fat | Incap Inj | Non-Incap Inj | Poss Inj | PD | Tot | | | | | |
| Collisions | 5 | 24 | | 117 | 221 | 989 | 1356 | 4 | 17 | | 73 | | 181 | 877 | 1152 | | |
| Persons | 5 | 28 | | 144 | 317 | | 494 | 4 | 23 | | 98 | | 266 | | 391 | | |

* DENOTES A YEAR FOR WHICH DATA MAY BE INCOMPLETE.

| | Study Total | | | | | | | | | | | | |
|------------|-------------|-----------------------|--|--|---------------------------|--|--|-----------------|--|--|-----------------|--|--|
| | Fatality | Incapacitating Injury | | | Non-Incapacitating Injury | | | Possible Injury | | | Property Damage | | |
| Collisions | 26 | 120 | | | 672 | | | 934 | | | 5567 | | |
| Persons | 27 | 140 | | | 852 | | | 1436 | | | | | |

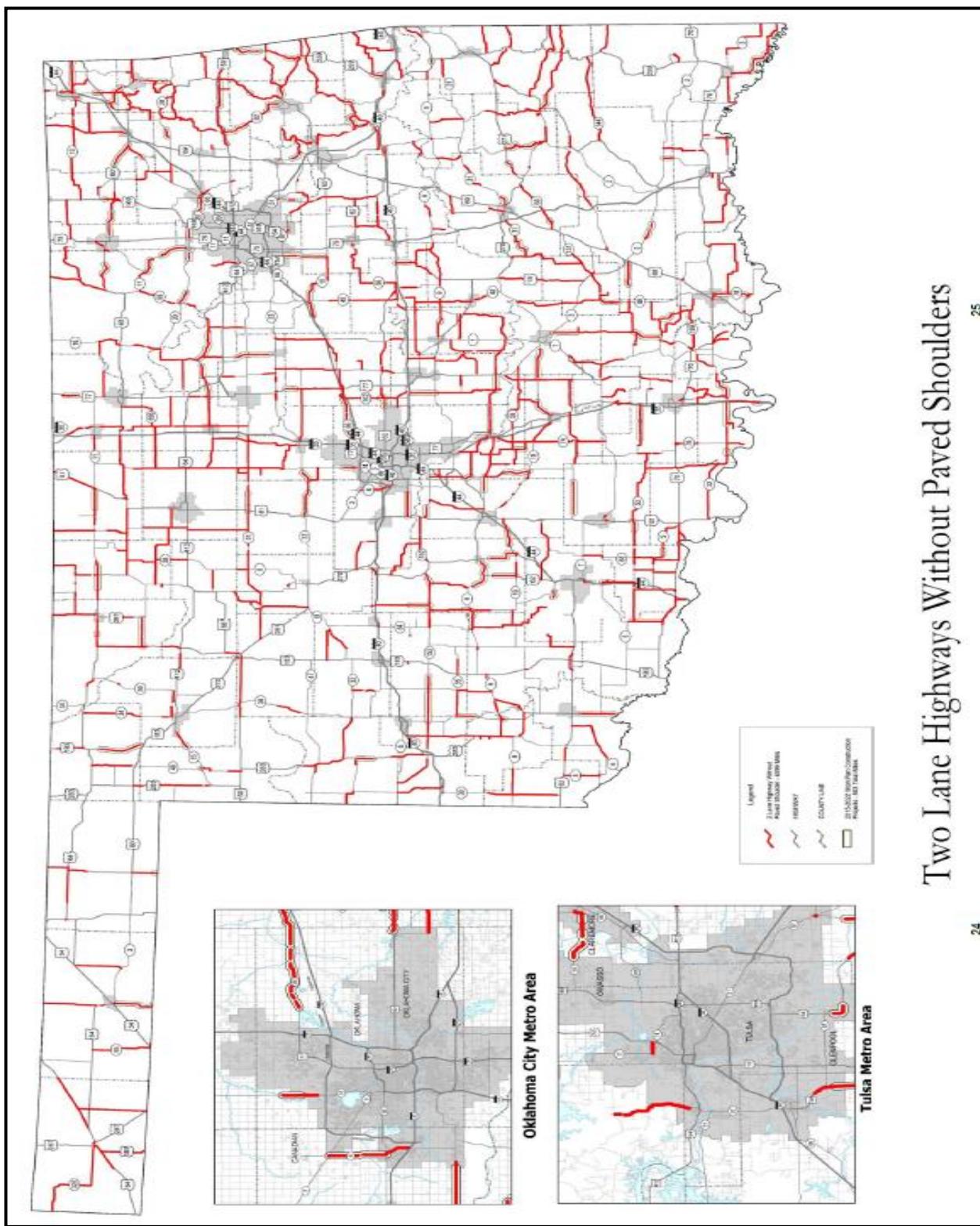
** NONMAPPABLE COLLISIONS ARE NOT PLOTTED ON THE MAP DUE TO INSUFFICIENT LOCATION INFORMATION.

| STUDY TOTALS | | | | | | | | | | | | | | | | | |
|--------------|--|--------------------|-------|------|------|------------------------|-------|------|------|------------------------|-------|-----|-----|------------------|-------|------|------|
| | | HIGHWAY COLLISIONS | | | | CITY STREET COLLISIONS | | | | COUNTY ROAD COLLISIONS | | | | TOTAL COLLISIONS | | | |
| Year | | Fat | Inj * | PD | Tot | Fat | Inj * | PD | Tot | Fat | Inj * | PD | Tot | Fat | Inj * | PD | Tot |
| 2014 | | 2 | 145 | 474 | 621 | 1 | 155 | 776 | 932 | 1 | 41 | 55 | 97 | 4 | 341 | 1305 | 1650 |
| 2015 | | 2 | 160 | 467 | 629 | 1 | 183 | 725 | 909 | 1 | 27 | 34 | 62 | 4 | 370 | 1226 | 1600 |
| 2016 | | 6 | 171 | 449 | 626 | 2 | 174 | 680 | 856 | 1 | 37 | 41 | 79 | 9 | 382 | 1170 | 1561 |
| 2017 | | 3 | 180 | 414 | 597 | | 160 | 542 | 702 | 2 | 22 | 33 | 57 | 5 | 362 | 989 | 1356 |
| 2018 * | | 3 | 123 | 350 | 476 | 1 | 124 | 501 | 626 | | 24 | 26 | 50 | 4 | 271 | 877 | 1152 |
| Total: | | 16 | 779 | 2154 | 2949 | 5 | 796 | 3224 | 4025 | 5 | 151 | 189 | 345 | 26 | 1726 | 5567 | 7319 |

* DENOTES A YEAR FOR WHICH DATA MAY BE INCOMPLETE.

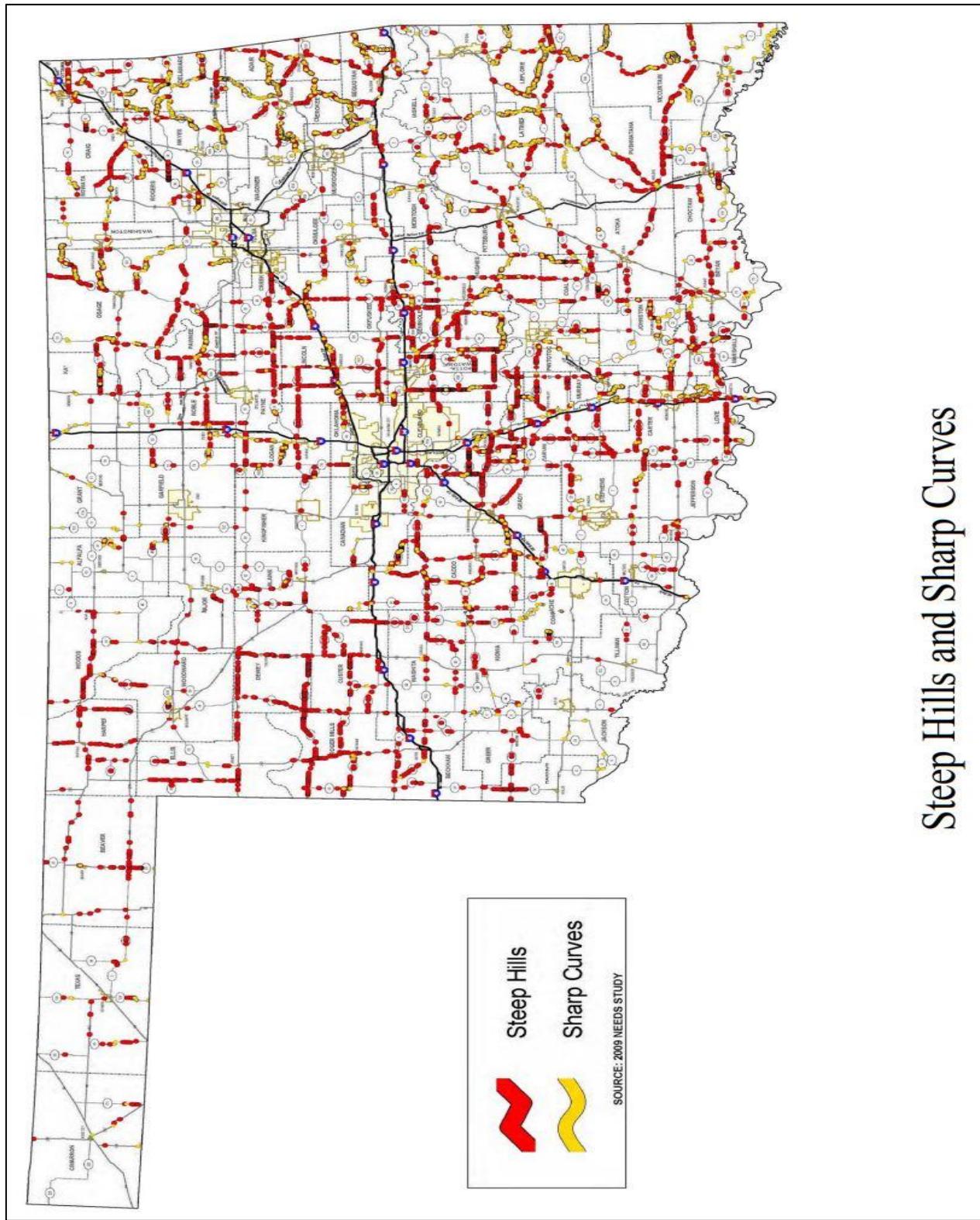
| County: (24) GARFIELD | | | | | | | | | | | | | | | | | |
|-----------------------|--|--------------------|-------|------|------|------------------------|-------|------|------|------------------------|-------|-----|-----|------------------|-------|------|------|
| | | HIGHWAY COLLISIONS | | | | CITY STREET COLLISIONS | | | | COUNTY ROAD COLLISIONS | | | | TOTAL COLLISIONS | | | |
| | | Fat | Inj * | PD | Tot | Fat | Inj * | PD | Tot | Fat | Inj * | PD | Tot | Fat | Inj * | PD | Tot |
| (00) - RURAL - | | 6 | 127 | 223 | 356 | | | | | 5 | 151 | 189 | 345 | 11 | 278 | 412 | 701 |
| (10) COVINGTON | | | 3 | 3 | | 1 | 1 | 2 | | | | | | 1 | 4 | 5 | |
| (20) DRUMMOND | | | 1 | 2 | 3 | | | 3 | 3 | | | | | 1 | 5 | 6 | |
| (25) ENID | | 10 | 645 | 1914 | 2569 | 5 | 793 | 3197 | 3995 | | | | | 15 | 1438 | 5111 | 6564 |
| (30) FAIRMONT | | | | | | | | 2 | 2 | | | | | | 2 | 2 | |
| (35) GARBER | | | 1 | | 1 | | | 3 | 3 | | | | | 1 | 3 | 4 | |
| (45) HUNTER | | | | | | | | 2 | 2 | | | | | | 2 | 2 | |
| (50) KREMLIN | | | | | | 1 | 2 | 3 | | | | | | 1 | 2 | 3 | |
| (55) LAHOMA | | | 1 | 2 | 3 | | | | | | | | | 1 | 2 | 3 | |
| (60) N. ENID | | | | | | 1 | 12 | 13 | | | | | | 1 | 12 | 13 | |
| (65) WAUKOMIS | | | 2 | 3 | 5 | | | 1 | 1 | | | | | 2 | 4 | 6 | |
| (70) CARRIER | | | 2 | 7 | 9 | | | 1 | 1 | | | | | 2 | 8 | 10 | |
| Total: | | 16 | 779 | 2154 | 2949 | 5 | 796 | 3224 | 4025 | 5 | 151 | 189 | 345 | 26 | 1726 | 5567 | 7319 |

Map 2.20 Locations of Two-Lane Highways with no Paved Shoulder



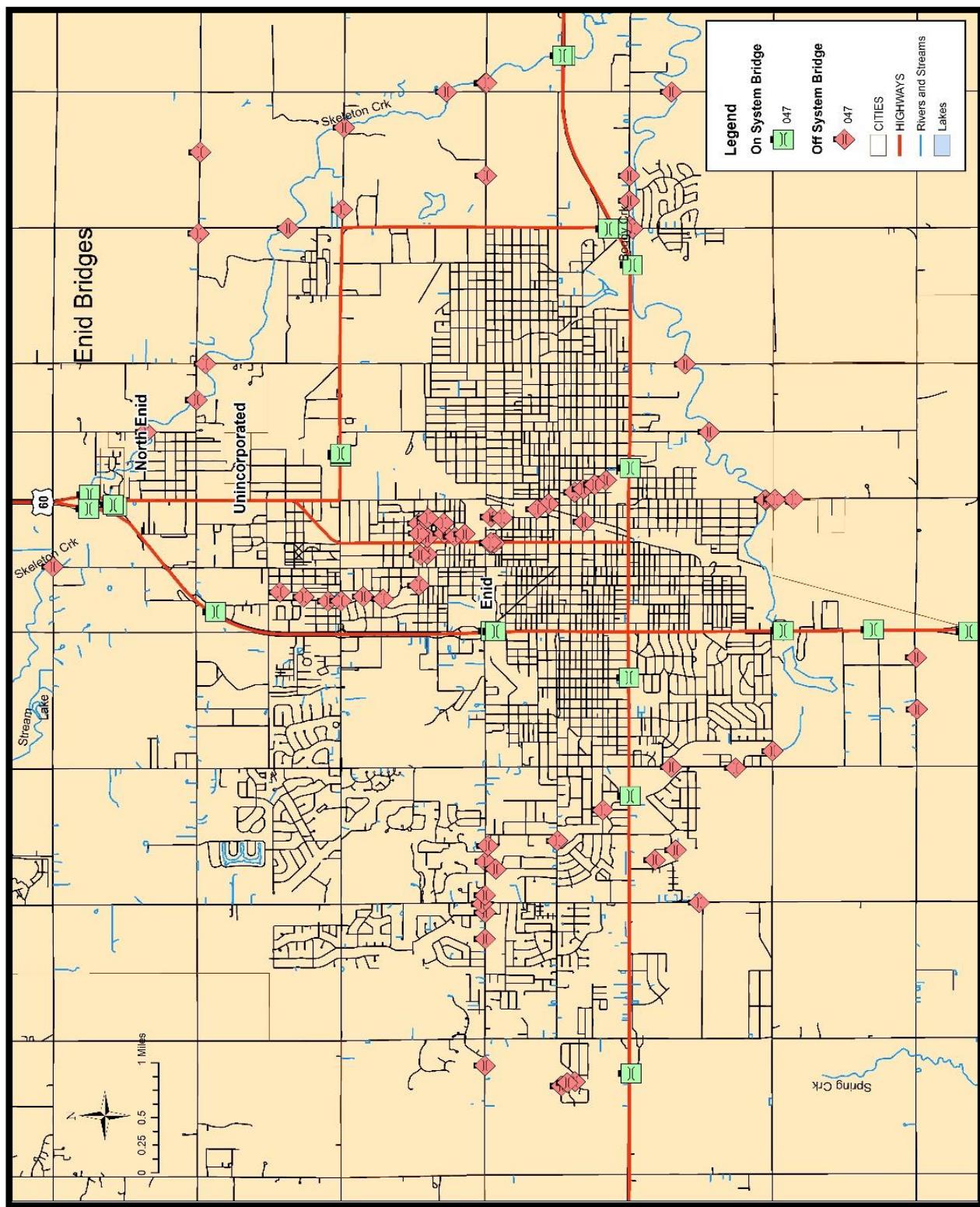
(Source: ODOT)

Map 2.21 Steep Hill and Sharp Curves Areas of Concern (Statewide)



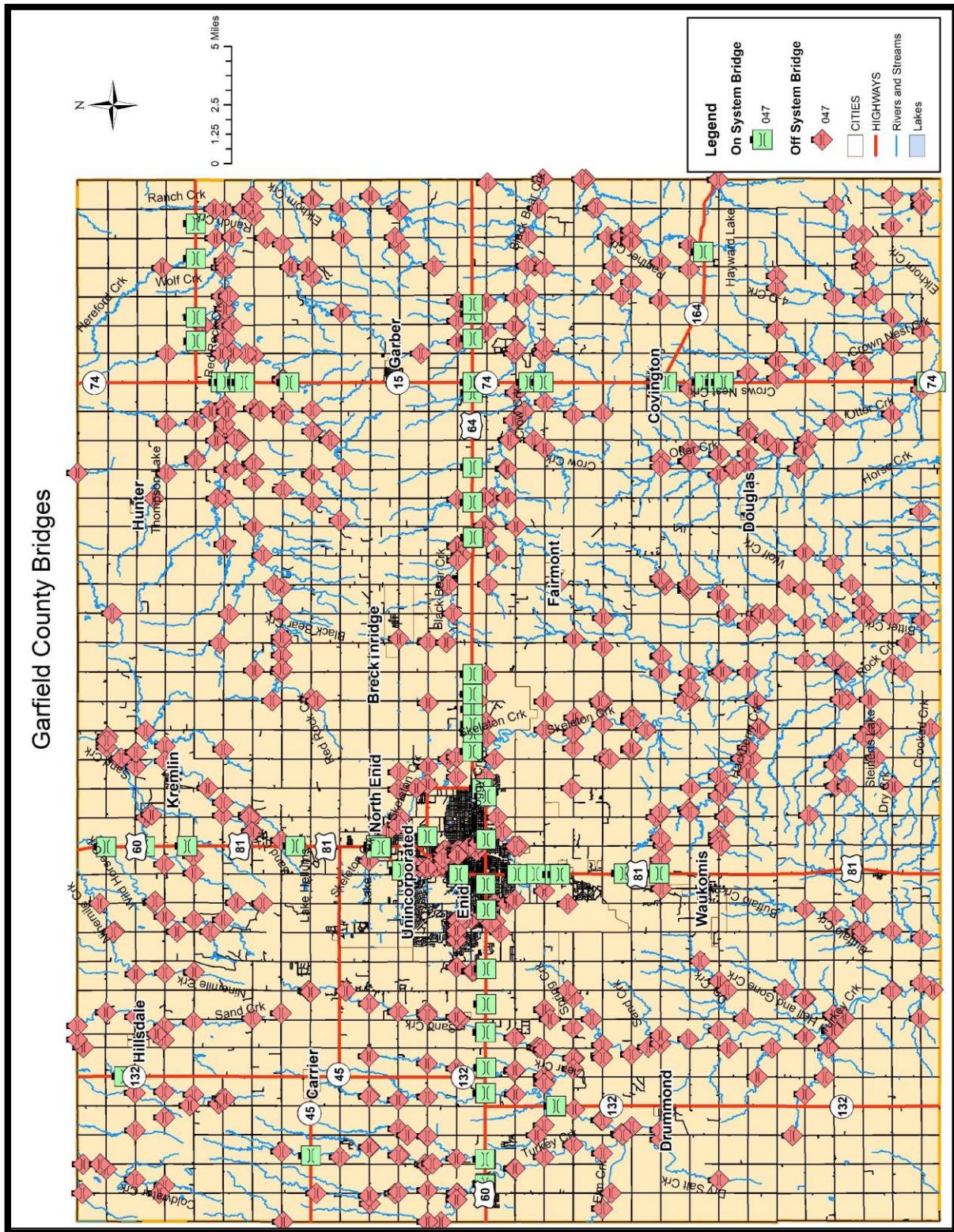
(Source: ODOT)

Map 2.22 City of Enid Bridges



(Source: NORTPO)

Map 2.23 Garfield County Bridges



(Source: NORTPO)

Table 2.8 Garfield County On System Bridges

| CROSSES | LOCATION | RATING% | STATUS |
|-------------------|---------------------------|---------|------------------------|
| CREEK | 6.5N 4.7E of US64/SH74 | 24.7 | Structurally deficient |
| CREEK | 3S 2.3E of HUNTER | 26.1 | Structurally deficient |
| SKELETON CREEK | 8E .6S of BISON | 57.2 | |
| BITTER CREEK | 3.4W .5S of DOUGLAS | 25.2 | Structurally deficient |
| CREEK | 2N 1.7 E OF KREMLIN | 25.7 | Structurally deficient |
| RED ROCK CREEK | 3S 3.3E OF HUNTER | 23.2 | Structurally deficient |
| CREEK | 5S 1E 2S 1.1E OF HAYWARD | 48.5 | Functionally obsolete |
| WOLF CREEK | .7N 9E .2N OF BISON | 19.9 | Structurally deficient |
| CREEK | 1N 3.6E OF COVINGTON | 43.0 | Functionally obsolete |
| CROW'S NEST CREEK | 4.6E 4S .7E OF DOUGLAS | 23.2 | Structurally deficient |
| CROW'S NEST CREEK | 7S .5E OF COVINGTON | 17.9 | Structurally deficient |
| SPRING CREEK | 5E 4S .2E OF LAHOMA | 38.0 | Structurally deficient |
| BLACK BEAR CREEK | 3E 2S OF US64/SH74 | 66.5 | Functionally obsolete |
| CREEK | .4S 2.5E 2.2N OF WAUKOMIS | 52.5 | Structurally deficient |
| CREEK | 2.5S .7W OF US64/SH74 | 31.9 | Structurally deficient |
| CREEK | 5.5 MI E JCT SH 74 | 95.3 | |
| BLACK BEAR CREEK | .5N 6.2W OF SH74/US64 | 30.5 | Structurally deficient |
| CREEK | 1.5 MI E JCT SH 74 | 83.0 | |
| CREEK | 1.5S 1.1E OF US64/SH74 | 52.0 | Structurally deficient |
| CREEK | 2.2E 2.7S OF HUNTER | 84.0 | |
| CREEK | .1N 1.4W OF HILLSDALE | 79.0 | |
| SPRING CREEK | 7E 2.8S OF LAHOMA | 79.2 | |
| CREEK | 7.E 3. S OF HUNTER | 38.0 | Structurally deficient |
| CREEK | .5S 2.8E OF US64/SH74 | 37.0 | Structurally deficient |
| CREEK | 4E 2.2S OF SH74/US64 | 24.5 | Structurally deficient |
| CREEK | 2.5S 3.9E OF US64/SH74 | 28.5 | Structurally deficient |
| CREEK | 4.2E 1.6N OF COVINGTON | 81.1 | |
| CREEK | 1.6E 1.7S OF DOUGLAS | 93.0 | Functionally obsolete |
| CREEK | 2.4W 1N .3W OF DOUGLAS | 96.0 | |
| SAND CREEK | 0.6 MI E OF HILLSDALE | 68.0 | Structurally deficient |
| CREEK | AT US 64/30 ST | 49.6 | |
| CREEK | AT US 64/30 ST OLD US64 | 49.6 | |
| NINE MILE CREEK | 4.0W & 2.1N OF KREMLIN | 33.0 | Structurally deficient |
| CREEK | 4.8E 4.4N OF GARBER | 23.0 | Structurally deficient |
| CREEK | .4S 5W .9S OF BISON | 61.7 | Functionally obsolete |
| CREEK | .5S 5.2W OF US64 & SH74 | 97.0 | |
| HACKBERRY CREEK | .6N 1.5E .9N OF WAUKOMIS | 29.5 | Structurally deficient |
| SAND CREEK | 7.3 MI N JCT US 412 | 69.9 | |
| PANTHER CREEK | 6E 4.4S OF SH74/US64 | 42.6 | Structurally deficient |
| CREEK | 1.E 1.8N OF US64/SH74 | 38.0 | Structurally deficient |
| CREEK | .4S 7E .3S OF BISON | 22.5 | Structurally deficient |
| CREEK | 6.1E 2.3S OF HUNTER | 95.0 | |
| RED ROCK CREEK | 1.9W 4.3S OF HUNTER | 31.9 | Structurally deficient |
| DRY CREEK | .4S 2.5W .6N OF WAUKOMIS | 85.8 | |

Garfield County 2039 Long Range Transportation Plan

| CROSSES | LOCATION | RATING% | STATUS |
|----------------------|---------------------------|---------|------------------------|
| CREEK | 5 MI E JCT SH 74 | 95.5 | |
| CROW CREEK | 2.5S 2.3W OF US64/SH74 | 67.0 | Structurally deficient |
| CREEK | 2.5S 1.3E OF US 64/SH74 | 52.0 | Structurally deficient |
| CREEK | 11.2N OF LAHOMA | 54.3 | Structurally deficient |
| CREEK | 1E 2.1N OF LAHOMA | 47.5 | Structurally deficient |
| BITTER CREEK | .4W 2S 3.3W OF DOUGLAS | 38.3 | Structurally deficient |
| OTTER CREEK | 5S 2.4W OF COVINGTON | 23.2 | Structurally deficient |
| CREEK | 3N 5.5W OF DOUGLAS | 96.0 | |
| CREEK | 4W 1.2S OF US64/SH74 | 78.8 | |
| CREEK | 3.2N 2.8E OF DRUMMOND | 75.7 | |
| CREEK | 1.4S 4.9E OF WAUKOMIS | 69.2 | |
| CREEK | 1.0 MI E OF KREMLIN | 75.2 | |
| CREEK | AT US 64/74 ST | 97.0 | |
| CREEK | 1S .1W OF COVINGTON | 19.4 | Structurally deficient |
| CREEK | 1.1 MI E OF US81 | 64.8 | Functionally obsolete |
| CREEK | .6N.5E1N1.3E OF WAUKOMIS | 68.8 | Functionally obsolete |
| OTTER CREEK | 1.6E 1N .5E OF DOUGLAS | 23.2 | Structurally deficient |
| CREEK | 1.6N 7W .2N OF BISON | 65.4 | |
| CREEK | 1.4S 4W .4S OF BISON | 28.5 | Structurally deficient |
| 4-D CREEK | 2S .7W OF HAYWARD | 21.8 | Structurally deficient |
| BUFFALO CREEK | 2.5N 1.2W OF BISON | 79.2 | |
| CREEK | 3S 4.3E US81/US64 | 52.5 | Structurally deficient |
| CREEK | 2.7N 6E OF WAUKOMIS | 84.0 | |
| SAND CREEK | 0.9 MI E OF KREMLIN | 89.1 | |
| SKELETON CREEK TRIB. | .6N 6E .8N OF BISON | 97.0 | |
| WOLF CREEK | 1.2W 2S OF DOUGLAS | 34.9 | Structurally deficient |
| CREEK | 2S 2.3E OF LAHOMA | 96.0 | |
| CREEK | 2.5N 5.9E OF US64/SH74 | 88.8 | |
| CREEK | 6.6 MI N JCT SH 45 | 77.5 | |
| CREEK | .4S 6.5W 1.3S OF WAUKOMIS | 47.4 | Structurally deficient |
| CREEK | 4W .4S OF US64/SH74 | 63.0 | Structurally deficient |
| CREEK | 6.3 MI N JCT US 64 | 91.8 | |
| CREEK | 2N .9 E OF LAHOMA | 45.7 | Structurally deficient |
| CREEK | 11.7 MI E MAJOR C/L | 79.9 | |
| BLACK BEAR CREEK | 1E 2.4S OF SH74/US64 | 76.5 | |
| CREEK | 1.0E & 8.9N SH132/SH45 | 24.4 | Structurally deficient |
| CREEK | 4.8E 1.9S OF KREMLIN | 57.2 | Structurally deficient |
| CREEK | 2.4W 1.4S OF DOUGLAS | 97.0 | |
| CREEK | 5N 1.3E OF LAHOMA | 53.2 | Functionally obsolete |
| CREEK | 2S .3E OF US412/IMO RD | 97.0 | |
| CREEK | .6N 1.1W OF BISON | 78.2 | |
| CREEK | AT US 64 & BRECKINRIDGE | 85.0 | |
| CREEK | 2N 3.4E OF COVINGTON | 96.0 | |
| CREEK | 5.5N 3.6E OF US64/SH74 | 96.0 | |
| CREEK | .1N 1.8W OF HILLSDALE | 52.0 | Structurally deficient |

Garfield County 2039 Long Range Transportation Plan

| CROSSES | LOCATION | RATING% | STATUS |
|-------------------------|---------------------------|---------|------------------------|
| SAND CREEK | 2N 1.5E OF KREMLIN | 55.5 | Structurally deficient |
| CREEK | AT US 64/54 ST | 84.5 | |
| SKELETON CREEK TRIB. | .6N 6E .6N OF BISON | 97.0 | |
| CREEK | 8.2 MI N JCT US 64 | 92.8 | |
| CREEK | 8 MI N JCT US 64 | 94.6 | |
| CREEK | .6W 4.1N OF CARRIER | 30.3 | Structurally deficient |
| CREEK | 4.8E 1.7N OF GARBER | 96.0 | |
| CREEK | 1.E 1. S OF HUNTER | 89.0 | |
| E0427 UNDER | 1E OF US60 | | |
| N2970 UNDER | SW CORNER OF FAIRMONT | | |
| CREEK | 0.2 MI S OF HILSDALE | 83.3 | |
| CREEK | 2E 1.7S OF LAHOMA | 96.0 | |
| CREEK | .4S 5.5W .3S OF WAUKOMIS | 96.0 | |
| CREEK | 1E 1.9N OF LAHOMA | 64.5 | |
| BUFFALO CREEK | .6N 2.2W OF BISON | 66.6 | |
| CREEK | 3.S 1.4W OF HUNTER | 75.7 | |
| CREEK | 2E .7N OF KREMLIN | 57.3 | Structurally deficient |
| CREEK | 5E 4.5N OF SH132/SH45 | 33.2 | Structurally deficient |
| CREEK | .2W 2.3N OF FAIRMONT | 86.0 | |
| CREEK | 2.1E 4.4S OF BRECKINRIDGE | 93.3 | |
| CREEK | .4S 1.5E .1S OF WAUKOMIS | 83.3 | |
| CREEK | .4S 4.5E .6S OF WAUKOMIS | 96.0 | |
| CREEK | AT US 81 & PHILLIPS RD | 84.0 | |
| CREEK | 1.E 4. N OF BRECKINRIDGE | 96.0 | |
| CREEK | 5.S .4E OF HUNTER | 96.0 | |
| SKELETON CREEK | .8 N OF US64 ON 42ND | 64.7 | |
| CREEK | 1E 13.8N OF LAHOMA | 83.0 | |
| DRY CREEK | .3E.3N3E2.9S OF DRUMMOND | 41.0 | Structurally deficient |
| ELKHORN CREEK | 4.5N 6.1E OF US64/SH74 | 65.4 | |
| CREEK | 5W 1.6S OF US64/SH74 | 96.0 | |
| CREEK | 2.4W 2.9N OF DOUGLAS | 97.0 | |
| CREEK | 2.4W 2N OF DOUGLAS | 100 | |
| CREEK | .5 S .2 W OF HILSDALE | 70.4 | |
| BUFFALO CREEK | 1.6N 1.5W OF BISON | 82.3 | |
| CREEK | 2.5N & 4.8E SH74/US64 | 89.0 | |
| CREEK | 4.S .5E OF HUNTER | 85.0 | |
| CREEK | 2 S 2.6 E OF HUNTER | 70.0 | Structurally deficient |
| CREEK | .4S 5.5E 2.6N OF WAUKOMIS | 67.0 | Structurally deficient |
| CREEK | 5.E 1. S OF HUNTER | 96.0 | |
| NINE MILE CREEK | 2.6E 1S OF HILSDALE | 40.9 | Structurally deficient |
| SAND CREEK | .5S .2E OF HILSDALE | 77.9 | |
| HACKBERRY CR. O'FLOW | .4S 3.9E OF WAUKOMIS | 97.0 | |
| CREEK | 2.9E OF DOUGLAS | 52.9 | Structurally deficient |
| CREEK | 3E OF DOUGLAS | 96.9 | |

Garfield County 2039 Long Range Transportation Plan

| CROSSES | LOCATION | RATING% | STATUS |
|------------------------|---------------------------|---------|------------------------|
| HEREFORD CREEK | 8.5N & 5.9E SH74 & US64 | 49.3 | Structurally deficient |
| SKELETON CREEK | .8S 5.4W OF FAIRMONT | 39.0 | Structurally deficient |
| CREEK | 3.1N OF LAHOMA | 96.9 | |
| CREEK | .1N.3W1S2.4W OF HILLSDALE | 67.8 | Functionally obsolete |
| CREEK | 2.8W 3. N OF BRECKINRIDGE | 38.0 | Structurally deficient |
| CREEK | .5N 1.5E OF SH74/US64 | 97.0 | |
| CREEK | .9N OF US412 ON IMO RD. | 63.0 | |
| WILD HORSE CREEK | 4W .3N OF KREMLIN | 48.4 | Structurally deficient |
| BLACK BEAR CREEK | .5S 4.9W OF US64/SH74 | 49.6 | |
| CREEK | 1. E 3.9 S OF HILLSDALE | 63.0 | |
| SAND CREEK | .4E .3N 2.9E OF CARRIER | 52.2 | Structurally deficient |
| CREEK | 1.1E 1N .2E OF LAHOMA | 96.0 | |
| DRY SALT CREEK | .3E 1.8S 2.6W OF DRUMMOND | 91.0 | |
| WOLF CREEK | 8.2E & 3.0S OF HUNTER | 20.1 | Structurally deficient |
| SAND CREEK | .2 MI N LOGAN C/L | 96.1 | |
| CREEK | 8 MI N LOGAN C/L | 96.1 | |
| CREEK | 9.3 MI N LOGAN C/L | 95.1 | |
| CREEK | 7.3 MI N LOGAN C/L | 96.1 | |
| CREEK | 7.5 MI N LOGAN C/L | 95.1 | |
| RED ROCK CREEK | .1 E 3.1 S OF HUNTER | 89.9 | |
| OTTER CREEK | .5 MI N LOGAN C/L | 76.8 | |
| BUFFALO CREEK | .4S 1.9E OF WAUKOMIS | 68.9 | |
| CREEK | 1.7 S JCT US 60 ENID | 69.7 | |
| CREEK | 1.6W 1N .6W OF CARRIER | 53.4 | Structurally deficient |
| CREEK | .5N 4.1W OF SH74/US64 | 27.0 | Structurally deficient |
| CREEK | 1.S 2.6E OF HUNTER | 44.3 | Structurally deficient |
| CREEK | 4.5N 2.3E OF US64 & SH74 | 26.2 | Structurally deficient |
| BLACK BEAR CREEK TRIB. | .1E 1.9S OF BRECKINRIDGE | 82.0 | |
| BITTER CREEK | .5N 9E OF BISON | 28.5 | Structurally deficient |
| CREEK | 2. N .7 E OF HILLSDALE | 38.9 | Structurally deficient |
| CREEK | 1W 6.9N OF LAHOMA | 49.2 | Structurally deficient |
| CREEK | 3.1E 2.5S OF HUNTER | 44.5 | Structurally deficient |
| PANTHER CREEK | 1N 4.9E OF COVINGTON | 24.2 | Structurally deficient |
| BOGGY CREEK | .5S OF US412 | 82.2 | |
| WEST BOGGY CREEK | .8S OF US412 IN ENID | 71.0 | |
| CREEK | 2N 3.3E OF LAHOMA | 39.0 | Structurally deficient |
| DRY CREEK | .4S 3.1W OF WAUKOMIS | 96.9 | |
| BUFFALO CREEK | .4S 1.6E OF WAUKOMIS | 97.0 | |
| CREEK | 1.7E OF DOUGLAS | 96.9 | |
| CREEK | 1.1E 3.4S OF HUNTER | 52.5 | |
| OTTER CREEK | 2.3E OF DOUGLAS | 96.9 | |
| CREEK | .2 MI N OF WILLOW ST | 96.8 | |
| GRAND AVE. UNDER | .9 N US 412 ON GRAND AVE. | | |
| BLACK BEAR CREEK | 4E 2S OF SH74/US64 | 60.8 | Functionally obsolete |

Garfield County 2039 Long Range Transportation Plan

| CROSSES | LOCATION | RATING% | STATUS |
|---------------------------|---------------------------|---------|------------------------|
| BLACK BEAR CREEK | 7E 2.6S OF SH74/US64 | 57.0 | |
| BNSF R.R., 2 ROADS UND | .9 MI N JCT US 412 | 42.6 | Structurally deficient |
| TURKEY CREEK TRIB. | .3E.3N3E3.8N OF DRUMMOND | 96.9 | |
| BITTER CREEK | 3.4W .7N OF DOUGLAS | 54.1 | |
| RED ROCK CREEK | 1.8W 4. N OF BRECKINRIDGE | 32.0 | Structurally deficient |
| RED ROCK CREEK | 1.3W 4. N OF BRECKINRIDGE | 34.3 | Structurally deficient |
| CREEK | 6.1E OF N ENID | 96.9 | |
| CREEK | 2. N .8 E OF HUNTER | 35.0 | Structurally deficient |
| CROW CREEK | 2W 2.1S OF US64/SH74 | 61.2 | |
| CREEK | 2.9 MI N JCT US 412 | 68.2 | |
| CREEK | .1 E 2.7 S OF HUNTER | 52.9 | Structurally deficient |
| SKELETON CREEK | 4 MI N JCT US 412 | 85.0 | |
| SKELETON CREEK | 4 MI N JCT US 412 | 100 | |
| HELL AND GONE CREEK | 1.6N 4.9W OF BISON | 30.8 | Structurally deficient |
| TURKEY CREEK | .3E 1.7S 2.6E OF DRUMMOND | 66.7 | |
| SKELETON CREEK | 5.4W OF DOUGLAS | 77.8 | |
| CREEK | AT US 60 & BRECKINRIDGE | 96.8 | |
| CREEK | AT US 81 & BRECKINRIDGE | 68.6 | |
| CREEK | .4S 5.5W 1.8S OF WAUKOMIS | 63.6 | |
| CREEK | .6N 3.5E .1S OF WAUKOMIS | 96.0 | |
| CREEK | 4.8 MI S US 60 IN ENID | 69.7 | |
| CREEK | 0.3E OF VAN BUREN ON WILL | 76.4 | Functionally obsolete |
| CREEK | 5S 1W .3S OF HAYWARD | 20.0 | Structurally deficient |
| HACKBERRY CREEK | 1.4S 4E OF WAUKOMIS | 39.9 | Structurally deficient |
| CREEK | 10.6 MI E MAJOR C/L | 66.9 | |
| BOGGY CREEK | .9S OF US412 | 85.0 | |
| HACKBERRY CREEK | .6N.5E1N2.1E OF WAUKOMIS | 26.5 | Structurally deficient |
| CREEK | .3W 1.7S 1.2W OF FAIRMONT | 90.0 | |
| CREEK | AT US 64/66 ST | 41.7 | Structurally deficient |
| CREEK | 2.4W 2N 3.1W OF DOUGLAS | 49.2 | |
| TURKEY CREEK | 2S 1.2E OF LAHOMA | 50.0 | Structurally deficient |
| TURKEY CREEK | .3N 2.4E OF DRUMMOND | 49.5 | |
| CREEK | 0.1 MI S OF US64 | 67.4 | |
| CREEK | 2.S 1.1W OF KREMLIN | 86.0 | |
| SAND CREEK | 2.S .7 W OF KREMLIN | 70.0 | Structurally deficient |
| CREEK | 2.3 MI E JCT SH 74 | 95.3 | |
| 4-D CREEK | 7S 2.8E OF COVINGTON | 34.2 | Structurally deficient |
| U.S. 64 UNDER | 2.5 MI SE JCT 64 N | | |
| CREEK | .1E .5S OF HUNTER | 70.0 | Structurally deficient |
| CREEK | .4E 2.7S .7W OF CARRIER | 55.5 | |
| CREEK | 2S & 3E US 64/30TH ST | 99.9 | |
| SKELETON CREEK | 6.4W 2.2N OF DOUGLAS | 74.2 | |
| CREEK | .3N .7W 4.6S OF DRUMMOND | 64.7 | |
| CREEK | 5.9 MI E JCT US 81 | 69.5 | |

Garfield County 2039 Long Range Transportation Plan

| CROSSES | LOCATION | RATING% | STATUS |
|----------------------|--------------------------|---------|------------------------|
| CREEK | 5.2 MI E JCT US 81 | 69.5 | |
| CREEK | 6.9 MI E JCT US 81 | 69.5 | |
| CREEK | 10.5 MI N JCT US 412 | 69.9 | |
| CREEK | 5.7 MI E JCT US 81 | 69.5 | |
| CREEK | 12.8 MI E JCT US 81 | 69.5 | |
| CREEK | 14.1 MI E JCT US 81 | 69.5 | |
| CREEK | 16.6 MI E JCT US 81 | 69.5 | |
| CREEK | 12 MI N JCT US 412 | 86.5 | |
| BLACK BEAR CREEK | 4W .7S OF US64/SH74 | 48.5 | |
| CREEK | 6.2 MI E JCT US 81 | 69.5 | |
| WILD HORSE CREEK | 13.3 MI N JCT US 412 | 90.1 | |
| SKELETON CREEK | 4.3 MI E JCT US 81 | 87.0 | |
| BLACK BEAR CREEK | 11.6 MI E JCT US 81 | 54.0 | Structurally deficient |
| CREEK | 0.6 MI S OF WILLOW | 94.5 | |
| SKELETON CREEK TRIB. | 6.4W 5.1N OF DOUGLAS | 96.9 | |
| WOLF CREEK | .4W 3S 1.2W OF DOUGLAS | 54.6 | Functionally obsolete |
| CREEK | 0.1 MI E OF CLEVELAND | 63.6 | Structurally deficient |
| SAND CREEK | 1.9S .7E OF HILLSDALE | 62.6 | Structurally deficient |
| BUFFALO CREEK | .4S 2.W OF BISON | 82.0 | |
| CREEK | 5.5N 4.2W OF US64/SH74 | 69.3 | |
| CREEK | 7.2 MI E MAJOR C/L | 69.9 | |
| CREEK | 19.4 MI E JCT US 81 | 71.3 | |
| CREEK | 19.7 MI E JCT US 81 | 71.3 | |
| CREEK | 8.6 MI E MAJOR C/L | 66.9 | |
| CREEK | 18.4 MI E JCT US 81 | 71.3 | |
| CREEK | 3 MI E .1 S US64 | 98.0 | |
| WILD HORSE CREEK | 4.6 MI W OF KREMLIN | 100 | |
| SAND CREEK | 3.S 1.1W OF KREMLIN | 38.0 | Structurally deficient |
| CREEK | 5.2 MI E MAJOR C/L | 69.9 | |
| SKELETON CREEK | 6.9E OF WAUKOMIS | 38.0 | Structurally deficient |
| CREEK | 4.5 MI E MAJOR C/L | 89.0 | |
| CLEAR CREEK | 6.4 MI E MAJOR C/L | 89.0 | |
| CREEK | 1.6N 2E .8N OF BISON | 43.5 | Structurally deficient |
| WILD HORSE CREEK | 5.W 2. S OF KREMLIN | 45.5 | Structurally deficient |
| CREEK | 1.5N & 8.9W SH74 & US64 | 97.0 | |
| SPRING CREEK | .3E.3N3E2.3N OF DRUMMOND | 69.9 | Structurally deficient |
| SAND CREEK | .4E 2.7S 2.3E OF CARRIER | 61.2 | |
| HACKBERRY CREEK | .4S 3.2E OF WAUKOMIS | 85.9 | |
| ROCK CREEK | .6N 6E .2S OF BISON | 67.4 | |
| HEREFORD CREEK | 4.3 MI E JCT SH 74 | 94.3 | |
| SKELETON CREEK | 2S 2E JCT64/30TH ST. | 88.4 | |
| CREEK | 3.1 MI E JCT 81 ENID | 69.3 | |
| NINE MILE CREEK | 1.9S 2.4E OF HILLSDALE | 81.8 | |
| WILD HORSE CREEK | 1.9S 4.2E OF HILLSDALE | 46.2 | Structurally deficient |
| SAND CREEK | 2W 4S .2E OF KREMLIN | 78.2 | |

Garfield County 2039 Long Range Transportation Plan

| CROSSES | LOCATION | RATING% | STATUS |
|------------------|-----------------------------|---------|------------------------|
| CREEK | 2.7 E JCT US81 ENID | 69.5 | |
| CREEK | 4.1E 1. N .3E OF LAHOMA | 50.5 | |
| U.S. 64 UNDER | 3.1 MI E JCT 81 ENID | 87.0 | |
| U.S. 64 UNDER | 3.1 MI E JCT US 81 | 87.0 | |
| CREEK | 3.N 2.2E OF LAHOMA | 70.8 | |
| CREEK | 2.3W 1. S OF KREMLIN | 97.0 | |
| ROCK CREEK | .6N 4E .9N OF BISON | 77.8 | |
| OTTER CREEK | .6E 3S 2.6E OF DOUGLAS | 47.7 | Structurally deficient |
| TURKEY CREEK | .3E 3.3N 1.3E OF DRUMMOND | 39.0 | Structurally deficient |
| TURKEY CREEK | 2.6N 5.6W OF BISON | 51.6 | |
| CREEK | 5.9N OF LAHOMA | 70.0 | Structurally deficient |
| CREEK | .1N.3W2S1.6W OF HILLCARRETT | 97.0 | |
| CREEK | 2.4W OF COVINGTON | 81.0 | |
| SKELETON CREEK | .5S 7.3E OF BISON | 64.7 | |
| BLACK BEAR CREEK | 1.9 MI S SH64 & US64 | 92.6 | |
| CREEK | .9W 1.6S OF BRECKINRIDGE | 80.1 | |
| CREEK | 2N .9 W OF LAHOMA | 43.5 | Structurally deficient |
| SPRING CREEK | .3E 3.3N 3.8E OF DRUMMOND | 59.3 | |
| SAND CREEK | 3E .2S OF SH132/SH45E | 45.4 | Structurally deficient |
| DRY CREEK | .4S 3.5W .3S OF WAUKOMIS | 55.5 | |
| CREEK | 2. N .3 E OF HILLSDALE | 49.3 | Structurally deficient |
| BITTER CREEK | .5S 8.8E OF BISON | 67.8 | |
| SKELETON CREEK | 4.3 MI E JCT US 81 | 96.1 | |
| BITTER CREEK | 3.7W OF DOUGLAS | 100 | |
| WOLF CREEK | 3.8E 5.9N OF GARBER | 97.0 | |
| DRY SALT CREEK | .3N .5W OF DRUMMOND | 75.5 | |
| CREEK | 1.3 MI E JCT US81 | 66.5 | |
| CROWS NEST CREEK | 6S .8E OF COVINGTON | 64.7 | |
| BOGGY CREEK | 1.0 MI E OF US 64 | 71.8 | |
| TURKEY CREEK | 1N 1.7E OF DRUMMOND | 37.0 | Structurally deficient |
| CREEK | 4.5 MI E MAJOR C/L | 89.0 | |
| CLEAR CREEK | 6.4 MI E MAJOR C/L | 88.0 | |
| RED ROCK CREEK | 4 MI E 5.7 MI N GARBER | 100 | |
| RED ROCK CREEK | 8.8 MI N JCT US 64 | 81.2 | |

(Source: <http://geography.brucemyers.com/bridges/county/40-11>)

Table 2.9 Garfield County Off System Bridges

| CROSSES | LOCATION | RATING % | STATUS |
|-----------------------------|---------------------------|----------|------------------------|
| CREEK | 6E 2.2S OF KREMLIN | 53.0 | Structurally deficient |
| CREEK | .6N 3E .9N OF BISON | 45.4 | Structurally deficient |
| SKELETON CREEK | .3W 1.7S 4.9W OF FAIRMONT | 94.8 | |
| CREEK | 1.1 S JCT US 412 | 80.7 | |
| CREEK | 2.2 MI E MAJOR C/L | 94.9 | |
| TURKEY CREEK | 1.3 MI E MAJOR C/L | 89.0 | |
| CREEK | .6N 3E .5N OF BISON | 77.8 | |
| ROCK CREEK | .6N 4.7E OF BISON | 48.5 | |
| SAND CREEK | .2W 1.5S OF KREMLIN | 95.0 | |
| CREEK | 1.5S .3W OF US64/SH74 | 69.2 | |
| ELM CREEK | 4S .5W OF LAHOMA | 64.7 | |
| HACKBERRY CREEK | .4S 3.5E .3S OF WAUKOMIS | 72.2 | |
| CREEK | 6N&0.5W JCT US81 AND SH45 | 53.0 | Structurally deficient |
| BLACK BEAR CREEK | 11.6 MI E JCT US 81 | 85.1 | |
| U.S. 64 / U.S. 412 UNDER | JCT OF US 64 & SH 74 | 98.0 | |
| CREEK | .4S 2W .1N OF BISON | 71.3 | |
| TURKEY CREEK | 4S 1.4E OF LAHOMA | 46.8 | Structurally deficient |
| RED ROCK CREEK | 6E 3.9S OF KREMLIN | 64.3 | |
| CREEK | 4.7N 5.6E OF GARBER | 40.1 | Structurally deficient |
| CREEK | 9.8 N KINGFISHER C/L | 69.7 | |
| CREEK | .2WOF GARLAND ON CHESTNUT | 85.8 | |
| UP R.R. & VANCE RD. UND | 2.6 MI S US60 IN ENID | 85.0 | Functionally obsolete |
| CREEK | .3N .9W OF DRUMMOND | 97.0 | |
| CREEK | 2.S 1.3E OF KREMLIN | 57.5 | |
| ELM CREEK | 4.3S OF LAHOMA | 49.0 | Structurally deficient |
| HELL AND GONE CREEK | .4S 3.5W 2.3SOF WAUKOMIS | 87.2 | |
| WOLF CREEK | 2.4W 3.6S OF DOUGLAS | 96.0 | |
| NINE MILE CREEK | 2.1 MI E OF HILLSDALE | 97.0 | |
| CREEK | 1S 2.4W OF COVINGTON | 85.0 | |
| 4-D CREEK | 6S 2.9E OF COVINGTON | 86.0 | |
| BLACK BEAR CREEK | 2.1E 2.2S OF BRECKINRIDGE | 44.2 | Structurally deficient |
| CREEK | .6N .5E 1N .5EOF WAUKOMIS | 67.4 | |
| TURKEY CREEK | 1.4S 3.8W OF BISON | 98.0 | |
| SKELETON CREEK | 1.5N 7.4E OF BISON | 71.8 | |
| BITTER CREEK | .4W 3S 3.2W OF DOUGLAS | 97.0 | |
| CREEK | .4S OF US412 | 95.8 | |
| CREEK | 0.1 MI W OF OAKWOOD | 76.8 | Functionally obsolete |
| CREEK | 0.1 MI E OF OAKWOOD | 35.3 | Structurally deficient |
| RED ROCK CREEK | 3S 4.E OF KREMLIN | 71.0 | Structurally deficient |
| CREEK | 3.8E 3.2N OF GARBER | 97.0 | |
| CREEK | 2N 4.4 E OF LAHOMA | 87.5 | |

Garfield County 2039 Long Range Transportation Plan

| CROSSES | LOCATION | RATING % | STATUS |
|------------------|---------------------------|----------|------------------------|
| SAND CREEK | .4E.7S2E1S.5EOF CARRIER | 70.0 | Structurally deficient |
| BUFFALO CREEK | 1.4S 2.2W OF BISON | 86.0 | |
| SAND CREEK | .3N 1.7E OF DRUMMOND | 85.0 | |
| SKELETON CREEK | 4S 7.4E OF WAUKOMIS | 88.0 | |
| CREEK | 2.1 MI E MAJOR C/L | 100 | |
| TURKEY CREEK | 1.3 MI E MAJOR C/L | 100 | |
| CREEK | 2.7E 3.7S OF KREMLIN | 86.0 | |
| CREEK | 2.6N3.5E2.1N OF WAUKOMIS | 96.0 | |
| CREEK | .3W 1.7S 2.1W OF FAIRMONT | 97.0 | |
| CREEK | .3W .7S 1.9W OF FAIRMONT | 97.0 | |
| CREEK | .2 MI E OF VAN BUREN | 97.0 | |
| CREEK | .2E OF VAN BUREN | 97.0 | |
| CREEK | AT 30 ST & MARKET ST | 96.9 | |
| RED ROCK CREEK | 4S 5.2E OF KREMLIN | 92.1 | |
| CREEK | .3 MI W OF VAN BUREN | 97.0 | |
| CREEK | 0.3 MI E OF VAN BUREN | 97.0 | |
| CREEK | 0.4 MI E OF VAN BUREN | 97.0 | |
| CREEK | .6E OF VAN BUREN | 97.0 | |
| OTTER CREEK | 2.6E 2.2S OF DOUGLAS | 55.5 | |
| OTTER CREEK | 9S .3W OF COVINGTON | 82.0 | |
| SKELETON CREEK | .4S 7.5E .1S OF WAUKOMIS | 53.0 | Structurally deficient |
| TURKEY CREEK | .9W 1.5N OF LAHOMA | 97.0 | |
| OTTER CREEK | 8S 1.2W OF COVINGTON | 99.0 | |
| QUAIL CREEK | 1.1N OF US412 ON OAKWOOD | 95.7 | |
| CREEK | 0.3 MI W OF OAKWOOD | 98.5 | |
| TURKEY CREEK | 3S 1.7 E OF LAHOMA | 99.0 | |
| 4-D CREEK | 8S 2.2E OF COVINGTON | 100 | |
| VANCE ROAD UNDER | 2.4 S JCT US60 ENID | 98.0 | |
| UP R.R. UNDER | 2.6 MI S US 60 IN ENID | 100 | |
| CREEK | 3.0N 1.2W OF GARBER | 84.0 | |
| RED ROCK CREEK | 2.1E 3.4S OF HUNTER | 100 | |
| CREEK | 2.1E 3.5S OF HUNTER | 97.0 | |
| SKELETON CREEK | .6N 7E .6N OF BISON | 75.5 | |
| ELKHORN CREEK | 5.5N 6.3E OF US64 & SH74 | 100 | |
| SAND CREEK | 4.8W OF US81 & WILLOW ST | 100 | |
| CREEK | .5N 2.8E OF SH74/US64 | 57.5 | |
| OTTER CREEK | 2.9W OF COVINGTON | 86.0 | |
| CREEK | SPRUCE AND MEADOWBROOK | 97.0 | |
| CREEK | .3E OF OAKWOOD | 84.5 | |
| CREEK | 0.3 MI W OF GARLAND | 97.0 | |
| CREEK | 0.3 MI W OF GARLAND RD. | 97.0 | |
| QUAIL CREEK | OKLA. AT WILSON ST. | 97.0 | |
| CREEK | .8 E OF VAN BUREN | 52.0 | Structurally deficient |
| CREEK | .6 MI E OF VAN BUREN | 61.8 | Structurally deficient |

Garfield County 2039 Long Range Transportation Plan

| CROSSES | LOCATION | RATING % | STATUS |
|-------------------|----------------------------|----------|------------------------|
| CREEK | .7 MI E OF VAN BUREN | 88.7 | |
| CREEK | AT FORREST & 3 RD | 88.7 | |
| CREEK | AT WALNUT & 3 RD | 88.7 | |
| E0423 (ELM) UNDER | 0.9 MI E OF VAN BUREN | | |
| CREEK | CHEROKEE & 5TH | 82.1 | |
| CREEK | 0.2 MI E OF 4TH ST | 85.0 | |
| QUAIL CREEK | .1S OF CHESTNUT | 95.0 | |
| CREEK | GREENLEAF N OF CEDAR RIDGE | 97.0 | |
| CREEK | 1BLK N OF CHERRY ON 3 RD | 85.0 | |
| CREEK | 0.8 MI S OF WILLOW& 3 RD | 97.0 | |
| CREEK | 2ND & BIRCH | 85.0 | |
| CREEK | 0.6 MI S OF GARRIOTT | 85.0 | |
| CREEK | 5S OF HAYWARD | 100 | |
| CREEK | 3.9W .7N OF HUNTER | 90.0 | |
| CREEK | 2S 1.4 E OF HUNTER | 92.1 | |
| CREEK | .7S. OF WILLOW | 96.0 | |
| CREEK | 3N 1.3E OF LAHOMA | 50.0 | Structurally deficient |
| CREEK | 4S 1.2 E OF HUNTER | 96.3 | |
| BLACK BEAR CREEK | 2W 1.3S OF US64/SH74 | 100 | |
| CREEK | 4E 3.3S OF SH75/H15E | 97.0 | |
| CREEK | 7.7N 6. E OF SH15/US64 | 67.4 | |
| CREEK | 4.7N .8E OF GARBER | 67.4 | |
| NINE MILE CREEK | 3.9E 1.1 N OF HILLSDALE | 100 | |
| TURKEY CREEK | 1S .8E OF LAHOMA | 100 | |
| CREEK | 1S 4.2E OF LAHOMA | 97.0 | |
| CREEK | .3E4.7S2E.8S OF DRUMMOND | 97.0 | |
| CROOKED CREEK | .4S 5E 1.3S OF BISON | 89.8 | |
| CREEK | .4S 3E .1S OF BISON | 64.4 | |
| CREEK | 2S .4W OF HAYWARD | 23.5 | Structurally deficient |
| OTTER CREEK | 1S 2.7W OF COVINGTON | 71.3 | |
| TURKEY CREEK | 1N OF LAHOMA | 94.4 | |
| CREEK | 4N .1W OF LAHOMA | 80.2 | |
| CREEK | 4N 1.6E OF LAHOMA | 95.7 | |
| CREEK | 4N 3.3E OF LAHOMA | 77.4 | |
| BLACK BEAR CREEK | .2W 3.6N OF FAIRMONT | 100 | |
| CREEK | .9E 4.S OF COVINGTON | 51.0 | Structurally deficient |
| CREEK | 2.9W 2.8N OF BRECKINRIDGE | 49.5 | |
| CREEK | 1.6E .5N OF DOUGLAS | 71.3 | |
| CREEK | 2.9W 1S 1W OF KREMLIN | 94.0 | |
| CREEK | 5.2W .4S OF KREMLIN | 30.0 | Structurally deficient |
| CREEK | 5E 2.6N OF US64/SH74 | 39.5 | Structurally deficient |
| CREEK | 2S 3.8 E OF LAHOMA | 95.7 | |
| CREEK | 2E 1.7N OF LAHOMA | 46.7 | Structurally deficient |
| CREEK | 1.5N OF WAUKOMIS | 90.0 | |

Garfield County 2039 Long Range Transportation Plan

| CROSSES | LOCATION | RATING % | STATUS |
|----------------------|----------------------------|----------|------------------------|
| CREEK | 1.3 W .5 N OF KREMLIN | 99.0 | |
| SAND CREEK | 1.3W 2.9S OF KREMLIN | 76.7 | |
| CREEK | 3.5S 1.1W SH74/US412 | 70.8 | |
| CREEK | 1.6N 3.8E OF BISON | 47.0 | Structurally deficient |
| TURKEY CREEK | 4S 4.7E OF LAHOMA | 100 | |
| CREEK | 8E .8S OF HUNTER | 39.9 | Structurally deficient |
| CREEK | 5S .4E OF COVINGTON | 96.0 | |
| RED ROCK CREEK | 6.1E 3.1S OF HUNTER | 100 | |
| CLEAR CREEK | 3E 3S 1.6E OF LAHOMA | 100 | |
| CREEK | 4S 2.1E OF HAYWARD | 74.2 | |
| CREEK | 1N 5W .1N OF US81/SH45 | 34.0 | Structurally deficient |
| HACKBERRY CREEK | .6N 2.7E OF WAUKOMIS | 94.1 | |
| CREEK | 7.3E OF WAUKOMIS | 97.0 | |
| CREEK | 4E 2S .9E OF LAHOMA | 93.1 | |
| CREEK | 1S 2.5E OF SH74/SH15 | 40.1 | Functionally obsolete |
| CREEK | 1.5S 2.9E OF US 412/SH 74 | 86.0 | |
| CREEK | 2W 4.9N OF US64/SH74 | 97.0 | |
| CREEK | 5.5N 1.7W OF US64/SH74 | 97.0 | |
| CREEK | 1N 5.3E OF COVINGTON | 80.1 | |
| SAND CREEK | 5.1E 1.8S OF LAHOMA | 94.1 | |
| SKELETON CREEK TRIB. | 3.5N 4.5E OF WAUKOMIS | 100 | |
| SKELETON CREEK | 2.6 N. 5.8 E. WAUKOMIS | 100 | |
| CREEK | 3N 4.9W OF DOUGLAS | 100 | |
| TURKEY CREEK | — | 100 | |
| TURKEY CREEK | .4 S & 4. W OF BISON | 100 | |
| SKELETON CREEK | .1S OF BRECKINRIDGE RD. | 68.8 | Structurally deficient |
| E0430 UNDER | .3E OF 54TH ON OLD US64 | | |
| CREEK | .2E OF 30TH ON CHESTNUT | 97.0 | |
| CREEK | .1W OF GRAND ON CHERRY ST | 97.0 | |
| CREEK | TRAILS WEST S OF SANTA FE | 95.8 | |
| CREEK | .2S .1E OF US412/TRAIL END | 96.0 | |
| CREEK | ON MAPLE ST. W OF 4TH ST. | 71.0 | Structurally deficient |
| CREEK | .4N OF BRECKINRIDGE RD. | 88.0 | |
| CREEK | 4 BLK E OF GRAND | 84.7 | |
| CREEK | W OF 5TH ON RANDOLPH | 69.0 | Structurally deficient |
| BITTER CREEK | 2.4W 2N .2W OF DOUGLAS | 66.4 | |
| CREEK | 2S 3.3W OF HAYWARD | 85.2 | |
| CREEK | 2.5W 3N .2E OF DOUGLAS | 97.0 | |
| CREEK | 3E 7.5N OF JCT US81/SH45 | 100 | |
| CREEK | 3S 1.7W OF KREMLIN | 97.0 | |
| TURKEY CREEK | 2E 4.7S OF LAHOMA | 97.0 | |
| U.S. 64 UNDER | 2.5 MI SE JCT 64 N | | |
| U.S. 64 UNDER | 2.5 MI SE JCT 64 N | | |
| GRAND AVE. UNDER | .9 N US 412 ON GRAND AVE. | 74.1 | Functionally obsolete |

Garfield County 2039 Long Range Transportation Plan

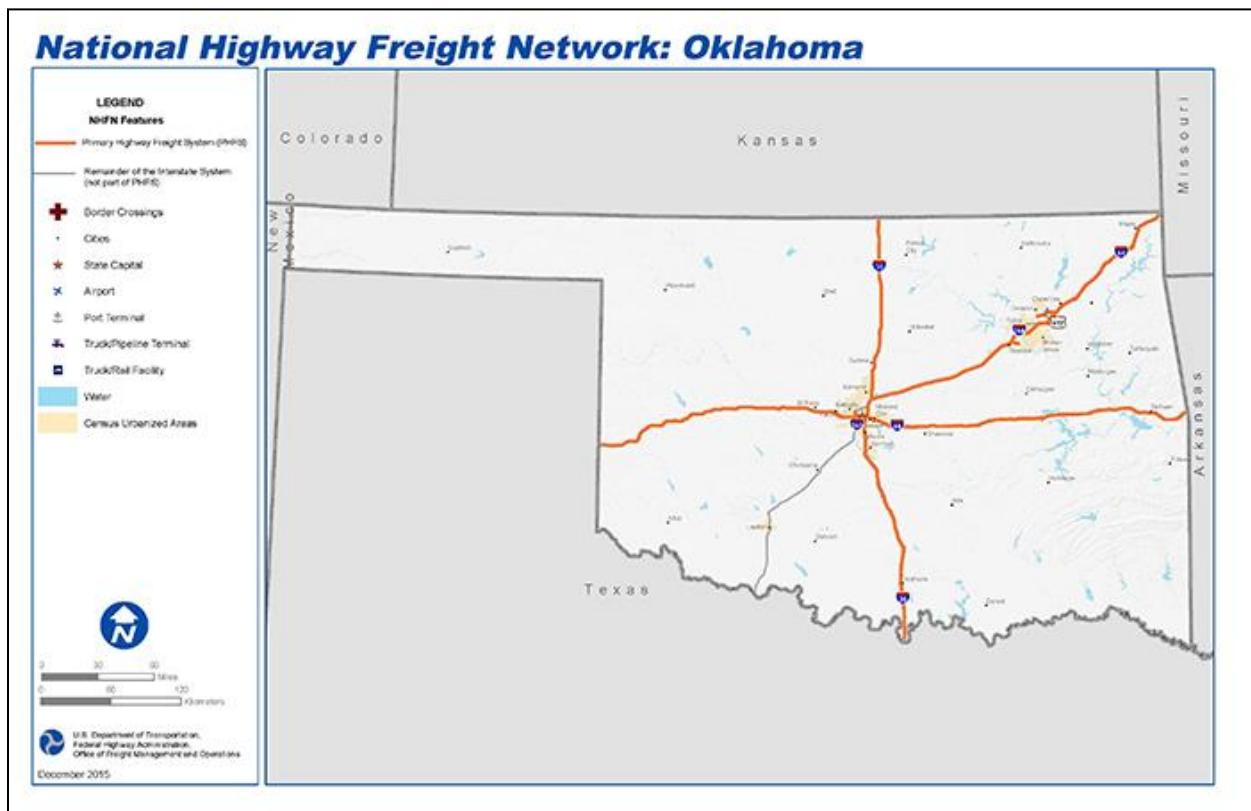
| CROSSES | LOCATION | RATING % | STATUS |
|-------------------------|---------------------------|----------|-----------------------|
| GRAND AVE. UNDER | .8 N US 412 ON GRAND AVE. | | |
| GRAND AVE. UNDER | .8 N US 412 ON GRAND AVE. | 83.6 | Functionally obsolete |
| HACKBERRY CREEK | .5S 5.5E 1.4S OF WAUKOMIS | 100 | |
| CREEK | 5S 1E 2S 1.3E OF HAYWARD | 96.0 | |
| CREEK | 5.5 N 3.2 W OF US 64/SH74 | 93.1 | |
| ROCK CREEK | .3S 5.E .5N OF BISON | 97.0 | |
| HELL AND GONE CREEK | 26N 4.3W OF BISON | 88.8 | |
| CREEK | 3.N .1E OF LAHOMA | 97.0 | |
| CREEK | 2N .1E OF LAHOMA | 97.0 | |
| BLACK BEAR CREEK | 1.5S,1.3W OF U.64/S.H.74 | 100 | |
| RED ROCK CREEK TRIB. | 7.8MI N OF JCT. U.S. 64 | 95.6 | |
| CREEK | 1.5S 1.9E OF U.S. 64/S.H. | 97.0 | |
| COLDWATER CREEK | 2N 1.7E OF KREMLIN | 97.0 | |
| CREEK | .1N 1.3W 3S .8W HILLSDALE | 97.0 | |
| CREEK | 1S .7E S.H. 45/S.H. 132 | 88.5 | |
| CREEK | 6.5N .1E S.H. 74/U.S. 64 | 97.0 | |
| BOGGY CREEK | .5 W OF VAN BUREN | 97.0 | |
| UNNAMED CREEK | .3W, 1.7S, 4.1W FAIRMONT | 84.3 | |
| SKELETON CREEK | .6N, 6.6E OF WAUKOMIS | 100 | |
| TURKEY CREEK | 0.6N, 6.6E OF WAUKOMIS | 100 | |
| CREEK | .6W OF CLEVELAND STREET | 82.5 | |
| BOGGY CREEK TRIB. | .2W OF VAN BUREN (U.S.81) | 88.3 | |
| BLACK BEAR CREEK | 5W .4S OF U.S./S.H.74 | 97.0 | |
| CREEK | 6S, 2.4E OF HAYWARD | 97.0 | |
| CREEK | 2N, 1.9 E OF LAHOMA | 96.9 | |
| CREEK | 1N OF E SOUTHGATE RD. | 99.0 | |
| CREEK | 1N OF E SOUTHGATE RD. | 99.0 | |
| SKELETON CREEK | .75E OF S. 30TH | 99.9 | |
| SKELETON CREEK | .75 E OF S. 42ND | 88.8 | |
| CREEK | 5S, .4E OF HAYWARD | 97.0 | |
| RED ROCK CREEK | 4S, 1W OF HUNTER | 97.0 | |
| N. BOGGY CREEK/ WALKWAY | 1.3E OF U.S.81 JCT. | 66.5 | |
| CROWS NEST CREEK | 3S 0.3E OF COVINGTON | 97.0 | |
| CREEK | 4S, 5E OF KREMLIN | 97.0 | |
| CREEK | 2.5S, 3.7W OF HAYWARD | 97.0 | |
| RED ROCK CREEK | 7.7N 6E OF SH51/US64 | 98.0 | |
| TURKEY CREEK | .3E 5.7S 2.6E OF DRUMMOND | 100 | |
| CREEK | 2S 5E 1S .4E OF US81/US60 | 89.8 | |
| CREEK | 1. N 1.3 E OF HILLSDALE | 95.0 | |
| CREEK | 2.6E, .6S OF DOUGLAS | 95.7 | |
| HACKBERRY CREEK | 6.4W, .2S OF DOUGLAS | 94.4 | |
| COLDWATER CREEK | .1N4.3W1.2N OF HILLSDALE | 95.0 | |
| SKELETON CREEK | .1E OF SOUTH 42ND | 100 | |

Garfield County 2039 Long Range Transportation Plan

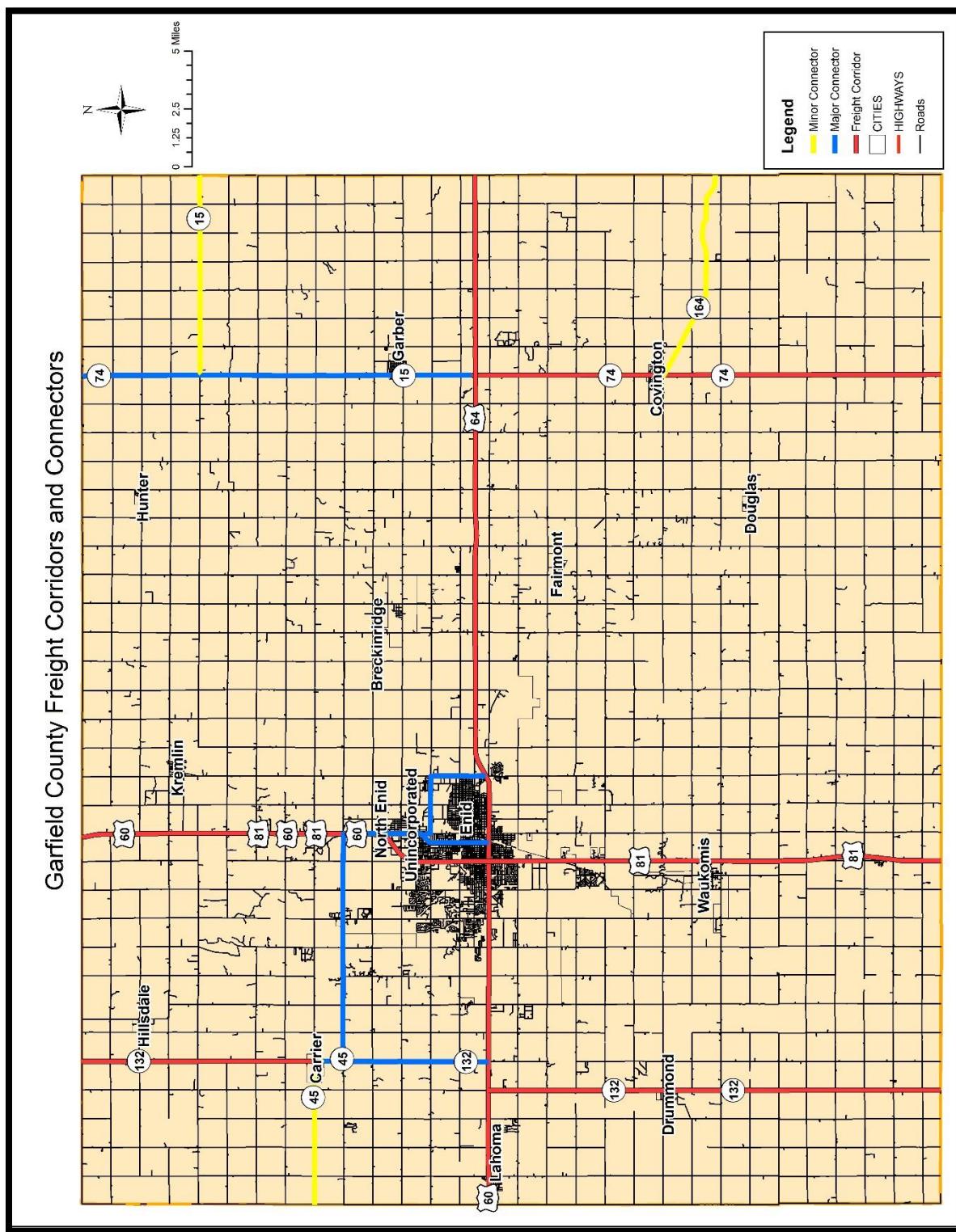
| CROSSES | LOCATION | RATING % | STATUS |
|-------------------|--------------------------|----------|--------|
| CLEAR CREEK | 1S, 5.6W JCT US81/US412 | 98.0 | |
| PANTHER CREEK | 7E 4S OF SH74/US64 JCT | 95.0 | |
| BUFFALO CREEK | .6N 2W .2N OF BISON | 95.0 | |
| U.S. 64 SB UNDER | 3.8 N JCT U.S. 81 | 93.5 | |
| CREEK | 1.2E 1N OF KREMLIN | 95.0 | |
| CREEK | 2.3 E ALFALFA C/L | 98.9 | |
| TURKEY CREEK | 13.3 N. KINGFISHER C/L | 96.1 | |
| BLACK BEAR CREEK | 3W 1.2S OF US64/SH74 | 95.0 | |
| RED ROCK | 1E 8.7N US64/SH74 | 97.0 | |
| WEST WARREN CREEK | 3E .1N OF HAYWARD | 96.0 | |
| CREEK | 1S 3.4E OF LAHOMA | 97.0 | |
| CREEK | .6N 6.9E OF WAUKOMIS | 97.0 | |
| CROWS NEST CREEK | 8S 1.2E OF COVINGTON | 98.0 | |
| CREEK | 1N OF US60/IMO RD .4E | 97.0 | |
| ELKHORN CREEK | .7N 6.2E OF GARBER | 97.0 | |
| WOLF CREEK | .5W 4S 2.5W OF DOUGLAS | 97.0 | |
| CREEK | .4S 2.5E .3S of WAUKOMIS | 95.0 | |
| CREEK | 4E 2S .1E of LAHOMA | 93.0 | |
| BLACK BEAR CREEK | 1W 1.8S of SH74/US64 | 95.0 | |
| RED ROCK CREEK | 3E 8.4N of SH74/US64 | 95.0 | |
| CREEK | 1.2W 4.5N OF GARBER | 95.0 | |

(Source: <http://geography.brucemyers.com/bridges/county/40-11>)

Map 2.24 National Highway Freight Network



Map 2.25 Garfield County Freight Corridors and Connectors



(Source: NORTPO)

Table 2.10 MAGB Ridership and Revenue Data

MAGB Ridership January 1, 2018 - December 31, 2018

| County | Revenue Miles | Vehicle Miles | Seat Miles | Passenger Miles | Empty Miles | Passenger Trips | Elderly Trips | Disabled Trips | Eld/Dis Trips | Hours of Service |
|----------|---------------|---------------|------------|-----------------|-------------|-----------------|---------------|----------------|---------------|------------------|
| Garfield | 88,581 | 100,090 | 410,958 | 79,370 | 49,167 | 5,419 | 591 | 987 | 2,739 | 5,646 |

(Source: MAGB)

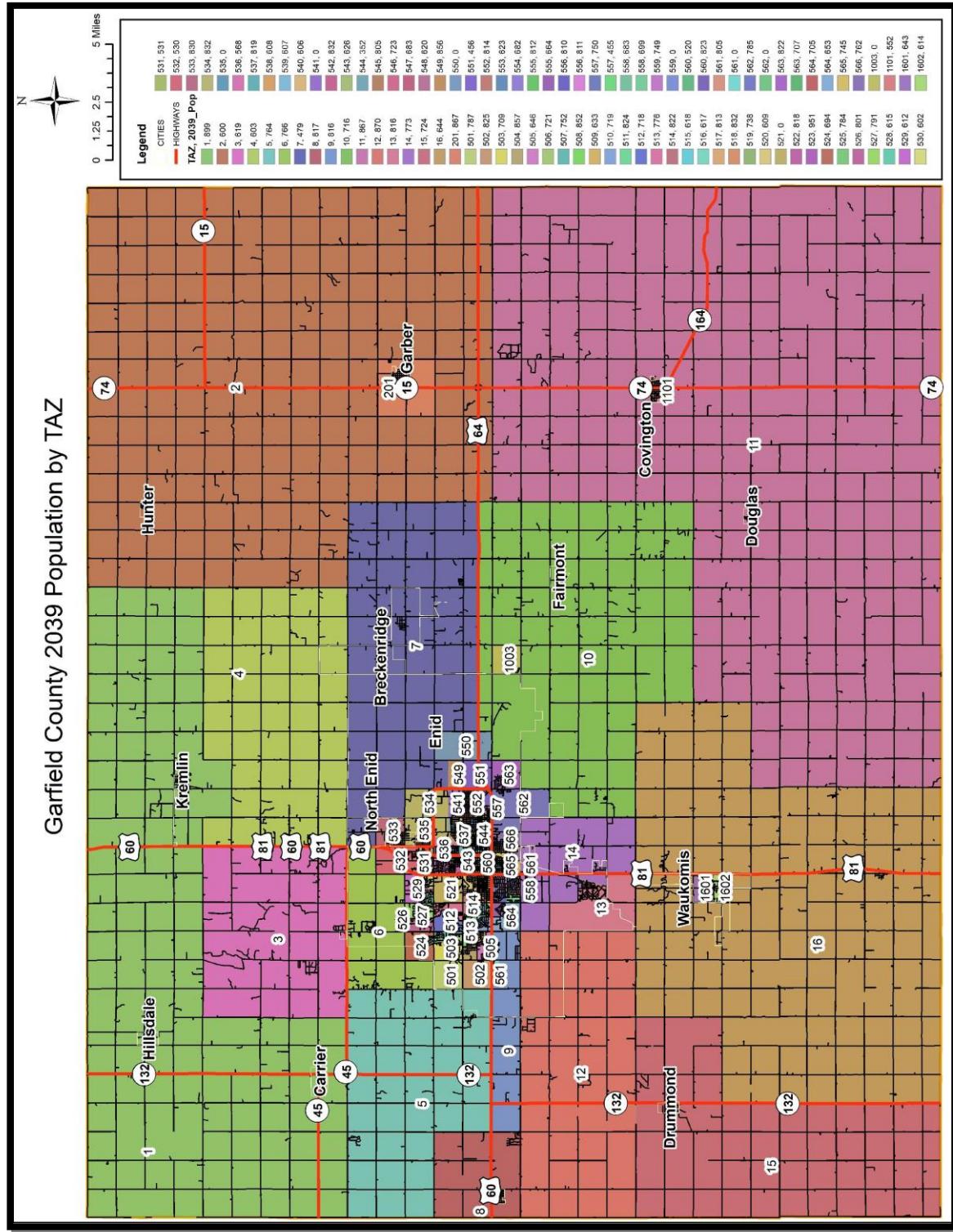
Table 2.11 Cherokee Strip Transit (CST) Ridership and Revenue Data

| | October 2015 – September 2016 | October 2016 – September 2017 | October 2017 – September 2018 |
|-----------------|-------------------------------|-------------------------------|-------------------------------|
| Trips | 4,700 | 3,312 | 5,532 |
| Passenger Miles | 219,818.9 | 155,046 | 128,310.9 |
| Revenue Miles | 170,255.2 | 131,763.5 | 155,025.4 |

(Source: CST)

Appendix G-3 Chapter 3

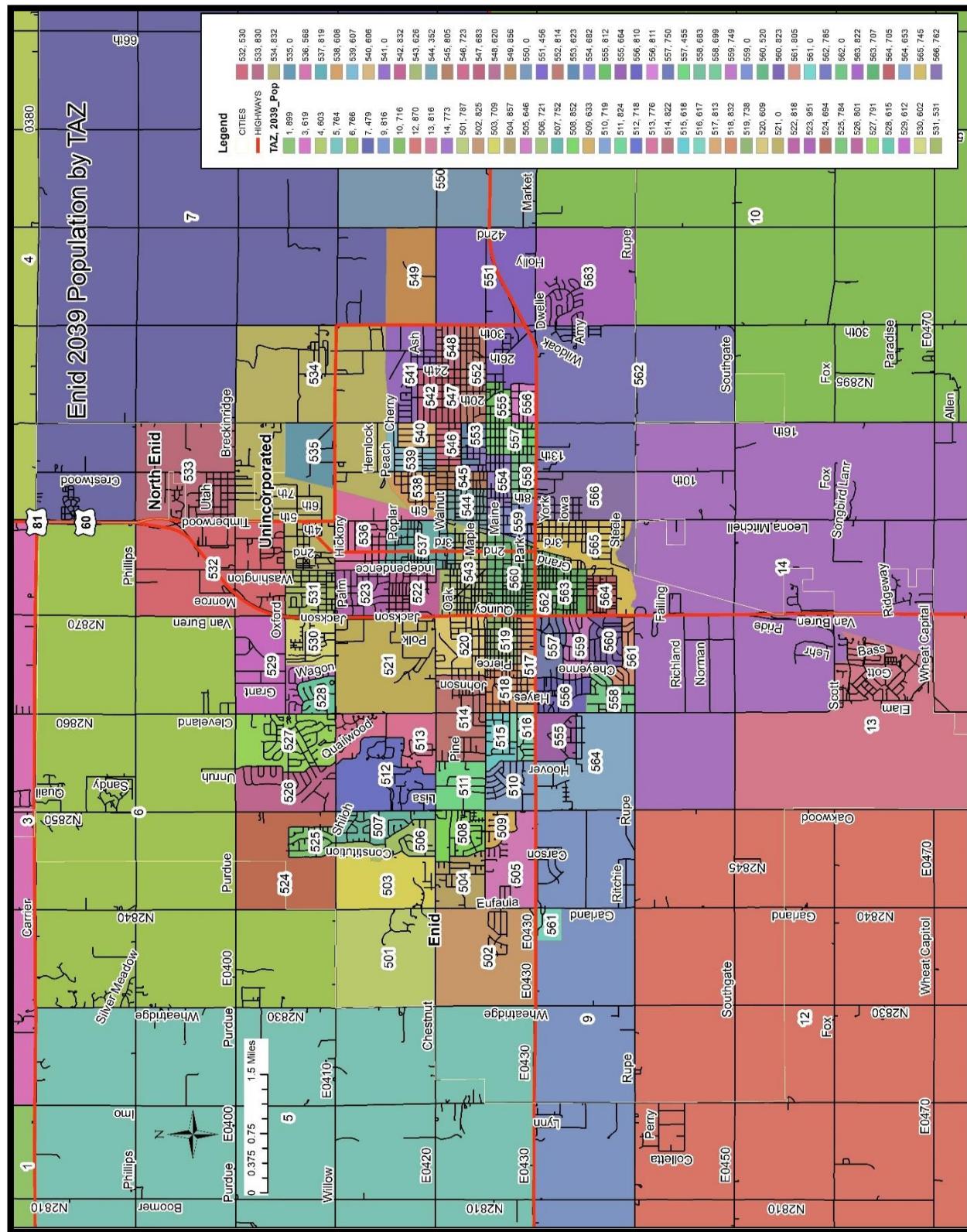
Map 3.1 Garfield County 2039 Projected Population



(Source: NORTPO)

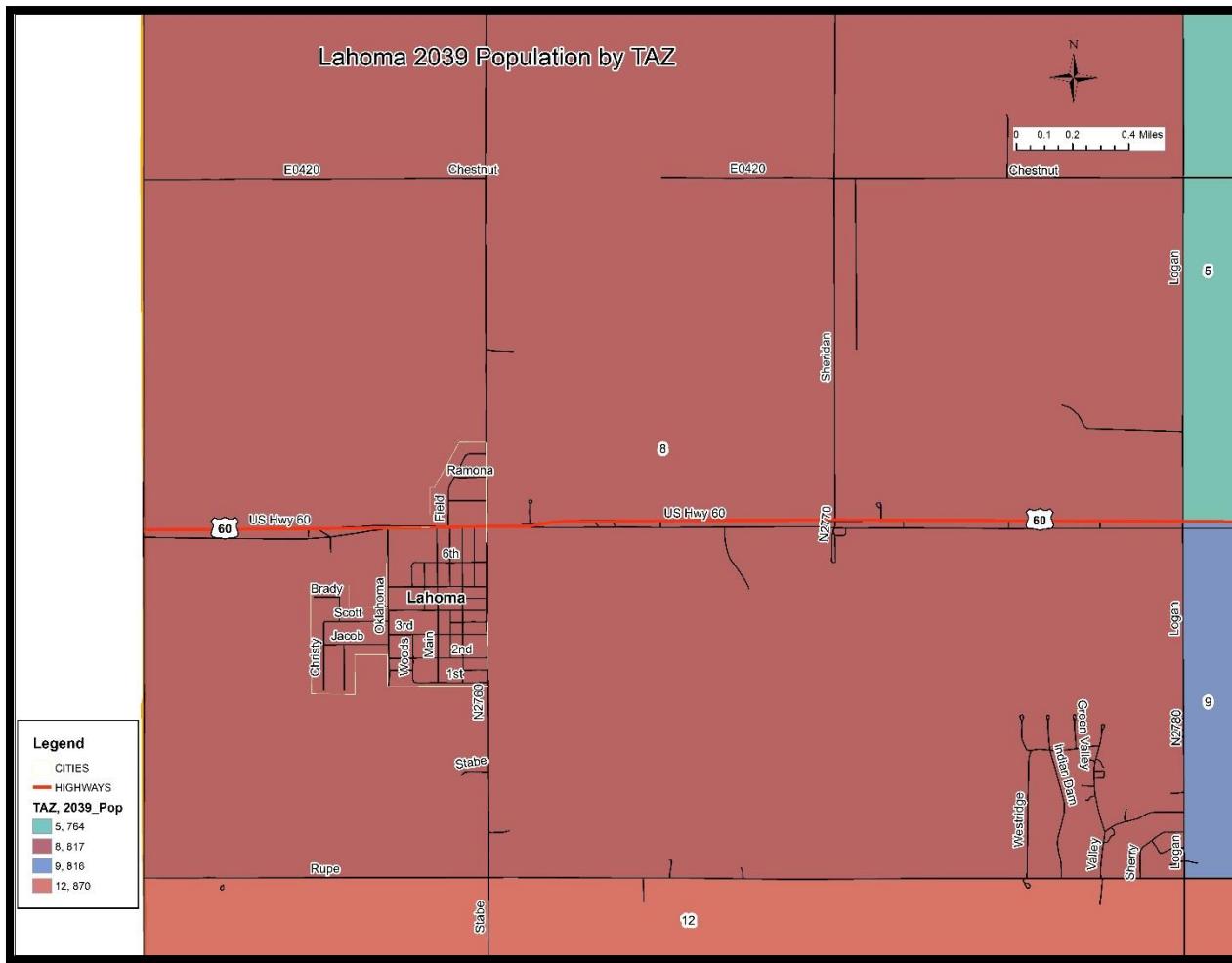
Garfield County 2039 Long Range Transportation Plan

Map 3.2 City of Enid 2039 Projected Population



(Source: NORTPO)

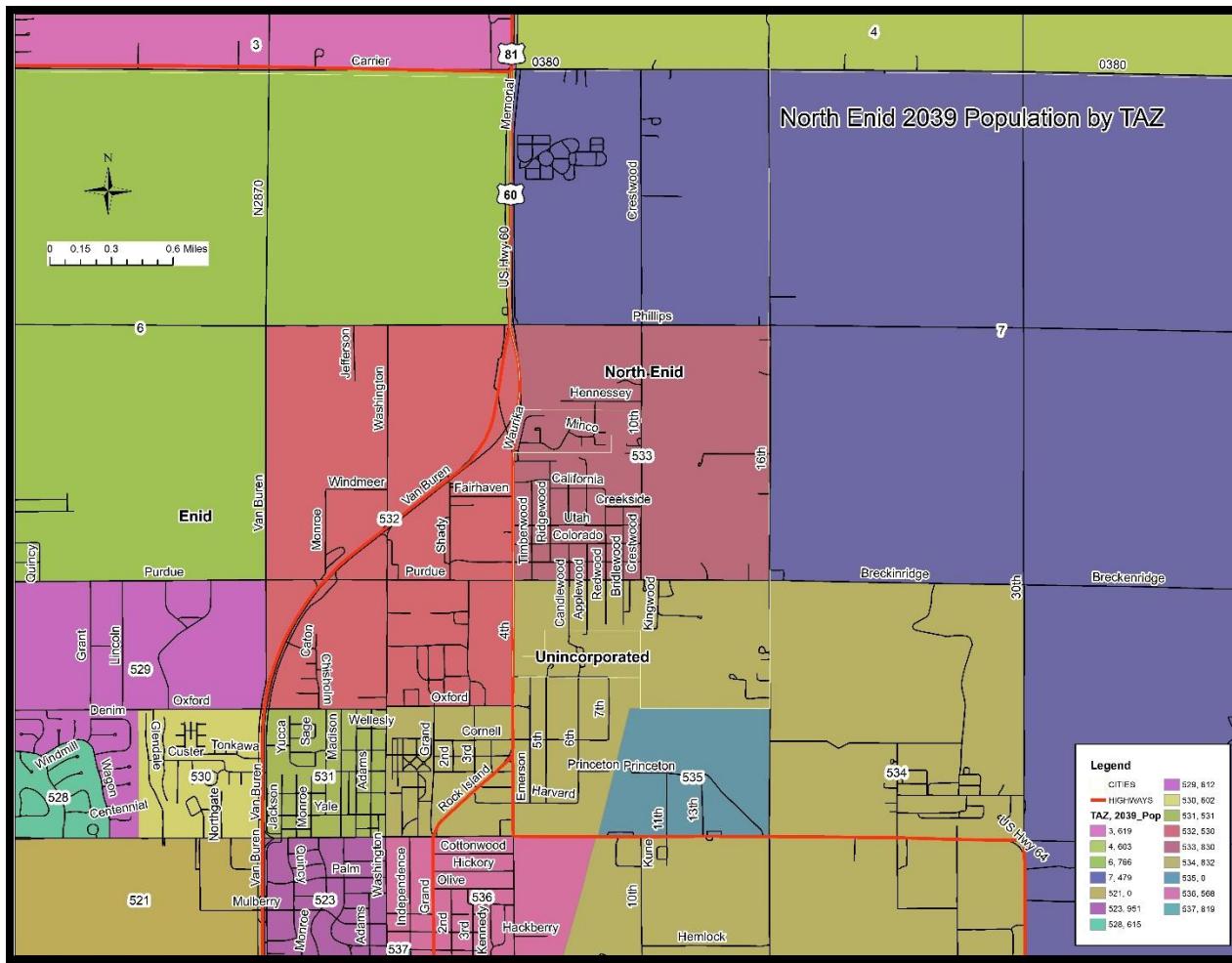
Map 3.3 Town of Lahoma 2039 Projected Population



(Source: NORTPO)

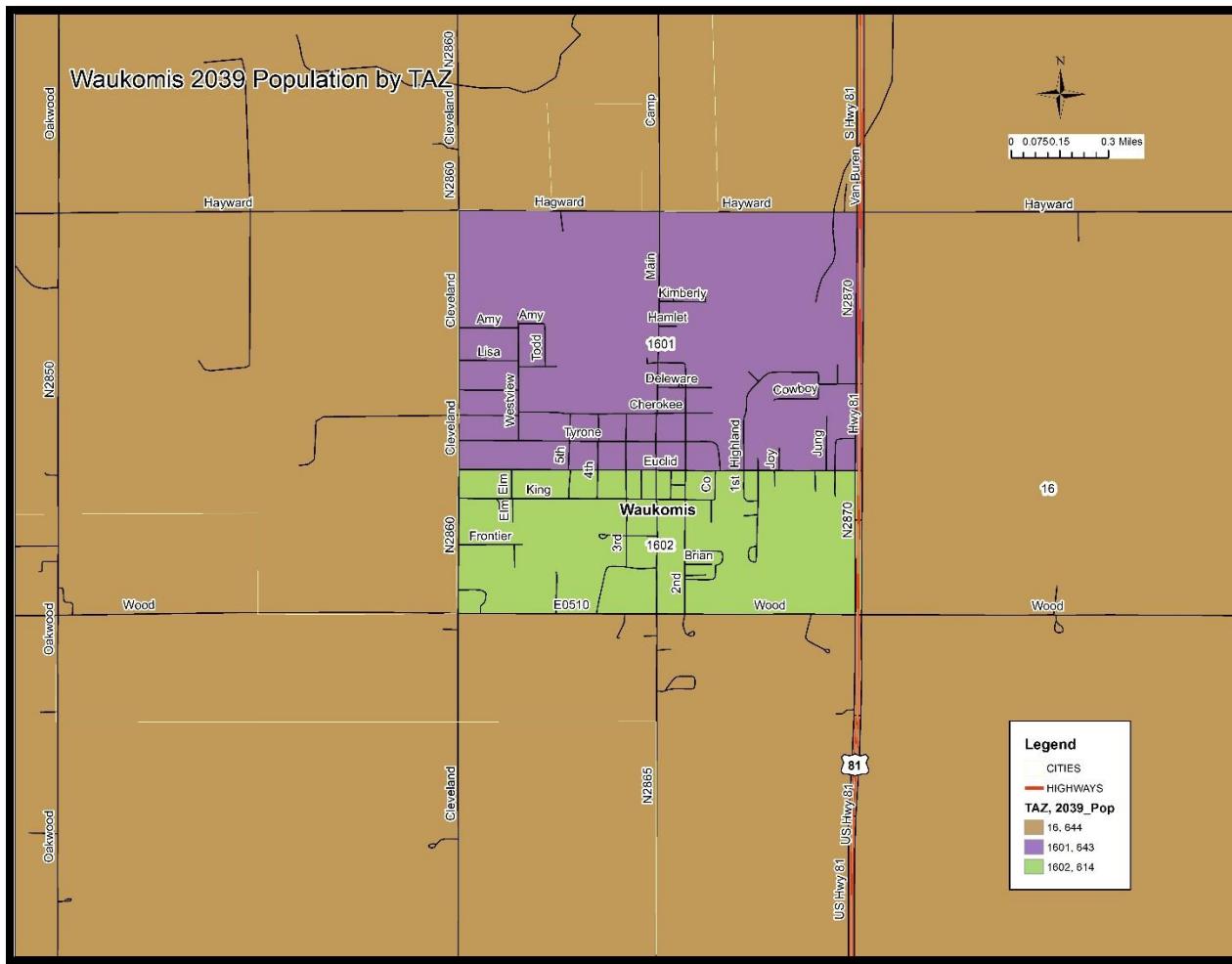
Garfield County 2039 Long Range Transportation Plan

Map 3.4 Town of North Enid 2039 Projected Population



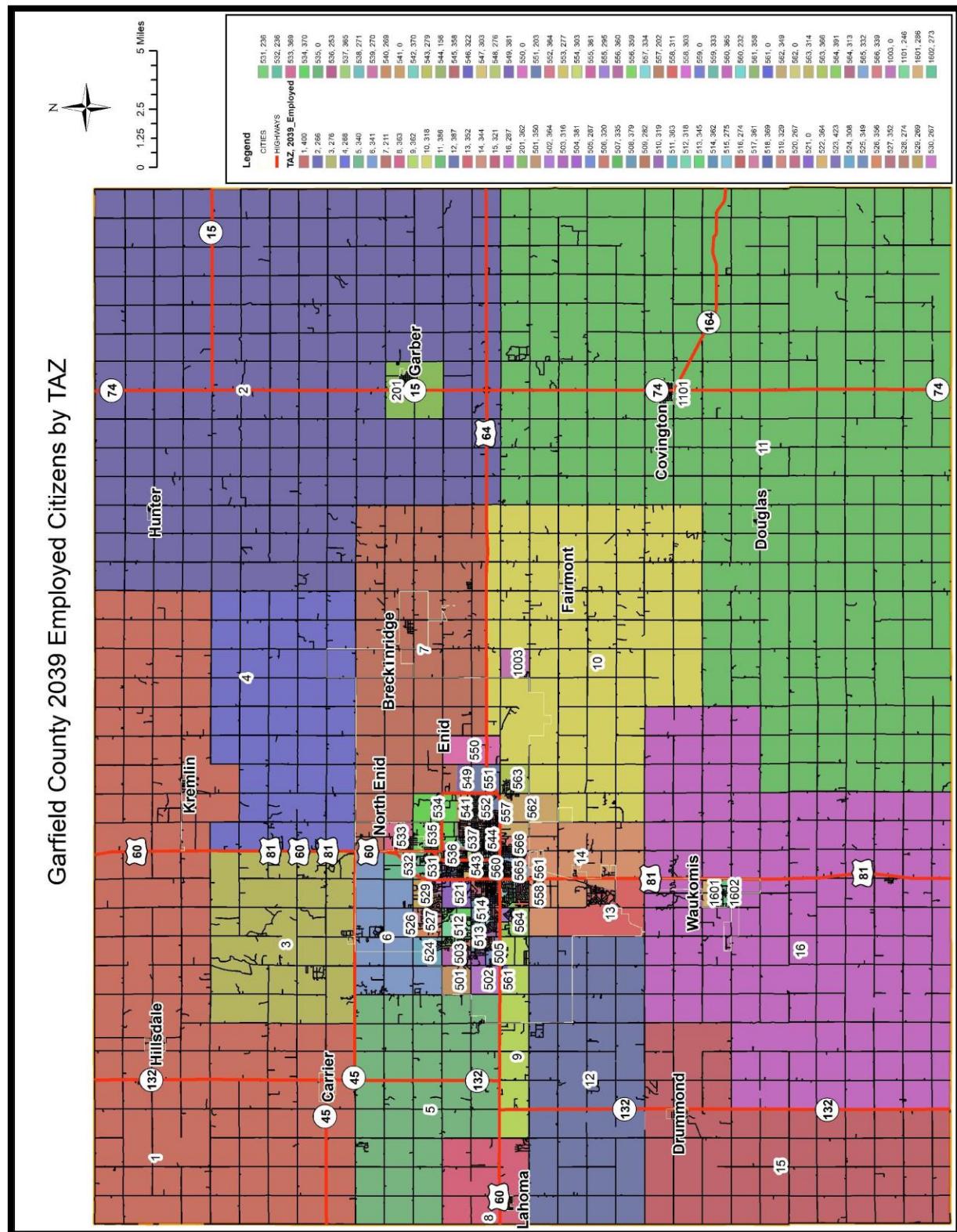
(Source: NORTPO)

Map 3.5 Town of Waukomis 2039 Projected Population



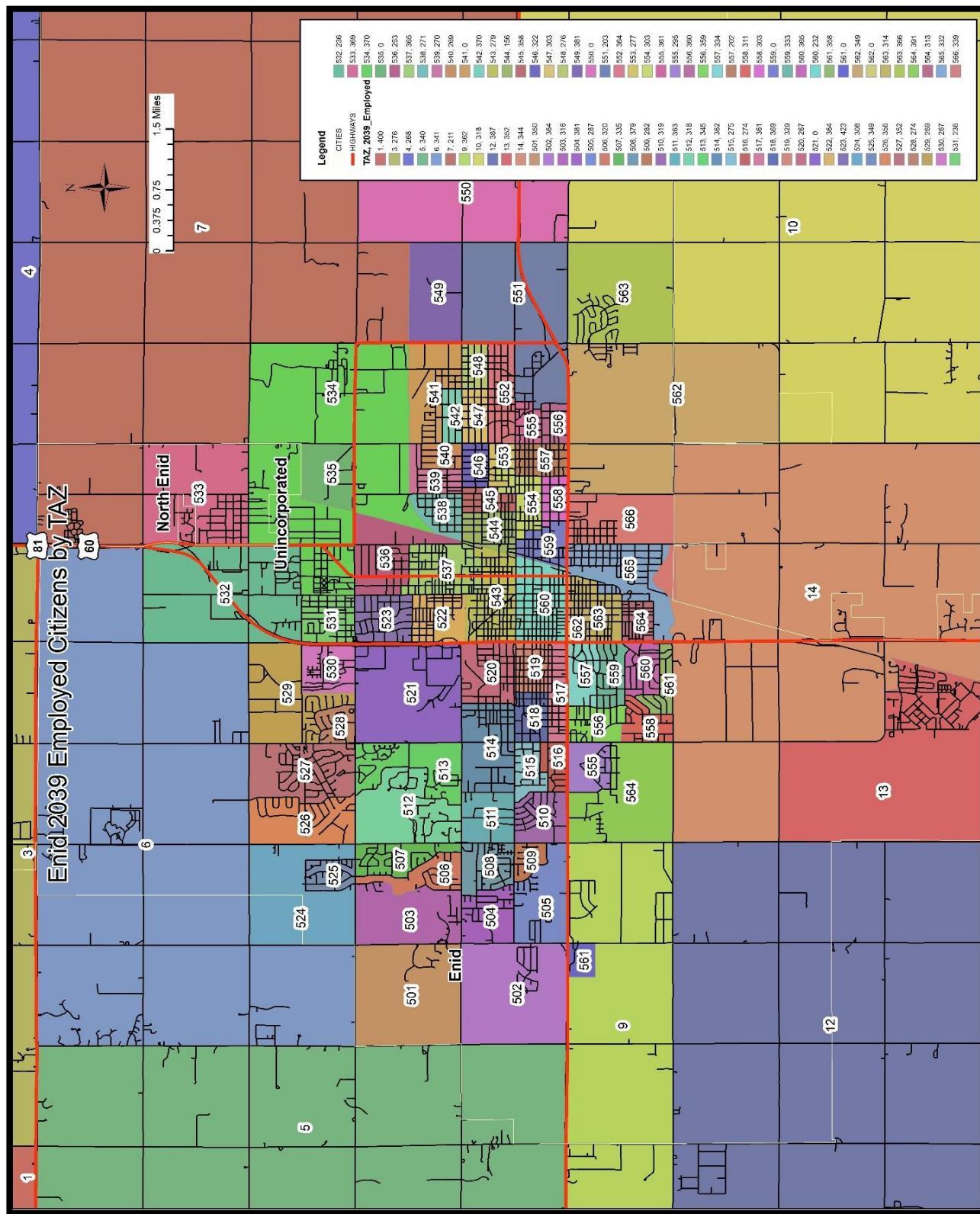
(Source: NORTPO)

Map 3.6 Garfield County 2039 Projected Employment



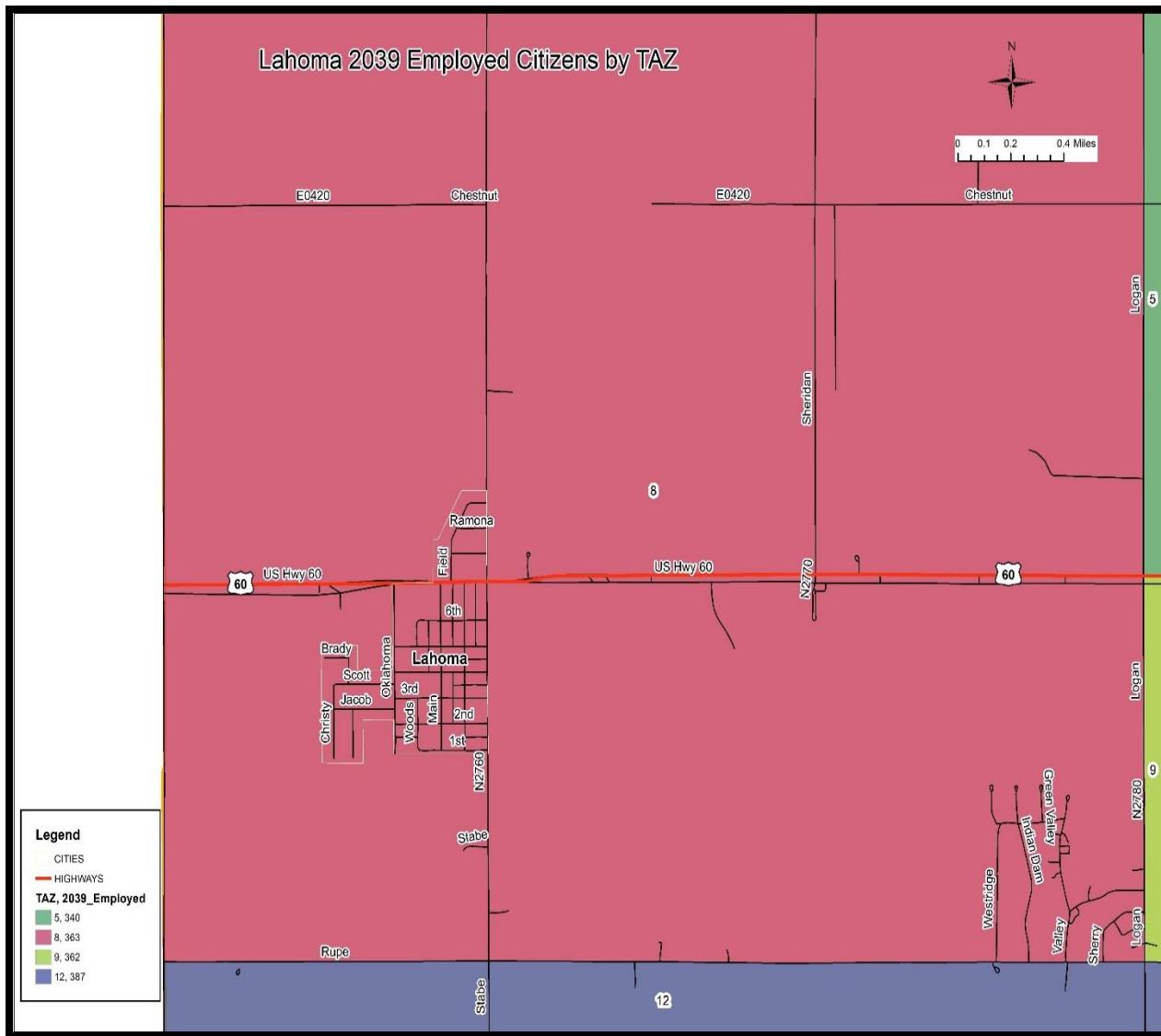
(Source: NORTPO)

Map 3.7 City of Enid 2039 Projected Employment



(Source: NORTPO)

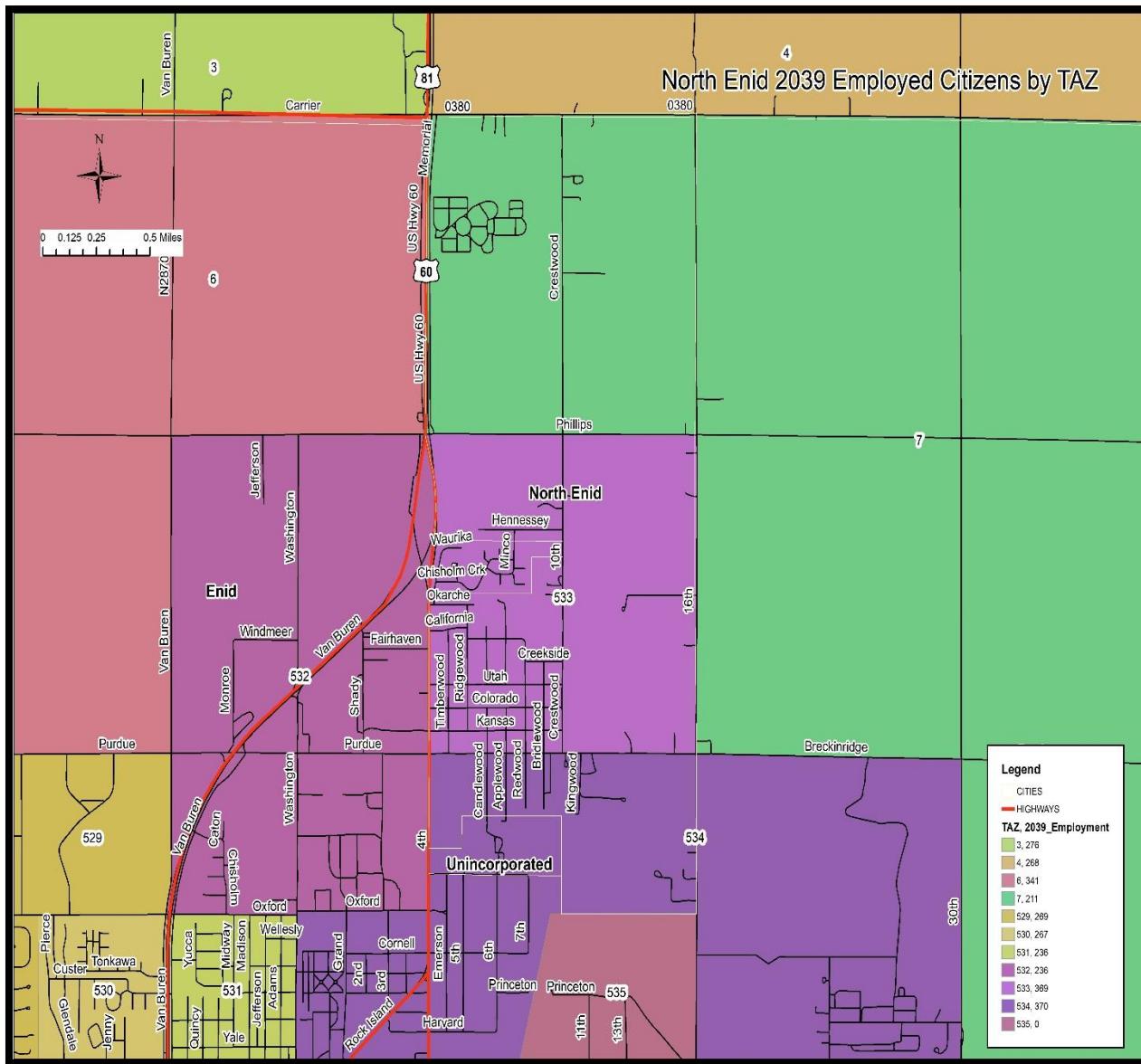
Map 3.8 Town of Lahoma 2039 Projected Employment



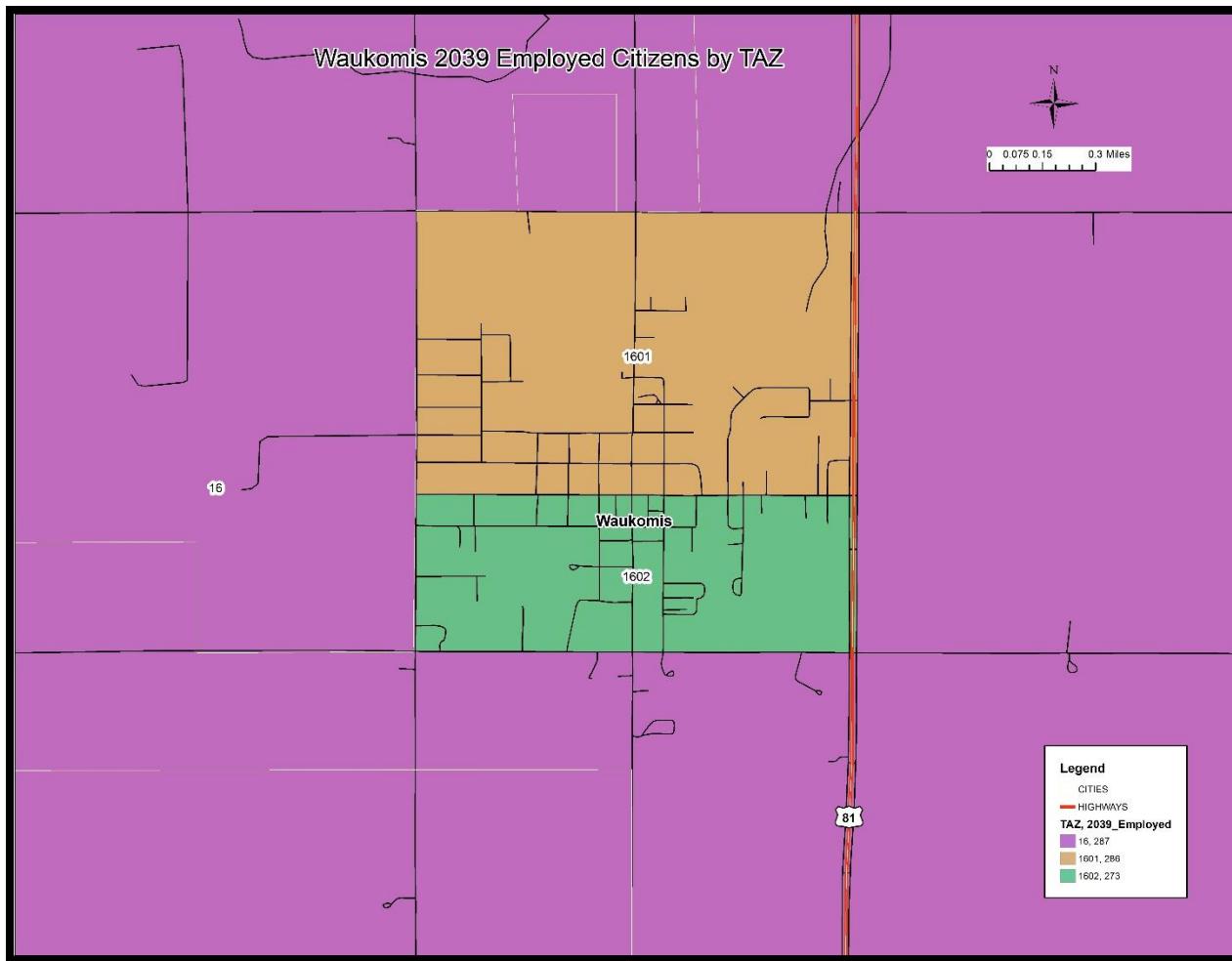
(Source: NORTPO)

Garfield County 2039 Long Range Transportation Plan

Map 3.9 Town of North Enid 2039 Projected Employment



Map 3.10 Town of Waukomis 2039 Projected Employment



(Source: NORTPO)

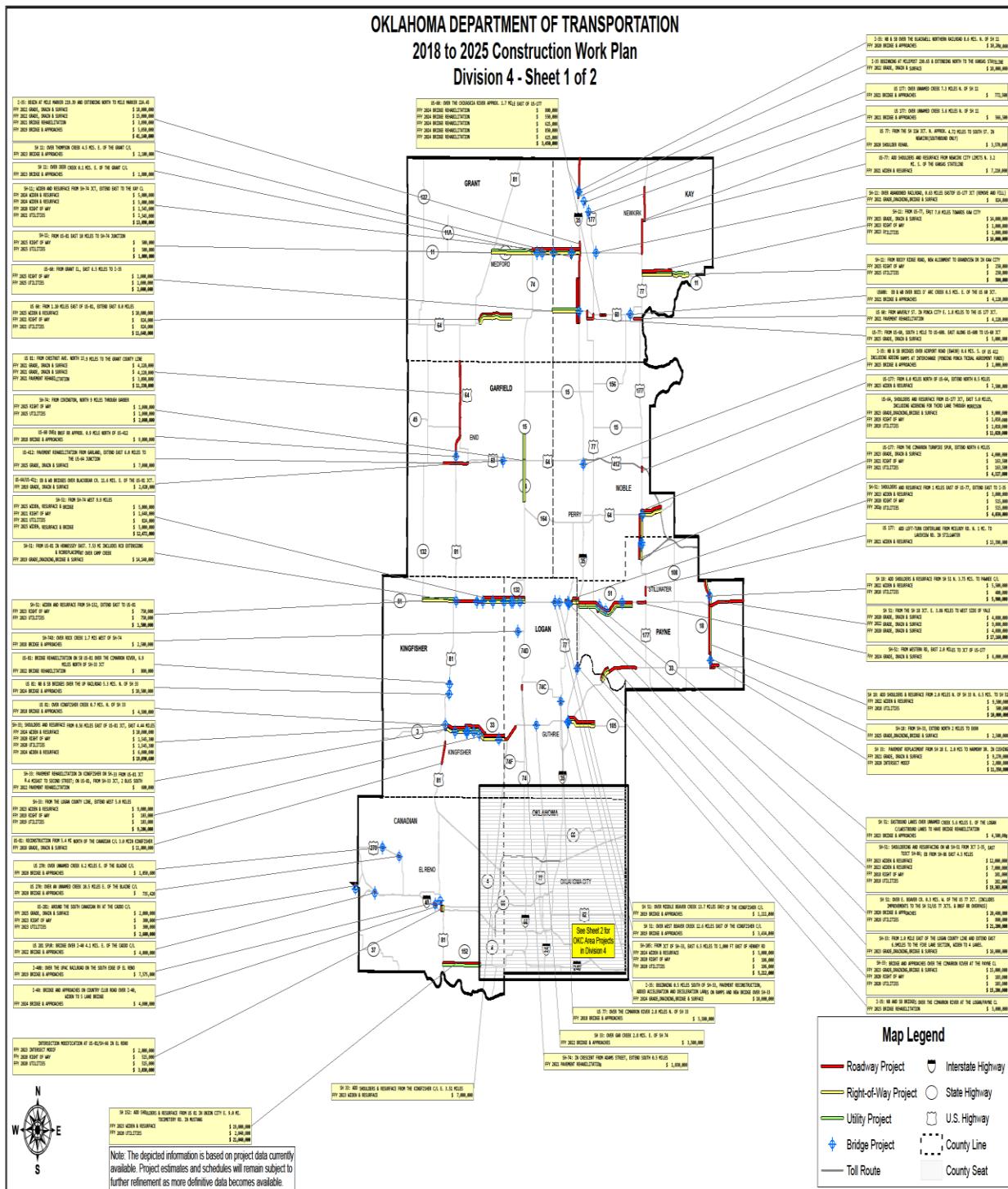
Table 3.1 Supporting Data for Projected Population and Employment

| Year | Population | Employment |
|-------------|------------|------------|
| 2016 | 62,481 | 27,784 |
| 2029 | 63,106 | 28,062 |
| 2039 | 63,737 | 28,343 |

(Source: NORTPO)

Garfield County 2039 Long Range Transportation Plan

Map 3.11 Location of Projects on the ODOT 8-year Construction Program 2018-2025



(Source: ODOT)

Table 3.2 ODOT 8-year Construction Program 2018-2025

| YEAR | COUNTY | DIVISION / LOCATION | LENGTH | SCHEDULE | DESCRIPTION | COST |
|-----------------|--|---------------------|-----------|-------------------------|---|----------------|
| FFY 2019 | | | | | | |
| | GARFIELD 2637(04) PAVEMENT REHABILITATION | Div. 4 US060 | 4.380 Mi. | Let 01/2019 FFY 2019 | US 60: FROM CHESTNUT AVE. IN ENID N. APPROX. 4.4 MILES TO THE SH-45 JCT | \$3,090,000.00 |
| | GARFIELD 27965(04) BRIDGE & APPROACHES | Div. 4 US064 | 0.200 Mi. | Let 11/2018 FFY 2019 | US-64/US-412: EB & WB BRIDGES OVER BLACKBEAR CR. 11.6 MIS. E. OF THE US-81 JCT. | \$1,800,000.00 |
| | GARFIELD 27981(04) GRADE, DRAIN & SURFACE | Div. 4 US060 | 4.500 Mi. | Let 01/2019 FFY 2019 | US 81: FROM SH-45, EXTEND NORTH 4.5 MILES TO 4.5 MILES SOUTH OF THE GRANT COUNTY LINE | \$4,120,000.00 |
| | GARFIELD 27981(04) GRADE, DRAIN & SURFACE | Div. 4 US060 | 4.500 Mi. | Let 01/2019 FFY 2019 | US 81: FROM 4.5 MILES NORTH OF SH-45, EXTEND NORTH 4.5 MILES TO THE GRANT COUNTY LINE | \$4,944,000.00 |
| FFY 2025 | | | | | | |
| | GARFIELD 32688(04) GRADE, DRAIN & SURFACE | Div. 4 US060 | 3.0 Mi. | FFY 2025 | US-412: FRE8:F150M GARLAND, EXTEND EAST 6.0 MILES TO THE US-64 JCT. | \$7,000,000 |
| | GARFIELD 33409(05) RIGHT OF WAY | Div. 4 SH074 | 9.0 Mi. | FFY 2025 | SH-74: FROM COVINGTON, NORTH 9 MILES THROUGH GARBER(ROW) FOR JP 33409(04)) | \$1,000,000 |
| | GARFIELD 33409(06) UTILITIES | Div. 4 SH074 | 9.0 Mi. | FFY 2025 | SH-74: FROM COVINGTON, NORTH 9 MILES THROUGH GARBER(UT) FOR JP 33409(04)) | \$1,000,000 |
| FFY 2026 | | | | | | |
| | GARFIELD 33409(04) WIDEN, RESURFACE & BRIDGE | Div. 4 SH015 | 3.50 Mi. | FFY2026 | SH-74: FROM US-412, NORTH 3.5 MILES THROUGH GARBER | \$3,000,000 |

(Source: ODOT)

Table 3.3 CIRB Projects FFY2019 – FFY 2023

| COUNTY | TYPE | YEAR | DESCRIPTION | ADVCN\$ Federal\$ STATE\$ | OTHERS\$ CIRB\$ TRIBES\$ | TOTAL\$ |
|--------------------------------|-----------------------|---|--|---------------------------------|--------------------------------|---------------------------|
| GARFIELD DIV 4 24868(09) | CO RD 11.00 MI | FFY 2019 RESURFACE | CO. RD. EW-40 (2416C) FROM SH-15 TO NS-305 PHASE III | \$0 \$0 \$0 | \$0 \$1,000,000 \$0 | \$0 \$1,000,000 \$0 |
| GARFIELD DIV 4 29876(04) | COBRGE 0.20 MI. | FFY 2019 BRIDGE & APPROACHES | BR AND APP ON EW-46 OVER TURKEY CREEK, 0.3 MILES EAST, 3.3 MILES NORTH AND 1.3 MILES EAST OF DRUMMOND CT BEAMS | \$0 \$0 \$0 | \$0 \$657200 \$0 | \$0 \$657200 \$0 |
| GARFIELD DIV 4 31808(05) | COBRGE 0.25 MI. | FFY 2019 CONTRACT P.E. (AS OF 10/1/2019) | BRIDGE AND APPROACHES ON EW-56 OVER BITTER CREEK, 0.5 MILES NORTH AND 9.0 MILES EAST OF BISON PE FOR 31808(04) | \$0 \$0 \$0 | \$0 \$75,000 \$0 | \$0 \$75,000 \$0 |
| GARFIELD DIV 4 32843(06) | CO RD 2.90 MI. | FFY 2019 RIGHT OF WAY | SOUTHGATE RD. FROM 0.1 MILES EAST OF US-81, EXTEND EAST 2.9 MILES RW FOR 32843(04) | \$0 \$0 \$0 | \$0 \$100,000 \$0 | \$0 \$100,000 \$0 |
| GARFIELD DIV 4 32843(07) | CO RD 2.90 MI. | FFY 2019 UTILITIES | SOUTHGATE RD. FROM 0.1 MILES EAST OF US-81, EXTEND EAST 2.9 MILES UT FOR 32843(04) | \$0 \$0 \$0 | \$0 \$100,000 \$0 | \$0 \$100,000 \$0 |
| GARFIELD DIV 4 28679(06) | CO RD 5.00 MI. | FFY 2020 RIGHT OF WAY | CO RD NS-282, FROM US- 412, EXTEND SOUTH 8.0 MILES TO EW-51 RW FOR 28679(04) | \$0 \$0 \$0 | \$0 \$100,000 \$0 | |
| GARFIELD DIV 4 28679(07) | UTILITIES 5.00 MI. | FFY 2020 UTILITIES | CO RD NS-282, FROM US- 412, EXTEND SOUTH 8.0 MILES TO EW-51 UT FOR 28679(04) | \$0 \$0 \$0 | \$0 \$0 \$0 | \$100,000 |
| GARFIELD DIV 4 29874(04) | COBRGE 0.20 MI | FFY 2020 BRIDGE AND APPROACHES | BR AND APP ON EW-47 OVER SPRING CREEK, 5.0 MILES EAST, 4.0 MILES SOUTH AND 0.2 MILES EAST OF LAHOMA CT BEAMS | \$0 \$0 \$0 | \$0 \$700,000 \$0 | \$700,000 |
| GARFIELD DIV 4 31808(05) | COBRGE 0.25 MI. | FFY 2019 CONTRACT P.E. (AS OF 10/1/2013) | BRIDGE AND APPROACHES ON EW-56 OVER BITTER CREEK, 0.5 MILES NORTH AND 9.0 MILES EAST OF BISON PE FOR 31808(04) | \$0 \$0 \$0 | \$0 \$75,000 \$0 | \$75,000 |
| GARFIELD DIV 4 32843(06) | CO RD 2.90 MI | FFY 2019 RIGHT OF WAY | SOUTHGATE RD. FROM 0.1 MILES EAST OF US-81, EXTEND EAST 2.9 MILES RW FOR 32843(04) | \$0 \$0 \$0 | \$0 \$100,000 \$0 | \$100,000 |
| GARFIELD DIV 4 32843(07) | CO RD 2.90 MI | FFY 2019 UTILITIES | SOUTHGATE RD. FROM 0.1 MILES EAST OF US-81, EXTEND EAST 2.9 MILES UT FOR 32843(04) | \$0 \$0 \$0 | \$0 \$100,000 \$0 | \$100,000 |
| GARFIELD DIV 4 30437(04) | COBRGE 0.25 MI | FFY 2020 BRIDGE & APPROACHES | BRIDGE & APPROACHES N NS-296 OVER RED ROCK CREEK, 6.0 MILES EAST & 3.9 MILES SOUTH OF KREMLIN | \$0 \$560,000 \$0 | \$0 \$140,000 \$0 | \$0 \$700,000 \$0 |
| GARFIELD DIV 4 31210(04) | COBRGE 0.25 MI | FFY 2020 BRIDGE & APPROACHES | ON EW-48 OVER TURKEY CREEK, 6.4 MILES WEST OF US-81 | \$0 \$560,000 \$0 | \$0 \$140,000 \$0 | \$0 \$700,000 \$0 |

Garfield County 2039 Long Range Transportation Plan

| COUNTY | TYPE | YEAR | DESCRIPTION | ADVCN\$ Federal\$ STATE\$ | OTHERS\$ CIRB\$ TRIBES\$ | TOTAL\$ |
|---------------------------------|-------------------|--|--|---------------------------------|--------------------------------|---------------------------|
| GARFIELD DIV 4 31968(05) | COBRGE 0.25 MI | FFY 2020 CONTRACT PE (10/1/2013) BRIDGE AND APPROACHES | ON NS-298 OVER RED ROCK CREEK, 1.9 MILES WEST AND 4.3 MILES SOUTH OF HUNTER PE FOR 31968(045) | \$0 \$0 \$0 | \$0 \$75,000 \$0 | \$0 \$75,000 \$0 |
| GARFIELD DIV 4 32843(04) | CO RD 2.90 MI | FFY 2020 GRADE, DRAIN & SURFACE | SOUTHGATE RD. FROM 0.1 MILES EAST OF US-81, EXTEND EAST 2.9 MILES | \$0 \$1,000,000 \$0 | \$0 \$1,000,000 \$0 | \$0 \$1,000,000 \$0 |
| GARFIELD DIV 4 32843(09) | CO RD 1.00 MI | FFY 2020 RIGHT OF WAY | GRADE, DRAIN, & SURFACE ON SOUTHGATE START 16TH ST. EXTEND 1.0 MILE TO 30TH ST. RW FOR 32843(08) | \$0 \$0 \$0 | \$0 \$25,000 \$0 | \$0 \$25,000 \$0 |
| GARFIELD DIV 4 32843(10) | CO RD 1.00 MI | FFY 2020 UTILITIES | GRADE, DRAIN, & SURFACE ON SOUTHGATE START 16TH ST. EXTEND 1.0 MILE TO 30TH ST. RW FOR 32843(08) | \$0 \$0 \$0 | \$0 \$25,000 \$0 | \$0 \$25,000 \$0 |
| GARFIELD DIV 4 33508(05) | CO RD | FFY 2020 CONTRACT P.E. (AS OF 10/1/2013) | CHIP SEAL STP PROJECT: 6.0 MI ON EW-51 FROM US- 81 TO NS-293 & 7.0 MI. ON NS-293 FROM EW-52.25 TO EW-45. (MULTI COUNTIES DIV) (DESIGN FOR 33508(04)) | \$0 \$0 \$0 | \$0 \$50,000 \$0 | \$0 \$50,000 \$0 |
| GARFIELD DIV 4 29872(04) | COBRGE 0.20 MI | FFY 2021 BRIDGE & APPROACHES | BR AND APP ON NS-307 OVER BLACK BEAR CREEK, 3.0 MILES EAST AND 2.0 MILES SOUTH OF JCT US- 64/SH-74 CT BEAMS | \$0 \$0 \$0 | \$0 \$800,000 \$0 | \$0 \$800,000 \$0 |
| GARFIELD DIV 4 29873(04) | COBRGE 0.20 MI | FFY 2021 BRIDGE & APPROACHES | BR AND APP ON NS-295 OVER SKELETON CREEK, 8.0 MILES EAST AND 0.6 MILES SOUTH OF BISON CT BEAMS | \$0 \$0 \$0 | \$0 \$600,000 \$0 | \$0 \$600,000 \$0 |
| GARFIELD DIV 4 29875(04) | COBRGE 0.20 MI | FFY 2021 BRIDGE & APPROACHES | BR AND APP ON NS-286 OVER WILD HORSE CREEK, 4.0 MILES WEST AND 0.3 MILES NORTH OF KREMLIN CT BEAMS | \$0 \$0 \$0 | \$0 \$700,000 \$0 | \$0 \$700,000 \$0 |
| GARFIELD DIV 4 32843(08) | CO RD 1.00 MI | FFY 2021 GRADE, DRAIN & SURFACE | GRADE, DRAIN, & SURFACE ON SOUTHGATE START 16TH ST. EXTEND 1.0 MILE TO 30TH | \$0 \$1,168,831 \$0 | \$0 \$200,000 \$0 | \$0 \$1,368,831 \$0 |
| GARFIELD DIV 4 32870(05)) | COBRGE 0.25 MI | FFY 2021 CONTRACT P.E. (AS OF 10/1/2013) | BRIDGE & APPROACHES ON EW-57 OVER SKELETON CREEK, 0.5 MILES SOUTH & 7.3 MILES EAST OF BISON PE FOR 32870(04) | \$0 \$0 \$0 | \$0 \$75,000 \$0 | \$0 \$75,000 \$0 |
| GARFIELD DIV 4 33049(04) | COBRGE 0.25 MI | FFY 2021 BRIDGE & APPROACHES | BRIDGE AND APPROACHES ON EW-49 OVER TURKEY CREEK, 0.3 MILES NORTH AND 2.4 MILES EAST OF DRUMMOND CIRCLE #175 | \$0 \$800,000 \$0 | \$0 \$200,000 \$0 | \$0 \$1,000,000 \$0 |

Garfield County 2039 Long Range Transportation Plan

| COUNTY | TYPE | YEAR | DESCRIPTION | ADVCN\$ Federal\$ STATE\$ | OTHERS\$ CIRB\$ TRIBES\$ | TOTAL\$ |
|--------------------------------|-------------------|--|---|---------------------------------|--------------------------------|---------------------------|
| GARFIELD DIV 4 28679(04) | CO RD 5.00 MI | FFY 2022 GRADE, DRAINING, BRIDGE & SURFACE | CO RD NS-282, FROM US-412, EXTEND SOUTH 6.0 MILES TO EW-49 | \$0 \$0 \$0 | \$0 \$3,000,000 \$0 | \$0 \$3,000,000 \$0 |
| GARFIELD DIV 4 31808(04) | COBRGE 0.25 MI | FFY 2022 BRIDGE & APPROACHES | BRIDGE AND APPROACHES ON EW-56 OVER BITTER CREEK, 0.5 MILES NORTH AND 9.0 MILES EAST OF BISON | \$0 \$640,000 \$0 | \$0 \$160,000 \$0 | \$0 \$800,000 \$0 |
| GARFIELD DIV 4 33495(05) | COBRGE | FFY 2022 CONTRACT P.E. (AS OF 10/1/2013) | CO BR ON E0290 2.0 MI. N. & 7.0 MI. E. OF HILLSDALE (DESIGN FOR 33495(04)) | \$0 \$0 \$0 | \$0 \$75,000 \$0 | \$0 \$75,000 \$0 |
| GARFIELD DIV 4 33508(04) | CO RD 13.00 MI | FFY 2022 CHIP SEAL | CHIP SEAL STP PROJECT: 6.0 MI. ON EW-51 FROM US-81 TO NS-293 & 7.0 MI. NS-293 FROM EW-52.25 TO EW-45. (MULTI COUNTIES IN DIV 4) | \$0 \$366,667 \$0 | \$0 \$100,000 \$0 | \$0 \$466,667 \$0 |
| GARFIELD DIV 4 31968(04) | COBRGE 0.25 MI | FFY 2023 BRIDGE & APPROACHES | BRIDGE AND APPROACHES ON NS-298 OVER RED ROCK CREEK, 1.9 MILES WEST AND 4.3 MILES SOUTH OF HUNTER | \$0 \$640,000 \$0 | \$0 \$160,000 \$0 | \$0 \$800,000 \$0 |
| GARFIELD DIV 4 33927(05) | CO RD | FFY 2023 CONTRACT P.E. (AS OF 10/1/2013) | COUNTY ROAD CN 156 D1 PE FOR 33927(04) | \$0 \$0 \$0 | \$0 \$75,000 \$0 | \$0 \$75,000 \$0 |

(Source: ODOT)