



**Kanawha County  
Comprehensive Plan  
Revised 2025**

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*A Comprehensive Development  
Plan for Kanawha  
County, West Virginia  
June 2025*

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# Contents

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<b>ACKNOWLEDGEMENTS.....</b>	<b>1</b>
<i>Kanawha County Commission.....</i>	<i>1</i>
<i>Kanawha County Planning Commission .....</i>	<i>1</i>
<i>Comprehensive Plan Committee.....</i>	<i>1</i>
<i>Community Planning &amp; Development Staff.....</i>	<i>1</i>
<i>B-C-K-P Regional Intergovernmental Council.....</i>	<i>1</i>
<b>EXECUTIVE SUMMARY.....</b>	<b>2</b>
CENTRAL MISSION.....	2
PUBLIC REVIEW AND COMMENT.....	2
COMPLETION OF THE 2025 UPDATED VISION COMPREHENSIVE PLAN.....	2
<b>RECOMMENDATIONS.....</b>	<b>6</b>
ARTS & CULTURE.....	6
BUILDING, HOUSING, & DEVELOPMENT.....	6
TRANSPORTATION.....	7
ECONOMIC DEVELOPMENT.....	8
EDUCATION & TRAINING.....	9
FARMS & AGRICULTURE.....	9
HUMAN & FAMILY SERVICES.....	10
NATURAL RESOURCES, ENVIRONMENT & CONSERVATION.....	10
PLANNING, MANAGEMENT & GOVERNANCE.....	11
PUBLIC HEALTH, FITNESS & SAFETY.....	11
<i>Public Health and Physical Fitness.....</i>	<i>12</i>
<i>Public Safety and Emergency Services.....</i>	<i>12</i>
RECREATION, ENTERTAINMENT & TOURISM.....	12
UTILITIES & INFRASTRUCTURE.....	13
<b>DEVELOPMENT AND ORGANIZATION OF THE COMPREHENSIVE PLAN.....</b>	<b>14</b>
PLAN ORGANIZATION.....	14
LEGISLATIVE GUIDANCE.....	15
CITIZEN PARTICIPATION.....	16
<b>UPDATED COMPREHENSIVE PLAN FOR KANAWHA COUNTY, WEST VIRGINIA.....</b>	<b>17</b>
<b>ARTS &amp; CULTURE.....</b>	<b>18</b>
<i>Vision.....</i>	<i>18</i>
<i>Mission.....</i>	<i>18</i>
<i>Goals, Objectives and Strategies.....</i>	<i>18</i>
<i>Discussion of Arts &amp; Culture Issues in Kanawha County.....</i>	<i>18</i>
<i>Summary of Recommendations.....</i>	<i>19</i>
<b>BUILDING, HOUSING, &amp; DEVELOPMENT.....</b>	<b>20</b>
<i>Vision.....</i>	<i>20</i>
<i>Mission.....</i>	<i>20</i>
<i>Goals, Objectives, and Strategies.....</i>	<i>20</i>
<i>Discussion of Building, Housing &amp; Development Issues in Kanawha County.....</i>	<i>22</i>
<i>Development Patterns.....</i>	<i>22</i>
<i>Residential.....</i>	<i>22</i>
<i>Commercial.....</i>	<i>22</i>
<i>Industrial.....</i>	<i>23</i>
<i>Agricultural.....</i>	<i>23</i>
<i>Barren Land.....</i>	<i>23</i>
<i>Forest Land.....</i>	<i>23</i>
<i>Topography.....</i>	<i>23</i>
<i>Subdivision Regulations .....</i>	<i>24</i>
<i>Rules and Regulations.....</i>	<i>24</i>
<i>Final Report.....</i>	<i>24</i>
<i>Amendments to the Comprehensive Plan.....</i>	<i>24</i>
<i>Development within a Subdivision Plan.....</i>	<i>24</i>

Land Redevelopment Plans.....	25
Urban Services in Rural Areas.....	28
Water and Sewer Service Related to Developments Planning.....	28
Subdivision Regulations.....	28
Streetscape Design and Construction.....	28
Stormwater Management Guidelines and Requirements.....	29
Special Area Plans.....	29
Neighborhood Plans.....	31
Gateways.....	32
Scenic Highway Corridors.....	32
Design Principles.....	32
Landmarks.....	32
Neighborhood Conservation.....	32
Tree Protection.....	33
Landscaping.....	33
Public Art.....	33
Historic Preservation.....	33
Historic Preservation Ordinance.....	33
Housing.....	34
Summary of Recommendations.....	34
<b>TRANSPORTATION.....</b>	<b>37</b>
Vision.....	37
Goals, Objectives, and Strategies.....	37
Discussion of Transportation Issues in Kanawha County.....	38
Highway System.....	38
Existing Conditions.....	39
Existing and Projected Deficiencies.....	41
Highway Recommendations.....	41
Intelligent Transportation Systems (ITS).....	43
Public Transportation.....	43
The Kanawha Valley Regional Transportation Authority (KVRTA) System.....	43
Other Services.....	44
Air Service.....	45
Plans and Recommendations.....	45
Rail Transportation.....	46
Freight Rail.....	46
Passenger Rail.....	46
Rail Deficiencies.....	46
River Transportation and Port Facilities.....	47
Bicycle and Pedestrian Facilities.....	47
Current Initiatives.....	47
Summary of Recommendations.....	48
<b>ECONOMIC DEVELOPMENT.....</b>	<b>49</b>
Vision.....	49
Mission.....	49
Goals, Objectives, and Strategies.....	49
Discussion of Economic Development Issues in Kanawha County.....	51
Economic Development Organizations.....	51
Economic Development Initiatives.....	52
Business Retention and Expansion.....	52
Summary of Recommendations.....	54
<b>EDUCATION &amp; TRAINING.....</b>	<b>56</b>
Vision.....	56
Mission.....	56
Goals, Objectives, and Strategies.....	56
Discussion of Education & Training Issues in Kanawha County.....	59
Summary of Recommendations.....	61
<b>FARMS &amp; AGRICULTURE.....</b>	<b>62</b>
Vision.....	62

Mission.....	62
Goals, Objectives, and Strategies.....	62
Discussion of Farm & Agriculture Issues in Kanawha County.....	62
Summary of Recommendations.....	62
<b>HUMAN &amp; FAMILY SERVICES.....</b>	<b>64</b>
Vision.....	64
Mission.....	64
Goals, Objectives, Strategies.....	64
Discussion of Human & Family Service Issues in Kanawha County.....	66
Summary of Recommendations.....	67
<b>NATURAL RESOURCES, ENVIRONMENT &amp; CONSERVATION.....</b>	<b>68</b>
Vision.....	68
Mission.....	68
Goals, Objectives, and Strategies.....	68
Natural Resources, Environmental & Conservation Issues in Kanawha County.....	69
Flood Hazard Areas.....	69
Special Flood Hazard Areas.....	71
Brownfields.....	71
Summary of Recommendations.....	72
<b>PLANNING, MANAGEMENT &amp; GOVERNANCE.....</b>	<b>73</b>
Vision.....	73
Mission.....	73
Goals, Objectives, and Strategies.....	73
Planning, Management & Governance.....	73
Creating More Livable Communities.....	74
Leadership.....	74
Discussion of Planning, Management & Governance Issues in Kanawha County.....	75
Kanawha County Commission – Administration.....	75
Community Planning and Development.....	75
Regional Development Authority.....	76
Kanawha County Housing and Redevelopment Authority.....	76
Kanawha County Building Commission.....	76
Summary of Recommendations.....	76
<b>PUBLIC HEALTH, FITNESS &amp; SAFETY.....</b>	<b>77</b>
Vision.....	77
Mission.....	77
Goals, Objectives, and Strategies.....	77
Public Health & Physical Fitness.....	77
Public Safety & Emergency Services.....	78
Discussion of Public Health, Fitness & Safety Issues in Kanawha County.....	79
Public Health and Wellness.....	79
Physical Fitness.....	80
Hospitals, Clinics, and Mental Health Centers.....	81
Emergency Ambulance and Medical Services.....	81
Enhanced 9-1-1 System Mapping and Addressing.....	82
Fire Protection and Volunteer Fire Departments (VFDs).....	83
Law Enforcement.....	84
Air and Water Pollution.....	84
January 2014 Elk River Chemical Spill.....	85
Summary of Recommendations.....	86
Public Health and Physical Fitness.....	86
Public Safety and Emergency Services.....	87
<b>RECREATION, ENTERTAINMENT &amp; TOURISM.....</b>	<b>88</b>
Vision.....	88
Mission.....	88
Goals, Objectives, and Strategies.....	88
Recreation, Entertainment & Tourism Issues in Kanawha County.....	88
Kanawha State Forest.....	90
Summary of Recommendations.....	90



**SECTION-UTILITIES & INFRASTRUCTURE.....91**  
    *Vision.....91*  
    *Mission.....91*  
    *Goals, Objectives, and Strategies.....91*  
    *Discussion of Utility & Infrastructure Issues in Kanawha County.....92*  
    *Public Water Supply.....92*  
    *Public Wastewater Collection and Treatment.....92*  
    *Public Service Districts.....92*  
    *Summary of Recommendations.....95*  
**FUNDING SUGGESTIONS.....96**  
**ACTION PLAN.....98**

## **List Of Figures**

Figure 1. Map of Kanawha County Within WV	Page 3
Figure 2. Map of Kanawha County Proximity	Page 4
Figure 3. Map of Kanawha County Proximity	Page 5
Figure 4. Map of Population Density	Page 21
Figure 5. Kanawha County Demolition Grant Program	Page 27
Figure 6. Map of Cities & Major Unincorporated Areas	Page 35
Figure 7. Map of Major Highways	Page 40
Figure 8. Map of Highway Recommendations	Page 42
Figure 9. Map of Kanawha County Parks	Page 89
Figure 10. Kanawha County & WVAW PPP Water Projects	Page 93
Figure 11. Proposed Kanawha County Commission Water Extension Projects	Page 94



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# Acknowledgements

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## ***Kanawha County Commission (2025)***

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# Executive Summary

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The current *2025 Kanawha County Comprehensive Plan* is an update of the *Twenty-Twenty Vision Plan*. The *Twenty-Twenty Vision Plan* was designed to serve the needs of the community during a planning period of approximately 20 years. This plan will undergo an additional revision within 10 years (by 2035) or as needed. It has been developed in conformance with the guidelines and requirements cited in West Virginia State Code, Chapter 8A, Article 3, Section 1.

The *Kanawha County Comprehensive Plan* is meant as a guide to assist officials with decisions about the future development of Kanawha County. It establishes countywide goals and recommends strategies to achieve those goals. It sets policy directions that will help design developmental tools such as subdivision regulations, transportation plans and options, and other future projected projects. It does not consist of legislative mandates or new ordinances.

**Modern comprehensive planning can be defined as follows:**

*A systematic way of anticipating, causing, preventing, or monitoring change related to the provision of public and/or private facilities and programs. It is a continuous process of change in response to new social values, funding, lifestyle patterns, trends, technology, legislation, and availability of resources...*

## Central Mission

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The constructive and effective management of change in Kanawha County, West Virginia is the central mission and purpose of the *2025 Kanawha County Comprehensive Plan*. In addition, the *2025 Comprehensive Plan* will strive to promote health, safety, and general welfare of the citizens and business located within Kanawha County.

## Public Review and Comment

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The vision statements, goals, and objectives detailed in this document were the subject of public review, comment, and meetings held throughout Kanawha County. It was posted online for public review and comment. It was then submitted to the Kanawha County Planning Commission for its members' consideration. After the public review and comment period was concluded, the Planning Commission oversaw revision of the document to incorporate further detail to complete a substantive Comprehensive Plan. In accordance with W.Va. Code 8A-3-6, the Planning Commission adopted by motion the above procedures for participation.

## Completion of the *2025 Comprehensive Plan*

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This revised *2025 Kanawha County Comprehensive Plan* is based on the work of the Kanawha County Planning and Development Office staff, Kanawha County Commission staff, Regional Intergovernmental Council staff, initial public comment on the first draft of the updated Comprehensive Plan, and review and approval of the Kanawha County Planning Commission. Upon a final public review and comment period, the *2025 Comprehensive Plan* will once more go before the Kanawha County Planning Commission to incorporate any changes. The Planning Commission will then forward the recommended updated Comprehensive Plan to the Kanawha County Commission for their approval by July of 2025.



## Cities within 250 and 500 miles of Kanawha County, West Virginia







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# Recommendations

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Recommendation Summary: This list below does not represent the “sequence” of programs or projects, nor does it serve to establish the relative importance of one category of action plan elements compared to another.

## Arts & Culture

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- Encourage curricula and exposures that develop an abiding appreciation across a broad spectrum of cultural activities for people of all walks of life.
- Support establishment of an annual calendar of cultural events and programs.
- Continue to support the Clay Center for the Arts and Sciences.
- Encourage incorporation of more public art in public areas of the county.
- Support the initiatives and recommendations contained in the City of Charleston’s IMAGINE CHARLESTON Comprehension Plan adopted in 2013 and amended March 2024.

## Building, Housing, & Development

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- Continue to enforce the following ordinances and regulations, which help improve life in unincorporated areas of Kanawha County:
  - ❑ Subdivision Regulations
  - ❑ Wireless Telecommunications Facilities Ordinance
  - ❑ Video Lottery Ordinance
  - ❑ Mobile Home Park Regulations
  - ❑ Adults Only Establishment Location Ordinance
  - ❑ Public Nuisance and Property Management Ordinance - including regulations for meth labs/houses, dilapidated, abandoned, and substandard structures
  - ❑ Salvage Yard Regulations
  - ❑ Floodplain Ordinance
  - ❑ Stream and Culvert Mitigation Ordinance

*All Kanawha County Ordinances are available for review at <https://kanawha.us/planning-development/>*

- Encourage residents to establish or continue neighborhood plans for:
  - ❑ Coal River Valley
  - ❑ Sissonville
  - ❑ Lower Elk Valley
  - ❑ Cross Lanes
  - ❑ Institute-Dunbar
- Identify all major entrances to Kanawha County as community gateways.

- Continue scenic highway status for US Route 60 and Midland Trail Scenic Highway.
- Encourage neighborhood revitalization plans by area residents.
- Continue to work with the State Historic Preservation Agency to inventory and prioritize historic properties and districts for preservation and enhancement.
- Consider adoption of a historic preservation ordinance in the future and implementing a countywide historic preservation program.
- Encourage new public housing initiatives including, but not limited to:
  - ❑ New construction
  - ❑ Rehabilitation of existing (owner- and renter-occupied) housing units
  - ❑ Housing for the elderly
- Consider grant-funded programs designed to help low- to moderate-income first-time home buyers and other programs that help county residents live in safe, warm, and dry homes.
- Consider restricting outdoor advertising and signage.

## Transportation

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- **Complete key transportation projects**

- Patrick Street to 4<sup>th</sup> Ave Charleston – improve access and intersection performance. Cost \$406,898 (MTP) (RIC is planning a corridor study for the entire Patrick Street to 7<sup>th</sup> Ave loop in FY26)
- US 60 – Cedar Grove Intersection Improvements – Cost \$709,009 (MTP)
- Widen and upgrade the 3<sup>rd</sup> St. railroad underpass in St. Albans. Cost \$36,825,588 (MTP)
- Dunbar Toll Bridge Replacement – Cost \$101.9M (DOH)
- Patrick Street Bridge Replacement – Cost ~\$100M (DOH)

- Encourage the continued deployment of Intelligent Transportation Systems (ITS) technologies to gain greater efficiency from the existing transportation system.
- Encourage KVRTA to implement service changes and other strategies identified in its ongoing system analysis. Encourage BRT study and/or shifting to more transfer routes that don't originate at City Center.
- Support the completion of the major recommendations from the most recent Yeager Airport Master Plan.
- Support the completion of major recommendations from the WV Air National Guard (WVANG) Base Master Development Plan.

- Support the elimination of at-grade railroad crossings where feasible. Promote the installation of additional or improved safety devices where warranted. DOH, the Regional Intergovernmental Council, the Kanawha County Commission should continue to seek funding options.
- Pursue the expansion of Amtrak passenger service from the current 3-day per week schedule to daily service.
- Take advantage of the Complete Street Acts to see that alternative modes are also accommodated when the State constructs new highway facilities.
- Encourage the use of available funding sources for bicycle and pedestrian improvements.
- Support the development of projects such as the Dunbar Toll Bridge and Patrick Street bridge replacements.

## **Economic Development**

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- Maintaining and expanding West Virginia International Yeager Airport is a critical factor influencing economic development in Kanawha County. Every effort should be made to strongly oppose any relocation of air traffic.
- Maintain and support the efforts of the Charleston Area Alliance, Regional Development Authority (RDA), and the Regional Intergovernmental Council (RIC).
- Encourage Charleston Area Alliance to bring together managers/owners to share mutual concerns and ideas, resolve problems of the businesses involved, and propose solutions to improve the general business climate of the region. Additionally, utilize the Charleston Area Alliance Board of Directors as a representative group, made up of both small and large businesses, to garner data and information to understand specific challenges or opportunities with which to partner to improve the general business climate.
- Periodically assess existing business' level of satisfaction with the local business climate and incorporate findings in strategies to recruit and sustain businesses in the county.
- Continue to work with the Charleston Area Alliance, the WV Development Office and the US Department of Commercial Services (Charleston Office) to encourage and assist existing businesses to explore and capitalize on growing international markets. Exports from Kanawha County businesses have a tremendous economic impact, bringing in new dollars into the community, and creating new jobs.
- Work with Charleston Area Alliance to develop and implement a county marketing plan to recruit and sustain businesses.
- Work with Charleston Area Alliance to identify and potentially develop suitable sites for future industrial and commercial activities. "Shovel Ready" sites remain a challenge for Kanawha County with its topography.
- Work with Charleston Area Alliance and the WV Regional Technology Park to expand the capacity of small business incubators.
- Work with Charleston Area Alliance to encourage and continue in the creation of, where practical, flexible business networks (FBNs) to minimize common purchasing costs across participating businesses, merge expertise to manufacture products, and conduct other common activities (i.e., marketing, employee training, use of expensive equipment, etc.).
- Support efforts to market the Marcellus Shale and a potential ethane cracker and other downstream development to this area.

- Market the benefits of Kanawha County and West Virginia to outside firms, including minimal traffic, low crime rate, quality education system and excellent college and post-graduate opportunities, suitable housing for various incomes, etc.
- Support and encourage the development of the West Virginia Regional Technology Park. The West Virginia Regional Technology Park offers flexibility and versatility alongside a robust infrastructure to provide new and existing tenants with the assets vital to their success. The Tech Park is home to over 25 businesses and 1,000 jobs and is committed to the continued growth of its multi-tenant park dedicated to research, innovation, technological advancement, and education. The 258-acre campus is ideal for STEM industries and institutions that diversify West Virginia's economy and drive business and economic growth.
- Publicly recognize exemplary local businesses at Kanawha County Commission meetings.

## **Education & Training**

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- Continue to support the Clay Center and the free admission program for Kanawha County school children.
- Encourage the Kanawha County School System to develop and implement initiatives geared to help children arrive at school healthy and ready to learn.
- Encourage the Kanawha County School System to establish adolescent health services in schools which offer youth programs.
- Encourage the WV Board of Education to define, monitor, and measure the effectiveness of the Kanawha County School System educational delivery system.
- Encourage the Kanawha County School System to clearly articulate the performance level expected of both educators and students.
- Encourage the Kanawha County School System to work with local businesses and industries to make adjustments to the educational delivery system to accommodate the current and future needs of commerce, industry, government, and the community.
- Encourage the Kanawha County School System to develop, use, and expand access to information technologies and the Internet in all educational settings.
- Encourage the Kanawha County School System, along with responsible neighborhood groups, to establish, where appropriate, a "Community Schools Program" to develop existing schools as community centers to host community events and programs during non-school hours.
- Continue to support the Kanawha County Public Library.
- Encourage all local colleges and universities to work with local businesses to develop and update curriculum to reflect job skills and knowledge vital to today's business environment. Also, encourage all local colleges and universities to expand access to all educational settings.
- Continue to support the Region III Workforce Development Board of Kanawha County in its mission to meet the ongoing demand for services and training for Kanawha County's youth, both in school and out of school, unemployed and underemployed (adult) workers, who qualify for WIOA assistance, as well as dislocated workers and for providing guidance to better educate men and women about higher paying jobs and careers.

## **Farms & Agriculture**

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- Work with the WV Department of Agriculture to encourage the continued use of large and small farms and agricultural tracts of land.

- Encourage the WV Department of Agriculture and the WV Legislature to secure adequate tax incentives for preservation of farm and agricultural operations.
- Work with the WV Department of Agriculture, the WV Department of Environmental Protection, and the WV Department of Natural Resources to protect existing farms from any adverse impacts caused by new, adjacent, or nearby land development (i.e., soil erosion and sedimentation).
- Encourage the WV Department of Agriculture to preserve and expand existing agricultural services that enhance farm operations and increase profitability.
- Collaborate with the WV Department of Agriculture, WVU Extension, and local colleges to offer certification courses in farming and agriculture.

## **Human & Family Services**

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- Encourage the Kanawha County School System, the WV Department of Health, and the WV Department of Human Services to support existing and establish new child and youth development programs in the public schools (i.e., after-school mentoring programs, adolescent health services, etc.)
- Encourage the WV Department Health and WV Department of Human Services to create family resource center(s) for coordinated delivery of primary health, human, and job services, and to provide services that increase opportunities for parents to reenter the labor force, located in communities where people most need them.
- Encourage and support the public and private expansion of adult independent living, and programs/resources that increase opportunities for seniors to remain independent.

## **Natural Resources, Environment & Conservation**

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- Continue to follow the objectives and implementation of the plan for flood mitigation and control.
- Oppose legislation that seeks to impose unrealistic flood insurance rate increases on residents and businesses.
- Initiate a public awareness program—in conjunction with the administrative permit review and approval procedure—to clarify flood insurance available under the Flood Disaster Protection Act.
- Continue to use the Kanawha County Commission's web site and social media to publish the library of publications on flood insurance, protecting buildings from flood damage, and local contacts for flood emergencies and recovery.
- Support the WV DEP as they regulate the timbering and mining operations and new large-scale developments and storm water run-off as it pertains to streams, rivers, and waterways by requiring a stormwater management plan.
- Acceptance of Community Rating System for lower flood insurance premiums.
- Mitigate flood zone properties for potential use in agriculture and/or community recreation.
- Mitigate stream blockages in flood-prone areas. Coordinate with local groups and watersheds to identify areas of concern.
- Update maps of flood-prone areas, flood hazards, and repetitive loss properties as part of implementing the county-wide Geographic Information System (GIS).
- Develop a comprehensive guide to best management practices and ecologically based development and stormwater run-off.

- Assist local groups and communities with grants for the revitalization of brownfields as defined by Environmental Protection Agency (EPA) standards.
- Propose legislation to focus on incentives, access road funding, workforce training funding and other programs to encourage new development at brownfield sites.
- Continue and enhance the Kanawha County recycling events.

## **Planning, Management & Governance**

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- Maintain and update the 2025 Comprehensive Plan as needed and issue a complete update every 10 years.
- Plan, program, budget, and adequately staff new public-sector initiatives.
- Develop and implement strategies/programs to recruit highly qualified persons to careers in local government.

## **Public Health, Fitness & Safety**

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### ***Public Health and Physical Fitness***

- Encourage local health advocacy groups, comprised of public and private health groups, local schools, and private practitioners, to maintain a statistical profile of public health and wellness indicators, recommend actions and programs to correct inadequacies in present services, and draft a plan for establishing satellite health care clinics and wellness programs in geographic areas of pressing need.
- Continue to provide support and financial assistance to local agencies, clinics, and organizations with the goal of promoting public health.
- Encourage development of workplace wellness programs in Kanawha County.
- Encourage local schools and community centers to offer adolescent health services and youth fitness programs.
- Encourage the Kanawha-Charleston Health Department to review and maintain vital statistics on public health risks, especially those regarding heart disease, meth labs, prescription drug abuse, physical fitness, and use of tobacco.
- Encourage the Kanawha County School System to open public schools, where practical, for year-round community recreation.
- Encourage enclosed malls and other indoor, protected locations to provide safe places for walking in any weather.
- Encourage the Kanawha-Charleston Health Department to establish programs to control communicable disease.

## *Public Safety and Emergency Services*

- Continue developing through KPEPC (Kanawha-Putnam Emergency Planning Committee) as needed, countywide emergency procedures and protocols, reporting and training as required by the State.
- Kanawha County Department of Homeland Security and Emergency Management will continue to benchmark, monitor, review emergency responses and adopt performance standards for all Kanawha County emergency response agencies.
- Encourage installation of fire hydrants in areas underserved where water pressure is available.
- Continue to work with the fire service districts as determined by the WV State Fire Commission, where each VFD is assigned to first, second, or third.
- Continue to use the 2 County Training Centers sponsored by RESA 3 with a burn building and drill tower.
- Support and assist the Kanawha County Fireman's Mutual Aid Association as they develop and deploy a countywide recruitment campaign and training program for volunteer firefighters.
- Continue to require IRS 990 tax information for volunteer fire departments in order to receive County Commission funding.
- Encourage KCEAA to establish location criteria for installation of Automatic External Defibrillators (AEDs) to meet the needs of emergency service personnel and administrators.
- Continue with the RESA 3 regional Emergency Service Training programs to meet the needs of emergency service personnel and administrators.
- Encourage KCEAA to establish a county-wide CPR system that can be monitored and quantitatively measured.
- Continue working to advance the Metro 911 system to the Next Generation level.
- Continue to use lines of communication between State and local emergency officials, using interconnected Comm Centers (i.e., Metro 911), and other technological advancements.
- Explore potential municipal and county program consolidation, in arenas where it would result in greater effectiveness, consistency, and economy of scale.
- Encourage Kanawha County public facilities to become compliant with the Americans with Disabilities Act (ADA).
- Encourage neighborhood watch groups to enhance community safety.
- Encourage a county-wide fire safety education program to teach fire safety to the community.
- Encourage a smoke alarm program to make sure every household in Kanawha County has at least one working smoke alarm.
- Revise as needed the Kanawha County Wrecker Dispatch Policy (Towing Policy) to guarantee wrecker companies are dispatched in a safe and efficient manner.

## **Recreation, Entertainment & Tourism**

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- Encourage the Kanawha County Board of Education, University of Charleston, West Virginia State University, Kanawha County Parks and Recreation, and local cities to establish countywide infrastructure of outdoor athletic fields designed to support community-based softball, baseball, soccer, football, and other sports organizations.

- Promote to all citizens the multitude of opportunities for recreation, leisure, and exercise that exist in Kanawha County.
- Encourage the State to promote Kanawha State Forest, including encouraging the State to build a new, improved access road to the forest. Assist with locating funds to make other improvements at Kanawha State Forest.

## **Utilities & Infrastructure**

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- Plan, program, budget, fund, and construct expansion of the existing water treatment and water distribution systems as is practical.
- Modernize and/or consolidate existing Public Service Districts (PSDs) to meet the demands of the 21<sup>st</sup> century as funds become available.



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# Development and Organization of the Comprehensive Plan

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The *Kanawha County Comprehensive Plan* was developed through a planning process that elicited broad-based community consensus around a workable and widely supported comprehensive development plan for Kanawha County, West Virginia. The *2025 Comprehensive Plan* again sought out input from the community, in order to refresh and update the Plan.

The product of this planning process—the *2025 Kanawha County Comprehensive Plan* will provide Kanawha County with a vision for public policies and guidelines for managing change, a programmatic framework for undertaking specific actions, and a focus for defining the most relevant components of change. In order to be successful, all future amendments to the plan will also be built upon the firm foundation of citizen participation, consensus building, public awareness, and empowerment.

The Comprehensive Plan serves multiple functions. It is an "official" expression of what the community wants. It is a statement of vision, mission, and goals. The plan document includes a listing of specific objectives, and strategic steps for their implementation. In addition, the plan considers all current Kanawha County ordinances and the role these ordinances play in furthering the plan's goals.

The *2025 Comprehensive Plan* is also intended to be an educational tool. The plan helps everyone who uses and is involved with the development process to understand the conditions, problems, challenges, and opportunities within Kanawha County by providing key factual information. Finally, the plan serves as a guide to public and private decision-making that serves to shape the future of our community.

## Plan Organization

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This Comprehensive Plan is organized around 12 content areas which reflect the work of the same number of Comprehensive Plan Element Committees (CPECs) that formed in 1996 to begin the task of visioning, composing mission statements, and drafting goals and objectives for the Comprehensive Plan. The all-volunteer citizen committees were organized into the following focus groups:

Arts & Culture	Human & Family Services
Building, Housing & Development	Natural Resources, Environment & Conservation
Transportation	Planning, Management & Governance
Economic Development	Public Health, Fitness & Safety
Education & Training	Recreation, Entertainment & Tourism
Farms & Agriculture	Utilities & Infrastructure

While the planning process was intended to be all-inclusive rather than exclusive, the identification of initial contacts was far from comprehensive in scope. In December 1996 and January 1997, initial contacts were made with over 130 prospective "participants"—local organizations, institutions, businesses, industries, and individuals. By March 1997, the potential membership roster had grown to well over 1,200. Not all prospective participants chose to actively participate, but new members were welcome to join any of the twelve Comprehensive Plan Element Committees (CPECs) during the comprehensive planning process.

The Kanawha County CPECs repeatedly met over a period of months to discuss and debate the strengths, weaknesses, opportunities, and threats related to their individual topics. Staff compiled the work of each committee to prepare the

recommendations above. The recommendations are built on the CPECs' deliberation of each element and their agreement on:

**Vision Statements**—by “beginning with the end in mind” (Stephen R. Covey), the committees stated the desired end result of the planning effort in the most concise terms possible.

**Mission Statements**—both the public- and private-sector roles are reflected in the committees' statements of community mission.

**Goals**—one of the several concepts or major accomplishments necessary to perform the mission and realize the work.

**Objectives**—major achievements or benchmark projects necessary to reach stated goals.

**Strategies**—proposed actions, key players, and essential components of success.

**Key Indicators** (included where appropriate)—units by which future change and/or effectiveness may be measured.

This revised document provides public officials and citizens with the opportunity to review the final draft with its recommendations based on the current planning estimates. In many instances, there are “cross-cutting” issues, goals, objectives, and proposed actions.

## Legislative Guidance

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Comprehensive planning is a collaborative process that involves both public- and private- sector participants. Partners in the planning process have their own special concerns, but the basic or core issues they address affect the entire community—developments, social policy, historic preservation, transportation, housing, economic development, policy planning, environmental protection, public health and safety, and urban design.

In conformance with West Virginia State Code, §8A-3-1, the general purpose of a comprehensive plan is to guide a governing body to accomplish a coordinated and compatible development of land and improvements within its territorial jurisdiction, in accordance with present and future needs and resources.

- A comprehensive plan is a process through which citizen participation and thorough analysis are used to develop a set of strategies that establish as clearly and practically as possible the best and most appropriate future development of the area under the jurisdiction of the planning commission. A comprehensive plan aids the planning commission in designing and recommending to the governing body ordinances that result in preserving and enhancing the unique quality of life and culture in that community and in adapting to future changes of use of an economic, physical or social nature. A comprehensive plan guides the planning commission in the performance of its duties to help achieve sound planning.
- A comprehensive plan must promote the health, safety, morals, order, convenience, prosperity and general welfare of the inhabitants, as well as efficiency and economy in the process of development.

### The purpose of a comprehensive plan is to:

- Set goals and objectives for land development, uses and suitability for a governing body, so a governing body can make an informed decision.
- Ensure that the elements in the comprehensive plan are consistent.
- Coordinate all governing bodies, units of government and other planning commissions to ensure that all comprehensive plans and future development are compatible.
- Create conditions favorable to health, safety, mobility, transportation, prosperity, civic activities, recreational, educational, cultural opportunities and historic resources.
- Reduce the wastes of physical, financial, natural or human resources which result from haphazard development, congestion or scattering of population.

- Reduce the destruction or demolition of historic sites and other resources by reusing land and buildings and revitalizing areas.
- Promote a sense of community, character and identity.
- Promote the efficient utilization of natural resources, rural land, agricultural land and scenic areas.
- Focus development in existing developed areas and fill in vacant or underused land near existing developed areas to create well designed and coordinated communities.
- Promote cost-effective development of community facilities and services.

## Citizen Participation

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Traditional planning principles have always required broad citizen participation in order for any plan to be developed, adopted, implemented, effective, or successful. To prepare a comprehensive development plan for Kanawha County, one needed to research current needs to best estimate what the plan will include and then allow for public comment and feedback. In order to complete the *2025 Comprehensive Plan*, the Kanawha County Planning Commission adopted a public participation plan that included public meetings held in various locations throughout the county and the posting of a draft of the *2025 Comprehensive Plan* online for public comment.

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# *2025 Kanawha County Comprehensive Plan*

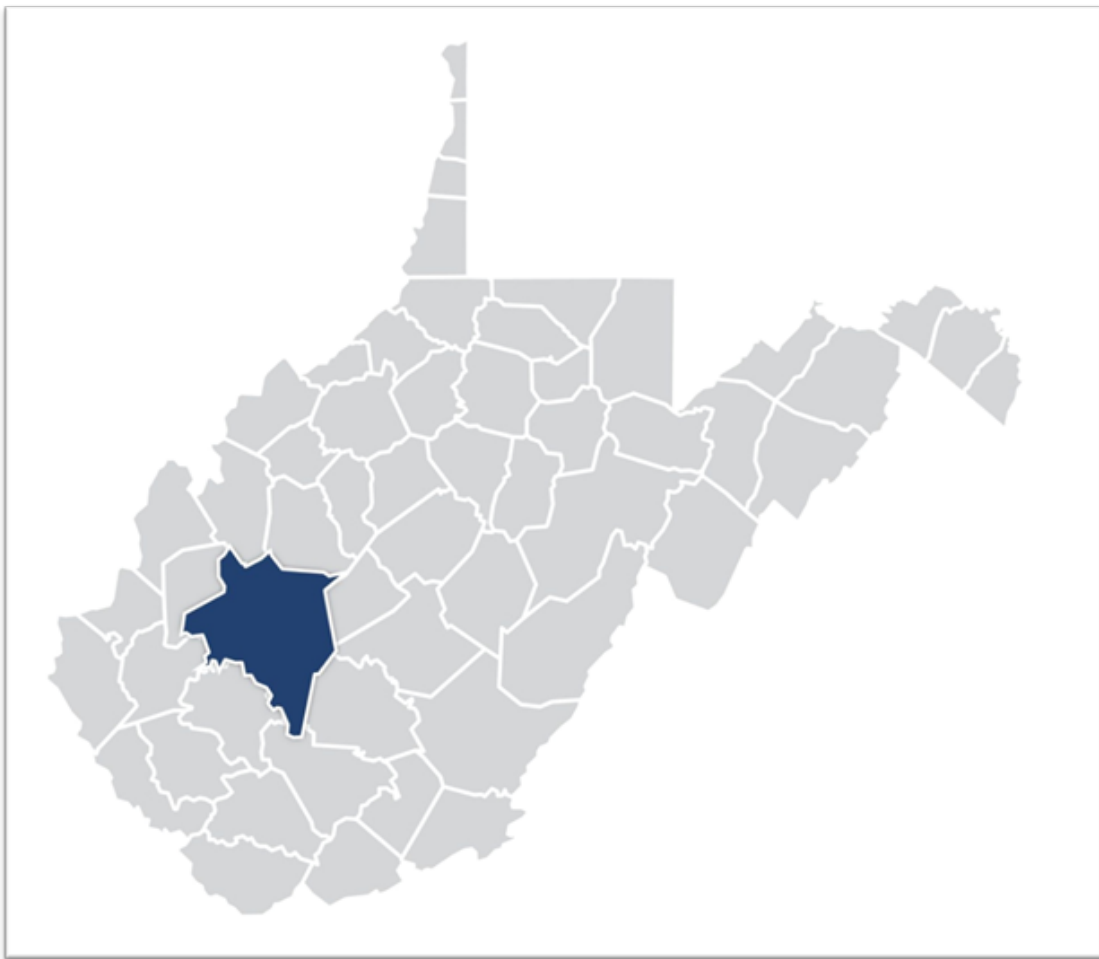
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This section of the document is the heart of the Comprehensive Plan. It is organized into 12 subsections, according to the content areas addressed by the Comprehensive Plan Element Committees. These subsections elaborate on the recommendations for each of the content areas (*Recommendations for all content areas are also shown starting on page 6*).

Each of the 12 subsections proceeds according to the outline below.

- I. Vision Statement
- II. Mission Statement
- III. Goals, Objectives, and Strategies
- IV. Discussion of (content area) Issues in Kanawha County
- V. Summary of Recommendations

The mission statement, goals, objectives, and strategies further establish a clear direction for each content area and provide a means of measuring the Comprehensive Plan's progress and effectiveness. It is anticipated that additional objectives and strategies for the goals in each subsection may be developed during the period covered by this plan. In such cases, all action elements must correspond to an appropriate vision statement in this plan.



# Arts & Culture

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## *Vision*

A lively cultural environment where citizens have a greater appreciation of our cultural heritage and diversity; where music, opera, literature, painting, sculpture, theatre, dance, and architecture are shared human values that serve to strengthen the soul and fuel the spiritual growth of the community.

## *Mission*

To inspire greater appreciation of cultural activities.

## *Goals, Objectives and Strategies*

*The following goals and objectives are numbered for identification. The sequence below is not intended to set priority for implementing items.*

- GOAL 1: Provide curricula and exposures that develop an abiding appreciation across a broad spectrum of cultural activities for people of all walks of life.
- OBJECTIVE: Work with various art groups to establish an annual calendar of cultural events and programs that provide "something for everyone to enjoy."
- GOAL 2: Maintain the outstanding West Virginia Symphony Orchestra and the Clay Center as the foundation upon which other cultural activities can build and gain support.
- GOAL 3: Support the Clay Center and Cultural Center museums for art, performing arts, natural history, cultural history, science, and industry (i.e., fossils, minerals, and wildlife).
- GOAL 4: Encourage a wide range of cultural offerings/preforming arts to satisfy a variety of individuals' tastes, preferences and interests (i.e., theaters of varying sizes, patronage of non-professional performing, fine, and creative arts).
- OBJECTIVE: Encourage and work to create more events for cultural preforming arts with non-profit groups and organizations.
- GOAL 5: Work with the Charleston Convention and Visitors Bureau (CVB) and Central West Virginia Convention and Visitors Bureau (CVB) to continue to attract tourists, foreign visitors, and resident artists, writers, and performers to Kanawha County. Continue supporting festivals and events such as the Sternwheel Regatta, Multifest, FestivAll, Live on the Levee, Yak Fest and others.

## *Discussion of Arts & Culture Issues in Kanawha County*

Located at the interchange of three Interstate highways and within a two-hour drive of 80 percent of the state's residents Kanawha County is well positioned to continue its growth as an "arts and culture hub" for West Virginia.

One key part of that development is the Clay Center for the Arts and Sciences in Charleston. The Kanawha County Commission has annually donated \$100,000 to help fund various children's events at the Clay Center.

The Clay Center is located in Charleston, on a four-acre lot located between the city's central business district and the State Capitol. It opened in 2003 and has stimulated a lively cultural environment where citizens have a greater appreciation of the area's cultural diversity.

The Clay Center serves Kanawha County residents and other visitors with its educational outreach program, Sunrise Museum, cultural opportunities, and tourism. The Clay Center is the permanent home of the WV Symphony, and also hosts some Broadway shows performed by the Charleston Light Opera Guild.

### ***Summary of Recommendations***

- Encourage curricula and exposures that develop an abiding appreciation across a broad spectrum of cultural activities for people of all walks of life.
- Support establishment of an annual calendar of cultural events and programs.
- Continue to support the Clay Center for the Arts & Sciences.
- Encourage incorporation of more public art in public areas of the county.
- Support the initiatives and recommendations contained in the City of Charleston's IMAGINE CHARLESTON Comprehension Plan adopted in 2013 and amended March 2024.

# Building, Housing, & Development

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## *Vision*

A sustainable built environment that is safe, attractive, functional, livable, economically stable, and efficient in the use of land, energy, and other resources.

## *Mission*

To protect, preserve, and enhance both the natural and built environments; to accomplish both environmental and land development objectives.

## *Goals, Objectives, and Strategies*

*The following goals and objectives are numbered for identification. The sequence below is not intended to set priority for implementing items.*

- GOAL 1: Continue to update and apply Subdivision Regulations for minimum performance, quality, and safety standards for new and expanded subdivisions.
- OBJECTIVE: Require and enforce stormwater management plans for new and expanded subdivisions, and new cell towers.
- OBJECTIVE: Enforce Stream and Culvert Mitigation Ordinance.
- OBJECTIVE: Enforce floodplain management codes.
- STRATEGY: Oppose any legislation that will unfairly increase flood insurance rates for Kanawha County homeowners and businesses.
- OBJECTIVE: Update and enforce fill, land subdivision and development regulations.
- STRATEGY: Continue to use and modernize Kanawha County Subdivision Regulations, to simplify developer compliance, permit processing, and public administration.
- GOAL 2: Encourage development along existing transit corridors, near a range of transit alternatives, close to employment centers, and on rehabilitated brownfield sites, where appropriate.
- GOAL 3: Encourage citizen participation in government, addressing community issues, and promote public discussions that identify solutions to local problems.
- GOAL 4: Encourage cooperation among Kanawha County communities for collaboration on issues such as affordable housing, economic development, and developments that transcend political jurisdictions.
- GOAL 5: Examine undeveloped areas or areas not served by water and sewer systems to determine the practicality of the capital costs of infrastructure, such as road, water distribution, and sanitary sewer construction.
- GOAL 7: Encourage the use of public open space networks and "greenways" (especially Kanawha, Elk, Coal and Pocatalico riverfront corridors).
- OBJECTIVE: Consider new opportunities for outdoor recreation, exercise, and alternative transportation (i.e., bikeways, and trails).
- OBJECTIVE: Encourage and support trail development systems in the Upper Kanawha Valley.





## ***Discussion of Building, Housing & Development Issues in Kanawha County***

Though Kanawha County is one of the largest counties in West Virginia, there is fierce competition for its very limited land resources. Residential, commercial, recreational, and industrial developments—among others—must find suitable sites for development without creating hardships or run-off issues in the surrounding community.

Kanawha County totals 902 square miles in land area, or approximately 576,000 acres. An estimated 40,000 acres (7%) is developed or built-up. The remainder (93%) is either agricultural, barren, forestland, waterways, jurisdictional wetlands, or undevelopable due to terrain.

### **Development Patterns**

Existing development patterns reflect the severe physical constraints of adverse topography, soils, geology, and other barriers, such as rivers, streams, and floodplains. Both the earliest human settlements and more recent urbanization have occurred along the Kanawha River Valley and adjacent areas. These lands have proven to be both the most accessible and buildable sites for new development and redevelopment. Development by general category includes:

#### ***Residential***

The majority of all urbanized or built-up land in Kanawha County is used for residential purposes. Approximately 27,000 acres (4.7%) are dedicated to single-family and multi-family dwellings.

The greatest concentrations of residential developments and population densities are found in the Charleston-Dunbar-Nitro corridor on the north side of the Kanawha River, and Charleston-South Charleston-St. Albans corridor located on the south side of the valley.

A total of sixteen riverfront municipalities are located on the Kanawha and Elk Rivers. Numerous unincorporated communities are also found along the river courses and minor tributaries.

Low-density residential land development has also occurred on hillside and mountain tracts, adjacent to the river valleys. Most recently, ridge top residential development has increased in frequency as the demand for new housing continues to exceed the supply of suitable building sites. One such site is the Eagle View Apartments and Townhomes located in Charleston, WV.

#### ***Commercial***

Less than 5,000 acres (0.9%) in Kanawha County are dedicated to service and commercial developments. Commercial development is predominantly located within the corporate boundaries of the river cities. The principal Central Business District (CBD) is located in the City of Charleston, with smaller CBDs located in the cities of Dunbar, Nitro, St. Albans, and South Charleston. Strip commercial development can be found in the remaining municipalities, on all principal highways, most minor, and some collector routes.

Large-scale strip commercial developments—Southridge Centre, Dudley Farms, and Shops at Trace Force—are open on Corridor G (US Route 119), south of Charleston. This development cluster was the first major suburban shopping center of its kind in Kanawha County, built on entirely man-made sites.

Other commercial centers are located adjacent to the Cross Lanes interchange of I-64, near the Mardi Gras Casino and Resort and in Kanawha City at The Shops at Kanawha. In addition, Park Place is currently under development in South Charleston and will be home to large anchor stores, retail outlets and restaurants.

Unlike most US metropolitan areas, there was not a proliferation of suburban shopping malls in Kanawha County. The Charleston Town Center Mall was once one of the largest enclosed inner-city shopping malls east of the Mississippi River, but many stores in the Town Center have closed over the past 10 years and the future of the Town Center remains uncertain.

#### ***Industrial***

Approximately 3,400 acres (0.6%) have been or are being used for industrial purposes in Kanawha County. Again, such development has been limited to the river valleys due to the availability of highways, railways, and water-borne transportation facilities.

The Civil War-era salt works, located at Malden, have been replaced by chemical manufacturing operations located throughout the Kanawha Valley. Dow Chemical (formerly a Union Carbide Corporation plant), ALTIVIA, Chemours, Arclin, Covestro, Solenis, US Methanol and other major companies have plants sited at Belle, Charleston, Institute, Marmet, Nitro, and South Charleston.

### ***Agricultural***

Kanawha County has approximately 232 farms, including cropland and pasture, covering approximately 23,024 acres (3.9%).

Family farms account for 98% of the farms in Kanawha County, with 10% of farms selling directly to consumers.

### ***Barren Land***

Surface or strip mine operations, quarries, gravel pits, and transitional areas involve about 8,900 acres (1.5%) in Kanawha County. The majority of active mining operations are located in the eastern portion of the county.

Most of the mine sites in Kanawha County have been or will be reclaimed during the next decade and represent a tremendous opportunity to satisfy existing and future market demand for new buildable sites for large-scale development.

### ***Forest Land***

Forest Land is by far the most dominant category of all existing developments in Kanawha County. Undeveloped forestland involves more than 515,000 acres of that only 150 acres are evergreen; 381,000 acres are deciduous; and the balance is mixed growth.

## ***Topography***

Only 40,463 acres, or 7.0% of the total area of Kanawha County, involve average slopes less than 9%. This land is readily developable and corresponds directly to the 40,000 acres of existing urban and built-up developments.

An additional 52,024 acres (9.0%) have slopes ranging between 9% and 16%. These areas are suitable for sparse, low-density, low-intensity developments. Approximately 46,244 acres (8.0%) involve slopes of 17% to 24%, which require substantial earth moving, foundation, stabilization, and stormwater management improvements.

More than three-quarters of the total area of Kanawha County (439,318 acres) lies on a 25% to 75% slope and is considered to be either financially or physically undevelopable.

### **Recommendation**

Continue to enforce and update the Kanawha County Subdivision Regulations and Cell Tower Regulations.

In order to establish minimum performance requirements and to implement various goals and objectives of this Comprehensive Plan, continued enforcement of the Subdivision Regulations and other Ordinances, are recommended for Kanawha County. In addition to other issues that may be deemed relevant, the Subdivision Regulations and other Ordinances may encompass:

- A road structure plan,
- Mobile home park regulations,
- Subdivision regulations,
- Water and sewer utility locations,

- Stormwater guidelines and regulations.
- Cell tower regulations, video lottery restrictions, adult entertainment establishment restrictions.
- Floodplain regulations

### **Subdivision Regulations**

Due to the extremely limited supply of developable land in Kanawha County, wise subdivisions regulations, and establishment of orderly, quality subdivisions are essential to the successful residential development of the community.

The residential development section of any comprehensive plan is usually implemented through development, adoption, and enforcement of subdivision regulations in unincorporated areas and zoning ordinances in municipalities. In West Virginia, the control and regulation of residential and commercial developments and zoning is principally used by municipalities. Only a few counties have adopted zoning codes for unincorporated areas. Kanawha County residents have expressed no desire for zoning in the unincorporated areas.

Kanawha County does use ordinances to control and ensure quality for new cell towers, and ordinances to control adult entertainment establishments, video lottery establishments, and mobile home parks. Kanawha County has also adopted and enforced a strong Public Nuisance Ordinance, which includes a Meth Lab Boarding and Clean-up Addendum. This ordinance helps communities from becoming ridden with trash and debris, protecting existing homeowners. These ordinances are good examples of innovative local controls to help communities.

Chapter 8A, Article 7, Section 1 of the West Virginia Code gives the Kanawha County Commission the power and authority to classify, district, regulate, and restrict the use of land and the intensity of developments, and to establish minimum standards for development, but this type of development control is most commonly known as “zoning,” and involves adoption of both an ordinance (performance standards, rules, and regulations) and official map (zoning districts), which is not an option that Kanawha County plans to pursue any time in the foreseeable future.

### ***Rules and Regulations***

Any new planning ordinances or revisions to existing planning ordinances to be enforced must be reviewed by the Kanawha County Planning Commission, then submitted as a recommendation, along with explanatory documents, to the Kanawha County Commission.

### ***Final Report***

The Kanawha County Planning Commission then reviews the planned ordinance or revision to an existing ordinance. After proper public notice is given and public hearings are conducted, the Kanawha County Commission may consider the ordinance or ordinance revision adoption.

### ***Amendments to the Comprehensive Plan***

Any amendments, supplements, or changes of the rules or regulations of a county ordinance are automatically considered as amendments to the Comprehensive Plan.

### ***Development within a Subdivision Plan***

Principles for quality urban land development reinforce the concept that the most appropriate location for urban development is within municipal service area boundaries. Existing state enabling legislation and revenue sources do not support the County to deliver urban services throughout all areas. Urban development, for this reason, is often located within municipalities rather than the unincorporated portions of the County.

Development in unincorporated areas can occur if it meets basic service levels and is designed to be compatible with the policy or development plan for the adjacent city or town. Quality subdivision regulations are intended to make future annexation possible without costly improvements to streets and utilities and to ensure that developments approved in the County can be easily integrated into the fabric of the incorporated community when it is eventually annexed.

Both historic and recent development trends for new lots created in unincorporated portions of Kanawha County are very different from urban subdivisions. Average lot sizes are much larger than those generally associated with urban

development, at about 0.9 acres per unit. Not only are new building lots in unincorporated areas of the County often much larger than typical urban lots, they also often lack basic services such as public water and/or sanitary sewer, solid waste collection, and community policing.

Solid subdivision regulations create resulting development patterns that create quality enclaves of rural-type development adjacent to the urbanized area, minimizing problems for future annexation and extension of public utilities and roads. The Comprehensive Plan contains principles for strengthening requirements for all new development within the Growth Management Areas, which should be consistent with urban standards developed and jointly adopted by municipalities and the County.

### ***Land Redevelopment Plans***

Some areas of Kanawha County have already been developed and are now in need of redevelopment. Many sites that were once active now lay idle. Some prime development sites are underutilized while other built-out lands were never suitable for construction.

Due to the extremely limited inventory of sites suitable for building and new investment in Kanawha County, land redevelopment is an option for developers to consider. Such special sites include:

- Brownfield Sites
- Flood Hazard Areas
- Surface Mine Sites
- Parks and Public Open Lands
- Vacant Building and Sites
- Slum and Blighted Areas

***Brownfields*** are contaminated sites that previously hosted commercial and industrial development, but are now either abandoned, idle, or underutilized due to the tremendous expense of environmental cleanup and redevelopment.

Nevertheless, these historic sites of community activity and employment represent our best prospects for accommodating new investment and jobs in the near term.

Due to their location, size, and serviceability by public utilities, brownfield sites merit special public attention and effort.

***Flood Hazard Areas*** are defined by the Federal Emergency Management Agency (FEMA) as depicted on Federal Insurance Rate Maps (FIRM), available in the Community Planning and Development Office.

These areas are not well suited for new construction of any type of habitable structures, but may be useful for other public purposes, (i.e., outdoor recreation facilities and agricultural developments). All habitable structures located within the flood hazard areas (floodways and flood plains) are at significant risk during flash flood events, as are their occupants.

As funding becomes available, flood plain properties should be redeveloped for more suitable developments.

***Surface Mine Sites*** and mountaintop removal operations represent a new opportunity for introducing large tracts of land to the inventory of buildable sites in Kanawha County. These sites total in the thousands of acres, but lack basic infrastructure (i.e., suitable access roads, water, and sewer service).

While few existing surface mine sites are located on the urban fringe, in close proximity to highways and public utility service areas, future growth patterns are expected to envelop these sites. When this occurs, once isolated mountaintops will become ideal locations for residential, commercial, and light industrial development.

To take full advantage of these future opportunities, the design, management, and reclamation of surface mine operations must be coordinated with post-mining redevelopment.

Access road alignments, earthmoving operations, drainage, and utility plans should be incorporated as part of a Master Plan for Redevelopment of Surface Mine Sites.

**Parks and Public Open Lands** include all properties owned and operated by federal, state, and local units of government. Parks, outdoor recreation facilities, and open space lands are necessary to assure a high quality of life for the residents of the community. Such lands are in short supply in Kanawha County.

Expansion and redevelopment of existing facilities to meet the needs of the resident population can be the most effective means of satisfying future levels of demand.

**Vacant Buildings and Sites** of various sizes and types are located throughout Kanawha County. They range from small residential sites suitable for infill development to large, obsolete industrial buildings.

Many of these buildings and sites are in need of special efforts before they can be reintroduced as useful and productive properties, contributing to the County tax base.

It is in the public's best interest, as funds arise, to clear such sites of obsolete improvements and solid waste, to eliminate property liens or flaws in the title, or perform other such tasks necessary to prompt new investment and redevelopment.

**Kanawha County Demolition Grant Program** The Kanawha County Commission adopted the Kanawha County Demolition Grant Program in March 2022. The Kanawha County Commission working in coordination with the Kanawha County Enforcement Agency and the Kanawha County Regional Development Authority makes grant funding available to property owners to facilitate the demolition of abandoned, dilapidated, and blighted structures. The property owner agrees to be responsible for 50% of the expenses incurred for the demolition and the Kanawha County Commission provides a grant to cover the remaining 50% of the cost up to \$10,000. The purpose of the demolition grant program is to curb blight, effectuate the removal of unsafe and unsanitary structures, encourage safe neighborhoods, promote development and revitalization of communities, and promote the highest and best use of property.

#### **Recommendations**

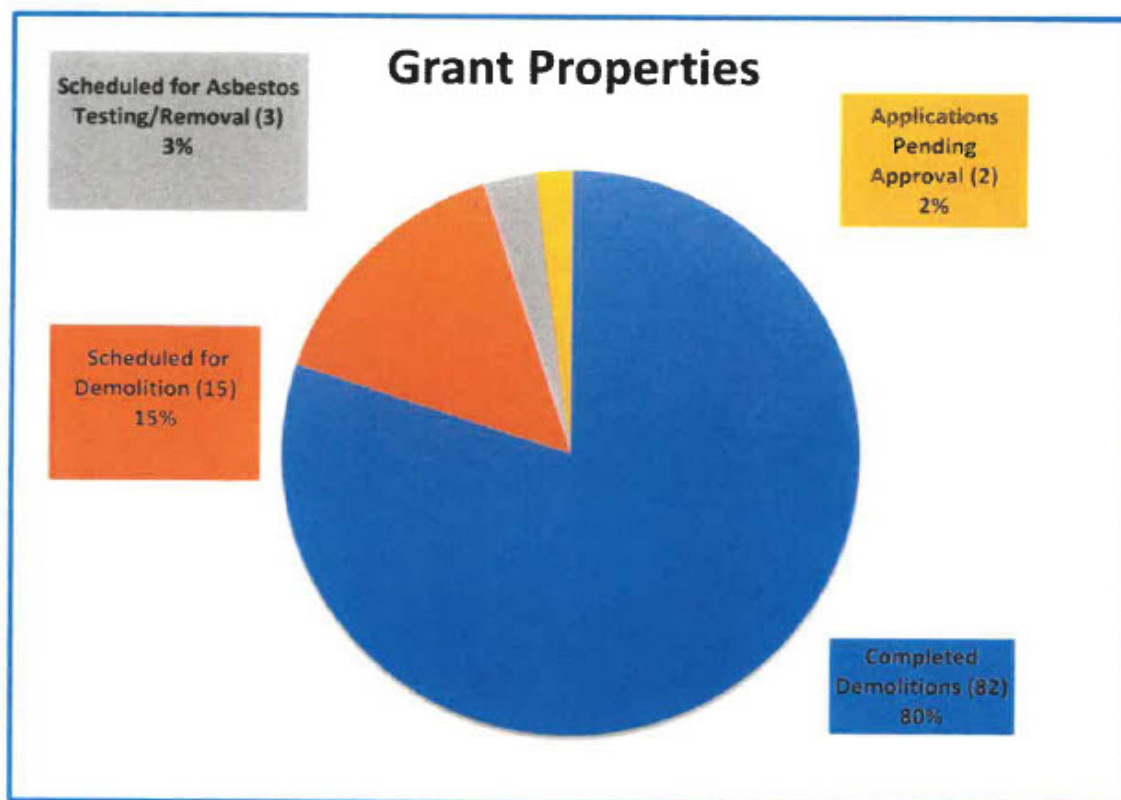
Continue the demolition program for dilapidated, abandoned, meth-contaminated and substandard structures. Continue to use building permit fees to fund demolitions. Actively seek grant funding where available.

**Slum and Blighted Areas** are detrimental to public health, safety, and welfare due to their present condition and use. Such areas constitute a serious and growing menace to the residents of the County. These areas necessitate excessive and disproportionate expenditures of public funds for the preservation of public health and safety.

Their very existence substantially impairs or halts the sound growth and development of communities and inhibits the provision of adequate, safe, sanitary, and affordable housing opportunities. Slum and blighted areas are very appropriate for special consideration for demolition. The Kanawha County Planning and Development Office and the Kanawha County Enforcement Agency identifies abandoned structures that are unsafe. The Kanawha County Enforcement Agency meets on an as needed basis to review and prioritize the current list of blighted structures for possible demolition.

# Kanawha County Demolition Grant Program

Update May 15, 2025



- **102 Total Properties**
- **56 Completed Demolitions Paid in Full**
- **8 Liens Placed on Properties**
- **Total Estimated Cost \$1,031,506.45**
- **Total Estimated Owner Cost \$536,497.70**
- **Total Amount Paid \$343,754.20**

### ***Urban Services in Rural Areas***

Further, this Comprehensive Plan acknowledges that Kanawha County will not provide the broad range of services necessary to support a quality urban environment throughout the remote, rural areas of the County. The projected cost of delivering a higher (i.e. municipal) level of service to the entire population of Kanawha County would not be sustainable. In addition to being cost-prohibitive and inequitable, selective delivery of urban services by the County would support and encourage suburban sprawl as well as threaten the rural lifestyle that nearly half the county's resident population has come to enjoy.

### ***Water and Sewer Service Related to Developments Planning***

The vast majority of Kanawha County households are served by public water and wastewater systems. Only the most remote areas of the county depend on wells and/or septic tanks. To date, it has not been economically feasible to extend distribution or collection systems to low-density, rural areas.

As the total number and density of households grow in these communities, so does the prospect for extending public utilities. Neither state nor local units of government or agencies encourage or discourage this pattern of development.

Unless and until adequate plans and provisions are developed for extending public water and/or sewer service to remote, low-density areas, new land development in those areas may be impractical. For new construction in such areas of the county, building permits could be amended to include formal acknowledgement that public utilities are not available, and the Kanawha County Commission is not obligated, now or in the future, to finance the extension of public water and/or sewer services.

### ***Subdivision Regulations***

Haphazard subdivision of land, substandard access or land-locked parcels, inappropriate deed restrictions, and inadequate infrastructure are common man-made constraints to new land development. In addition, incompatible developments often undermine and diminish property values, and cause conflicts or public nuisances that deprive owners of the full utilization of their land. These and other factors can combine to create slum and blighted conditions. Enforcement of the County's Subdivision Regulations work to eliminate these conditions from new developments

Most of the development applications that are received by the Kanawha County Planning and Development office are for residential use in the unincorporated areas of the County.

Adverse topography (i.e., slopes of 15% or greater) serves to encourage large lot development in many parts of the County. In these situations, the protection and conservation of steep slopes should take precedent over other developments issues. Nevertheless, lot size and configuration should be encouraged to minimize sprawl and maximize sustainable land development patterns.

The existing Subdivision Regulations should be revised as needed to ensure quality developments. However, it is the intention that the changes to the Subdivision Regulations or other county ordinances will not detract from the property owner's ability to develop or use his land to its maximum. These revisions are planned to protect property owners and surrounding property owners by controlling storm water, erosion, and establishing standards for street and utility construction in new developments. They also may establish other construction standards associated with land development, which will facilitate controlled and efficient use of land.

### ***Streetscape Design and Construction***

Streetscape design is one of the most effective tools for establishing a sense of place, stabilizing neighborhoods, and encouraging private-sector investment. The application of streetscape design elements is encouraged for both existing and future land development projects.

Current standards for street design and construction in the Subdivision Regulations for Kanawha County ensure that future developments feature safe, attractive streets which are also durable and easy to maintain.

Street design standards may also be applied to existing (i.e., substandard) streets. Financing of these improvements could be problematic; however, current state law does make limited allowances for such public projects.

Elements of quality subdivision streets could include specifications for the following:

- Design and grading
- Base material
- Wearing course (pavement)
- Drainage
- Driveway entry
- Lighting
- Pedestrian facilities
- Line of sight
- WV Division of Highways Approvals for tie-ins to existing major thoroughfares.

### *Stormwater Management Guidelines and Requirements*

Among the most pressing environmental issues in Kanawha County are stream stabilization and the management of stormwater runoff.

Stormwater, sediment, and erosion control are problems most often cited by citizens. Common complaints involve the diversion or concentration of surface water runoff by upstream property owners. This usually results in property damage ranging from minor flooding to major erosion, undermining of improvements, or complete destruction.

Property owners must rely on the legal system to solve their stormwater drainage problems, as this is a civil matter. However, the enforcement of the Subdivision Regulations requiring a stormwater management plan helps to mitigate these type problems for new subdivision construction and new cell tower construction in Kanawha County.

### *Special Area Plans*

Special area development plans and studies may be needed where local conditions present unique challenges, development issues, and development opportunities.

These conditions require more detailed investigation than is possible for the majority of the County's area, usually including a great deal of public focus and input. The outcome of the studies may be adoption of special development principles and implementation strategies that are tailored to the specific issues of the particular unincorporated area. However, at this time, no areas requiring special investigation have not been identified.

#### **Cross Lanes – Tyler Mountain Area Plan**

The Cross Lanes area is unique in Kanawha County. Its size and character are comparable to that of many incorporated towns in the State. The community has many facilities and services associated with an incorporated town, including elementary schools, a middle school, a small community park, a fire station, and public water and wastewater services.

#### **Kanawha State Forest and Environs**

Kanawha State Forest is owned and operated by the West Virginia Division of Natural Resources. West Virginia Region III (Boone, Clay, Kanawha, and Putnam counties) is the only area in the State that is not served by a state park. Kanawha State Forest is the only existing public recreation facility of adequate size to serve the needs of the region.

Although it is the largest tract of public property in the County, its size and location restrict patronage. Additional acreage, access routes, outdoor recreational, and other public facilities are recommended in the future to meet the needs of the existing and future resident population. In particular, development of the area between the



Kanawha River and State Forest lands would serve to expand opportunities for outdoor recreation and create a new, more safe and convenient means of ingress and egress.

### **Malden Historic District**

Located on the north side of the Kanawha River between the City of Charleston and the Town of Belle, the community of Malden is the oldest unincorporated settlement in the region. As such, there are valuable historic landmarks, sites, and structures located in Malden.

The preservation and protection of this district would serve to aid economic development through the improvement of property values and enhancement of the County's historic attractions to tourists and visitors. It also serves to aid the development of education in the county, state, and nation by preserving our heritage for future generations.

### **Route 119 – Corridor Plan for Appalachian Corridor G**

Significant growth has occurred since construction of US Route 119 was completed south of the Kanawha River. Higher levels of accessibility and public services have attracted residential, office, commercial, and industrial developers to the area. The Ridges of Rabel Mountain is a highly successful residential subdivision near Alum Creek off Corridor G.

Growth in traffic volumes has necessitated expansion of the original five-lane roadway to a seven-lane facility from WV Route 61 to the Southridge (shopping) Centre.

### **West Virginia International Yeager Airport Influence Area**

West Virginia International Yeager Airport, located between the City of Charleston and Coonskin Park, is operated by the Central West Virginia Regional Airport Authority, and serves both the southern and western regions of West Virginia.

The purpose of a Regional Airport Influence Area is to recognize benefits and potentially adverse impacts that may occur within certain distances from public aviation facilities, and to provide a policy framework to minimize these impacts as well as protect the safety and efficiency of aircraft operations. The economic effects of aviation, related to both air passenger and cargo traffic, are also to be considered.

The Airport Influence Area is based on a technical analysis of the West Virginia International Yeager Airport and extends 400 yards beyond the outer boundary of the critical zones, 55-decibel noise contour and/or the flight pattern boundary lines depicted in the Airport Master Plan.

The potential adverse impacts of airport operations are generally of two types. Within the critical zones that surround and extend beyond the runways, safety for persons and property is of concern. Within the noise contours surrounding the airport and under the flight paths, complaints from property owners, particularly residents of the area, can eventually change or even curtail aircraft operations.

At the same time, there are unique locational advantages for many types of developments being in close proximity to a regional airport. Aviation-related industries require suitable sites within or near airport facilities. It is in the public's best interest to make sure such sites are made available.

A Master Plan has been developed and adopted by the Central West Virginia Regional Airport Authority. Like the County's Comprehensive Plan, it is periodically updated. The Master Plan addresses many of the potential development conflicts, impacts, and opportunities around the airport. The areas surrounding West Virginia International Yeager Airport involve a variety of existing developments, including residential, commercial, and industrial uses.

Development plans should be developed to coincide with noise, critical area, flight paths, and development elements of the most recent Airport Master Plan. In particular, the areas east and northeast of West Virginia International Yeager Airport, which includes Coonskin Park, is identified as a potential impact area in the Airport Master Plan.

Future work should focus on improved alignment and coordination between the new Airport Master Plan and proposed zoning in the area. Adequate opportunities for future aviation-related development and expansion should be provided both on-site and off-site in the immediate proximity of West Virginia International Yeager Airport.

### Neighborhood Plans

The individual and cumulative strength of our neighborhoods make Kanawha County an attractive place to live, learn, work, and play. Special area and neighborhood developments plans and studies are appropriate where local conditions present unique challenges, developments issues, and development opportunities.

These conditions require more detailed investigation than is possible for the majority of the County's area, usually including a great deal of public focus and input. The outcome of the studies may be adoption of special development principles and implementation strategies that are tailored to the specific issues of the particular unincorporated area.

#### **Recommendation**

Encourage Neighborhood Community Improvement Groups for the 5 specified neighborhoods.

- ☐ Sissonville
- ☐ Lower Elk Valley (Elkview, Pinch, Big Chimney)
- ☐ Coal River
- ☐ Cross Lanes
- ☐ Institute-West Dunbar

Neighborhood Area	2020 Population	2020 Housing Units	2020 Employment
Sissonville	4,084	1,889	1,450
Lower Elk Valley	16,795	8,122	7,056
Coal River	18,238	8,385	8,101
Cross Lanes	9,727	4,626	4,685
Institute- W Dunbar	569	201	199

### Outdoor Advertising

Outdoor advertising and signage are regulated by the State of West Virginia, although the State's jurisdiction is restricted to the Federal Aid Highway System (i.e., interstate highways). Visual clutter (i.e., overhead utilities) and the proliferation of outdoor advertising may become a topic of special public concern in the future.

Subdivision regulations and county ordinances serve as the best indicator of local values and standards. These protections and guidelines that are in place tell others who and what we are, and what we think is important. It is, in effect, the equivalent of "body language" as Kanawha County communicates with the global economy.

## Gateways

A gateway is the entrance to a place or community. Due to its historic dependence upon rivers to define and shape the urban form, there are very few entrances into Kanawha County. River valleys and Interstate highway corridors now serve as the primary gateways to the community.

For many, these gateways constitute a first and lasting impression of Kanawha County. Special attention to and improvement of these key locations will serve to improve the community.

### **Recommendation**

Identify and improve all major entrances to Kanawha County as community gateways.

## Scenic Highway Corridors

Only one roadway in Kanawha County is currently designated a scenic highway. The Midland Trail, which extends from the State Capitol (Milepost 0) east to Lewisburg and beyond, follows US Route 60. While most of the Midland Trail Scenic Highway is very attractive, portions within Kanawha County are plagued with roadside eyesores.

The Midland Trail is only one of several potential routes for scenic highways in Kanawha County. Other routes may be developed in the future, but the Midland Trail Scenic Highway represents our best prospect for developing a heavily patronized route with interstate connections.

### **Recommendation**

Continue the scenic highway designation for US Route 60 and Midland Trail Scenic Highway.

## Design Principles

The generally accepted principles of quality Subdivision design are intended to create functional, safe, and attractive places to live, learn, work, and play. These principles address all the essential elements of the subdivision, including infrastructure (i.e., water, wastewater, utilities, stormwater drainage), circulation (vehicular and pedestrian), parking, amenities (i.e., landscaping, open space, recreational facilities), and accessory uses (i.e., storage, signage).

## Landmarks

Landmarks are key elements of any community and help establish a sense of place. They can take many forms, including significant buildings, public places, geographic features, scenic overlooks, or unique intersections.

Many of the landmarks in Kanawha County are of historic origin and deserve special protection. Others are less historically significant but still need to be preserved or enhanced. In some cases, new community landmarks need to be established where none currently exist.

## Neighborhood Conservation

Our individual neighborhoods serve to create diverse lifestyle, commercial, and housing opportunities throughout Kanawha County. Each has its own unique characteristics, assets, and liabilities. Among those liabilities are development patterns and trends that threaten to undermine those neighborhoods.

Neighborhood conservation means exactly what the term implies: the preservation of attractive, stable communities. This is a proactive approach to growth management in Kanawha County that serves to protect our citizens' most significant financial investment, their homes.

Like neighborhood conservation, community revitalization involves the same goals and process but is retroactive. For communities that have already begun to deteriorate, a revitalization plan composed by the neighborhood residents and volunteers maps out a solid strategy for redeveloping or revitalizing an entire neighborhood.

### *Tree Protection*

Trees serve to improve our living environment in numerous ways. An essential part of the ecosystem, they also provide protection from the adverse effects of sun and wind. Trees help to reduce energy consumption and serve to enhance the built environment.

### *Landscaping*

Kanawha County currently does not have any landscaping requirements for new multi-family residential, commercial, or industrial land development. Almost every professional developer and most southern states have become aware of the tremendous value of minimum landscaping requirements.

In addition to environmental benefits, well-landscaped properties are more attractive and yield significantly higher real estate values. When applied throughout a community, the overall positive effects of professional landscaping are overwhelming.

### *Public Art*

The City of Charleston has been a leader in promoting local artists through programs such as FestivALL and Artwalk. Similar initiatives should be supported and encouraged throughout Kanawha County.

Few places in Kanawha County are currently used for the display of public sculpture or art. Such displays would serve to stratify many of the goals and objectives expressed in this Comprehensive Plan.

### *Historic Preservation*

To protect, preserve, enhance, and promote the historic resources of Kanawha County, the state Historic Preservation agency has established and maintains an inventory of possible historic landmarks. The committee would also recommend which of these sites warrants use of public monies for acquisition, preservation, restoration, and/or maintenance.

The agency also reviews comments from representatives from local historic and preservation organizations, archeologists, architects, and historians. The State Historic Preservation Officer (SHPO) is an active participant in this process.

The duties and functions of the State Historic Preservation Agency include the following:

- Keeps a list of county landmarks and districts that should be acquired, preserved, restored, and/or maintained by public or private programs,
- Coordinates and develops plans for Kanawha County that protect, preserve, enhance, and promote the historic landmarks that are selected for preservation,

### *Historic Preservation Ordinance*

Adoption of a historic preservation ordinance may be considered in the future in implementing a countywide historic preservation program. Upon meeting criteria defined in West Virginia Code Chapter 8, Article 26A, and by the National Historic Preservation Amendments Act of 1980, Kanawha County would become eligible to apply for the Historic Preservation Certified Local Government (CLG) grant program. The program is a nationwide initiative providing technical assistance and grants to local governments seeking to preserve the important and significant aspects of their heritage.

The Federal law defines a CLG as any city, town, county, or parish that meets the following basic criteria:

- Enforces appropriate state and local legislation for the designation and protection of historic properties,
- Establishes an adequate and qualified historic preservation review commission by state and local legislation,
- Maintains a survey and inventory system for historic preservation properties within its basic jurisdiction,
- Provides for adequate public participation in local historic preservation programs, including the process of nominating properties to the National Register of Historic Places, and
- Satisfactorily performs the responsibilities delegated to it under applicable laws.

If designated as a CLG, Kanawha County would receive national recognition for its commitment to historic preservation. Grants received through the program can support a variety of preservation activities, including architectural and archaeological surveys, National Register Nominations, educational brochures, walking tours, guidelines for design review, and feasibility studies of historic structures.

## *Housing*

In order to make an immediate and significant impact on addressing housing issues in Kanawha County, the Comprehensive Plan makes three recommendations and anticipates additional strategies will be developed during the plan's duration to accomplish its housing goals.

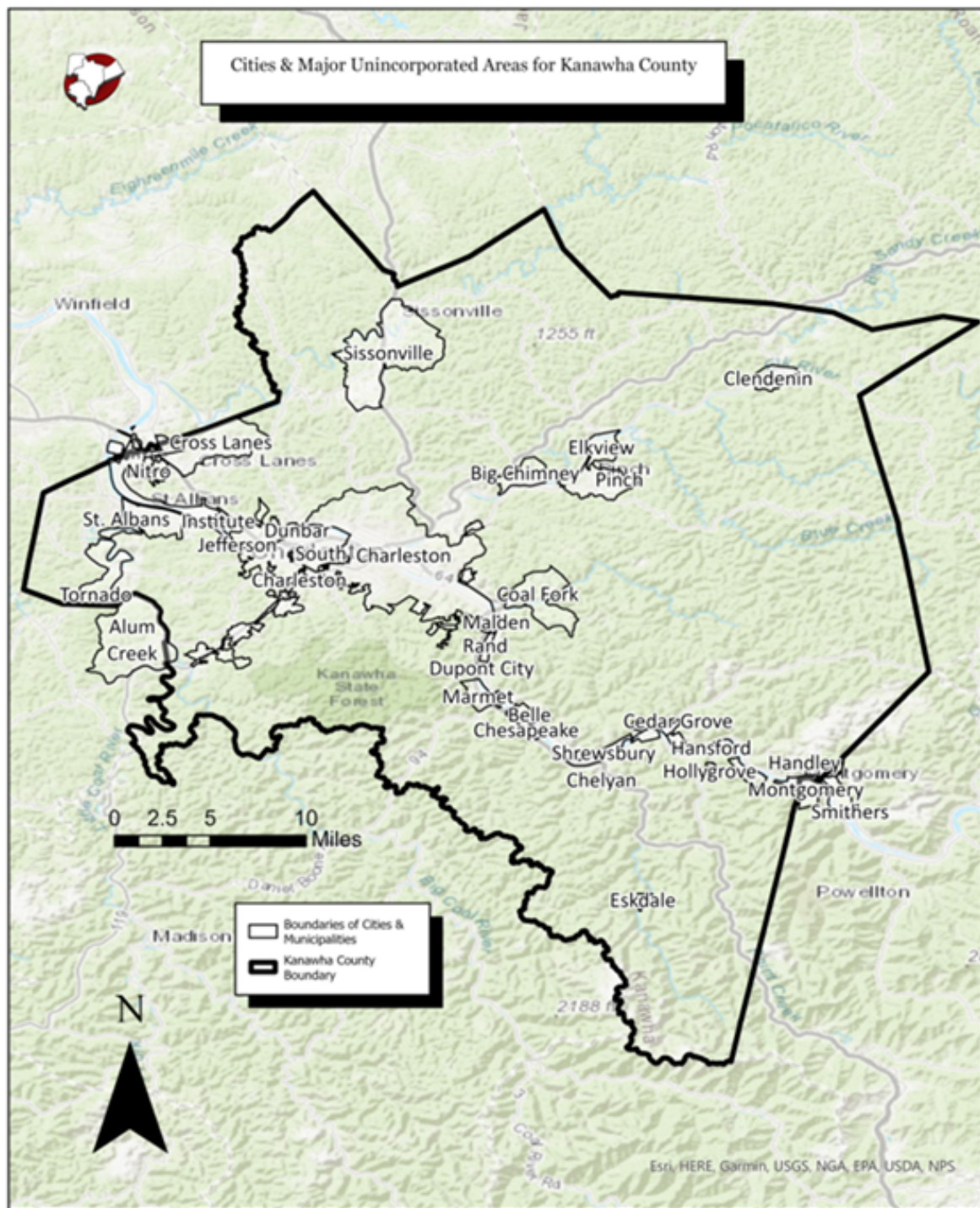
## ***Summary of Recommendations***

- Continue to enforce the following ordinances and regulations, which help improve life in unincorporated areas of Kanawha County:
  - ❑ Subdivision Regulations
  - ❑ Wireless Telecommunications Facilities Ordinance
  - ❑ Video Lottery Ordinance
  - ❑ Mobile Home Park Regulations
  - ❑ Adult Only Establishment Location Ordinance
  - ❑ Public Nuisance and Property Management Ordinance - including regulations for meth labs/houses, dilapidated, abandoned, and substandard structures
  - ❑ Salvage Yard Regulations
  - ❑ Floodplain Ordinance
  - ❑ Stream and Culvert Mitigation Ordinance

*All Kanawha County Ordinances are available for review at <https://kanawha.us/planning-development/>*

- Encourage residents to establish neighborhood improvement groups/plans for:
  - ❑ Coal River Valley
  - ❑ Sissonville
  - ❑ Lower Elk Valley (Big Chimney, Elkview, Pinch)
  - ❑ Cross Lanes
  - ❑ Institute-West Dunbar
- Identify all major entrances to Kanawha County as community gateways.

- Continue scenic highway status for US Route 60 and Midland Trail Scenic Highway.
- Encourage neighborhood revitalization plans by area residents.
- Continue to work with the State Historic Preservation Agency to inventory and prioritize historic properties and districts for preservation and enhancement.
- Consider adoption of a historic preservation ordinance in the future and implementing a countywide historic preservation program.
- Encourage new public housing initiatives including, but not limited to:
  - ❑ New construction
  - ❑ Rehabilitation of existing (owner- and renter-occupied) housing units
  - ❑ Housing for the elderly.
- Consider grant-funded programs designed to help low- to moderate-income first-time home buyers and other programs that help county residents live in safe, warm, and dry homes.



# Transportation

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## *Vision*

Provide a safe, efficient, and sustainable multi-modal transportation system that supports economic growth, enhances quality of life, and preserves the region's natural and cultural resources.

## *Goals, Objectives, and Strategies*

*The following goals and objectives are numbered for identification. The sequence below is not intended to set priority for implementing items.*

GOAL 1: Promote an efficient, interconnected and accessible transportation network.

OBJECTIVE: Provide efficient regional routes and internal connectivity for freight goods movement.

OBJECTIVE: Develop strategies to manage travel demand.

OBJECTIVE: Increase transit accessibility and availability to transit-dependent users and persons with special needs.

OBJECTIVE: Improve pedestrian and bicycle mobility.

GOAL 2: Promote economic development through targeted transportation investments.

OBJECTIVE: Improve access to key economic nodes and areas of planned development.

OBJECTIVE: Support transportation investments and policies that work to create jobs and improve access to people, places and goods.

OBJECTIVE: Utilize local, regional and state energy sources within the transportation system.

GOAL 3: Improve travel safety and security in Kanawha County.

OBJECTIVE: Reduce the number of injuries, fatalities and hazardous spills.

OBJECTIVE: Mitigate potential conflicts and delays at rail crossing sites.

OBJECTIVE: Reduce the number of high incident-accident locations.

OBJECTIVE: Facilitate coordination for emergency preparedness.

GOAL 4: Preserve and sustain the natural and built environments.

OBJECTIVE: Encourage use of alternative transportation modes and/or energy sources that reduce air pollution, fuel consumption, and other environmental impacts.

OBJECTIVE: Minimize development impacts in areas of environmental, cultural and historical significance.

OBJECTIVE: Develop strategies to decrease single occupancy vehicle (SOV) trips and vehicle miles traveled (VMT).

GOAL 5: Improve the integration of land use and transportation.

OBJECTIVE: Enhance communication and coordination between various transportation planning and land use planning agencies.



OBJECTIVE: Increase coordination between roadway design and land use development to improve transportation system performance.

OBJECTIVE: Focus future growth in areas of reduced transportation demand.

GOAL 6: Support and strengthen the current transportation network.

OBJECTIVE: Reduce the number of operational conflicts between various transportation modes.

OBJECTIVE: Develop strategies and implement measures to extend the functional life of transportation facilities.

OBJECTIVE: Increase the use of innovative transportation technology to enhance the efficiency of the existing transportation system.

### ***Discussion of Transportation Issues in Kanawha County***

Kanawha County is fortunate to be served by three interstate highways, an Appalachian Corridor highway as well as rail lines, a navigable river, a primary commercial service airport and public transit service. The county's transportation advantages are key to the area's success as a regional center of commerce, government, health care and other services. However, there are improvements that can be made to increase mobility, improve access and safety and spur economic development. This chapter will look at the existing transportation system and consider ways to strengthen it and to further the comprehensive plan goals. For the most part, Kanawha County does not have direct control over the transportation system but can use its influence to affect transportation decisions.

A well-developed multi-modal transportation network serves Kanawha County:

- highway system
- public transportation system
- air service
- rail transportation
- river transportation and port facilities
- bicycle and pedestrian facilities

Kanawha County is an active member on the Regional Intergovernmental Council (RIC), the Metropolitan Planning Organization (MPO) for the Charleston area, which includes Kanawha and Putnam counties. As such, RIC is responsible for carrying out a coordinated, comprehensive, and continuing transportation planning process.

Plans are developed in cooperation with the Kanawha Valley Regional Transportation Authority (KVRTA), West Virginia Department of Transportation (WVDOT), and other modal agencies, local elected officials, citizens, and various groups and agencies. The most important product of this process is the RIC Metropolitan Transportation Plan (MTP), a comprehensive transportation plan for Kanawha and Putnam counties. Many of the matters addressed in this transportation subsection are based on the most recent MTP.

### ***Highway System***

The existing highway system in Kanawha County reflects a pattern that closely parallels the river valleys. In most of the region, development and roadways have the highest densities in the river valleys. Within the traditional city centers, a grid pattern exists. In more recent growth areas such as Cross Lanes and Sissonville, newer suburban roadway patterns have emerged.

Three interstate highways (I-64, I-77, and I-79) converge in the City of Charleston and serve all of Kanawha County. The major east-west routes include I-64 and US Route 60. North-south travel is provided on I-77, I-79, and US Route 119 (Appalachian Corridor G). Other important minor arterials include WV Routes 61, 62, and 622.

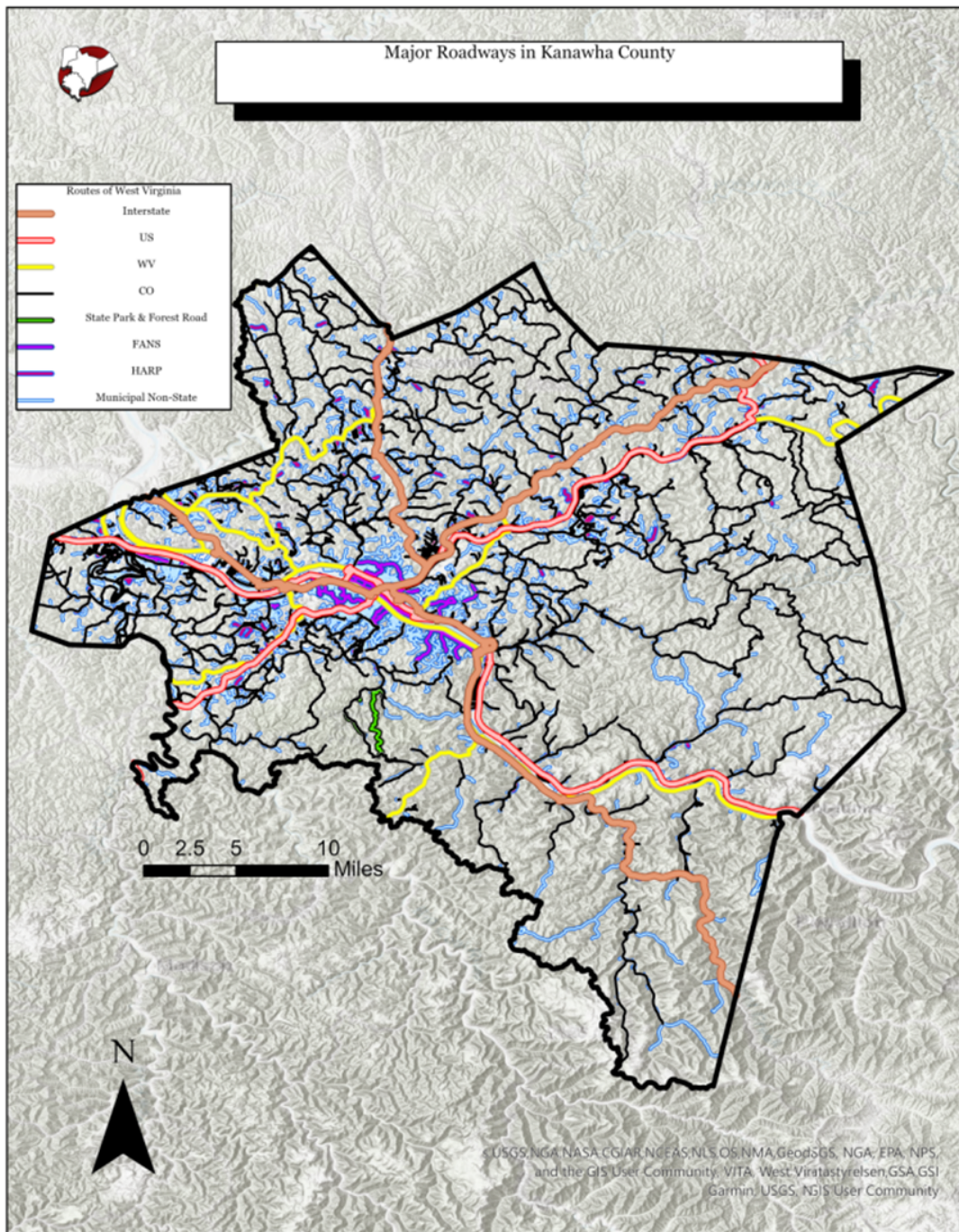
### ***Existing Conditions***

Highway travel in Kanawha County, as expressed in daily Vehicle Miles Traveled (VMT) has generally increased over the past 30 years, but since its peak in 2006 has declined somewhat, possibly due to the economic downturn. As expected, the three interstate highways account for some of the county's highest traffic volumes, with the highest location being on I-64 at the Eugene A. Carter Bridge in Charleston, which has an average daily travel (ADT) of 100,000 vehicles per day. Other highways with high and generally increasing volumes include US 119 south of Charleston (Corridor G), WV 601 (Jefferson Road), WV 62 and WV 622 in Cross Lanes and US 60/WV 61 (McCorkle Ave.) through Charleston and South Charleston.



### ***Safety Concerns and Focus***

In November 2023, the West Virginia Department of Transportation (DOT) released their first Vulnerable Road User (VRU) Assessment. This document emphasizes the risk of the transportation system on users outside of automobiles. Kanawha County featured heavily, with 7 of the top 20, including the #1 ranked VRU concern locations according to data from its High Injury Network (HIN) Analysis. 10<sup>th</sup> Street in Dunbar, several locations in Downtown Charleston and in South Charleston were included. In addition, several other locations in Downtown Charleston were included on the Systemic Analysis which looks at risk indicators to proactively locate areas of concern that have not yet resulted in injuries. The VRU along with historical crash and injury data for motorists, form a baseline for refocusing on safety first transportation initiatives. The Federal Highway Administration, WV DOT, and the RIC MPO recommend following the Safe System approach for transportation improvements.





### ***Existing and Projected Areas of Concern***

Current and projected deficiencies in the highway network are based, in part, on analysis from RIC's Charleston Metropolitan Transportation Plan travel demand model. The highway system studied here includes all interstates and US Route highways, all major and minor arterials, and most collectors. In addition, the DOT VRU assessment, crash data, and RIC's safety studies and Metropolitan Transportation Plan emphasis areas that need attention and are not being addressed by active construction projects as of 2025.

- 10<sup>th</sup> Street in Dunbar
- Multiple Intersection in Downtown Charleston from Pennsylvania Ave to Ruffner Ave
- I-64 Interchange for Oakwood Rd and Eugene Carter Memorial Bridge
- I-64 & Tyler Mountain Road interchange, and Goff Mountain Road, Cross Lanes
- Dunbar Toll Bridge replacement
- WV 817 (former US 35) north of St. Albans
- 3<sup>rd</sup> Street in St. Albans
- Patrick Street Bridge Replacement
- US 60 from Chelyan Bridge to Cedar Grove

A review of crash data also helps identify locations where improvements and/or additional study are warranted. Based on WVDOT crash data from 2019 to 2023, the highest concentrations of crashes generally existed at downtown intersections and along key commercial corridors – most often at entrances to malls, restaurants, convenience stores, and gas stations. Some specific locations identified included various intersections in downtown Charleston and Kanawha City.

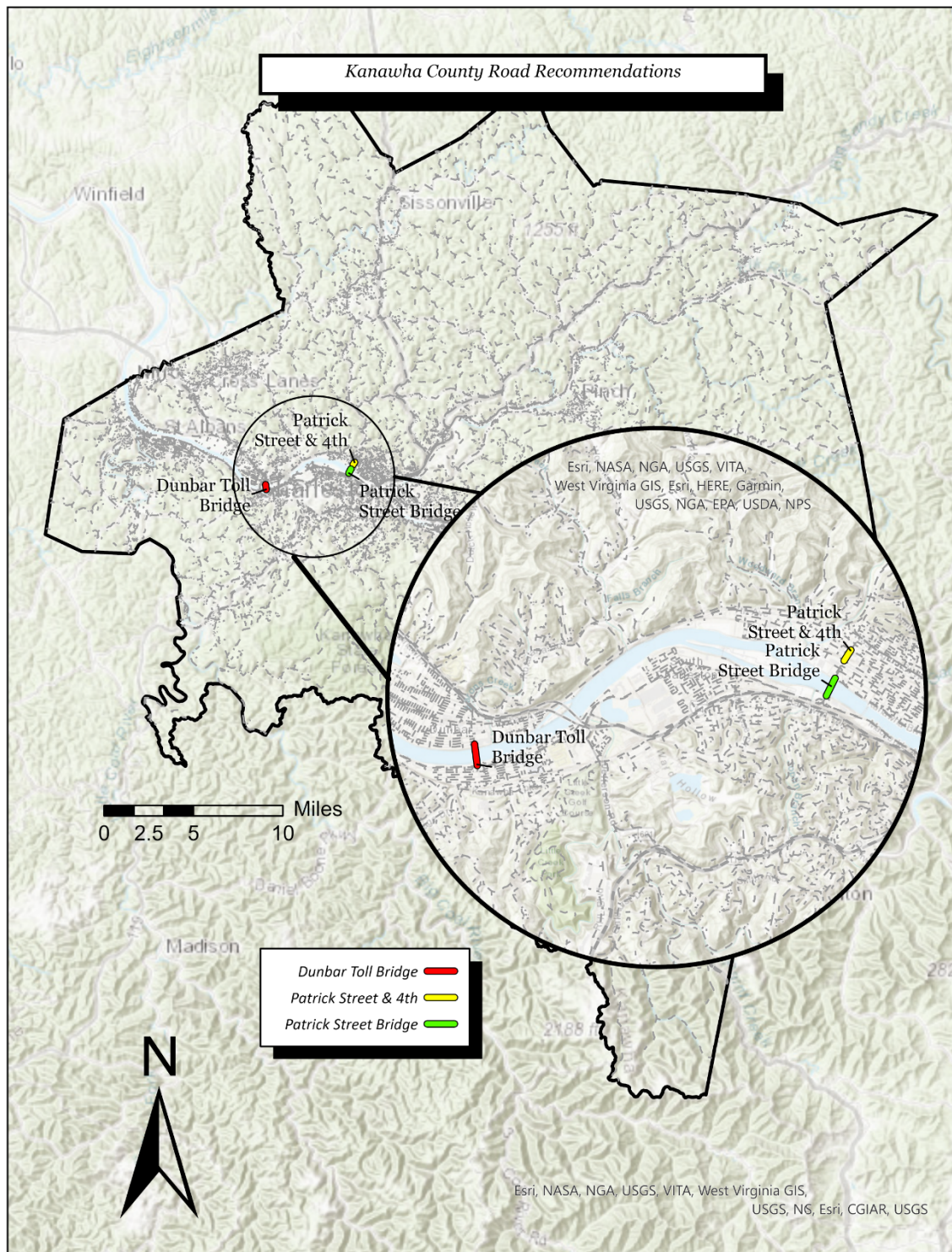
### ***Highway Recommendations***

The Regional Intergovernmental Council Metropolitan Transportation Plan 2050 (MTP) recommended highway projects based upon projected capacity deficiencies, accident information, as well as public and stakeholder input. That MTP is cost-constrained, based upon estimated revenues and was completed in 2021. The unmet recommendations from that plan are included here. An update to the MTP is expected to be released in late 2025.

#### **Recommendation**

Support the completion of major Surface Transportation projects.

- Patrick Street to 4<sup>th</sup> Ave Charleston – improve access and intersection performance. Cost \$406,898 (MTP) (RIC is planning a corridor study for the entire Patrick Street to 7<sup>th</sup> Ave. loop in FY26)
- US 60 – Cedar Grove Intersection Improvements – Cost \$709,009 (MTP)
- Widen and upgrade the 3<sup>rd</sup> St. railroad underpass in St. Albans. Cost \$36,825,588 (MTP)
- Dunbar Toll Bridge Replacement – Cost \$101.9M (DOH)
- Patrick Street Bridge Replacement – Cost ~\$100M (DOH)





## ***Intelligent Transportation Systems (ITS)***

Intelligent Transportation systems (ITS) are advanced technology applications designed to help travelers make more efficient and safer use of transportation networks. WVDOT, working with federal, state and local agencies, has recently introduced several key ITS initiatives that will help manage roadway demand and increase roadway safety. Recent or planned improvements include replacement of traffic signals in the CBD with “smarter” signals that can adapt to demand; a statewide 511 system to provide traveler information; proposed joint operations center with Homeland Security, the National Guard and National Weather Service; mobile weather stations; and highway cameras.

### **Recommendation**

Encourage the continued deployment of Intelligent Transportation Systems (ITS) technologies to gain greater efficiency from the existing transportation system.

## ***Public Transportation***

Bus transit provides mobility to thousands of residents who cannot, or choose not to, drive. Bus transit also provides a regional air quality benefit by reducing the number of cars on the road, particularly during congested travel periods and on hot summer days. The region’s transit services provide access to major regional employers, shopping areas, health care services, social services, universities, and even a connection between Charleston, Teays Valley, and Huntington. This section examines transit initiatives and describes the challenges facing the Kanawha Valley Regional Transportation Authority (KVRTA).

### ***The Kanawha Valley Regional Transportation Authority (KVRTA) System***

KVRTA serves Kanawha County and portions of Fayette and Putnam counties. The service area is approximately 913 square miles, with a population of approximately 174,000. An estimated 88.0% of Kanawha County’s residents live within three-quarters of a mile of a KVRTA route.

KVRTA operates a network of 20 fixed routes oriented around the commercial center of Charleston. With the exceptions of four holidays during the year, KVRTA provides service six days a week. The earliest routes begin at 5:00 a.m., and service continues until approximately Midnight. Paratransit service, known as Kanawha Alternative Transit, or KAT, and on-demand service, known as KRTPlus, operates during the same days and hours.

KVRTA uses flat rate fares and passes. KVRTA is currently phasing in a new fare scheme. Single rides remain \$1.50, a daily pass is \$3.50, and a 31-day pass is \$50.00. Reduced fares are offered during all hours to the elderly, persons with a disability, and Medicare cardholders. Children under 40” tall ride free. The fares for the paratransit service are twice the fixed-route fares. KVRTA offers discount passes and reduced student fares on all routes. There is a five-mile rubber-tire trolley loop that serves the State Capitol area, Downtown and retail centers.

KVRTA operates a fleet of 49 vehicles for fixed-route service. The fleet consists of 30 and 35-foot long transit coaches, minibuses, and five rubber-tired trolleys. KVRTA also has 14 cutaway vans for the KAT complementary paratransit service and KRTPlus on-demand service.

KVRTA’s operations, maintenance, and administrative headquarters are located on 4<sup>th</sup> Avenue in Charleston. The City Center Station, in downtown Charleston, is the hub and transfer center for all routes. City Center Station is a component of the multi-use, multi-modal space that includes commercial and entertainment venues, hotels, and government offices.





To manage changes in transit usage after the COVID-19 pandemic, KVRTA underwent a Comprehensive Operational Analysis in 2024. Changes in route and fare structure resulting from that analysis were implemented in 2025. KVRTA expects to continue refining service patterns to meet the communities' needs within available resources.

The two primary funding sources for KVRTA's gap between costs and farebox revenues are: 1) special levy money; and 2) the Federal Transit Administration (FTA) Section 5307 Operating Assistance. The levy amount, determined by local property taxes, requires approval by Kanawha County voters every four years (60.0% approval is required). KVRTA increasingly faces the challenge of needing to do more with less. Bus passenger volumes are recovering from losses due to the COVID-19 pandemic, while federal funding continues to decline. Simply put, there is insufficient funding to cover KVRTA's capital and operational costs.

#### **Recommendation**

Encourage KVRTA to review network to increase transfer routes by bypassing downtown Charleston and transferring. Also encourage KVRTA to study higher frequency core routes and Bus Rapid Transit (BRT). Orbital routes and BRT can provide better service for similar operational costs. BRT routes would also make KVRTA and the communities it operates in to become eligible for Federal Transit Oriented Development funding, potentially offering new streams of revenue.

### ***Other Services***

Various other public, private-for-profit, and private-non-profit agencies operate vans, buses, and automobiles providing transportation in the county. These include taxis, senior services, and social service agencies providing transportation to their clients.

Greyhound and Baron's Bus provide intercity passenger bus service. The station is adjacent to I-64 on the West End of the Charleston CBD. It is also adjacent to the Charleston Civic Center.

Barons Bus provides daily and twice daily service to different locations including the branded I Ride 79 bus that operates up to twice daily between Charleston and Morgantown.



## *Air Service*

Kanawha County and the surrounding region are served by West Virginia International Yeager Airport, which is managed by the Central West Virginia Regional Airport Authority (CWVRAA). Yeager serves four commercial airlines (American, United, Delta, and Breeze) and provides direct flights to Charlotte, Chicago, Washington DC, Atlanta, Orlando, Newark, and Myrtle Beach seasonally. In 2024, there were 202,000 passenger boardings (enplanements) at the airport, a 4.4% increase from 2023. Air cargo service is available through several parcel companies, but volumes are fairly low.

The Charleston area is somewhat unique in that its airport is located immediately adjacent to Charleston's Central Business District and the State Capitol Complex. By shortening trip lengths to and from the airport, traffic congestion, energy consumption, and economic losses are minimized. The convenient location is also an enticement for businesses to locate here.

The airport's main runway (runway 5) is 6,715 feet long by 150 feet wide. The airport features an Engineered Materials Arrest System (EMAS) on the Runway 5 end. Recent improvements include taxiway intersection upgrades and other airfield improvements, and the expansion of the General Aviation apron. The Marshall University Bill Noe Flight School was established in 2021. Other amenities at the airport include long-term and short-term parking garages, rental car facilities, restaurants, and retail concessions.



The West Virginia Air National Guard (WVANG) is a major tenant of the airport and operates on a 50-year lease. The lease provides that the WVANG provides aircraft firefighting and rescue services for all aircraft operations at Yeager Airport at a level that meets current FAA standards, in exchange for the yearly rental requirement. It is estimated that the value of the services provided by the WVANG is in excess of \$1,500,000 annually.

With adequate planning, funding, and timely execution of improvements, central West Virginia can maintain the finest air center and related transportation complex in the State.

### ***Plans and Recommendations***

The Central West Virginia Regional Airport Authority, owner and operator of Yeager Airport, completed an airfield Master Plan update that was accepted by the Federal Aviation Administration (FAA) in July of 2020. An updated overall Master Plan process is expected to begin in 2026 or 2027. Airport Master Plans are funded by the FAA and completed in accordance with the guidance issued by the FAA. A copy of the full document is available at Yeager Airport and with the Kanawha County Commission.

The Airport Master Plan looks at 5-, 10-, and 20-year planning horizons and identifies projects necessary to maintain the airport in compliance with all FAA regulations and to meet the projected demand for aircraft usage. Airport Master Plans are typically updated after 10 years or more often if there are events that materially affect the aviation forecasts.





**Recommendation**

Support the completion of major recommendations from the Yeager Airport Capital Improvement Plan:

- Terminal Modernization – CRWNEXT project
- Taxiway A relocation a creation of Commercial Deicing Pad
- Expand General Aviation Apron
- Create Runway 23 Safety Area
- FAA Tower Replacement

## *Rail Transportation*

Kanawha County is served by two major railroads, CSXT and Norfolk and Southern (NS). CSXT is located on the southerly side of the Kanawha River and operates a primary route through the region, connecting Charleston to Cincinnati, OH and Richmond, VA. Meanwhile, NS, located on the north side of the Kanawha River, operates a secondary route that connects Charleston, WV to Columbus, OH.

### ***Freight Rail***

The two railroads ship a number of commodities to and from the region, with the major one by far being coal, although metallic and non-metallic ores, chemicals, metals and petroleum are also significant. There is also some “bridge” traffic that passes through the region. These railroads also capitalize on the region’s intermodal facilities. CSXT serves the TRANSFLO facility in South Charleston, while NS serves the Allied Warehousing facility in Nitro.

Freight Rail in the area is primarily driven by the coal and chemical industries. Track use and cargo amounts have generally followed those industries in generating traffic demand. The upcoming NUCOR steel plant in Mason county may have a material impact on traffic volumes depending on final decisions on materials shipments for the plant.

### ***Passenger Rail***

Intercity passenger rail service is provided by Amtrak. The station is located along the Kanawha River on the opposite side of the river from the Charleston CBD. Currently, Charleston is on the Cardinal route, which provides direct service between Chicago and New York City three days per week. In 2023, Charleston had a ridership of 6,352 passengers, 2<sup>nd</sup> in the state behind Martinsburg’s 6,948 riders with Daily service. The County should continue to push for the Cardinal to return to a daily schedule, providing significant improvements to the usability and convenience of the service.

### ***Rail Deficiencies***

An important concern for local planners and officials is the relationship between the rail network and the street and highway system. There are many at-grade railroad crossings in the area. This situation often results in traffic delays and safety concerns and may inhibit emergency response.

It is an objective of this Comprehensive Plan to minimize the number of at-grade crossings while maintaining traffic flow.

**Recommendation**

Support the elimination of at-grade railroad crossings where feasible. Promote the installation of additional or improved safety devices where warranted.

The scheduling of Amtrak only three days per week discourages travelers from using this economical and otherwise convenient form of transportation. Daily service would greatly enhance passenger rail opportunities in the county. It is anticipated that passenger volumes would increase substantially with daily Cardinal service.

**Recommendation**

Pursue the expansion of Amtrak passenger service from the current 3-day per week schedule to daily service.

### *River Transportation and Port Facilities*

The Kanawha River basin is the largest northerly flowing river system in the United States. The US Army Corps of Engineers maintains a navigation channel 200 feet wide and nine feet deep in the Kanawha River, from the mouth at Point Pleasant to a point near Deepwater, West Virginia about 91 miles above the mouth. Three navigation locks and dams are located on the Kanawha River at Winfield, Marmet, and London.

The Gallipolis locks and dam, located on the Ohio River about 14 miles downstream from the mouth of the Kanawha River, provides the navigation pool on the lower 31 miles of the river. The Winfield navigation pool extends about 37 miles to include the Charleston industrial area.

Recent projects at Winfield and Marmet have replaced the antiquated locks, greatly increasing their capacity and all but eliminating delays, which sometimes reached several hours.

Movement of freight on the Kanawha River is largely one-way, as goods such as coal, chemicals, sand, and gravel are shipped from Kanawha County or other West Virginia origins downstream to destinations primarily out of state.

There are multiple freight terminals located on the Kanawha River within the Kanawha County. Many serve industries that are located adjacent to the river, but some are intermodal facilities, transferring coal and other products from trucks to barges.

### *Bicycle and Pedestrian Facilities*

Bicycle and pedestrian travel provide both mobility and health benefits. Regions around the U.S. are discovering that the health and quality of life benefits of these “active” transportation modes warrant greater consideration and investment, regardless of their direct impact to highway congestion. Traditional transportation planning in West Virginia focused largely on highways, with little emphasis on bicycle and pedestrian considerations. Over the past 20 years or so, this has changed, due in part to newly available funding sources, and also because of an increased awareness of the health and environmental benefits of walking and biking.

### ***Current Initiatives***

In 2013, the West Virginia legislature passed the Complete Streets Act, which urges WVDOT to consider many alternative modes of transportation when constructing future roads. Also, a number of funding sources are available for bicycle and pedestrian improvements through the US Department of Transportation, including the Transportation Alternatives Program (TAP), Congestion Mitigation Air Quality (CMAQ) program and the Recreational Trails Program. In 2021, Congress passed the Infrastructure Investment and Jobs Act (IIJA) significantly expanding funding for pedestrian, cycling, and other active transportation projects.

**Recommendation**

Take advantage of the Complete Streets Act and the IIJA to see that alternative modes are also accommodated when the State constructs new highway facilities. Encourage the use of available funding sources for bicycle and pedestrian improvements.

A number of studies in recent years have identified potential bicycle and pedestrian projects. These include RIC's Bicycle and Pedestrian Plan for Kanawha and Putnam Counties, the 2050 Metropolitan Transportation Plan, the City of South Charleston's 2011 Master Plan for Pedestrian and Bicycle Trail Corridors, the Statewide Bicycle Connectivity Plan and Imagine Charleston and its 2024 update. RIC will be updating the 2019 Kanawha-Putnam Bicycle and Pedestrian Plan to enhance support for non-motor vehicle transportation options, connections and networks.

In 2024, the City of Charleston received a \$25M RAISE grant award for the Capitol Connector Project. This project will complete the expansion of the shared use path on Kanawha Boulevard from Magic Island to 36<sup>th</sup> Street Bridge and portions of Greenbrier Street. This project establishes a connective cycling and pedestrian spin throughout the Charleston flats connecting the Capitol Complex, East End neighborhoods, Downtown Charleston and the West Side. This new transportation spin should be developed into a complete network of safe routes expanding into the city and across the Kanawha. Pedestrian and cycling infrastructure should be included in any replacement of the Dunbar Toll bridge and Patrick Street Bridge, enhanced on the 35<sup>th</sup> Street Bridge, and additional options to connect Kanawha City to the North Side of the river should be reviewed.

#### **Recommendation**

Support the development of projects connecting to the Kanawha Boulevard bike path, ensure any bridge project properly accommodates cyclists and pedestrians, build out a cycle path network, and connect urban bikeways to recreational trails when possible.

### ***Summary of Recommendations***

- **Complete key transportation projects**

- Patrick Street to 4<sup>th</sup> Ave Charleston – improve access and intersection performance. Cost \$406,898 (MTP) (RIC is planning a corridor study for the entire Patrick Street to 7<sup>th</sup> Ave. loop in FY26)
- US 60 – Cedar Grove Intersection Improvements – Cost \$709,009 (MTP)
- Widen and upgrade the 3<sup>rd</sup> St. railroad underpass in St. Albans. Cost \$36,825,588 (MTP)
- Dunbar Toll Bridge Replacement – Cost \$101.9M (DOH)
- Patrick Street Bridge Replacement – Cost ~\$100M (DOH)

- Encourage the continued deployment of Intelligent Transportation Systems (ITS) technologies to gain greater efficiency from the existing transportation system.
- Encourage KVRTA to implement service changes and other strategies identified in its ongoing system analysis. Also encourage BRT study and/or shifting to more transfer routes that don't originate at City Center.
- Support the completion of the major recommendations from the most recent Yeager Airport Master Plan.
- Support the completion of major recommendations from the WV Air National Guard (WVANG) Base Master Development Plan.
- Support the elimination of at-grade railroad crossings where feasible. Promote the installation of additional or improved safety devices where warranted. DOH, the Regional Intergovernmental Council, the Kanawha County Commission and municipalities should continue seeking funding options.
- Pursue the expansion of Amtrak passenger service from the current 3-day per week schedule to daily service.
- Take advantage of the Complete Street Acts to see that alternative modes are also accommodated when the State constructs new highway facilities.
- Encourage the use of available funding sources for bicycle and pedestrian improvements.
- Support the development of projects such as the Dunbar Toll Bridge and Patrick Street Bridge Replacements.

# Economic Development

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## *Vision*

A healthy and sustainable regional economy that grows sufficiently to create meaningful jobs, reduce poverty, and provide opportunity for a high quality of life for all Kanawha County citizens in an increasingly competitive global economy.

By 2030, the Kanawha Valley will have a diversified economy grounded in sustainable industries that provide jobs to a variety of skill levels, driving opportunity and prosperity throughout the regional economy.

## *Mission*

To advance and diversify the business prosperity and economic welfare of Kanawha County and the Metro Charleston area.

## *Goals, Objectives, and Strategies*

*The following goals and objectives are numbered for identification. The sequence below is not intended to set priority for implementing items.*

GOAL 1: Work with Charleston Area Alliance, Advantage Valley, West Virginia Development Office, and other business groups to develop and maintain strategies to create a resilient economy based upon the unique local strengths of our people and communities as sources of competitive advantage in a global economy.

OBJECTIVE: Work with the above agencies to identify suitable sites for future industrial and commercial activities.

GOAL 2: Work with Charleston Area Alliance, Advantage Valley, Region III Workforce Development Board of Kanawha County, West Virginia Development Office, and other business groups to nurture and strengthen the economic partnership among the private sector, employers, educators, lenders, and government.

OBJECTIVE: Expand and maintain open and effective lines of communication between multiple stakeholders.

OBJECTIVE: Work with Charleston Area Alliance, Region III Workforce Development Board of Kanawha County, and Advantage Valley to conduct and maintain an inventory and assessment of Kanawha County's economic, natural, and human resources to identify its unique comparative advantages and strategic niche in the regional and global economies.

STRATEGY: Support and expand the efforts of the Charleston Area Alliance, Advantage Valley and other local nonprofit economic development organizations.

GOAL 3: Encourage and promote an environment that promotes entrepreneurship, innovation, and small business growth to marshal resources within the community to fill local economic needs.

STRATEGY: Support the expansion and capacity of small business incubators such as Charleston Area Alliance, Chemical Alliance Zone and Advantage Valley.

STRATEGY: Work with Charleston Area Alliance and Region III Workforce Development Board of Kanawha County to encourage the creation of flexible business networks (FBN) to purchase supplies or equipment or employee benefits to bring the price down; merge expertise to

manufacture a product, or; offer services they all need, like employee training, marketing, or the use of expensive equipment.

**GOAL 4:** Promote and work to expand a high-quality, flexible, well-educated workforce, especially new jobs and job skills needed in the expanding Marcellus Shale natural gas arena.

**OBJECTIVE:** Work with Charleston Area Alliance, Advantage Valley, Region III Workforce Development Board of Kanawha County, BridgeValley Community and Technical College and county career and technical training centers to promote and support labor force development.

**STRATEGY:** Work with Charleston Area Alliance, Region III Workforce Development Board of Kanawha County, Advantage Valley and local colleges and adult education facilities to monitor and assess the capacity of local labor.

**OBJECTIVE:** Promote business opportunities and quality of life in Kanawha County.

**STRATEGY:** Work with Charleston Area Alliance, Chemical Alliance Zone and Advantage Valley to promote business incubators and the WV Regional Technology Park.

**GOAL 5:** Support economic development capacity and relationships at the neighborhood, community, and regional levels.

**OBJECTIVE:** Continue to facilitate the Kanawha County Commission Upper Kanawha Business Assistance Program (UKAN) which offers forgivable loans to small businesses with twenty-five or fewer employees in the Upper Kanawha Valley. UKAN supports new and expanding businesses in an area impacted by the coal industry's decline, the program helps to cover capital and working capital expenses.



**OBJECTIVE:** Facilitate, organize, and assist groups that lack knowledge or resources to accomplish their economic missions.

**STRATEGY:** Continue to honor and celebrate local businesses at County Commission meetings with resolutions.

**STRATEGY:** Work with Charleston Area Alliance and Advantage Valley to nurture new and growing small business enterprises.

**STRATEGY:** Make the connection between where the jobs are and where people live.



**GOAL 6:** Work with Charleston Area Alliance and Advantage Valley to encourage development of businesses and industries at the forefront of economic environmental opportunities.

**OBJECTIVE:** Promote a positive business climate.

#### INDICATORS:

- Unemployment rate in Kanawha County
- Increase in Per Capita Personal Income (PCPI)
- Increase in per capita savings and investment rates
- Increased per capita production per hour worked
- Increases in number, wage level, and quality of jobs
- Decreased number of persons living below poverty level

- GOAL 7: Work with West Virginia International Yeager Airport to encourage economic development for the region.
- GOAL 8: Support the Region III Workforce Development Board of Kanawha County as they work to monitor and assess the capacity of local labor and provide training assistance and services to eligible adults, dislocated workers, youth and businesses.

## ***Discussion of Economic Development Issues in Kanawha County***

### **Recommendation**

Maintaining and expanding West Virginia International Yeager Airport is a critical factor influencing economic development in Kanawha County. Every effort should be made to enhance West Virginia International Yeager Airport. Every effort should be made to strongly oppose any relocation of air traffic.

One of the most challenging aspects of economic development is developing sound policy direction for improving the economic well-being of people and businesses. Technological changes, occurring at ever-increasing rates and global markets are creating a new economy with new businesses, new occupations, and new competitive issues for commerce and industry.

The workplace is changing dramatically. Computer-based communications services, such as e-mail, e-commerce, dynamic streaming applications, video virtual meetings, and many more were not widely used twenty years ago, yet today they are essential.

While an ever-changing environment adds to the challenge of planning for economic development, it is also one of the most important reasons for doing so. Just as businesses must work smarter and continually seek innovative ways to remain competitive and thrive, so must the community that supports them.

A sound, comprehensive, strategic plan—which anticipates a changing economy—provides the blueprint for preemptive action.

The purpose of this subsection on economic development is to provide a solid foundation for a flexible, innovative, comprehensive economic development program, which is open to revision and responsive to changes as a global market evolves in ways we cannot anticipate today.

Incorporating the shared vision of stakeholders throughout the county, goals and objectives seek continuous improvement in the programs and services, many currently operational, which are designed to increase the competitive position of the county's people and businesses.

The *2025 Comprehensive Plan* seeks to improve the efficiency by which the programs and services are delivered, target the allocation of scarce resources, and eliminate duplications. The Comprehensive Plan is intentionally collaborative in nature, stressing the critical importance of multiple stakeholder involvement from project design through evaluation.

## **Economic Development Organizations**

As a lead agency in Kanawha County, Charleston Area Alliance serves as a coordinating organization, helping various stakeholders within the county and region reach consensus on issues affecting economic development. It currently has a 20-year economic development plan in place, titled "Vision 2030", which in 2024 is in its thirteenth year of implementation. In addition, there are other entities throughout the county that interact with issues affecting economic development, and each—directly or indirectly—fills a unique niche and influences a different dimension of community life.

**Recommendation**

Maintain and support the efforts of the Charleston Area Alliance (CAA), Regional Development Authority (RDA), and Regional Intergovernmental Council (RIC).

Economic development alliances in Kanawha County may include, but are not limited to:

- Charleston Area Alliance
- Regional Development Authority of Charleston, Kanawha County Metropolitan Area
- Upper Kanawha Valley Economic Development Corporation
- Municipal development organizations
- Cities and towns
- Charleston Urban Renewal Authority
- Local Chambers of Commerce
- Municipal Convention, Visitors, and Tourism Organizations
- Economic development agencies of adjacent counties, such as the Putnam County Development Authority
- Regional economic development agencies, such as Advantage Valley
- Regional Intergovernmental Council
- West Virginia Small Business Development Center
- Regional Contracting Assistance Center (RCAC)
- West Virginia Development Office

These organizations shall retain their individual identities, missions, and goals, but will work collaboratively on specific development and marketing projects. It must be remembered that successful communities are not fragmented but instead articulate and work to accomplish a shared vision.

### *Economic Development Initiatives*

Issues affecting economic development in Kanawha County are increasingly complex and interdependent. Nearly every sector of a community—its education system, transportation network, infrastructure, housing, health care, etc.—is affected by economic development. Conversely, the caliber of each of these components influences the success of an area's economic development efforts.

Because the *2025 Comprehensive Plan* addresses each of these elements separately, only those activities related directly to business support and development are presented here.

### *Business Retention and Expansion*

**Recommendation**

Periodically assess existing business' level of satisfaction with the local business climate and incorporate findings in strategies to recruit and sustain businesses in the county.

Such an assessment could be accomplished through a survey, with results communicated to local and state elected officials, agencies, and businesses (such as utilities) whose policies, programs, and services affect business

development. Appropriate strategies could be enacted to capitalize on the County's assets, as well as remove identified constraints on business growth.

**Recommendation**

Encourage Charleston Area Alliance to bring together managers/owners to share mutual concerns and ideas, resolve problems of the businesses involved, and propose solutions to improve the general business climate of the region. Additionally, utilize the Charleston Area Alliance Board of Directors as a representative group, made up of both small and large businesses, to garner data and information to understand specific challenges and opportunities with which to partner to improve the general business climate.

**Recommendation**

Continue to work with the Charleston Area Alliance, the WV Development Office and the US Department of Commercial Services (Charleston Office) to encourage and assist existing businesses to explore and capitalize on growing international markets. Exports from Kanawha County businesses have a tremendous economic impact, bringing in new dollars to the community and creating new jobs.

**Recommendation**

Work with Charleston Area Alliance to develop and implement a county marketing plan to recruit and sustain businesses.

This recommendation involves a target industry market plan, selecting targets based on the region's marketable attributes and which types of firms are best suited to the region's resources. This activity will include researching the region's marketable assets and exploring the feasibility of certain types of business operations within the county.

The business recruiting strategy is based on the premise of readiness—ready sites, ready work force, streamlined processes—and being prepared for development.

Further marketing strategies would include:

- develop a well-integrated, informative, and attractive complement of marketing brochures and printed materials to use with business prospects;
- establish standard operating procedures for end-game marketing—responding to prospects, presenting the community, and closing the deals;
- maintain the relationship with the West Virginia Development Office to be aware of new state resources and funding opportunities, and seek selective joint venture marketing opportunities with the State industrial marketing team;
- continue working collaboratively with neighboring counties and development organizations seeking co-promotion and project referrals;
- promote the county's assets through a selective, focused strategy of advertising, networking, and personal selling.



**Recommendation**

Work with Charleston Area Alliance to identify and potentially develop suitable sites for future industrial and commercial activities. “Shovel-ready” sites remain a challenge for Kanawha County because of its topography.

**Recommendation**

Work with Charleston Area Alliance, and the WV Regional Technology Park to expand the capacity of small business incubators.

Expanding the capacity of small business incubators and creating flexible business networks recognizes the importance of assisting entrepreneurs through offering small business start-ups cost-effective shared services and easy access to the expertise of SCORE, the Regional Contracting Assistance Center, the WV Small Business Development Center, and other supportive programs.

**Recommendation**

Support efforts to market the Marcellus Shale and a potential ethane cracker and other downstream developments to this area.

**Recommendation**

Market the benefits of Kanawha County and West Virginia to outside firms, including minimal traffic, low crime rate, quality education system, excellent college and post-graduate opportunities, suitable housing for various incomes, etc.

**Recommendation**

Support and encourage the development of the West Virginia Regional Technology Park.

### *Kanawha County Commission’s Upper Kanawha Business Assistance Program (UKAN)*

The Kanawha County Commission’s Upper Kanawha Business Assistance Program (UKAN) offers forgivable loans up to \$10,000 to small businesses with twenty-five or fewer employees in the Upper Kanawha Valley. UKAN is designed to support new and expanding businesses in an area impacted by the coal industry’s decline, the program helps cover capital and working capital expenses such as renovations, signage, equipment, supplies and inventory.

### ***Summary of Recommendations***

- Maintaining and expanding West Virginia International Yeager Airport is a critical factor influencing economic development in Kanawha County. Every effort should be made to strongly oppose any relocation of air traffic.
- Maintain and support the efforts of the Charleston Area Alliance, Regional Development Authority (RDA), and Regional Intergovernmental Council (RIC).

- Encourage Charleston Area Alliance to bring together managers/owners to share mutual concerns and ideas, resolve problems of the businesses involved, and propose solutions to improve the general business climate of the region. Additionally, utilize the Charleston Area Alliance Board of Directors as a representative group, made up of both small and large businesses, to garner data and information to understand specific challenges or opportunities with which to partner to improve the general business climate.
- Periodically assess existing business' level of satisfaction with the local business climate and incorporate findings in strategies to recruit and sustain businesses in the county.
- Continue to work with the Charleston Area Alliance, the WV Development Office and the US Department of Commercial Services (Charleston Office) to encourage and assist existing businesses to explore and capitalize on growing international markets. Exports from Kanawha County businesses have a tremendous economic impact, bringing in new dollars to the community, and creating new jobs.
- Work with Charleston Area Alliance to develop and implement a county marketing plan to recruit and sustain businesses.
- Work with Charleston Area Alliance to identify and potentially develop suitable sites for future industrial and commercial activities. "Shovel Ready" sites remain a challenge for Kanawha County with its topography.
- Work with Charleston Area Alliance, and the West Virginia Regional Technology Park to expand the capacity of small business incubators.
- Work with Charleston Area Alliance to encourage and continue in the creation of, where practical, flexible business networks (FBNs) to minimize common purchasing costs across participating businesses, merge expertise to manufacture products, and conduct other common activities (i.e., marketing, employee training, use of expensive equipment, etc.)
- Support efforts to market the Marcellus Shale and a potential ethane cracker and other downstream development to this area.
- Market the benefits of Kanawha County and West Virginia to outside firms, including minimal traffic, low crime rate, quality education system and excellent college and post-graduate opportunities, suitable housing for various incomes, etc.
- Support and encourage the development of the West Virginia Regional Technology Park. The West Virginia Regional Technology Park offers flexibility and versatility alongside a robust infrastructure to provide new and existing tenants with the assets vital to their success. The Tech Park is home to over 25 businesses and 1,000 jobs and is committed to the continued growth of its multi-tenant park dedicated to research, innovation, technological advancement, and education. The 258-acre campus is ideal for STEM industries and institutions that diversify West Virginia's economy and drive business and economic growth.
- Publicly recognize exemplary local businesses at Kanawha County Commission meetings.



# Education & Training

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## *Vision*

Knowledge availability for all; education and access to information will continue to be vital assets in Kanawha County, helping our students and workers compete internationally and to enjoy a higher quality of life.

## *Mission*

To prepare our workforce for life in the next decades.

## *Goals, Objectives, and Strategies*

*The following goals and objectives are numbered for identification. The sequence below is not intended to set priority for implementing items.*

GOAL 1: Parents and guardians will see that their children will arrive at school healthy and ready to learn.



### **Recommendation**

Encourage the Kanawha County School System to develop and implement initiatives geared to help children arrive at school healthy and ready to learn.

### **Recommendation**

Encourage the Kanawha County School System to establish adolescent health services in schools which offer youth programs.

OBJECTIVE: Parents and guardians should take good care of children before they are born, at birth, and as they grow and develop.

STRATEGY: To assist parents in their role of raising children, encourage schools and government agencies to expand and sustain prenatal care programs to include childbirth education and parenting classes, in-home nursing care, postpartum visits, nutrition and life counseling and referrals for other community services.

STRATEGY: Encourage parents and families to prepare children for their education (i.e., reading, problem-solving and literacy skills).

### KEY INDICATORS:

- Infant mortality and birth defect rates
- Percentage of fully immunized children
- Kindergarten readiness and achievement in grades 1-3
- Poverty rate for children



GOAL 2: Challenge the Kanawha County School System to deliver a quality education.

OBJECTIVE: Encourage the Kanawha County School System to work together with local colleges to improve the education delivery system which includes K-12, community technical colleges and universities, along with labor union apprenticeship programs and post-graduate studies.

OBJECTIVE: Encourage Kanawha County Schools and local colleges to inform Kanawha County citizens about education and lifelong learning opportunities that will prepare them for meaningful work and a high quality of life.

**Recommendation**

Encourage the WV Board of Education to define, monitor, and measure the effectiveness of the County's educational delivery system.

**Recommendation**

Encourage the Kanawha County School System to clearly articulate and maintain a high-performance level expected of both educators and students.

**Recommendation**

Encourage the Kanawha County School System to work closely with local business groups to make adjustments to the educational delivery system to accommodate the current and future needs of commerce, industry, government, and the community.

**Recommendation**

Continue support for the Clay Center. Continue to fund the free youth admission program which allows thousands of area school children to attend the Clay Center without cost of admission.

**Recommendation**

Continue to provide support and funding for the Kanawha County Library System.

STRATEGY: Encourage Kanawha County Schools to partner and collaborate with community groups, businesses, industries, and other educational stakeholders to identify the essential skills and knowledge that all students should have at specified benchmark grades.

STRATEGY: Encourage changes in the formal education system to help all students, educators, and education administrators learn about the environment, the economy, and social equity as they relate to all social disciplines and their daily lives.

STRATEGY: Encourage professional development for teachers (pre-service and in-service), curriculum reform, school-based family service centers, and equitable funding of educational institutions in Kanawha County.

INDICATORS:

- Performance-based incentives and sanctions
- High school dropout rate
- Quality job placement
- Non-managerial workers engaged in continuous learning

GOAL 3: Encourage the Kanawha County School System to develop, use, and expand access to information technologies in all educational settings.

OBJECTIVE: Public and private sectors should support the development of and equitable access to enhanced multimedia telecommunications technologies and make full use of the Internet to improve capabilities that help promote community sustainability and eliminate duplication.

**Recommendation**

Encourage Kanawha County Schools to develop, use, and expand access to information technologies in all educational settings.

OBJECTIVE: Formal and informal educators should ensure that information technologies invites and involves diverse viewpoints, and that everyone - regardless of background and origin - has opportunities to participate in all aspects of the learning process.

INDICATORS:

- Number and use of multimedia telecommunications sites
- "Hits" and homepages at local Internet servers
- Local synthesis of new ideas from diverse points of view

GOAL 4: Encourage the Kanawha County School System to constructively expand the role of local educational facilities and programs in the daily lives of Kanawha County residents.

**Recommendation**

Encourage the Kanawha County School System to establish, where appropriate, a "Community Schools Program" to develop existing schools as community centers to host community events and programs during non-school hours.

OBJECTIVE: To increase citizen awareness and ability to engage in decisions affecting their lives.

STRATEGY: Encourage community-based citizen action groups throughout Kanawha County; and with School Board approval, use existing schools to host events and programs.

OBJECTIVE: Endorse and promote awareness of the economic, environmental, and social benefits of sustainable practices—such as more efficient resource use in government, the private sector, and the home—and encourage local governments, businesses, and community groups to engage people in making these improvements.

OBJECTIVE: Where no other suitable community center exists, encourage community groups to create a public place for local exchange of information and ideas, where they may possibly combine recreational activities and entertainment with formal and informal educational opportunities to create synergy and, therefore, greater public participation rates.

INDICATORS:

- Identifying local risks and priorities
- Developing innovative solutions

- Measuring progress toward local economic, environmental, and social goals

GOAL 5: Work with and encourage the Kanawha County School System to ensure that students arrive to and from school safely, especially when being transported by school bus.

GOAL 6: Encourage and support Kanawha County Schools CTE/Advanced Education Programs such as Ben Franklin Career Center and Carver Career and Technical Education Center.

GOAL 7: Encourage the expansion and coordination of public and private training programs to enable all people to improve their skills to match future job requirements on a continuing basis.

OBJECTIVE: Businesses, unions, schools, students, and local governments within Kanawha County should be encouraged to develop and integrate training programs to ensure that all workers—especially those who need it most—have the necessary skills to take advantage of current and future employment opportunities.

STRATEGY: Training programs to be integrated and potentially expanded include school-to-work, tech-prep, apprenticeships, community service, summer youth employment, and job corps opportunities.

## ***Discussion of Education & Training Issues in Kanawha County***

Three colleges and universities have primary campuses located in Kanawha County, providing a full complement of high quality undergraduate and graduate degree programs. Additionally, West Virginia University, which is headquartered in the northern region of the state in Morgantown, conducts medical education from a satellite campus affiliated with the Charleston Area Medical Center in Charleston.

1. The University of Charleston is a privately supported, independent university offering both undergraduate and graduate degree programs.
2. Marshall University's Graduate College, located in South Charleston, caters to the working professional by offering opportunities to earn advanced degrees.
3. West Virginia State University, located in Institute, is a liberal arts and science institution, offering both undergraduate and graduate degree programs.
4. BridgeValley Community and Technical College, which offers 2-year Associate of Science degrees and many 1-year technical and vocational skills programs for skills which are highly valued in today's job market.



In addition to higher education, adult education is available in the County through the Region III Workforce Development Board of Kanawha County, which provides job placement and training programs. The Charleston Job Corps Center provides similar programs for at-risk and urban youth.

Pre-employment, post-employment, and pre-trained personnel job training programs are available from a variety of public and private agencies in Kanawha County. Two vocational-technical schools and one adult career center are operated by Kanawha County Schools, combined with programs through the WV Department of Education, the needs of business and industry are served.



The Kanawha County School System offers a superior public educational program with traditional curriculum and progressive instructional approaches. Special programs for gifted and learning impaired students are also offered through the public school system, along with school-to-work and other special programs.

In order to better prepare for their future, the students curriculum is organized around 16 career clusters. Clusters are broad groups of related occupations representative of the type of occupations available in the world of work. Within each cluster there are career concentrations. Concentrations are groupings of occupations with significant commonalities within a career cluster.

With the assistance of their parents and academic advisors, students in grade 8 will develop Phase 1 of their Personalized Education Plan, a schedule for grades 9 and 10. This includes selection of a cluster and pathway. In grade 10, they will develop Phase 2, selection of career concentration, along with a schedule for grades 11 and 12 and goals for the first year after high school. Each year students will review their plans with their counselors and/or advisors and adjust the plans to accommodate the student's goals and needs. All students will receive specific information regarding career clusters prior to developing the Personalized Education Plan.

Public schools in Kanawha County are governed by a five-member board. School Board members are elected on a non-partisan ballot to represent geographic regions of the county. Each board member serves a (staggered) four-year term.

Catholic, Christian and other private elementary and secondary schools further enhance the public education system. Montessori and parochial schools have a reputation for educational excellence, which is supported by their students' performance records.

#### **Recommendation**

Encourage all local area colleges and universities to work with local businesses to develop, and update curriculum to reflect job skills and knowledge vital to today's business environment and expand access to these classes to all educational settings.

### ***Discussion of the Region III Workforce Development Board of Kanawha County***

The Region III Workforce Development Board of Kanawha County (WDB-KC) is a private, non-profit organization that is charged with creating a workforce development system that meets the current and future needs of the business community as well as those individuals' seeking employment. The vision of the Workforce Development Board of Kanawha County is to create the best workforce development system that benefits both employers and job seekers. The Workforce Development Board of Kanawha County is committed to helping people and businesses achieve their goals of earning degrees or certifications, planning careers, finding or training employees, or overcoming barriers.

The Workforce Development Board of Kanawha County's goal is to make Kanawha County a better place to live and work by ensuring workers have the skills needed to succeed in their career, young adults are prepared to enter the

workforce or educational institutions, and employers have the skilled talent needed to remain competitive. The mission of the Workforce Development Board of Kanawha County is to provide individuals with access to training and educational opportunities to obtain sustainable employment that leads to a livable wage and to provide employers with a skilled workforce.

Programs and services are available through funding from the Workforce Innovation and Opportunity Act (WIOA) which provides training assistance and services to eligible adults, dislocated workers, youth and businesses.



### **Recommendation**

Continue to provide support to the Region III Workforce Development Board of Kanawha County in its goals to meet the ongoing demand for services and training for Kanawha County's youth, both in school and out of school, unemployed and underemployed (adult) workers, who qualify for WIOA assistance, as well as dislocated workers and for providing guidance to better educate men and women about higher paying jobs and careers.

## ***Summary of Recommendations***

- Continue Support for the Clay Center for the Arts & Sciences and the free admission program for Kanawha County school children,
- Encourage the Kanawha County School System to develop and implement initiatives geared to help children arrive at school healthy and ready to learn.
- Encourage the Kanawha County School System to establish adolescent health services in schools which offer youth programs.
- Encourage the WV Board of Education to define, monitor, and measure the effectiveness of the Kanawha County School System educational delivery system.
- Encourage the Kanawha County School System to clearly articulate the performance level expected of both educators and students.
- Encourage the Kanawha County School System to work with business and industry to make adjustments to the educational delivery system to accommodate the current and future needs of commerce, industry, government, and the community.
- Encourage the Kanawha County School System to develop, use, and expand access to information technologies and the Internet in all educational settings.
- Encourage the Kanawha County School System, along with responsible neighborhood groups, to establish, where appropriate, a "Community Schools Program" to develop existing schools as community centers to host community events and programs during non-school hours.
- Continue to provide support for the Kanawha County Library System.
- Encourage all local colleges and universities to work with local businesses to develop and update curriculum to reflect job skills and knowledge vital to today's business environment. Also, encourage all local colleges and universities to expand access to all educational settings.
- Continue to provide support to the Region III Workforce Development Board of Kanawha County in its mission to meet the ongoing demand for services and training for Kanawha County's youth, both in school and out of school, unemployed and underemployed (adult) workers, who qualify for WIOA assistance, as well as dislocated workers and for providing guidance to better educate men and women about higher paying jobs and careers.





# Farms & Agriculture

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## ***Vision***

The remaining farms in Kanawha County will be maintained as much as possible; farmers will be encouraged and supported in their efforts to sustain this vital activity.

## ***Mission***

Work to encourage and preserve farms and agriculture.

## ***Goals, Objectives, and Strategies***

*The following goals and objectives are numbered for identification. The sequence below is not intended to set priority for implementing items.*

- GOAL 1: Work with the WV Department of Agriculture to encourage the continued use of large and small farm and agricultural tracts of land.
- GOAL 2: Encourage the WV Department of Agriculture and the WV Legislature to provide adequate tax incentives for preservation of farm and agricultural operations.
- GOAL 3: Work with the WV Department of Agriculture, the WV Department of Environmental Protection, and the WV Department of Natural Resources to protect existing farms from any adverse impacts caused by new, adjacent, or nearby land development (i.e., soil erosion and sedimentation).
- GOAL 4: Encourage the WV Department of Agriculture to preserve and expand existing agricultural services that enhance farm operations and increase profitability.
- GOAL 5: Collaborate with the WV State Department of Agriculture, WVU Extension, and local colleges and universities to offer certification courses in farming and agriculture.
- GOAL 6: Encourage and support various farmers markets and farm to table programs in Kanawha County.

## ***Discussion of Farm & Agriculture Issues in Kanawha County***

Agricultural uses, including cropland and pasture, remain a large category of development in Kanawha County. Approximately 23,024 acres account for farm operations. New housing and commercial developments may erode this category of developments in the future if the demand for new residential and commercial development sites grows over time.

## ***Summary of Recommendations***

- Work with the WV Department of Agriculture to encourage the continued use of large and small farms and agricultural tracts of land.
- Encourage the WV Department of Agriculture and the WV Legislature to provide adequate tax incentives for preservation of farm and agricultural operations.

- Work with the WV Department of Agriculture, the WV Department of Environmental Protection, and the WV Department of Natural Resources to protect existing farms from any adverse impacts caused by new, adjacent, or nearby land development (i.e., soil erosion and sedimentation).
- Encourage the WV Department of Agriculture to preserve and expand existing agricultural services that enhance farm operations and increase profitability.
- Collaborate with the WV Department of Agriculture, WVU Extension, and local colleges to offer certification courses in farming and agriculture.

# Human & Family Services

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## *Vision*

All residents of Kanawha County are afforded equal opportunity to achieve economic, environmental, and personal well-being.

## *Mission*

Protect, nurture, inform and provide for families, individuals, and children.

## *Goals, Objectives, Strategies*

*The following goals and objectives are numbered for identification. The sequence below is not intended to set priority for implementing items.*

GOAL 1: Work with the WV Department of Health, WV Department of Health Facilities, WV Department of Human Services and other government agencies to develop, maintain and expand access to critical human and family services (i.e., education, health care, information, counseling and community services)

OBJECTIVE: Maintain and expand the centralized system of services information and referral.

STRATEGY: Acquire programmatic information and resources through various agencies, input into the centralized system and outreach to state, regional and local organizations and residents

GOAL 2: Increase opportunities for the elderly to remain independent through increased assisted-living service providers.



OBJECTIVE: Work with WV Bureau of Senior Services, WV Department of Health, WV Department of Health Facilities, WV Department of Human Services, Kanawha Valley Senior Services and other agencies to expand and market adult programs

OBJECTIVE: Encourage more assisted-living residential developments.

STRATEGY: Work with the Charleston-Kanawha County Housing Consortium, WV Housing Development Fund and communities to attract housing developers on assisted-living facilities.

**GOAL 3:** Work with various health groups and agencies to improve access to and availability of family planning and reproductive health services.

**OBJECTIVE:** Reduce the rate of adolescent and unplanned pregnancies, and resulting long-term health issues, long-term welfare, and increased rate of juvenile delinquency. Ensure that all Kanawha County residents have the information and services to address all health concerns and provide connectivity to appropriate service providers.

**STRATEGY:** Strengthen efforts to identify and communicate information to underserved, low-income and rural residents.



**GOAL 4:** Work with West Virginia First Foundation, government agencies, Kanawha County Sheriff's office and local police to reduce substance, alcohol abuse, and dependency in the community.

**OBJECTIVE:** Reduce the use of illegal drugs, prescription drug abuse and eliminate illegal drug and alcohol manufacturing-

**STRATEGY:** Collaborate with the Kanawha County Sheriff's office, WV State Police, FBI and other law enforcement agencies to educate communities on informing law enforcement. Coordinate with schools to disseminate information on drugs and alcohol. Develop and strengthen neighborhood watch programs.

**STRATEGY:** Work with the West Virginia First Foundation to combat the opioid epidemic by strategically using local government opioid funds to combat the opioid problem.

**GOAL 5:** Provide opportunities to participate in decision-making by different social and economic groups.

**OBJECTIVE:** Receive input from all stakeholders to gather information to best serve communities.

**STRATEGY:** Utilize the Regional Intergovernmental Council, Kanawha County Planning Office, Regional Development Authority, schools and non-profits to plan and implement meetings and other data gathering methods such as social media to obtain information.

## ***Discussion of Human & Family Service Issues in Kanawha County***

A community can be measured by the health of its children and the ability of its families to successfully provide for them. Generally, a family's ability to care for and educate its children is related to their personal sense of parental responsibility as well as external support systems and community networks that exist. Parents bear the primary responsibility for meeting their children's educational, emotional, and physical needs, and traditionally, families have relied on relatives, neighbors, and friends to assist them in times of need.

Many families are fortunate enough to have these informal systems to assist them, but too many do not have those networks. They must look to community resources for temporary help or for ongoing support and welfare. It is in Kanawha County's best interest to encourage parents to fulfill their vital roles in their childrearing, so children can grow up healthy and well prepared to assume their roles as responsible citizens.

### **Recommendation**

Encourage the Kanawha County School System, WV Department of Health and WV Department of Human Services to support existing and establish new child and youth development programs in the public schools (i.e., after-school mentoring programs, adolescent health services, etc.).

This 2025 Comprehensive Plan affirms that individual and family services offered in Kanawha County should concentrate on helping people identify their needs and working with them to determine how best to use available resources to improve their lives.

By structuring human and family services according to these ideals, the county can achieve simple, but profound goals:

- Individuals and families will receive assistance tailored to their particular situations, with the goal of being self-sustainable.
- Agencies will be able to evaluate their effectiveness in improving the quality of lives.
- Service organizations will increase their outreach and effect on the community.

### **Recommendation**

Encourage and support the public and private expansion of adult independent living, and programs that increase opportunities for seniors to remain independent.

### **Recommendation**

Encourage the WV Department of Health, WV Department of Health Facilities, WV Department of Human Services and other organizations to synergize programs and resources for the coordinated delivery of primary health, human, and job services, and to provide services that increase opportunities for parents to reenter the labor force, located in areas where people most need them.



Kanawha County is interested in improving the quality of life for all citizens. Community organizations, schools, public and private agencies, and individuals needing services are collaborating to bring about programs and services that are coordinated and easily accessible. Together, they are shaping the principles to guide human and family services over the next 20 years.

<b>Principles for Human and Family Services in Kanawha County</b>
Services are provided in a collaborative environment that includes the service recipient.
Services are responsive to the people they serve.
Service delivery and administration are efficient.
Services lead to positive results for individuals and families.

### ***Summary of Recommendations***

- Encourage the Kanawha County School System, WV Department of Health, WV Department of Health Facilities, and WV Department of Human Services to support existing and establish new child and youth development programs in the public schools (i.e., after-school mentoring programs, adolescent health services, etc.).
- Encourage the WV Department of Health, WV Department of Health Facilities, and WV Department of Human Services to create family resource center(s) for coordinated delivery of primary health, human, and job services, and to provide services that increase opportunities for parents to reenter the labor force, located in communities where people most need them.
- Encourage and support the public and private expansion of adult independent living, and programs/resources that increase opportunities for seniors to remain independent.



## Natural Resources, Environment & Conservation

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### ***Vision***

A community that protects, preserves, and effectively manages its natural environment, and conserves our most precious community resources.

### ***Mission***

To identify, enhance and develop environmental and ecological assets and objectives.

### ***Goals, Objectives, and Strategies***

*The following goals and objectives are numbered for identification. The sequence below is not intended to set priority for implementing items.*

GOAL 1: Ensure that the WV Department of Environmental Protection works to protect and enhance natural and human ecological systems, especially the drinking water system.

OBJECTIVE: WV DEP should develop a definitive guide for best management practices and ecologically appropriate drinking water protection and chemical tank spill control and containment.

OBJECTIVE: Continue working with local watershed groups to ensure a clean drinking water supply.

- Kanawha County Office of Emergency Management will make the protection of the local water supply the highest priority.

**Recommendation:** Begin independent mapping of all the potential water contamination sources in the Elk River and other watersheds feeding into the Kanawha Valley.



GOAL 2: Encourage the DEP and landowners to identify, report and revitalize brownfields—which are contaminated, abandoned, or underutilized land by making them more attractive for redevelopment.

OBJECTIVE: Eliminate barriers and create incentives for redevelopment of brownfield sites.

STRATEGY: Kanawha County Planning Office will coordinate with WV Brownfields Office, WV Division of Environmental Protection, EPA and communities on redevelopment efforts. Community and economic development incentives and programs will be coordinated with the Charleston Area Alliance and WV Dept. of Commerce

GOAL 3: Encourage business, industry, and citizens to generate less waste and pollution, and recycle as much as possible.

OBJECTIVE: Continue offering the Kanawha County Clean-ups.

OBJECTIVE: Decrease waste and pollution, reduce energy demand per household and commercial facility, identify agencies and programs such as American Electric Power (AEP) to assess/audit for energy saving measures and improvements.

STRATEGY: Collaborate with recycling companies to provide recycling programs in underserved or unserved communities. Collaborate with the Kanawha County Solid Waste Authority, WV Solid Waste Management Board, WV Division of Environmental Protection to develop updated waste disposal information and social media to be disseminated at schools, non-profit organizations, state organizations, watersheds, neighborhood associations and other groups.

KEY INDICATORS:

- Decrease in water pollution
- Decline in energy demand per household
- Decline in energy demand per economic output
- Lowered energy costs for industrial and residential consumers

GOAL 4: Continue working with various stakeholders on the federal, state and local level on flood mitigation and stream mitigation plans and strategies.

OBJECTIVE: Continue with the buy-out of flood properties through government grants.

## ***Discussion of Natural Resources, Environmental & Conservation Issues in Kanawha County***

### ***Flood Hazard Areas***

In 1968, the US Congress passed the National Flood Insurance Act, which created the National Flood Insurance Program (NFIP). Kanawha County participates in the NFIP, which is designed to reduce future flood losses through local floodplain management and to provide protection for property owners against potential losses through flood insurance.

As part of the agreement to make federally subsidized flood insurance available in Kanawha County, the Kanawha County Commission adopted Floodplain Management Regulations containing minimum requirements intended to reduce future flood losses of life and property. That ordinance forbids construction or earthwork within the floodway and requires new buildings in the floodplain to be flood proofed and located above the Base Flood Elevation (BFE).



Kanawha County is also responsible for submitting data to the Federal Emergency Management Agency (FEMA) reflecting revised (i.e., actual) flood hazard information so that NFIP maps can be revised as appropriate. This allows risk premium rates and floodplain management regulations to be based on the most current data. The Planning and Development Office currently administers this program through the processing and issuance of building permits.

Flood hazard areas, either floodways or floodplains, constitute a significant portion of the developed area of Kanawha County. These areas are not suitable for human habitation, however, unless floodproofing measures have been taken. Many businesses and residents are located in harm's way, certain to have their lives or property threatened by a future flood event.

**Recommendation:**

Oppose any legislation that seeks to impose burdensome and unrealistic flood insurance rate increases on Kanawha County residents.

**Recommendation**

Acceptance of the Community Rating System for lower flood insurance premiums.

**Recommendation**

Initiate a public awareness program—in conjunction with the administrative permit review and approval procedure—to clarify flood insurance available under the Flood Disaster Protection Act.

**Recommendation**

Continue to use the Kanawha County Commission web site to publish the library of publications on flood insurance, protecting buildings from flood damage, and local contacts for flood emergencies and recovery.

**Recommendation**

Support the WV DEP as they regulate timbering and mining operations and large-scale developments and storm-water run-off as it pertains to streams, rivers, and waterways by requiring a stormwater management plan.

**Recommendation**

Mitigate flood zone properties for potential use in agriculture and/or community recreation.

**Recommendation**

Mitigate stream blockages in flood-prone areas.

### Special Flood Hazard Areas

Existing flood hazard areas are found throughout Kanawha County. A flood-prone study was conducted in 2007 by the Federal Emergency Management Agency and the Kanawha County Planning and Development Office. It includes the 12 following areas in Kanawha County:

- |                     |                    |
|---------------------|--------------------|
| 1. Paint Creek      | 8. Blue Creek      |
| 2. Smith Creek      | 9. Big Sandy       |
| 3. Martins Branch   | 10. Little Sandy   |
| 4. Coopers Creek    | 11. Elk River Area |
| 5. Cabin Creek      | 12. Two-Mile Creek |
| 6. Campbell's Creek |                    |
| 7. Coal River Area  |                    |

These areas are unsuitable for development of any kind, especially construction of utilities or structures. Many businesses and families have been forced to relocate due to flooding.

A better public understanding of flood-prone areas helps to guide buyers, sellers, builders, property owners, and emergency service organizations. It also is important that the Kanawha County Planning Commission have full information on flood activity when reviewing and approving new developments.

**Recommendation**

Update maps of flood-prone areas, flood hazards, and repetitive loss properties as part of implementing the countywide Geographic Information System (GIS).

**Recommendation**

Develop a comprehensive guide to best management practices and to promote ecologically based development and stormwater run-off.

### Brownfields

Brownfields are contaminated sites that previously hosted commercial and industrial development, but are now either abandoned, idle, or underutilized due to the tremendous expense of environmental cleanup and redevelopment.

Nevertheless, these sites may represent potential prospects for accommodating new investment and jobs

in the near term.

**Recommendation**

Encourage grants for revitalization of brownfields sites as defined by Environmental Protection Agency (EPA) standards. Work in coordination with WV DEP and WV Brownfields Assistance Center for assessing/monitoring contaminants on brownfield sites.

***Summary of Recommendations***

- Continue to follow the objectives and implementation of the plan for flood mitigation and control.
- Oppose legislation that seeks to impose unrealistic flood insurance rate increases on residents and businesses.
- Initiate a public awareness program—in conjunction with the administrative permit review and approval procedure—to clarify flood insurance available under the Flood Disaster Protection Act.
- Continue to use the Kanawha County Commission’s web site and social media to publish the library of publications on flood insurance, protecting buildings from flood damage, and local contacts for flood emergencies and recovery.
- Support the WV DEP as they regulate the timbering and mining operations and new large-scale developments and storm water run-off as it pertains to streams, rivers, and waterways by requiring a stormwater management plan.
- Acceptance of Community Rating System for lower flood insurance premiums.
- Mitigate flood zone properties for potential use in agriculture and/or community recreation.
- Mitigate stream blockages in flood-prone areas. Coordinate with local groups and watersheds to identify areas of concern.
- Update maps of flood-prone areas, flood hazards, and repetitive loss properties as part of implementing the county-wide Geographic Information System (GIS).
- Develop a comprehensive guide to best management practices and ecologically based development and stormwater run-off.
- Assist local groups and communities with grants for the revitalization of brownfields as defined by Environmental Protection Agency (EPA) standards.
- Propose legislation to focus on incentives, access road funding, workforce training funding and other programs to encourage new development at brownfield sites.
- Continue and enhance the Kanawha County Recycling events.

## **Planning, Management & Governance**

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### ***Vision***

A proactive and continuous planning program; management which maximizes the public benefits from community meetings and input through various forms of social media/website; governance which is responsive to the needs of Kanawha County and its people.

### ***Mission***

To promote informed and sound decision-making at the neighborhood, local, and regional levels.

### ***Goals, Objectives, and Strategies***

*The following goals and objectives are numbered for identification. The sequence below is not intended to set priority for implementing items.*

### **Planning, Management & Governance**

GOAL 1: Assemble, and maintain information about Kanawha County Ordinances and Regulations, Planning Commission meetings, Building Commission meetings, meeting minutes, Subdivision Applications, Wireless Facilities applications, County Clean-ups and other Planning Office information.

OBJECTIVE: Continue to provide access to information and applications for Kanawha County residents concerning Planning Office matters.

GOAL 2: Initiate an ongoing, strategic planning process that brings people together to identify key issues, develop a vision, set goals and benchmarks, and determine actions to improve their community.

OBJECTIVE: All levels of government, non-profits, for-profits and residents will build decision-making capacity at the local level.

OBJECTIVE: All levels of government should ensure substantial opportunity for public participation in all phases of planning and decision-making to allow those affected to have a voice in the outcome.

GOAL 3: Encourage and support community-based nonprofit corporations dedicated to community development and revitalization.

<b>Recommendation</b>
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Plan, program, budget, and adequately staff new public-sector initiatives.
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OBJECTIVE: Provide technical and staff support to unincorporated communities on special issues that require outside assistance, such as health or safety matters.

GOAL 4: Encourage communities within the region to work together to deal with issues that transcend jurisdictional and other boundaries.

OBJECTIVE: Cooperate with the State, other counties, and communities to improve the region's economy, environment, and quality of life.

STRATEGY: Collaborate on regional issues such as transportation, economic development, and safety and health issues, which affect Kanawha County.

- GOAL 5: Where desired and reasonable, assist with intergovernmental collaboration and agreements on a municipal, countywide, or regional basis to reduce costs, enhance public services, or improve operating efficiency.
- GOAL 6: Continue to receive feedback from our citizens on our county government to ensure that it is sufficiently representative and responsive to the needs of Kanawha County and its residents.
- GOAL 7: Continue works dealing with dilapidated structures and public nuisances within the community through the Kanawha County Demolition Program and the Kanawha County Demolition Grant Program.
- GOAL 8: Continue working with various stakeholders on the federal, state and local level on flood mitigation and stream mitigation plans and strategies.

OBJECTIVE: Continue with the buy-out of flood properties through government grants.

### *Creating More Livable Communities*

- GOAL 1: Develop and improve attractive, functional, and self-sustaining built environments.

OBJECTIVE: Incorporate the principles of good subdivision design in the County Subdivision Regulations.

### *Leadership*

- GOAL 1: All Kanawha County units of government will be helpful, polite, and accountable.
- GOAL 2: All local units of government will empower our residents and institutions by encouraging participation.

#### **Recommendation**

Maintain and update the Comprehensive Development Plan as needed and issue a complete update every 10 years.

OBJECTIVE: Delegate decisions and choices that affect individuals and communities to those directly affected.

OBJECTIVE: Encourage and support people and organizations that plan or co-invest in projects or programs that truly help them.

- GOAL 3: Kanawha County will act regionally to create opportunities and leverage resources.

GOAL 4: Bold, visionary leaders will continue to guide Kanawha County.

GOAL 5: No racial, ethnic, or gender barriers will be tolerated.

**Recommendation**

Develop and implement strategies to recruit highly qualified persons to careers in local government.

OBJECTIVE: Encourage and support agencies that create new community service and leadership opportunities for the youth of Kanawha County.

OBJECTIVE: Encourage organizations that promote better relations between diverse groups.

### ***Discussion of Planning, Management & Governance Issues in Kanawha County***

Implementation of the *2025 Comprehensive Plan* will require continuous improvement in county planning, management, and governance. New technical tools, fiscal management, and general management tools are needed to implement the recommendations of the *Comprehensive Plan*.

#### **Kanawha County Commission – Administration**

The Kanawha County Commission manages County departments and day-to-day administrative matters through the County Manager, and the county staff. The County Manager addresses numerous policy challenges and ever-broadening social responsibilities.

Accessible, responsive, effective, efficient, and financially sound local government—in all categories—is essential to the proper development of private business, for cultural growth, and for the general health and welfare of the citizenry.

Kanawha County has been a pioneer in improving local government in West Virginia. Many new initiatives developed by the Kanawha County Commission have been emulated elsewhere, to the benefit of many. The *2025 Comprehensive Plan* proposes to continue that tradition of innovation and improvement of county government operations.

#### **Community Planning and Development**

As per West Virginia Code, the Community Planning and Development (CP&D) office provides direct staff support to the Kanawha County Planning Commission, as well as managing numerous other County functions.

- Flood Plain Management, Subdivision, and Manufactured Home Park Regulations, Stream and Culvert Mitigation Ordinance among others are currently administered by the Planning and Development Office. These duties include assistance to permit applicants and developers, and presentation of staff reports to Planning Commissioners.
- Salvage Yard Permits and Liquor License Permit applications are among the state-issued permits reviewed by the Kanawha County Planning Commission and administratively handled by Planning Office staff.

- All new street addresses, street names, and changes in address are authorized through Metro 911 Mapping staff, which coordinates with E 9-1-1, the US Postal Service, and all public utilities.
- Several million dollars in Federal and State grants for community development, public water, and public wastewater projects are also developed and administered by the County.
- The Planning Office staff administers an enforcement program targeting slum and blighted properties throughout the county and manages a countywide solid waste cleanup program.
- In the event of natural disaster, all County staff are on-call for emergency response and recovery duties and also assist with Federal and State grant programs to assist victims of natural disaster.
- The Planning Office staff also support the activities of the Regional Development Authority and Kanawha County Building Commission. Technical assistance and staff support is provided to the Kanawha County Commission, County Manager, and all other County agencies as requests are received, and staff resources are available.

### *Regional Development Authority*

The Regional Development Authority currently serves to plan, program, finance, and implement water service extension projects throughout Kanawha County.

### *Kanawha County Housing and Redevelopment Authority*

The Housing Authority currently administers the HUD Section 8 rental assistance program—both certificates and vouchers—and manages the public housing units throughout Kanawha County.

### *Kanawha County Building Commission*

Several projects have been sponsored by this public agency.

### ***Summary of Recommendations***

- Maintain and update the *2025 Comprehensive Plan* as needed and issue a complete update every 10 years.
- Plan, program, budget, and adequately staff new public-sector initiatives.
- Develop and implement strategies/programs to recruit highly qualified people to careers in local government.

# Public Health, Fitness & Safety

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## *Vision*

A healthy community where physical fitness, public wellness, mental health, and public safety are protected, preserved, and enhanced; where medical care is accessible and affordable.

## *Mission*

Create and sustain a collaborative effort between individuals, business, industry, government, and service providers to protect, preserve, and enhance the public's health and safety.

## *Goals, Objectives, and Strategies*

*The following goals and objectives are numbered for identification. The sequence below is not intended to set priority for implementing items.*

### *Public Health & Physical Fitness*

GOAL 1: The health care system will serve the public through delivery of high-quality and cost-effective environmental, preventive, emergency, acute, long-term and other specialized medical care services.

OBJECTIVE: Encourage the elimination of duplication of efforts but maintain adequate levels of accessibility and equitable delivery of health care services.

STRATEGY: Encourage adolescent health services in existing schools and community centers that offer youth programs.

STRATEGY: Implement smoking and tobacco cessation programs.

GOAL 2: Individuals, business, industry, institutions, organizations, service providers, and units of government will work together to improve public health, physical fitness, and safety.

OBJECTIVE: Encourage businesses, non-profits and other organizations to promote and expand employee wellness programs, recreational activities and events.

GOAL 3: The general public will understand the relationship of lifestyle to health and will take responsibility for personal health, physical fitness, mental health and wellness.

OBJECTIVE: Utilize community health assessment tools and measures to help citizens realize their health status.

STRATEGY: Maintain and publish vital statistics on public health risks, especially those regarding heart disease, physical fitness, and use of tobacco.

OBJECTIVE: Increase incentives to promote preventive services, health screenings, and health education services.

GOAL 4: Encourage coordination between local providers and users of public health, fitness, and safety programs.



OBJECTIVE: Identify, modify and/or eliminate barriers to coordination and cooperation among organizations.

GOAL 5: Promote and support physical activity, lifelong fitness, and recreational activities.

OBJECTIVE: Encourage and support physical education classes, after-school programs, and use of existing recreational facilities in public schools during non-school hours and vacations.

GOAL 6: Monitor and track health patterns and communicable disease progression.

### Public Safety & Emergency Services

GOAL 1: Continue to improve coordination and communication between units of local government, law enforcement agencies, and emergency services providers (i.e., emergency medical and fire protection services).

OBJECTIVE: Continue to improve all methods of communication between law enforcement, emergency medical, and fire protection and rescue services (i.e., E 911 radio, mobile data terminal, mapping, etc.). Non-profit collaboration meetings to share programs, grants, collaborations, ideas.

OBJECTIVE: Where practical, improve local Insurance Service Office (ISO) fire classifications to a 5 or less to benefit citizens and businesses.

STRATEGY: Encourage county-wide Standard Operating Procedures, procurement, reporting, and training requirements. Work with ISO office to ensure that county has fulfilled ISO's standards and set objectives for coming years.

OBJECTIVE: Review capacity of public safety infrastructure to accommodate existing and projected demand for services.

STRATEGY: Establish a Kanawha County Public Safety Review Board to benchmark, monitor, recommend and adopt performance standards for all public safety organizations (i.e., Metro E 911, volunteer fire departments).

STRATEGY: Assist with the development of a county-wide recruitment campaign and training program for volunteer firefighters.

STRATEGY: Develop adequate water flow capacity to provide fire hydrants in all urbanized areas of the county. Meet with WV American Water and other water providers to provide regular testing of fire hydrants to ensure adequate systems and flow.

GOAL 2: Create a safe environment for all those in Kanawha County to live, learn, work, and play.

OBJECTIVE: Encourage all law enforcement agencies to develop a county-wide strategy for reducing crime.

STRATEGY: Target substance abuse, including alcohol, tobacco, prescription drug abuse, meth labs, illegal narcotics and controlled substances.

STRATEGY: Target juvenile crime, delinquency, and vandalism. Develop initiatives such as neighborhood watch, mobile cameras and collaborate with business and civic groups to monitor high crime areas.

STRATEGY: Encourage deployment of law enforcement officers into geographic

areas where the incidence of crime is known to be higher.

OBJECTIVE: Coordinate the efforts of municipal and county law enforcement officials with those of the WV State Police and FBI.

STRATEGY: Improve lines of communication between State and local law enforcement officials, to include interconnected Communications Centers (i.e., Metro 911), and other technological advancements.

OBJECTIVE: Establish a working group with county law enforcement and resident groups to identify criminal activities in the neighborhoods.

GOAL 3: Promote and sustain the highest standards for law enforcement, emergency medical, fire protection programs, management, education, training and equipment.

STRATEGY: Improve the methods (i.e., equipment) and management of emergency communications as technology improves. Evaluate other communities across the region and United States for best practices.

STRATEGY: Evaluate the health and benefits for emergency service personnel so as to recruit and retain qualified employees and volunteers.

GOAL 4: Continue to update the uniform, countywide system of street names and street addresses which support and enhance timely delivery of emergency services.

OBJECTIVE: Continue to apply the standards already adopted by the United States Postal Service and the National Emergency Number Association.

### ***Discussion of Public Health, Fitness & Safety Issues in Kanawha County***

The physical and mental well-being of Kanawha County citizens is a major goal of the *2025 Comprehensive Plan*. Without good health, individuals cannot fully attain their best intended outcome for their well-being or the benefit of the community.

Although county and local government units have limited involvement in the delivery of health services, the problems of public health, fitness, and safety are interrelated and complex, and their solution is essential to the long-term success of Kanawha County.

Physical fitness is of special concern, since Kanawha County is an unfortunate leader in the state and the nation in both rates of obesity and sedentary lifestyle.

Public safety—including emergency medical, fire protection, disaster preparedness, law enforcement, and other services—are functions of county and municipal units of government. Many of these services are provided by volunteers in the community.

To a large extent, the achievement of public health, fitness, and safety goals are dependent on goals in other areas addressed in the *2025 Comprehensive Plan*, including public facilities, recreation, economic development, and education. It is understood that individual fitness and safety requires personal responsibility and common sense, not government intervention.

### ***Public Health and Wellness***

The adequacy of public health and wellness programs can be measured only by end results: lowered death, accident, and disability rates; reduced incidence of disease; sedentary lifestyle; and improved level of health.

In comparison to the nation, Kanawha County has a much higher rate of death from heart disease, cancer,

unintentional accidents, and motor vehicle accidents. County residents also have a much higher adult prevalence of cigarette smoking, hypertension, seatbelt nonuse, sedentary lifestyle, and obesity.

Kanawha County is served by numerous medical and health institutions of excellent caliber. Nevertheless, the delivery and/or effectiveness of critical health care services and wellness programs are often inadequate, unacceptable, or unknown.

These inadequacies stem from lack of funding, manpower, and professional motivation; the fixed location of health care facilities and the lack of adequate transportation to them, the scheduling of programs and clinics for staff convenience; and the traditional deterrents among patients (especially families with low incomes)—lack of motivation and ignorance of where and when to obtain health care.

Several statewide and local organizations, including the Kanawha-Charleston Health Department, West Virginia Hospital Association and Kanawha Coalition for Community Health Improvement, have collaborated on studying these issues in more detail. Their initiatives have the following key components:

- Research and development
- Public information and education
- Professional education
- Policy and environmental guidelines
- Coordination and leadership
- Surveillance and evaluation

The Kanawha County Commission may encourage such health advocacy organizations to work toward realizing this plan's public health goals.

**Recommendation**

Encourage local health advocacy groups, comprised of public and private health groups, local schools, and private practitioners, to maintain a statistical profile of public health and wellness indicators, recommend actions and programs to correct inadequacies in present services, and draft a plan for establishing satellite health care clinics and wellness programs in geographic areas of pressing need.

### *Physical Fitness*

Regular physical activity for children, working adults, senior citizens, and other special populations is the most simple, cost-effective means of reducing the risk of developing or dying from some of the County's leading causes of death. Thousands of residents currently suffer from illness that can be prevented or improved through regular physical activity.

The vast majority of Kanawha County residents do not engage in the recommended amount of daily activity, and at least 25% are not active at all. While there are many potential partners in the promotion of physical fitness, county government can primarily encourage improvement through its employees. This 2025 Comprehensive Plan encourages the fitness of its citizens through collaborative initiatives and programs to create recreational opportunities in the community.

**Recommendation**

Encourage development of workplace wellness programs in Kanawha County, with an emphasis on smoking and tobacco cessation.

**Recommendation**

Encourage local schools and community centers to offer adolescent health services and youth fitness programs.

**Recommendation**

Review vital statistics on public health risks, especially those regarding heart disease, physical fitness, and use of tobacco.

**Recommendation**

Encourage the Kanawha County School System to open public schools, where practical, for year-round community recreation.

**Recommendation**

Encourage enclosed malls and other indoor, protected locations to provide safe places for walking in any weather.

**Recommendation**

Encourage the Kanawha-Charleston Health Department to establish programs to control communicable disease.

### *Hospitals, Clinics, and Mental Health Centers*

Private hospitals, clinics, and mental health centers—and the services they provide—are an integral part of the community that must be augmented by public programs. Cooperation at the professional and governmental levels is essential.

Mental illness and emotional disturbances are factors in the increasing rate of crime, breakdown of families, juvenile delinquency, alcoholism, substance abuse, and many other social and economic problems. Hence, mental health assumes an importance equal with physical health in our society.

### *Emergency Ambulance and Medical Services*

Ambulance service is provided by the Kanawha County Emergency Ambulance Authority (KCEAA), currently based in Charleston. The KCEAA board of directors and staff make constant improvements to their training, equipment, and service delivery systems.

**Recommendation**

Encourage local health agencies, schools and community centers to establish location criteria for installation of Automatic External Defibrillators (AEDs) to meet the needs of emergency service personnel and administrators.

**Recommendation**

Continue to encourage RESA to provide adequate training to meet the needs of emergency service personnel and administrators.

**Recommendation**

As a practical, encourage installation of an Automatic Vehicle Locator (AVL) system as part of a new, state-of-the-art High Performance EMS system.

**Recommendation**

Continue to encourage health agencies to establish a countywide CPR system.

**Recommendation**

Encourage Kanawha County public facilities to become compliant with the Americans with Disabilities Act (ADA).

### Enhanced 9-1-1 System Mapping and Addressing

To ensure the effective operation of Kanawha County's enhanced 9-1-1 System, and to establish an orderly system of mapping, street naming, and addressing, Kanawha County undertook a countywide addressing effort in conjunction with the West Virginia Statewide Addressing and Mapping Project. During this project, Kanawha County Metro 9-1-1 completed a thorough survey of addresses throughout the Kanawha County to ensure all addresses met applicable local, state, and federal standards and guidelines. Upon the completion of the project in December of 2010, all homes and business throughout Kanawha County were assigned a unique physical address.

The detailed mapping information produced during the countywide addressing project has since been put to use in a new, map-based Computer Aided Dispatch (CAD) system implemented in March 2013 by Kanawha County Metro 9-1-1. The mapping data has also been used effectively during activations of the county's Emergency Operations Center. Additionally, a system of highly reflective street signs has been installed throughout the county and is maintained by Kanawha County Metro 9-1-1. The signs greatly increase the ability of first responders and other emergency personnel to locate homes and business throughout the county, even in the most rural areas.

**Recommendation**

Continue working to advance the Metro 911 system to the Next Generation level.

### *Fire Protection and Volunteer Fire Departments (VFDs)*

Efficient fire protection in the unincorporated areas of Kanawha County requires adequate numbers of properly equipped fire trucks to be operated continuously and manned by qualified personnel to assure prompt and effective service.

There are currently 32 fire departments located throughout the County. They routinely respond to structure fires, brush/forest fires, motor vehicle accidents, water rescues, and requests for medical assistance. Increasingly, the VFDs also respond to natural disasters, domestic terrorism, and spills of hazardous materials.

A stated goal of the *2025 Comprehensive Plan* is to continue to earn an ISO classification of five or lower for most of the county.

**Recommendation**

Continue to work with the fire service districts as determined by the WV State Fire Commission, where each VFD is assigned to first, second or third.

**Recommendation**

Develop and adopt countywide standard operating procedures, procurement, reporting, and training requirements.

**Recommendation**

Continue to use the RESA 3 County Training Center for burn building and drill tower.

**Recommendation**

Continue to use lines of communication between State and local emergency officials, using interconnected Comm Centers (i.e., Metro 9-1-1), and other technological advancements.

**Recommendation**

Continue to use OEM to monitor the performance of Volunteer Fire Departments (VFD's).

**Recommendation**

Support and encourage the Kanawha County Fireman's Mutual Aid Association as they develop and deploy a countywide recruitment campaign and training program for volunteer firefighters.

**Recommendation**

Develop fire safety education teams of volunteer firefighters to teach fire safety to the community they serve.

**Recommendation**

Develop a smoke alarm campaign to make sure every household in Kanawha County has at least one working smoke alarm.

**Recommendation**

Continue to require IRS 990 tax information for volunteer fire departments in order to receive Kanawha County Commission funding.

### Law Enforcement

Although Kanawha County residents often cited the low crime rate as one of the special strengths of their neighborhoods, they also ranked crime as the second most important problem to address (after air and water pollution). One proven method for reducing crime and juvenile delinquency is a program known as Community Policing.

A very limited Community Policing Program is currently in place, sponsored by the Kanawha County Sheriff's office. To satisfy the requests of residents, an expanded program may be necessary.

**Recommendation**

Establish a working group with county law enforcement and resident groups to identify criminal activities in their neighborhoods.

**Recommendation**

As practical, combine municipal and county law enforcement programs, as needed, in order to achieve greater effectiveness, consistency, and economy of scale.

**Recommendation**

Encourage neighborhood watch groups to enhance community safety.

### Air and Water Pollution

Air and water pollution were cited by Kanawha County citizens as the most serious environmental health threats. The Elk and Kanawha river valleys form natural conduits for the collection of airborne and waterborne pollutants. Coincidentally, the vast majority of our resident population, businesses, and industries are located in these areas.

Other water issues are addressed elsewhere in this Comprehensive Plan (i.e., additional water and sewer service extensions, stormwater management; sediment and erosion control measures, but local government has little influence over other sources of pollution.

Noise pollution was also a problem cited by County residents during the comprehensive planning process and could be addressed during any review of pollution problems in the County. Since noise pollution is primarily an urban problem. Further study and action by municipalities should be respected prior to any consideration by the Kanawha County Commission.

### January 2014 Elk River Chemical Spill:

On Jan. 9, 2014, a large amount of Methylcyclohexane Methanol (MCHM) leaked from an aboveground storage tank into the Elk River. This chemical leak, which occurred upstream from West Virginia American Water intake, polluted the public water supply for as many as 300,000 people in a nine-county area. As a result, an unprecedented “do not use” water order was issued and remained in place in some areas of the Kanawha Valley for over a week.

In March 2014, the West Virginia Legislature responded to this disaster by passing Senate Bill 373. This bill created the “**Aboveground Storage Tank Water Resources Protection Act**” (W.Va. Code §22-30-1 et. seq.) and the “**Public Water Supply Protection Act**” (W.Va. Code §22-31-1). This extensive legislation requires the West Virginia Department of Environmental Protection (WVDEP) to identify potential sources of public water contamination, places increased regulations on owners of above ground chemical storage tanks and directs the West Virginia Bureau of Public Health to conduct a study of the potential long-term health effects of exposure to MCHM.

#### **“Aboveground Storage Tank Water Resources Protection Act”**

- Mandates that owners or operators of all new and existing above ground storage tanks with a capacity of 1,320 gallons or more, with certain exclusions, register with the WVDEP by Oct. 1, 2014. Registration requires owners or operators to provide extensive information regarding each tank (age, size, location, design) as well as the type of product stored.
- All new constructed above ground storage tanks are required to obtain a new tank permit from the WVDEP.
- All above ground storage tanks must: meet certain design and construction standards, implement systems for early detection of releases and to provide immediate reporting of releases, develop corrective action plans; close and remediate tank sites in accordance with standards to be developed by the WVDEP.
- All tanks must have an annual inspection by a licensed engineer who will prepare and submit a written report concerning the tank.
- Tank owners will be required to submit “Spill Prevention Response Plans” which among other things, addresses secondary containment facilities. Plans must be updated every three years.
- Tank owners and operators located within 25 miles of a public water system must annually provide notice to the public water system and the local municipality and county emergency management agencies. This notice must provide a detailed inventory of the type and quantity of product stored, applicable material data safety sheets, and the facilities Spill Prevention Response Plan.
- Establishes civil and criminal penalties of up to \$ 25,000 per day per violation.
- Requires the WVDEP to coordinate with state and local emergency response agencies to prepare emergency response plans to address facility emergency response and incident command
- Establishes the Protect Our Water Fund. The fund will provide monies to be used in responding to leaking tanks when no responsible person is identified and no federal funding is available for any such actions that may be needed to address such a release.

#### **“Public Water Supply Protection Act”**

- Requires WVDEP, in conjunction with the State Division on Homeland Security and Emergency Management and Bureau of Public Health, to identify all “potentially significant contaminant sources” located within the “zones of critical concern” for public water supplies.
- Owners or operators of contaminant sources identified by WVDEP within a zone of critical concern must, upon notice from WVDEP, register their location with WVDEP, provide detailed



information about the potential contaminants, and may be subject to increased regulatory requirements under the authority of both the WVDEP and the Bureau for Public Health.

- Requires public water utilities to develop “source water protection plans” that address a host of issues, including a contingency plan in case of a contamination event, an assessment of the ability to switch to an alternate water source or isolate or divert contaminated waters, operational information about the treatment plant, storage capacity, and a communication plan.
- Establishes the Public Water System Supply Study Commission which is created for the purpose of studying and reporting to the legislature.
- This legislation also requires large water to implement a regular monitoring system to monitor for certain contaminants or demonstrate to the Public Service Commission why such monitoring is not feasible. W.Va. Code §24-2G-1. Public water utilities required to install monitor for contaminants.

**Recommendation**

Kanawha County Office of Emergency Management will make the protection of the local water supply an absolute priority.

## ***Summary of Recommendations***

### ***Public Health and Physical Fitness***

- Encourage local health advocacy groups, comprised of public and private health groups, local schools, and private practitioners, to maintain a statistical profile of public health and wellness indicators, recommend actions and programs to correct inadequacies in present services, and draft a plan for establishing satellite health care clinics and wellness programs in geographic areas of pressing need.
- Continue to provide support and financial assistance to local agencies, clinics, and organizations with the goal of promoting public health.
- Encourage development of workplace wellness programs in Kanawha County.
- Encourage local schools and community centers to offer adolescent health services and youth fitness programs.
- Encourage the Kanawha-Charleston Health Department to review and maintain vital statistics on public health risks, especially those regarding heart disease, meth labs, prescription drug abuse, physical fitness, and use of tobacco.
- Encourage the Kanawha County School System to open public schools, where practical, for year-round community recreation.
- Encourage enclosed malls and other indoor, protected locations to provide safe places for walking in any weather.
- Encourage the Kanawha-Charleston Health Department to establish programs to control communicable disease.

### *Public Safety and Emergency Services*

- Kanawha County Office of Emergency Management will make the protection of the local water supply an absolute priority.
- Encourage installation of fire hydrants in areas underserved where water pressure is available.
- Continue to work with the fire service districts as determined by the WV State Fire Commission, where each VFD assigned to first, second, or third.
- Continue to use the 2 County Training Centers sponsored by RESA 3 with a burn building and drill tower.
- Support and assist the Kanawha County Fireman's Mutual Aid Association as they develop and deploy a countywide recruitment campaign and training program for volunteer firefighters.
- Continue to require IRS 990 tax information for volunteer fire departments in order to receive County Commission funding.
- Encourage KCEAA to establish location criteria for installation of Automatic External Defibrillators (AEDs) to meet the needs of emergency service personnel and administrators.
- Continue with the RESA 3 regional Emergency Service training programs to meet the needs of emergency service personnel and administrators.
- Encourage KCEAA to establish a county-wide CPR system that can be monitored and quantitatively measured.
- Continue working to advance the Metro 911 system to the Next Generation level.
- Continue to use lines of communication between State and local emergency officials, using interconnected Comm Centers (i.e., Metro 911), and other technological advancements.
- Explore municipal and county program consolidation, in arenas where it would result in greater effectiveness, consistency, and economy of scale.
- Encourage Kanawha County public facilities to become compliant with the Americans with Disabilities Act (ADA).
- Encourage neighborhood watch groups to enhance community safety.
- Encourage a county-wide fire safety education program to teach fire safety to the community.
- Encourage a Smoke Alarm program to make sure every household in Kanawha County has at least one working smoke alarm.
- Revise as needed the Kanawha County Wrecker Dispatch Policy (Towing Policy) to guarantee wrecker companies are dispatched in a safe and efficient manner.

## Recreation, Entertainment & Tourism

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### ***Vision***

Everyone in Kanawha County should be able to access and participate in active and passive recreation or leisure activities, either as a spectator or participant.

### ***Mission***

By developing and supporting recreation and leisure activities, our youth, children, and adults, are offered a wide array of amenities for adults, families, and seniors. Kanawha County will continue to provide an environment for enjoyment by residents and visitors.

### ***Goals, Objectives, and Strategies***

*The following goals and objectives are numbered for identification. The sequence below is not intended to set priority for implementing items.*

- GOAL 1: Collaborate and promote the numerous county and city parks in Kanawha County and the development of new parks. Promote and support Coonskin, Shawnee, Little Creek, Cato, Meadowood, Pioneer, Kanawha State Forest, Camp Virgil Tate, Nitro Athletic Complex, Clendenin Air Raid Bike Park, and other parks.
- GOAL 2: Capitalize upon our waterfront recreational opportunities.
- GOAL 3: Capitalize upon existing (local) recreational infrastructure. Promote and support Appalachian Outlaw Trails, Hatfield McCoy Trails Tornado Single Trax Trailhead, Mammoth Preserve, Elk River Rail Trail, and other recreational infrastructure.

STRATEGY: Work with local recreational events and sponsors to expand programs for all county residents.

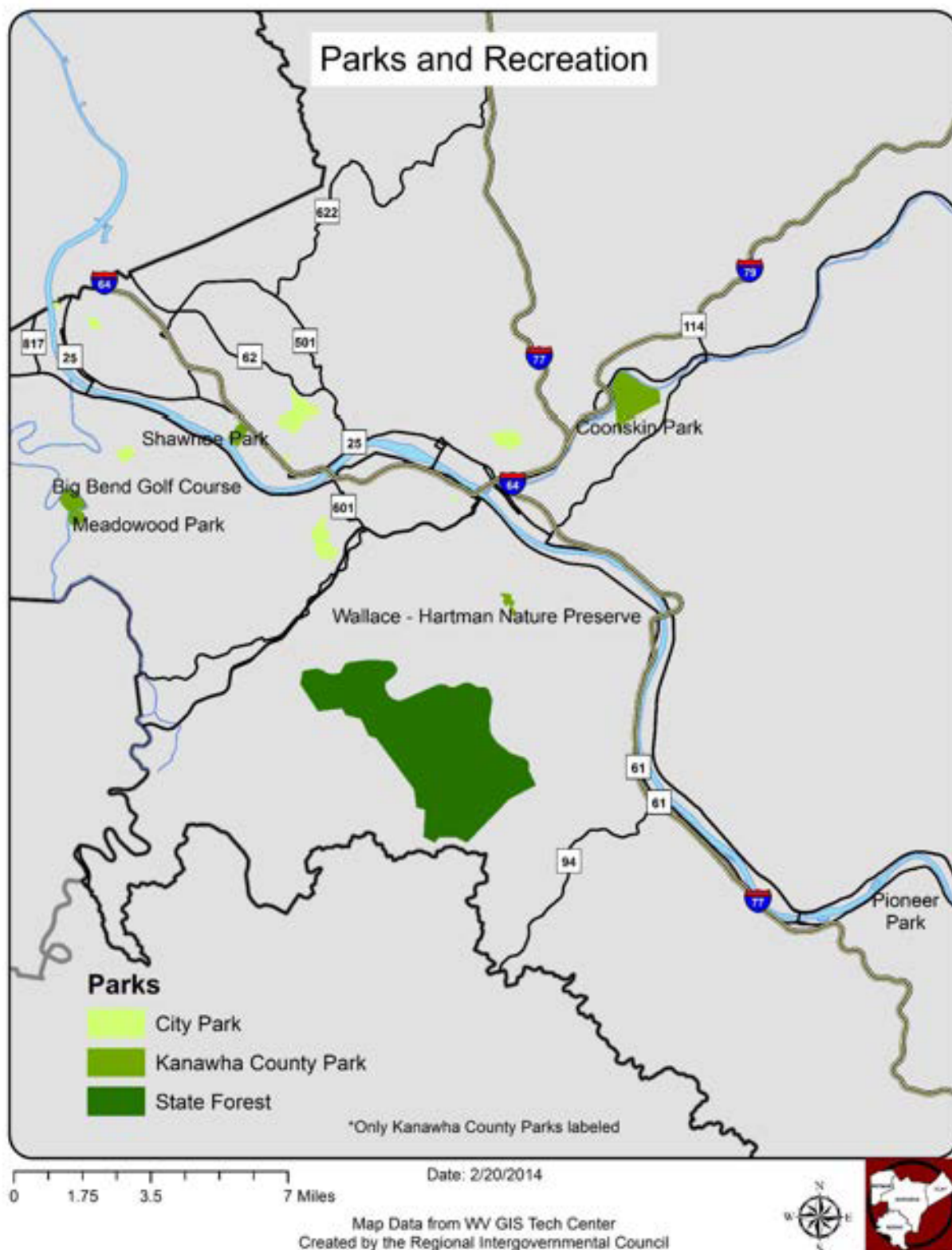
- GOAL 4: Promote the multitude of exercise locations such as the YMCA Tennis Club, YWCA, Nautilus, South Charleston Recreation Center, various Charleston Recreation Centers, and other fitness centers located throughout the County.

### ***Discussion of Recreation, Entertainment & Tourism Issues in Kanawha County***

The Kanawha County Parks and Recreation Commission supports the following public recreational facilities:

- Big Bend Golf Course
- Coonskin Park and Golf Course
- Pioneer Park
- Meadowood Park

These county-owned facilities serve Kanawha County, especially when combined with other city-run golf courses, tennis courts and other recreational facilities.



## *Kanawha State Forest*

In addition to county parks, the state-owned and operated Kanawha State Forest serves the needs of the entire region, including eastern Kanawha County.

West Virginia Region III (Boone, Clay, Kanawha, and Putnam counties) is the only region in the state that is not served by a state park. Kanawha State Forest provides comparable opportunities for outdoor recreation. The public has difficulty using this facility, however, due to its remote location and serpentine access route.

Patrons must use the main access road, traveling through multiple residential neighborhood (County Route 42 via Loudendale), or approach using unpaved roads (County Route 44 via Hernshaw). Other, even less attractive alternative routes are available, but do not provide suitable approach for a regional recreational facility of this size, character, or capacity.

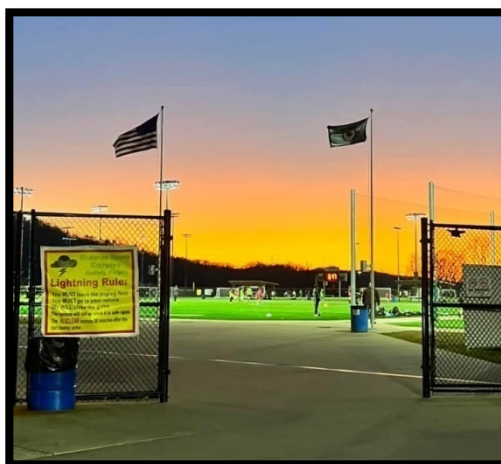
### **Recommendation**

Encourage the State to promote Kanawha State Forest, including encouraging the State to build a new, improved access road to the forest. Improvements to the pool, ballfields and other amenities are needed.

A new approach to Kanawha State Forest would provide direct access to the Upper Kanawha Valley. In so doing, a greater number of potential users will be able to find the forest (a problem often cited by citizens), and the entrance will be much more conveniently located for the majority of County residents.

## *Summary of Recommendations*

- Promote to all citizens the multitude of opportunities for recreation, leisure, exercise that exist in Kanawha County and are more plentiful than in many counties much larger than Kanawha County.
- Encourage the Kanawha County Board of Education, University of Charleston, West Virginia State University, Kanawha County Parks and Recreation, and local cities to establish countywide infrastructure of outdoor athletic fields designed to support community-based softball, baseball, soccer, football, and other sports organizations.
- Encourage the State to promote Kanawha State Forest, including encouraging the State to build a new, improved access road to the forest. Assist with locating funds to make other improvements at Kanawha State Forest.



# Utilities & Infrastructure

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## *Vision*

A community served by all the essential utilities, public improvements, and public services necessary to sustain future growth and development.

## *Mission*

To guide and foster sustainable community and economic growth by providing adequate utilities and infrastructure in a timely manner.

## *Goals, Objectives, and Strategies*

*The following goals and objectives are numbered for identification. The sequence below is not intended to set priority for implementing items.*

GOAL 1: Provide safe, potable drinking water to existing and future development areas.

OBJECTIVE: Plan, program, budget, fund and construct expansion of the existing water treatment and distribution system.

STRATEGY: Pursue all sources of potential funding:

- Community Development Block Grant
- Appalachian Regional Commission
- WV Infrastructure and Jobs Development Council
- WV Water Development Authority
- WV Division of Environmental Protection - Office of Abandoned Mine Lands and Reclamation
- US Department of Commerce - Economic Development Administration
- US Department of Agriculture - Rural Utility Service
- Safe Drinking Water Act Revolving Loan Fund

GOAL 2: Protect water quality by expansion of the existing sanitary sewerage collection and treatment system.

OBJECTIVE: To eliminate all sources of contamination by untreated sewage.

STRATEGY: Pursue all sources of potential funding:

- Community Development Block Grant
- Appalachian Regional Commission
- WV Infrastructure and Jobs Development Council
- WV Water Development Authority
- WV Division of Environmental Protection - Revolving Loan Fund Program
- US Department of Commerce - Economic Development Administration
- US Department of Agriculture - Rural Utility Service

GOAL 3: Modernize and/or consolidate existing Public Service Districts (PSDs) to meet the demands of the 21st Century.

OBJECTIVE: Mobilize infrastructure planning, funding, implementation and operation by sub-regions of Kanawha County (rather than individual cities, towns, and PSDs).

KEY INDICATORS:

Number of Capital Improvement Projects completed

Value of Capital Improvement Projects completed

## ***Discussion of Utility & Infrastructure Issues in Kanawha County***

### ***Public Water Supply***

The public-private partnership between Kanawha County and West Virginia–American Water Company has proven to be very successful. Working together, these two entities have extended the most essential utility of potable water to many rural and urbanized communities throughout Kanawha County.

Several thousand residents have received public water service since the last update of the Comprehensive Plan. Continued service extensions and funding have been allocated for communities in the county.

It is anticipated that access to public water will achieve and maintain a service level of approximately 98% (of all households). In consideration of the rural lifestyle practiced by so many families in Kanawha County, this level of service is exceptional.

#### **Recommendation**

Plan, program, budget, fund, and construct expansion of the existing water treatment and distribution system.

- Kanawha County Office of Emergency Management will make the protection of the local water supply an absolute priority. Kanawha County Emergency officials will provide support to the Kanawha Putnam Emergency Planning Committee, WV DEP, and the State office of Homeland Security in order to implement recently passed legislation aimed at protecting our water supply. See *Aboveground Storage Tank Water Resources Protection Act*, W.Va. Code §22-30-1.

### ***Public Wastewater Collection and Treatment***

The cities of Charleston, South Charleston, Dunbar, and St. Albans currently provide sanitary sewage collection and treatment services within their corporate limits. In isolated cases, collection services are extended beyond municipal boundaries. Public wastewater services throughout the remainder of the county are provided by Public Service Districts (PSDs). While the majority of all households are currently served, there is a continued need to expand existing service areas.

### ***Public Service Districts***

Kanawha County is currently served by approximately six Public Service Districts (PSDs) established pursuant to West Virginia State Code.

As their service areas grow and customer bases expand, several PSDs are becoming contiguous with other service areas. Each PSD performs similar, if not identical, tasks. This constitutes duplication of services. In many cases, the level of service can be maintained or expanded by consolidation of adjacent PSDs.

Consolidation has proven to be a cost-effective solution for many PSDs, including those in financial crisis. By reducing the number of public service districts, significant savings can be realized. This cost reduction can be passed along to patrons or used to finance system expansion or other improvements.

### Recommendation

Modernize and/or consolidate existing Public Service Districts (PSDs) as needed to meet the demands of the 21<sup>st</sup> century.

For wastewater PSDs, three major methods of consolidation are proposed:

- by municipal sanitary boards
- by existing adjacent PSDs
- by a proposed countywide PSD

## Kanawha County & WVAW PPP Water Projects

2002	Witcher Creek	\$820 000	60	\$90,000	\$730,000
2002	Pond Gao	\$1,990,900	160	\$260 000	\$1,730.90
2003	Jordan Creek-White Hollow, Frame Rd-Patterson Dr, Haines Branch, Pete Hollow, Old Goff Mt Rd, Elk Dr-Newhouse Dr, Doctors Creek- Dye/Elmore & Johnson, Blue Creek-Coco, Clearview Heights, Allens Fork-Railroad Hollow, Buff Uck-Keiffer, Frame Road, Spring Fork- Kelly Creek, Fishers Fork, Wills Creek-Big Fork & Sandridge & Bias	\$1,567,092	160	\$260,000	\$1,307,092
2003-2004	Upper Frame Phase I	\$2,552,500	174	\$280,000	\$2,272,500
2008	Upper Winifrede	\$304 001	15	\$45 000	\$259,001
2008	Upper Frame Phase II	\$2187 920	177	\$417,000	\$1 770,920
2008	Upper Fishers Branch/Guthrie	\$1,565,000	55	\$165,000	\$1,400,000
2009	Derricks Creek Ridge	\$1,795,000	62	\$186,000	\$1,609,000
2019	Coalburg	\$425,000	6	\$21,000	\$404000
2019	Pentacre	\$625 000	8	\$28,000	\$597,000
2023	Crestwood	\$1,900,000	35	\$196,896	\$1,703104
2023	Standard Paint Creek - Mahan	\$6,843,750	38	\$816,212	\$6,027,538
<b>TOTAL</b>		<b>\$22,576,163</b>	<b>950</b>	<b>\$2,765,108</b>	<b>\$19,811,055</b>
	<b>Projects Underway</b>				
2025	Olcott	\$11,439 000	152	\$676,000	\$10 763 000
2025	Relation Road	\$710,000	12	\$86,000	\$624,000
2025	Leatherwood	\$7,742,000	110	\$504 000	\$7,238,000
2025	Rambling Hills	\$1,150,000	12	\$67,000	\$1 083,000
<b>TOTAL</b>		<b>\$21,041 000</b>	<b>286</b>	<b>\$1,333,000</b>	<b>\$19 708,000</b>



## Proposed Future Kanawha County Commission Water Extension Projects

Project Name		Notes
1 Relation Road		Awarded - Construction to Begin Spring 2025
2 Rambling Hills		Under Final Design
3 Leatherwood		Under Final Design
4 Olcott		Awaiting final funding approval - ready to bid
5 Dutch Ridge (towards Clay County)		
6 Laurel Fork Phase II (off of Dutch Ridge)		
7 Route 4 Elk River Road to the Clay County Line		
8 Dorfer Dr - between Dutch Rd & Newhouse Dr		
9 Middle Fork of Davis Creek		
10	Poca River - Cicerone Route	
11	Poca River - Price Hollow	
12	Poca River - Rocky Shoals Road	
13	Rock Crest Drive - Grapevine Ridge	
14	Russell Road - Coal Mountain	
15	Spring Fork - Campbells Creek	
16	Bryan Branch	
17	Copens Branch - End	
18	Frogs Creek - Left & Right Forks	
19	McClure Road	
20	Older Drive - Kelly Creek	
21	Sigmon Branch - Turkey Pen	
22	Tower Drive - Campbells Creek	
23	Washington Ave - End of Stover Road, Dunbar	
24	Hillcrest Drive and Riverview in Arborland Acres	
25	Browns Creek near Coal Mountain	
26	Chapps Fork - End of the Hollow	
27	Limestone Road end of road	
28	Warbutton - Branch Road - Clendenin Exit	

### ***Summary of Recommendations***

- Plan, program, budget, fund, and construct expansion of the existing water treatment and distribution system as is practical.
- Modernize and/or consolidate existing Public Service Districts (PSDs) as needed to meet the demands of the 21<sup>st</sup> century as funds become available.

# Funding Suggestions

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## Grants

From fiscal year 2023 to the fiscal year of 2024, Kanawha County received \$4,619,808 in federal and state grant funding. This funding goes to a multitude of county programs including law enforcement, emergency services, drug court, drunk driving prevention, and maintaining courthouse facilities. Below is a summary of federal and state funding acquired:

### Federal:

- U.S. Department of Justice: Crime Assistance is \$128,931.
- U.S. Department of Transportation: State and Community Highway Safety is \$7,896. National Priority Safety Program is \$48,077. The total for the Department of Transportation to \$68,970.
- U.S. Department of Treasury: COVID-19 Coronavirus State and Local Fiscal Recovery Funds is \$3,273,516.
- Appalachian Regional Commission Direct Program: Appalachian Area Development is \$46,854.
- U.S. Environmental Protection Agency (Passed Through West Virginia Department of Environmental Protection): The brownfields multipurpose, assessment, revolving loan fund and cleanup cooperative agreements is \$419,408.
- U.S. Department of Housing and Urban Development Direct Program: Economic Development Initiative is \$189,396.
- U.S. Department of Homeland Security (Passed Through West Virginia Department of Homeland Security): Disaster Grants – Public Assistance is \$133,691 in total. The Homeland Security Grant Program is \$16,392. Which brings the total for the Department of Homeland Security to \$150,083.
- Total Federal Expenditure is \$4,277,158.

### State:

- Community Corrections Grant (Day Report): from 07/01/2023 – 06/30/2024 with a Total Grant Award of \$155,000, and FY 24 Receipts of \$77,500, and FY 24 Expenditures of \$155,000, with an Ending Balance at 06/30/2024 of \$77,500.
- Courthouse Facilities Improvement (CFIA): from 01/01/2024 - 12/31/2024 with a Total Grant Award of \$100,000, and FY 24 Receipts of \$75,920, and FY 24 Expenditures of \$75,920, with an Ending Balance at 06/30/2024 of \$0.
- REAP Litter Control: from 07/01/2023 - 06/30/2024 with a Total Grant Award of \$2000, and FY 24 Receipts of \$2000, and FY 24 Expenditures of \$2000, with an Ending Balance at 06/30/2024 of \$0.
- Commission on Drunk Driving Prevention (CDDP): from 07/01/2023 – 09/29/2023 with a Total Grant Award of \$15,000, and FY 24 Receipts of \$12,194, and FY 24 Expenditures of \$12,194, with an Ending Balance at 06/30/2024 of \$0.
- Commission on Drunk Driving Prevention (CDDP): from 10/21/2023 – 01/21/2024 with a Total Grant Award of \$15,000, and FY 24 Receipts of \$11,678, and FY 24 Expenditures of \$11,678, with an Ending Balance at 06/30/2024 of \$0.
- Commission on Drunk Driving Prevention (CDDP): from 02/23/2024 – 05/26/2024 with a Total Grant Award of \$15,000, and FY 24 Expenditures of \$14,977, with an Ending Balance at 06/30/2024 of \$14,977.
- Records Management Preservation Board (RMPB): from 07/01/2023 – 06/30/2024 with a Total Grant Award of \$16,500 with an Ending Balance at 06/30/2024 of \$0.
- Local Economic Development Grant: from 07/01/2023 – 06/30/2024 with a Total Grant Award of \$24,150, and FY 24 Receipts of \$24,150, and FY 24 Expenditures of \$24,150, with an Ending Balance at 06/30/2024 of \$0.

**Recommendation**

Kanawha County Planning and Development and Kanawha County Commission Grant Coordinator continue to seek all possible grant funding sources.

## Video Lottery and Coal Severance Revenue

Lottery Revenues have been used by the County Commission to support numerous projects and initiatives. In particular, Table Games revenue goes into a separate line item that Commission uses for community projects that support education, emergency services, healthcare, and economic development. Below is a list of some of these contributions from Table Games:

- \$5,000 for Midian Leadership Project Inc.
- \$3,000 for Charleston Challengers
- \$10,000 for Lattas School Improvements
- \$5,000 for Nitro Food Pantry
- \$100,000 for Charleston Regatta Inc.
- \$5,000 for North-South WVSACA
- \$35,000 for Multi-Cultural Festival of WV

Below is a list of sponsored projects from Lottery Revenue:

- Clay Center - \$100,000 annually since 2011 for the purpose of funding free youth admissions to the museum.
- Children's Theatre of Charleston – \$30,000 to construct a ramp making the facility handicap accessible.
- Pinch Volunteer Fire - \$10,000 to modify their firehouse to accommodate a ladder truck.
- Sissonville VFD - \$100,000 toward rebuilding the station after it was destroyed in 2012.
- Kanawha County Ambulance - \$53,000 to equip ambulances with the Lucas Chest Compression System - a new technology designed to improve outcomes in an emergency involving cardiac arrest patients.
- Health Right of Kanawha County - a free clinic that provides medical and dental services to uninsured and underinsured, received \$20,000 in 2011.
- In 2013, Kanawha Valley Fellowship home, which provides treatment for alcoholism and substance abuse, received \$35,000 in table games revenue for improvements to their facility.
- Charleston Area Alliance received \$50,000 to further fund the development of a natural gas program for West Virginia.
- Other organizations receiving Table Games revenue: Kanawha Charleston Humane Society, K9 search and rescue unit, Kanawha County Parks, local 4H program and Camp Virgil Tate, Multi-fest, West Virginia

State University, Shawnee pool, playground equipment for the City of Dunbar, and local schools such as George Washington High, Nitro Elementary, South Charleston and others.

In addition, coal severance revenue has traditionally been used by the County Commission to fund projects in the coal producing areas of Kanawha County, specifically the eastern portion of Kanawha County. Municipalities, service organizations, schools, and non-profit organizations have benefited from coal severance revenue. Below is a list of contributions:

- UKAN (Upper Kanawha Valley Grant) - \$10,000 to Business Up, AI, LLC, \$10,000 to Sweetpea Floral, LLC, and \$10,000 to Greatstone Wealth, LLC. In total, \$30,000 from coal severance revenue served the Upper Kanawha Valley.
- Food Pantry UKAN - \$10,000 to Riverside High School Food Pantry, \$10,000 to Good Shepherd Food Pantry, \$10,000 to Clendenin Ministerial Association, \$10,000 to UKVSAC, and \$10,000 to Aldersgate United Methodist Church. In total, \$50,000 from the coal severance revenue went to the Food Pantries in the Upper Kanawha Valley.
- Southern Appalachian Labor School - \$35,000 from the coal severance revenue went to the Southern Appalachian Labor School to help those in need of valuable skills and experience.
- Volunteer Fire Departments (VFD) - \$20,000 to the Belle VFD, \$20,000 to the Cabin Creek VFD, \$20,000 to the Cedar Grove VFD, \$20,000 to the Chesapeake VFD, \$20,000 to the Clendenin VFD, \$20,000 to the East Bank VFD, \$20,000 to the Glasgow VFD, \$20,000 to the Handley VFD, \$20,000 to the Malden VFD, \$20,000 to the Marmet VFD, \$20,000 to the Montgomery VFD, \$20,000 to the Pinch VFD, \$20,000 to the Pratt VFD, \$20,000 to the Rand VFD, and \$10,000 to the Smithers VFD. In total, \$290,000 went to the Volunteer Fire Departments in Kanawha County, which are vital services that save lives and property.
- Parks and Recreation - \$50,000 went to the Kanawha County Parks & Recreation to keep the parks and recreation areas well maintained.
- Kanawha Valley Senior Services - \$80,000 went to Kanawha Valley Senior Services and is used for assisting the elderly in the county.

**Recommendation**

Continue to allocate Lottery and Coal Severance revenue toward projects and organizations that meet the mission and goals of this Comprehensive Plan.

## Building permit fees

The Kanawha County Planning Office collected \$166,557 in building permit fees for the fiscal year ending June of 2013. For the year 2014, the Kanawha County Commission allocated an additional \$100,000.00 of general fund revenue towards the demolition of blighted and substandard structures.

**Recommendation**

Continue to provide funding and support to the Kanawha County Planning and Development Office's Demolition Program which seeks to remove blighted, unsafe, and unsanitary structures.

## Infrastructure

Plan, program, budget, fund and construct expansion of the existing water treatment and distribution system and public service districts.

### **Recommendation**

Pursue all sources of potential funding, including Small Cities Block Grant, Appalachian Regional Commission, WV Infrastructure Council, Abandoned Mine Land Funds, and other funding.

## Action Plan

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### **Strategies for Implementation:**

### **Recommendation**

At the direction of the Planning Commission and Planning Director, review and prioritize Comprehensive Plan recommendations and goals. Develop subcommittees comprised of county staff and necessary outside agencies to pursue recommendations. (*Timeframe: Complete by late 2025*).

**Recommendation**

Planning Staff will provide a written update to the Planning Commission annually regarding the progress in implementing the goals and recommendations of the Kanawha County Comprehensive Plan (*Timeframe: Continuous – staff to provide update in January or February Planning Commission meeting*)

**Recommendation**

Planning and Community Development staff to review all Planning Commission ordinances and provide written recommendations on improvements or necessary revisions. Emphasis should be placed on the Subdivision Regulations. (*Timeframe: Complete by December 2025*).

**Recommendation**

Economic Development: The County Commission maintains an excellent relationship with the Charleston Area Alliance. The Commission must continue this partnership in order to support and expand the pursuit of new economic development in our region. (*Timeframe: Continuous*)

**Recommendation**

Continue to provide the County Clean-up Program: The County Wide Clean-up Program, held at various locations in each Spring and Fall, has been an overwhelming success. The County Clean-up program helps improve the appearance of our county, protects the local environment, and keeps junk tires and debris out of our streams and rivers. (*Timeframe: Continuous*)

**Recommendation**

Continue to seek out funding and support for water infrastructure projects. (*Timeframe: Continuous*)

**Recommendation**

Emergency Services: Continue active membership in the Kanawha Putnam Emergency Planning Committee. Work cohesively with communities, state agencies, local governments, and industry toward common emergency management goals. Provide support for the implementation **Aboveground Storage Tank Water Resources Protection Act** (W.Va. Code §22-30-1 *et. seq.*) and the **“Public Water Supply Protection Act”** (W.Va. Code §22-31-1) passed by the legislature in March of 2014. (*Timeframe: Continuous*)

**Recommendation**

Comprehensive Plan update and review: Consider revising plan by 2030 in order to ensure goals and recommendations are kept current.



***CURRENT KANAWHA COUNTY ORDINANCE AND REGULATION LIST:***

- Pawn Broker and Scrap Dealers Reporting Requirements Ordinance
- Animal Cruelty & Anti-tethering Ordinance
- Order Increasing Hotel/Motel Occupancy Tax
- Adult Only Establishment Ordinance
- Mobile Home Park Regulations
- Kanawha County Safe Roads Ordinance (ATV Regulations)
- Public Nuisance and Property Maintenance Ordinance
- Salvage Yard Regulations
- Subdivision Regulations
- Wireless Communications Ordinance
- Video Lottery Ordinance
- Commercial Dog Breeder Regulations
- Kanawha County Wrecker and Towing Policy
- Board of Appeals Ordinance
- Stream and Culvert Mitigation Ordinance
- Kanawha County Floodplain Ordinance
- Enforcement Board Ordinance