

City of Fairfax

2035 Comprehensive Plan

-DRAFT-

September 10, 2018



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The City of Fairfax is committed to the letter and spirit of the Americans with Disabilities Act. If you are in need of assistance in interpreting the Livable Fairfax 2035 Comprehensive Plan or to request a reasonable accommodation for any type of disability, please call 703-385-7930, (TTY 711).

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1 Introduction

Background

The City of Fairfax is an independent city of just over six square miles and a current population of around 24,000, located in the heart of Northern Virginia, approximately fifteen miles from Washington, D.C. The City was established as the Town of Providence in 1805 following the construction of the Fairfax County Courthouse at the rural crossroads of Little River Turnpike and Ox Road. The Town became a hub of commerce within a predominantly agricultural area removed from the growing City of Washington. In 1874, the Town adopted the name Fairfax.

The Town emerged as a more significant regional crossroads when US 50 and US 29 were created in 1926 as part of the original U.S. Highway system. These roadways supported the City's economic growth as businesses expanded around the needs of travelers, and the industries serving the surrounding dairy farms. Federal housing programs following the Second World War catalyzed suburban

development in the City, attracting veterans and their families and spurring rapid population growth. The Town was incorporated as The City of Fairfax in 1961. Further residential and economic growth was fueled by the establishment of George Mason University

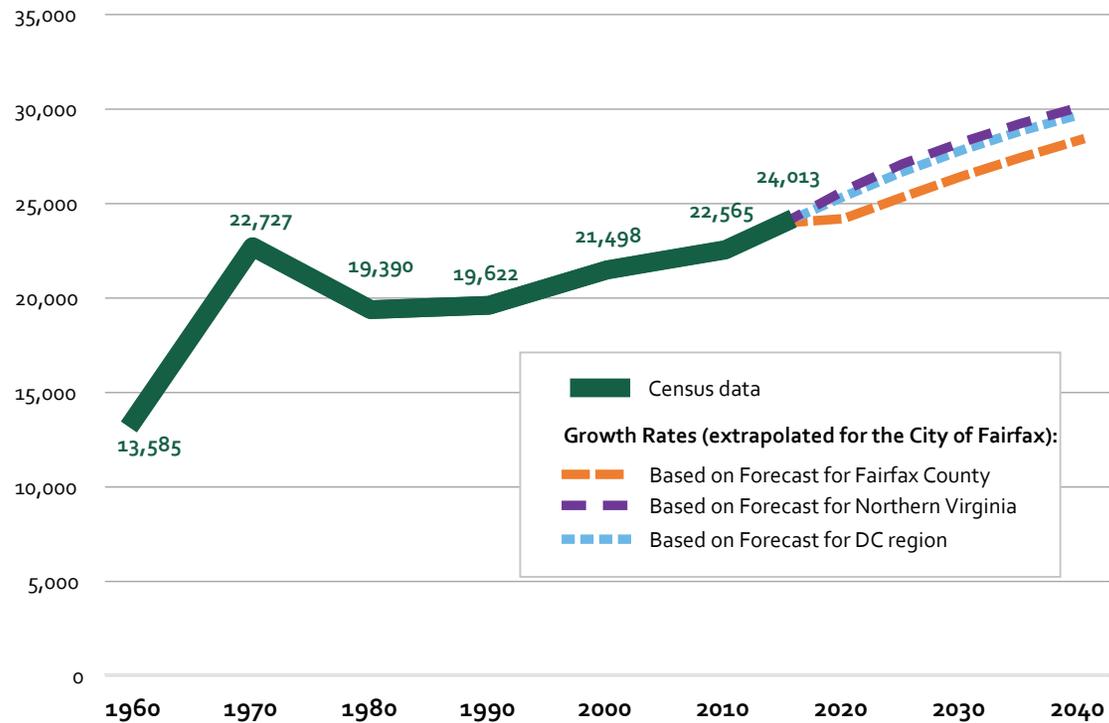
along the City's southern border of the City in 1964 the opening of Interstate 66 along the northern border in 1982 and the extension of the Metrorail Orange Line from Washington to the nearby Vienna Station in 1986.



Main Street Fairfax, 1905 - Winter view of Main Street with the Ratcliffe-Allison House on the right next to Town Hall, built only five years earlier, at the intersection with Mechanic Street (now University Drive).

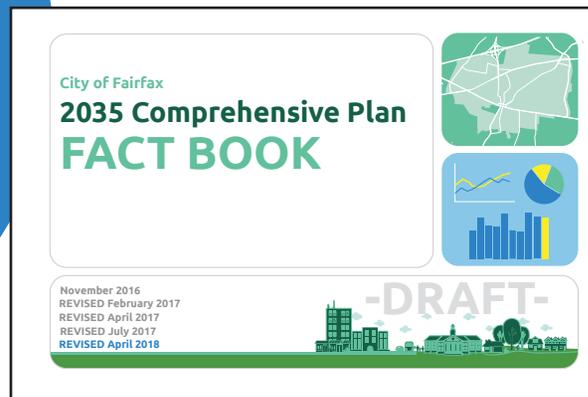
The Metropolitan Washington Council of Governments (MWCOG) forecasts an additional 3,000 residents will live in the City by 2035. The City strives to strike a balance between maintaining the charm that residents currently enjoy and that makes the it unique from surrounding communities, while also guiding the growth and development projected for this metropolitan area.

FIGURE 1 POPULATION HISTORY AND FORECASTS



Source: US Census and MWCOG Round 8.4 Cooperative Forecasting: Population and Household Forecasts

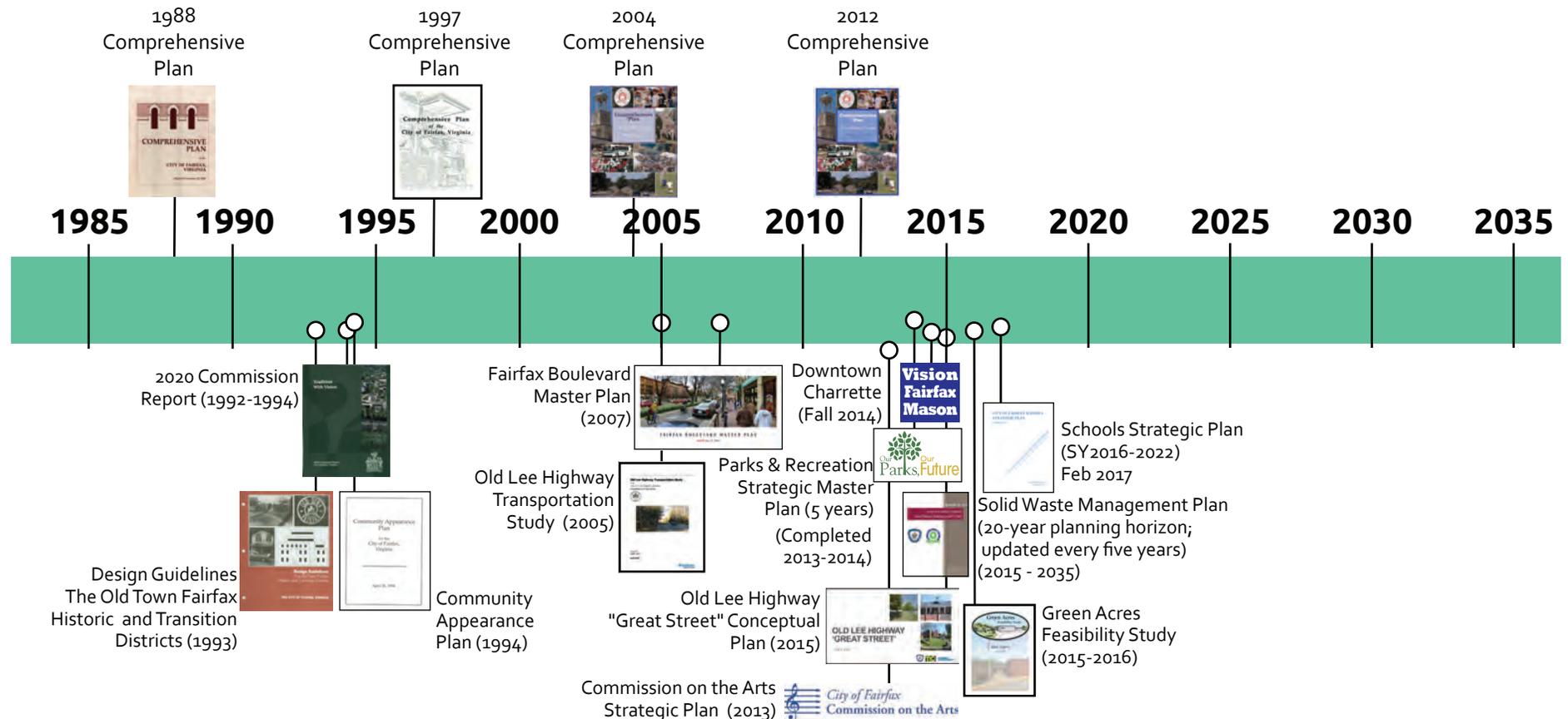
For more information about the population of the City check out the City of Fairfax Fact Book.



The first comprehensive development plan for the City was adopted in June 1968, with amendments in 1971 and 1973. New plans were adopted in 1975, 1982 and 1988, with amendments in 1983, 1991, 1993 and 1997. City Council adopted the Comprehensive Plan's last major rewrite of the City's Comprehensive Plan was adopted by the City Council in July

2004. During the Plan's 2008-2011 review, the Planning Commission amended the existing plan, which was adopted in 2012. Virginia Code requires the Comprehensive Plan to be reviewed by the Planning Commission every five years to determine if it should be amended.

In addition to the Comprehensive Plan updates, many individual studies and plans have been completed over the years as shown in the diagram below. This 2035 Plan incorporates and builds on many of the goals and strategies found in those studies as well as other plans and City policies not identified below.



Structure of the Comprehensive Plan

The Comprehensive Plan is a guide for the future growth of the City, focusing on community needs through 2035. Guidance and policy recommendations are provided through a vision statement, guiding principles, goals, outcomes, actions and metrics, as described below.

- The **Vision** is the aspirational statement of the City of Fairfax in 2035
- **Guiding Principles** are content-specific statements
- **Goals** are general statements of the ideals toward which the City strives
- **Outcomes** define what success looks like for each Goal
- **Actions** are the specific steps necessary to realize each Goal and Outcome
- **Metrics** are how progress is measured toward achieving each Goal

The 16 Guiding Principles, as provided on pages 6-8, are categorized into five chapters: **Land Use Strategies, Multimodal Transportation, Environment and Sustainability, Economic Vitality and Community Services**. Each topic is presented in a chapter of the Comprehensive Plan. Each chapter includes an introduction

that provides background on the topic and a description of existing conditions, as well as opportunities and challenges facing the City that inform some of the policies suggested through the Plan. Additional background information, Goals, Outcomes, Actions and Metrics are then provided for each Guiding Principle.

This plan is supported by two appendices:

- **Appendix A – Chesapeake Bay Preservation Plan** identifies and characterizes the City’s water resources and addresses the effects of land use planning and development on water quality in accordance with the Chesapeake Bay Preservation Act.
- **Appendix B - Transportation Practices and Policy Recommendations** provides additional information on some of the more innovative practices discussed in the Multimodal Transportation Chapter.

What is a Comprehensive Plan?

- Document describing a community’s vision for how it wants to physically grow and develop in the near future (10 to 20 years)
- Provides guidance on land use, transportation, housing, economic development, environment, public facilities, parks, arts, and historic preservation
- Policy document for decision-making which informs zoning and budget decisions, i.e., the Capital Improvement Program (CIP outlines five-year plan for physical improvements in the City – facilities, infrastructure, etc.)

VISION

In 2035, the City of Fairfax
has a strong, sustainable economy
to support a vibrant 21st century community.



GUIDING PRINCIPLES

In 2035, Fairfax is a city with...

...the appeal of a small town and a population that is diverse in its culture, demographics and lifestyles, that capitalizes on its location in the center of the growing region and with easy access to the nation's capital.

Land Use



...inviting neighborhoods, each with its own unique character.



Neighborhoods

...a choice of housing types that meet the needs of our community at all stages of life.



Housing

...an economy that cultivates and promotes business success and entrepreneurial opportunities for large, small and independent businesses and capitalizes on national, regional and intellectual partnerships.

Economic Vitality



Commercial Corridors and Activity Centers



...flourishing centers of commercial and mixed-use activity that include an assortment of grocery stores, restaurants, cafes, entertainment venues, retail stores, offices and housing.

Cultural Arts



...a thriving cultural arts program that supports a variety of special events, art spaces and performance venues.

Multimodal Transportation



...options for residents to easily, safely and efficiently move within and between neighborhoods either by walking, bicycling, taking public transportation or driving.

Community Design and Historic Preservation



...architecture that contributes to a vibrant, creative place and complements our historic character.

Parks and Recreation



...inviting, well-maintained parks, trails, open spaces and multi-generational community centers.

Education



...world-class community schools and a best-in-class education from pre-school to post high school that prepares students to be productive, responsible members of society, capable of competing in the global economy and motivated to pursue life-long learning.

...sustainable practices that preserve, conserve, reuse and recycle resources.

Sustainability Initiatives



...a healthy ecosystem of naturally flowing streams, native plants, wildlife, contiguous natural habitat areas and a healthy tree population.

Government and Public Safety



...exceptional governmental, police and fire safety services.



Natural Environment

...safe, well-maintained infrastructure and use of advanced technology.

Infrastructure and Utilities



Planning Process

Development of the 2035 Comprehensive Plan is based on a three phase process beginning with information collection, followed by analysis and recommendations. Information collection includes references to previous plans and studies that may help inform the Comprehensive Plan and input provided by members of the community, including residents, business owners, City Council, City Boards and Commissions, other stakeholders (George Mason University, Fairfax County, etc.) and City staff. During the information collection period, staff also developed the Fact Book, a summary of a range of data on the City, from physical conditions, to demographics and service analysis.

Based on the previous plans and studies referenced, input collected from the community and data from the Fact Book, a series of goals and outcomes were developed for each of the content areas. These goals and outcomes were reviewed with the Planning Commission and City Boards and Commissions. The same process was followed to develop actions and metrics for each of the content areas. Goals, outcomes, actions and

metrics for each content area encompass the recommendations of the Comprehensive Plan and provide the foundation for the overall document.

More specific data analysis was provided for the Land Use Strategies Guiding Principle of the Land Use Chapter, including a Scenario Analysis using Envision Tomorrow software. This provided a way to illustrate – with graphics and numbers – what the future could look like, given different development contexts, culminating in a public survey on potential development scenarios based on the results of the analysis. Along with the Scenario Analysis, survey results helped guide development of the Future Land Use Map.

Final revisions to the Comprehensive Plan were based on review by members of the community through public open houses, online forums and Planning Commission and City Council meetings. The plan was adopted by City Council on XX/XX/2018 after recommendation by the Planning Commission.

The Multimodal Transportation Plan was prepared through a separate planning process parallel to this one, but with the intention of including it as the transportation element of the 2035 Comprehensive Plan, with connections to land use, open space, housing and economic development.

Community Outreach

Community outreach played a vital role in the development of the Comprehensive Plan. Early public involvement guided all aspects of the Plan including issue and opportunity identification, as well as development of the vision, goals and objectives. Providing the opportunity for public input encourages citizens to be invested in the future of their community and helps ensure that recommendations developed as part of the Comprehensive Plan are implemented and sustained over time.

Staff employed a diverse set of traditional and non-traditional tools and strategies of outreach to ensure all stakeholders had an opportunity to contribute throughout the process.



Community Surveys

The Center for Social Science Research (CSSR) at George Mason University worked with City staff to develop and administer a Community Survey to ask the community for feedback on issues of interest and concern to formulate a vision, goals and objectives for the 2035 Plan.

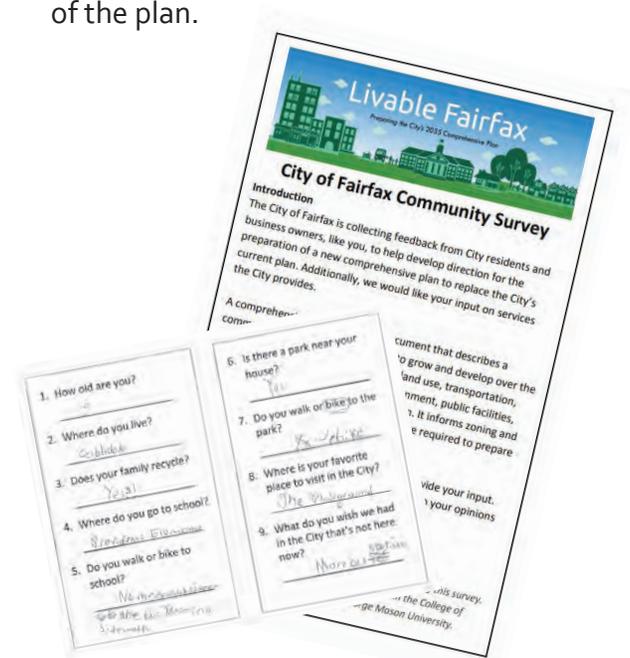
City residents and business owners were notified of the survey via postcards sent out in March 2016, which provided directions on how to take the online survey. Paper copies were also made available to those that requested them.

An overview of the results was presented at a public meeting on June 6 at the Sherwood Community Center, as well as at meetings of the City Council on June 14 and the Planning Commission on June 27, which were televised on Cityscreen-12. The full document detailing the process and analyzing the results was released on June 30, 2016.

CSSR sent out 9,943 postcards to single family residences, apartments, condominiums and businesses in the City and followed up with reminder calls. A total of 863 surveys were completed.

City staff also prepared a short ten question Kids' Survey that was distributed at Parks and Recreation events and to students at Daniels Run Elementary School, Providence Elementary School, Lanier Middle School and Saint Leo the Great Catholic School. A total of 620 kids' surveys were completed. The ages of the students that completed the survey ranged from seven to thirteen.

Online Google surveys were also used to collect feedback on proposed future development scenarios, the future land use map and drafts of the plan.



Website and Social Media

Information about the Comprehensive Plan process, meetings, technical information and opportunities to provide feedback were made available on the City of Fairfax's website. City staff created a page within the website devoted to the 2035 Comprehensive Plan. The shortened URL for the page is www.fairfaxva.gov/livablefairfax.

In addition to the website, City staff promoted meetings and information about the Plan through Facebook and Twitter. One of the many benefits of using social media for outreach is that it allowed staff to track how many people are seeing what was shared and which posts performed the best.

Several of the presentations were shared live on Facebook and posted on the City's YouTube channel. Staff also created YouTube videos to advertise the community survey which was shown on the City's government access television station, Cityscreen-12. Staff also created a welcome video for an open house to explain the comprehensive plan process.

www.youtube.com/user/cityoffairfaxva

Printed Media

To ensure all members of the community were aware of the comprehensive plan process and opportunities to participate, articles were regularly included in the CityScene, the City's newsletter published monthly and mailed to all businesses and residents in and adjacent to the City of Fairfax. Seventeen articles related to the 2035 Comprehensive Plan have been posted in the CityScene since April 2016.

To reach an even broader audience for targeted events, ads were purchased in regional newspapers the Fairfax Times and Fairfax Connection.

Other printed communications include postcards mailed to all residents and businesses and informational fliers handed out at City events and displayed at City facilities.

CityScene Article

City Seeks Input on Vision for 2035 Comprehensive Plan

The City of Fairfax seeks community feedback on the draft vision statement for the 2035 Comprehensive Plan, culminating with a public comment period during the September 26 Planning Commission meeting. The Comprehensive Plan vision statement will provide guidance on how the city should grow and develop during the next 20 years. Information: 703-385-7930.

The draft vision statement is a series of statements related to each of the proposed content areas in the 2035 Comprehensive Plan: Land Use; Neighborhoods; Com-

mmercial Centers and Redevelopment Areas; Housing; Community Design and Historic Preservation; Transportation, Mobility and Connectivity; Natural Environment; Sustainability Initiatives; Business Attraction, Retention and Promotion; Education; Parks, Recreation and Cultural Arts; Public Safety; Infrastructure and Utilities; and Implementation Strategy and Performance Metrics.

The vision statement is intended to describe Fairfax's values, aspirations and shared image of what the community as a whole

continued on page 6

Public Meetings

The Planning Commission began discussions on preparing the 2035 Comprehensive Plan on Monday, October 26, 2015. Members of the public were encouraged to attend any of the regularly scheduled Planning Commission meetings to share any thoughts or concerns about the Comprehensive Plan even if it was not explicitly being discussed as part of the agenda.

In addition to presentations to the Planning Commission, staff presented briefings and solicited feedback at the regular meetings of other boards and commissions including the School Board, Board of Architectural Review, Community Appearance Committee, Commission on the Arts, Fairfax Renaissance Housing Corporation, Parks and Recreation Advisory Board, Historic Fairfax City Inc., Economic Development Authority, Commission for Women and the Environmental Sustainability Committee. The Planning Commission also hosted joint work sessions at Blenheim with the various boards and commissions to discuss specific topics of interest to them and joint work sessions with the City Council.

Community Events

Open Houses

In addition to regularly scheduled public meetings, staff hosted many open houses at locations throughout the City including the Stacy C. Sherwood Community Center, Old Town Hall, Lanier Middle School and City Hall.



Panel Discussion: Emerging Trends Shaping our Community

The City of Fairfax gathered a panel of experts and a moderator to talk about trends in housing, economic vitality and community development as part of the effort to prepare the 2035 Comprehensive Plan. The moderated panel discussion took place on Saturday, September 16, 2017 at the Sherwood Community Center (3740 Old Lee Highway).

The expert panel included Thomas Maskey, Jr., Principal of Potomac Development Group, who has dedicated 35 years to the development of retail shopping centers and is responsible for over 8 million square feet of development in the Washington, DC region, including landmark projects at Downtown Silver Spring, Washingtonian Center, Milestone Center, Fair Lakes Center, Fairfax Corner, Virginia Gateway and National Harbor; Donald W. Knutson, President of the Knutson Companies, whose development projects include Downtown Brambleton and Crescent Place in Leesburg; and Michelle Krocker, Executive Director of the Northern Virginia Affordable Housing Alliance. The discussion was moderated by Lisa Nisenson, an affiliated researcher with George Mason University's Center for Real Estate Entrepreneurship who leads Alta Planning + Design's New Mobility Group.



City Events

City staff also attended other City events to engage and educate the public about the comprehensive planning process. Those events included:

- Chocolate Lovers Festival
- Scavenger Hunt on July 4
- Fall Festival
- Easter Egg Hunt
- Community Farmers Market
- Rock the Block
- Bike to Work Day



Schools

Staff worked with the City School Board, Superintendent and School Principals to involve the City's students in the comprehensive planning process early and often. In addition to the Kids' Survey that was covered previously, staff made several presentations and had discussions with the students at Daniels Run Elementary School, Providence Elementary School, Lanier Middle School, Fairfax High School and George Mason University. At the end of the 2017-2018 school year, representatives from the City's schools and Mason presented their thoughts on the draft goals to the Planning Commission at public meetings. All City school students grades K through 12 were also encouraged to share their vision of Fairfax in 2035 through an art contest.



Statutory Requirements

The Comprehensive Plan serves as a locality’s primary decision making document for land use and development. It establishes the intent and goals of the community to influence development in both the private and public sectors.

State law governing the development of a Comprehensive Plan (Section 15.2-2223 of the Code of Virginia) requires every county, city and town to adopt a plan for the physical development of the territory within its jurisdiction. The Code further requires that comprehensive plans be reviewed every five years to ensure that the plan is responsive to current circumstances and that its goals continue to be supported by the citizenry. The Planning Commission is tasked with preparing the plan and recommending it to the City Council for adoption.

The Code of Virginia includes both required and optional content for comprehensive plans. The required provisions relate to issues that are fundamental to the plan itself, such as long-range recommendations for development and methods of implementation. In order to address what are perceived as critical issues statewide, the Code of Virginia specifically requires that all comprehensive plans address both affordable housing and transportation infrastructure.

Authority

While the Comprehensive Plan communicates a vision for future land use and development in the City, the Zoning Ordinance provides the regulatory mechanism to ensure that new development and changes in land uses are consistent with this vision. Section 15.2-2232 of the Virginia Code states that a Comprehensive Plan “shall control the general or approximate location, character and extent of each feature shown on the plan.” Consistency with the Comprehensive Plan is one of the approval considerations for zoning text amendments, zoning map amendments, special use permits and special exceptions to the Zoning Ordinance.

Where any new development is proposed that requires a land use action not consistent with the Comprehensive Plan, the applicant should request a modification to the Comprehensive Plan as well, in order to keep the two documents consistent. Such modifications must be reviewed by the Planning Commission and approved by City Council. This provides flexibility for the Comprehensive Plan to adjust to market conditions and design trends, but ensures that any such changes are reviewed and considered within the greater context of the City’s vision.

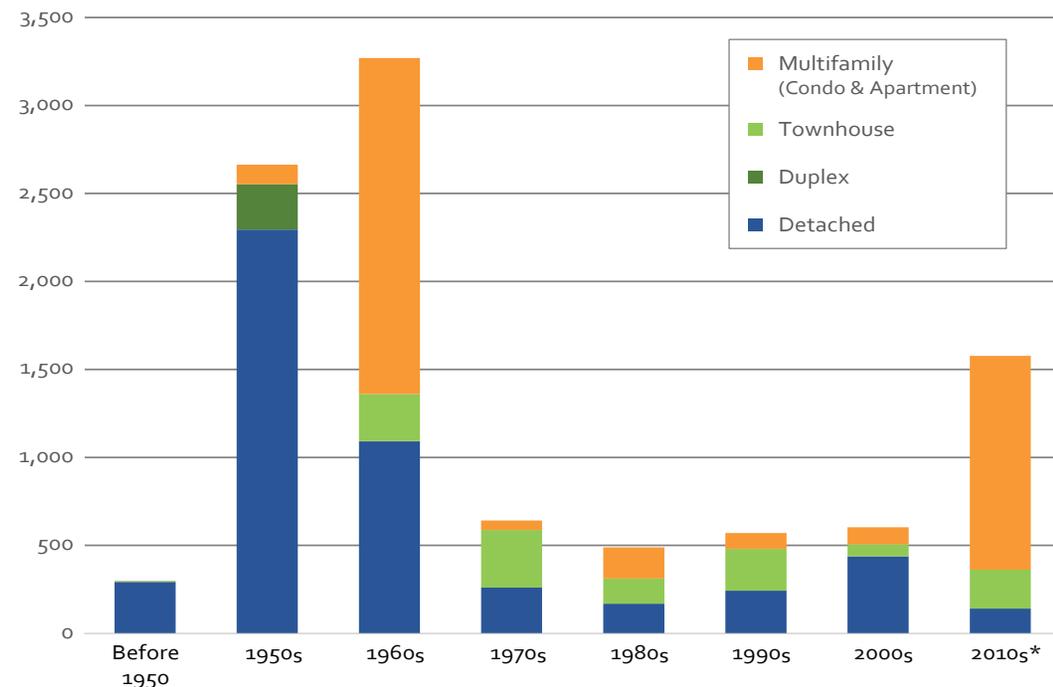
In addition to guiding decisions on land use and development, the Comprehensive Plan includes guidance on investment for transportation and infrastructure. Section 15.2-2232 of the Code of Virginia requires that no public facilities – such as streets, parks, utilities or public buildings – shall be approved or constructed unless deemed to be in accordance with the Comprehensive Plan by the Planning Commission.

2 Land Use

The City of Fairfax’s residential neighborhoods are distinct in housing types, age and character. While much of the land area of the City is encompassed by single-family neighborhoods initially developed in the 1950s and 1960s, there are also a significant amount of multifamily neighborhoods built primarily during the 1960s. Since then, the City has continued to accommodate residential development on smaller sites, including single-family homes, townhomes and multifamily residences.

As developable land has become scarcer, new residential development has been depending more on infill and redevelopment sites. Developers are offering higher end products and seeking greater densities to offset the higher land values and development costs associated with redevelopment sites. In addition, some homes in existing single-family neighborhoods are being significantly renovated, expanded or redeveloped.

FIGURE 2 HOUSING UNITS BY TYPE AND DECADE BUILT



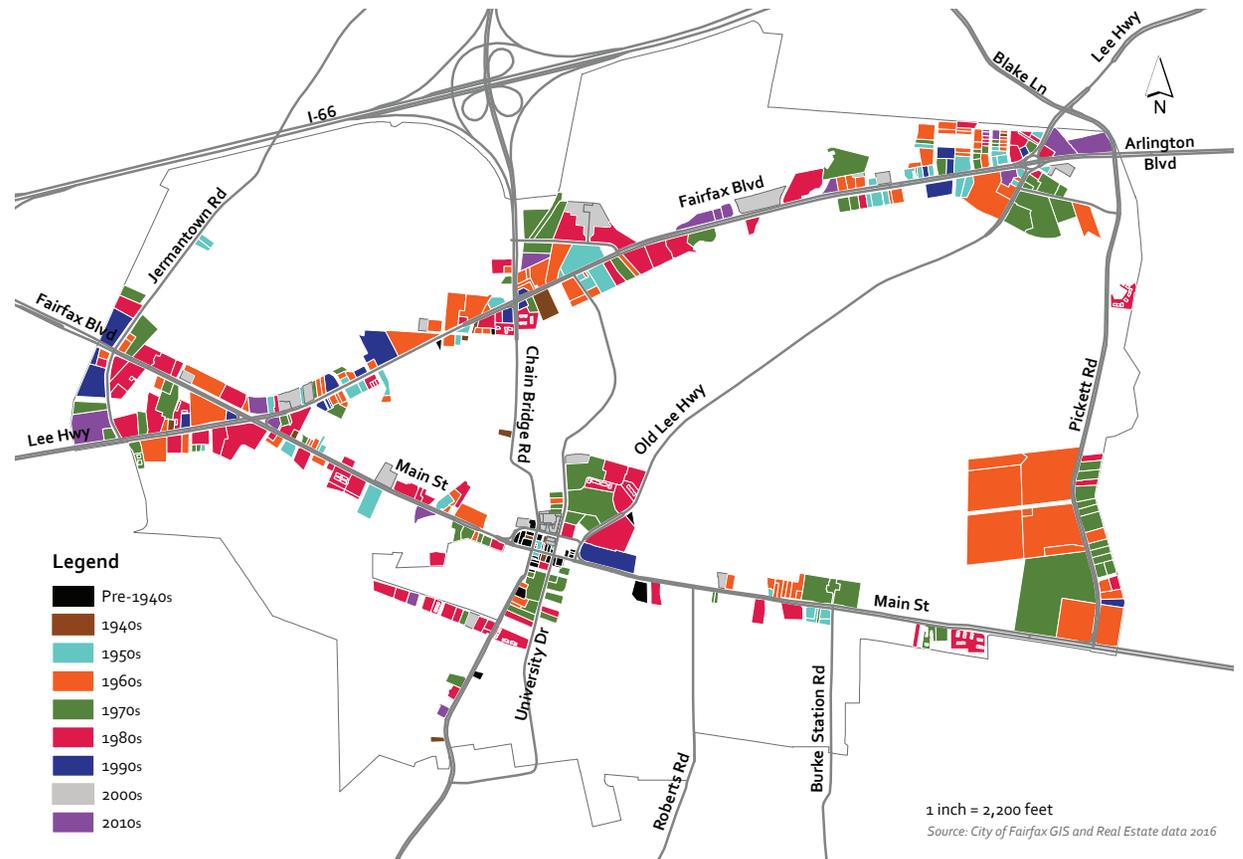
Note: Includes housing units existing and approved as of January, 2018. "2010s" includes housing units under construction, as well as projects that have been approved by City Council, but for which construction has not begun.

Source: Fairfax City Real Estate Assessments

Commercial uses in Fairfax have historically benefited from the City’s location at a crossroads of several regional transportation routes. While most neighborhoods in the City were established in the 1950s and 1960s, heavy commercial growth continued through the 1980s. This was fueled by continuing regional population growth and by general market trends that supported extensive office and retail growth. There has been less commercial growth in recent years as the commercial real estate market has changed and new development in surrounding areas of Fairfax County has added competition to the local market. Despite this, the City has experienced some redevelopment of older commercial properties, and recently approved mixed-use projects indicate that unsubsidized redevelopment remains feasible.

The Land Use Chapter encompasses the following Guiding Principles: Land Use Strategies, Neighborhoods, Commercial Corridors and Activity Centers, Housing and Historic Preservation.

FIGURE 3 COMMERCIAL AND INDUSTRIAL BUILDING AGE BY DECADE BUILT

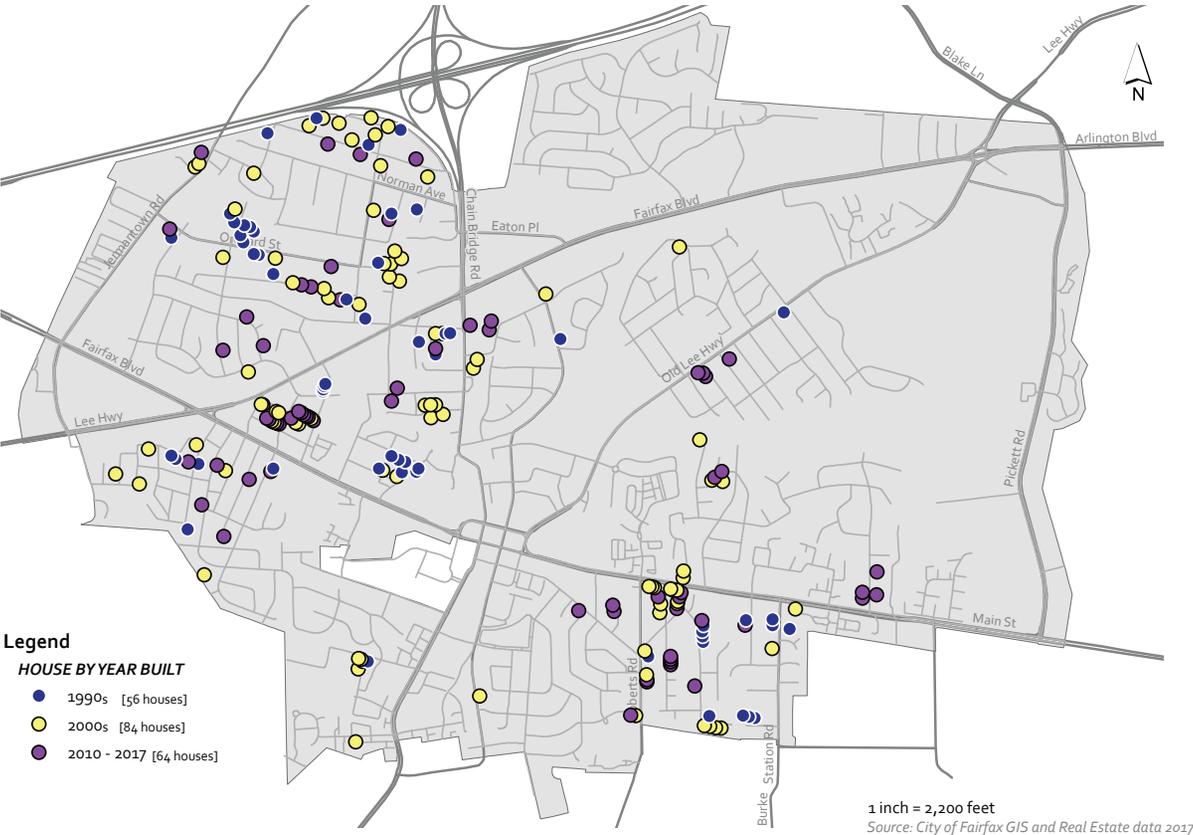


Opportunities and Challenges

Residential improvements

With an aging housing stock, there is consistent pressure for upgrading or replacing existing homes. While this can help keep neighborhoods current with consumer desires and housing preferences, it can also impact the character of existing neighborhoods.

FIGURE 4 INFILL HOUSING BY DECADE BUILT

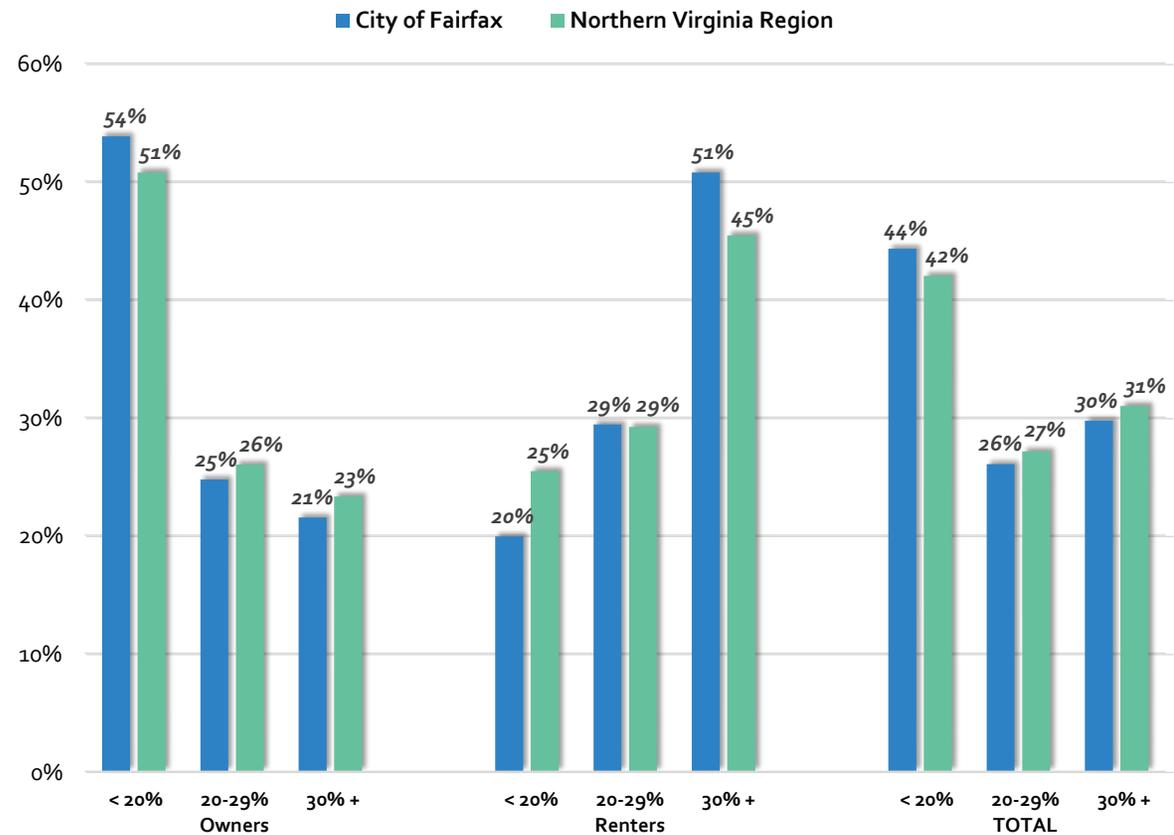


Housing affordability

As the regional economy has grown, increases in housing values have outpaced increases in income. As a result, there are few residential units in the City that are affordable to lower income households. About one-third of City of Fairfax households spend more than 30% of their income on housing costs, as shown in Figure 5 – pointing to a housing market that is imbalanced in regards to residents’ ability to pay.

While many of the apartments that were built in the 1960s are more affordable than newer apartments in the surrounding areas of Fairfax County, their asking rents are not achievable to a full range of incomes. There is also no guarantee that these apartment complexes will remain as “natural occurring affordable housing.” Redevelopments of two complexes have been approved since 2013, and there has been communicated interest in redevelopment of additional complexes.

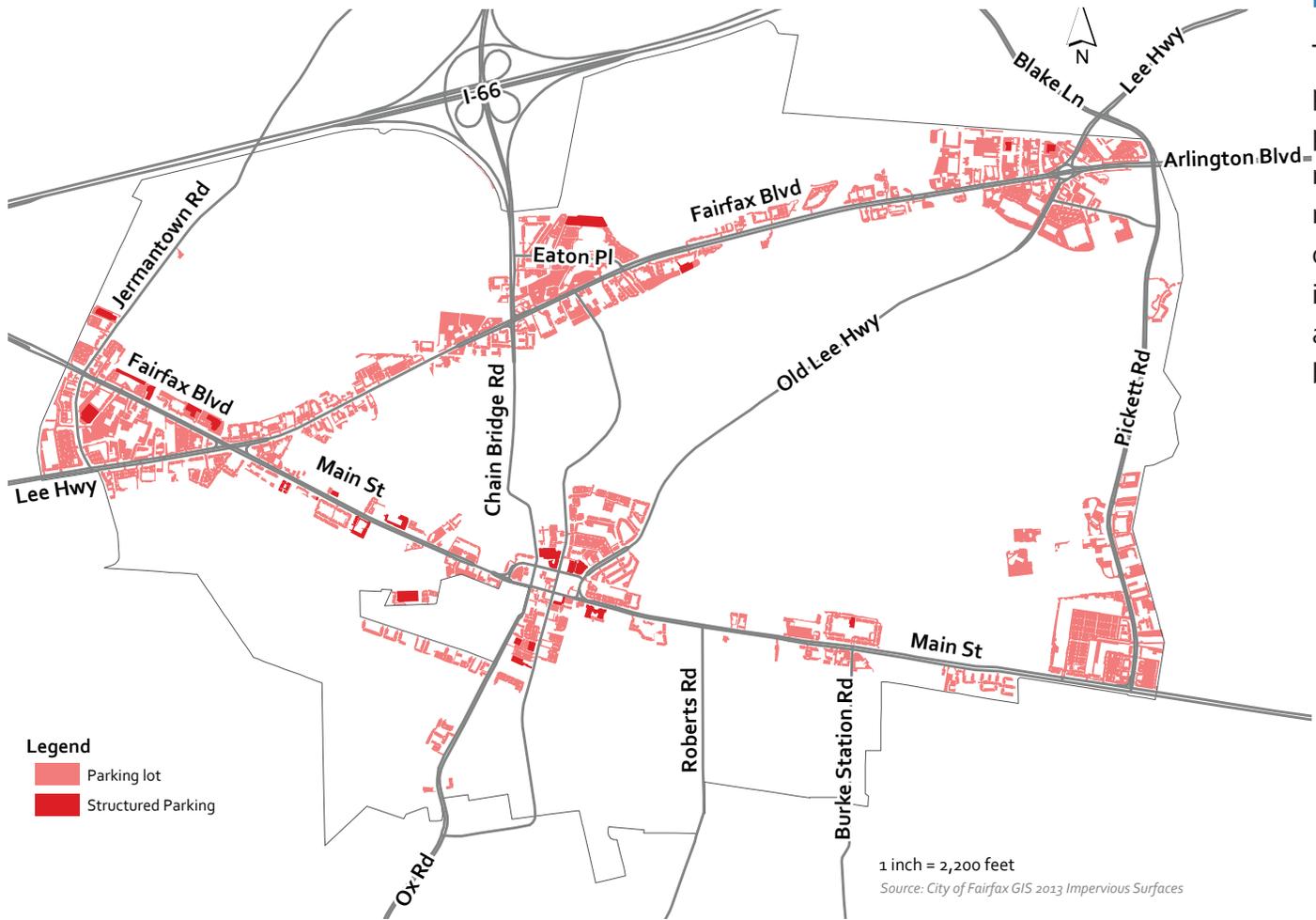
FIGURE 5 HOUSING COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME BY TENURE AND IN TOTAL



Note: 30% of annual income is considered to be the maximum affordable housing cost for The Department of Housing and Urban Development’s Housing Affordability Index.

Source: US Census ACS, 2012-16

FIGURE 7 COMMERCIAL AND INDUSTRIAL SURFACE AND STRUCTURED PARKING



Commercial redevelopment potential

There are numerous commercial properties throughout the City with potential for redevelopment, or to reposition themselves for current market demands. Characteristics of potential redevelopment sites include large lot sizes, significant amounts of surface parking, and low building-to-land value ratios.

Land Use Strategies



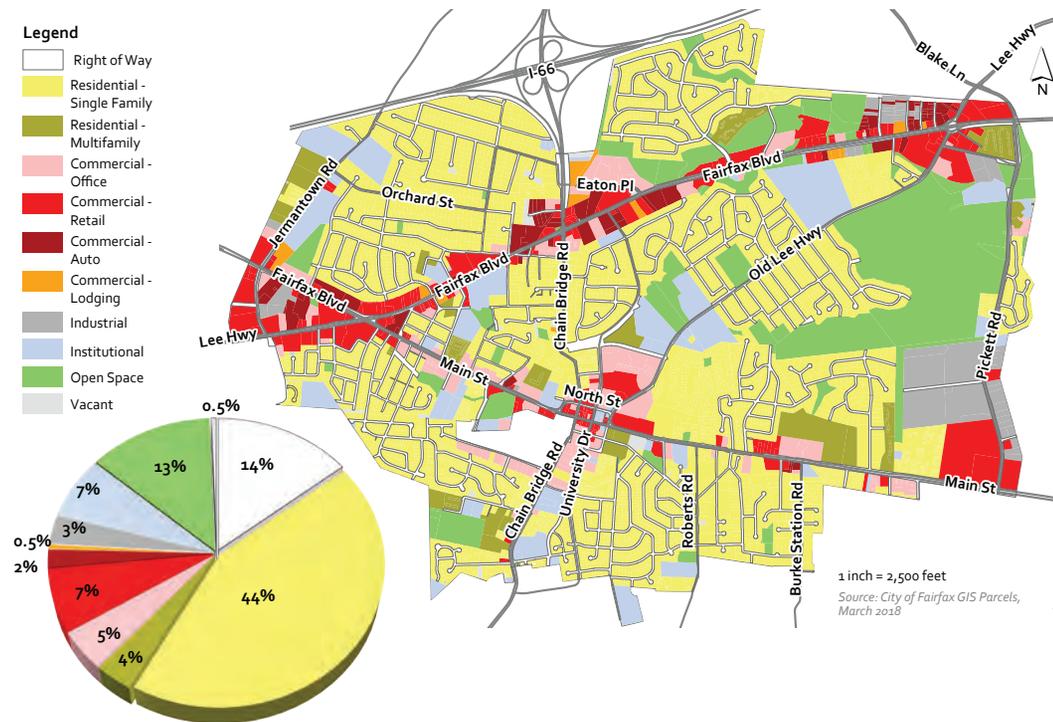
More than 200 years of growth and development have formed Fairfax into a unique small city with development patterns and building styles that span multiple eras. A variety of land uses are distributed throughout the City to complement and support each other. Existing land uses and a summary of land use coverage areas in Fairfax are shown in Figure 8. The City, however, continues to evolve to accommodate changing needs of residents and businesses. The Land Use Guiding Principle supports measures to manage growth in such a way to allow the City to continue to evolve while maintaining the unique character that has taken decades to build.

Managing development heavily depends on the Comprehensive Plan Future Land Use Map. This map, which is supported by Goal 1 of this Guiding Principle, illustrates the desired land uses in the City organized by Place Types. Rather than show land uses as they exist today, it shows how the Plan foresees appropriate development over the next 15 to 20 years. The Place Types shown on the map communicate the types of uses and character of development envisioned throughout the City.

Guiding Principle:

In 2035, Fairfax is a city with... the appeal of a small town and a population that is diverse in its culture, demographics and lifestyles, that capitalizes on its location in the center of the growing region and with easy access to the nation's capital.

FIGURE 8 EXISTING LAND USE MAP



Land Use Strategies

Goal 1

Ensure development is complementary.

While the 6.3 square mile City is primarily built out, leaving few opportunities for large new development, there is consistent pressure for the City’s variety of land use types to adapt to environmental, economic and cultural demands. This means that some flexibility must be provided with a balanced mix of development types that accommodate adaptations without negatively impacting the existing community. New development and redevelopment should be complementary to surrounding areas and contribute to an attractive, accessible and economically viable place.

OUTCOME LU1.1: Future land use map and categories that provide for a balanced mix of development types.

ACTION LU1.1.1 Use the Future Land Use Map (Figure 8), Place Type Descriptions and general text from the Comprehensive Plan, to guide the location and type of development throughout the City.

ACTION LU1.1.2 Refer to specific recommendations and potential alternative uses for “Specific Recommendation Sites” as identified on the Future Land Use Map.

OUTCOME LU1.2: Zoning regulations that accommodate high-quality design and development practices.

ACTION LU1.2.1 Consistently review the Zoning and Subdivision Ordinances and the Zoning Map to ensure they are able to support the Future Land Use Map and other guidance of the Comprehensive Plan.

This can be managed by using the Future Land Use Map in conjunction with recommendations of this Comprehensive Plan and the requirements of the Zoning and Subdivision Ordinances to guide development within the City. While the Future Land Use Map communicates the most appropriate types of uses and character of development, the Zoning and Subdivision Ordinances provide the regulatory measures to accommodate such development. The Ordinances may occasionally be amended to furnish necessary changes for various land uses.

Future Land Use Map

The Future Land Use Map is provided in Figure 9, with specific guidance on development for each of the Place Types identified on the map provided on the following pages. Additional guidance is provided for certain specific sites beginning on page 34. Consideration should also be given to the other Guiding Principles of this chapter, depending on site location and types of uses.

The following information is provided for each of the Place Types:

1. **Definition:** A brief description of the types of uses and structures the Place Type applies to.
2. **Zoning Districts:** A list of Zoning Districts that are most likely to accommodate the uses and structure types provided in the definition for the Place Types.
3. **Link + Place Street Types:** A list of the Link + Place Street Types (as provided in the Multimodal Transportation Chapter of the Comprehensive Plan) where the Place Type is most appropriate.
4. **Physical Characteristics:** A description of general preferences for site design and building placement.
5. **Concept diagrams and photos:** Provided to show typical development patterns for each of the Place Types.

Most new development is anticipated to occur in areas designated as an Activity Center Place Type. There are five areas of the City that have this Place Type designation; Old Town Fairfax, Northfax, Kamp Washington, Fairfax Circle and Pickett & Main. The following additional

guidance is provided for the Activity Center Place Type:

6. **Use Characteristics:** Since multiple uses can be accommodated in the Activity Center Place Type, separate physical characteristics are provided for various use types to ensure that new development provides a consistent character in spite of varying uses.
7. **Residential Limitations:** As a more detailed analysis of specific development scenarios is not included in this plan, limitations on the number of residential units that can be absorbed in each Activity Center are provided. This is intended to communicate to developers, potential land use applicants and the general public, that unrestrained increases in residential development are not anticipated in concentrated areas of the City without potential impacts being better understood.

The Old Town Fairfax and the Northfax Activity Centers, as identified on the Future Land Use Map, are critical development areas for the City. The Old Town Fairfax Center is the historical and cultural center of the City. With convenient access to Interstate 66 and a potential future Metro Station, the Northfax Center is considered the most appropriate location for significant

economic investment in the City. Due to this significance, specific guidance is provided for each of these two areas, including general purpose statements and modifications to Physical and Use Characteristics within the Activity Center Place Type.

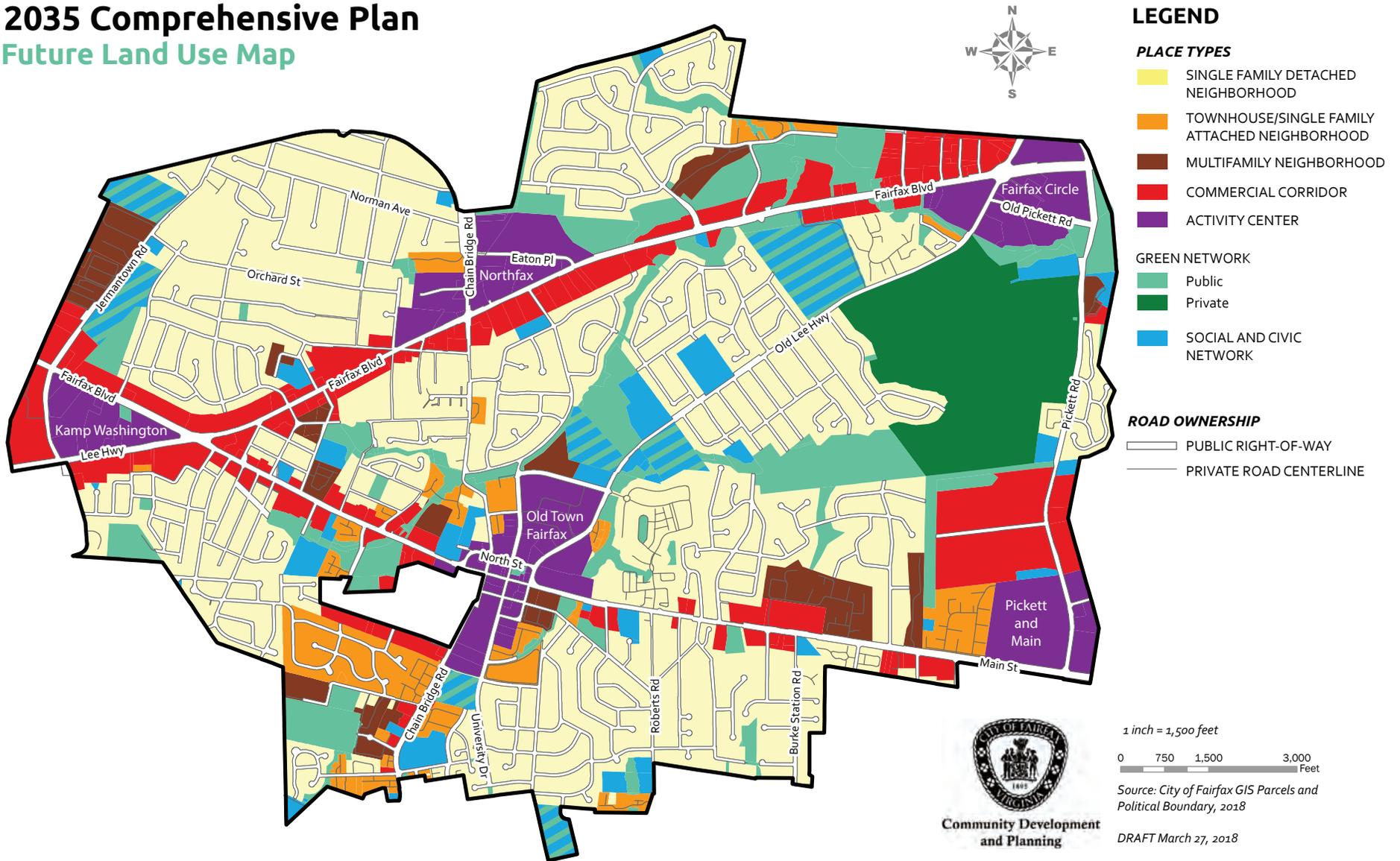
Small Area Plans

Small Area Plans are an opportunity to conduct detailed analysis of concentrated geographic areas of the City and provide more specific recommendations on issues such as land use and transportation, than that provided in the Comprehensive Plan. Small Area Plans can supplement or replace the Comprehensive Plan as the primary source for guidance on development in specific geographic areas of the City. As supported by Land Use Action LU CCAC2.3.5, Small Area Plans are proposed for each of the five Activity Center areas. As each of the Small Area Plans is completed and adopted, the recommendations from that plan will supersede the Activity Center Place Type recommendations from the Future Land Use Map. This may include the guidance provided for Physical Characteristics, appropriate adjacent Link + Place Street Types, Use Characteristics and Residential Limitations.

FIGURE 9 FUTURE LAND USE MAP

2035 Comprehensive Plan

Future Land Use Map



SINGLE-FAMILY DETACHED NEIGHBORHOOD

Definition

The Single-Family Detached Neighborhood Place Type, identified in yellow on the Future Land Use Map, applies to neighborhoods that are primarily developed with single-family detached homes. Accessory uses associated with these residences are permitted, such as home-based businesses and accessory dwelling units.

Physical Characteristics

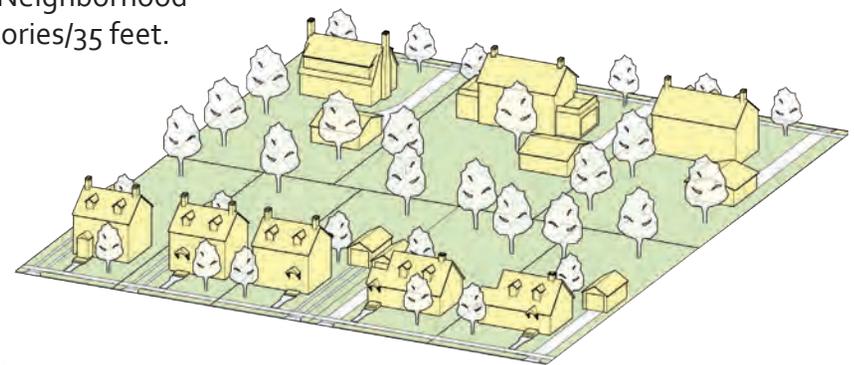
New development of single-family detached homes in an existing residential neighborhood should reflect the character of that neighborhood by providing similar lot widths and building setbacks as surrounding properties. In order to support shared stormwater management facilities and usable open space, narrower lot widths and building setbacks may be considered where a new development provides a similar overall density to the surrounding neighborhood. New development is considered to be within an existing neighborhood where any vehicular access is taken from an existing Limited Connection Residential street or a Neighborhood Circulator. New residential units on all lots that are adjacent to those streets should be oriented with the front of the structure facing that street, even where vehicular access is taken from a new public or private street. Predicated on the underlying zoning district, the Single-Family Detached Neighborhood place type supports up to 7 dwelling units per acre and a maximum height of 3 stories/35 feet.

Zoning Districts

- RL, Residential Low
- RM, Residential Medium
- RH, Residential High
- PD-R, Planned Development Residential

Link + Place Street Types

- Limited Connection Residential
- Neighborhood Circulators
- Some existing Single-Family Detached Neighborhoods are present along Avenue Street Types and Boulevard Street Types, such as portions of Chain Bridge Road, Old Lee Highway and Main Street.



TOWNHOUSE/SINGLE-FAMILY ATTACHED NEIGHBORHOOD

Definition

The Townhouse/Single-Family Attached Neighborhood Place Type, identified in orange on the Future Land Use Map, applies to neighborhoods that are primarily developed with townhouses and single-family attached or duplex housing. Single-family detached uses may be considered in the Townhouse/Single-Family Attached Neighborhood Place Type when developed in conjunction with Townhouse/Single-Family Attached Neighborhood uses.

Physical Characteristics

The design and layout of new Townhouse and Single-Family Attached Neighborhood developments should reflect the location of the development within the City. In particular, development that is adjacent to Single-Family Detached Neighborhood land uses should have a maximum of three floors and provide landscaped setbacks for that portion of the site that is adjacent to any such uses. Otherwise, a building height of up to four stories or 45 feet may be considered. Predicated on the underlying zoning district, the Townhouse/Single-Family Attached Neighborhood land use category supports up to 12 dwelling units per acre.

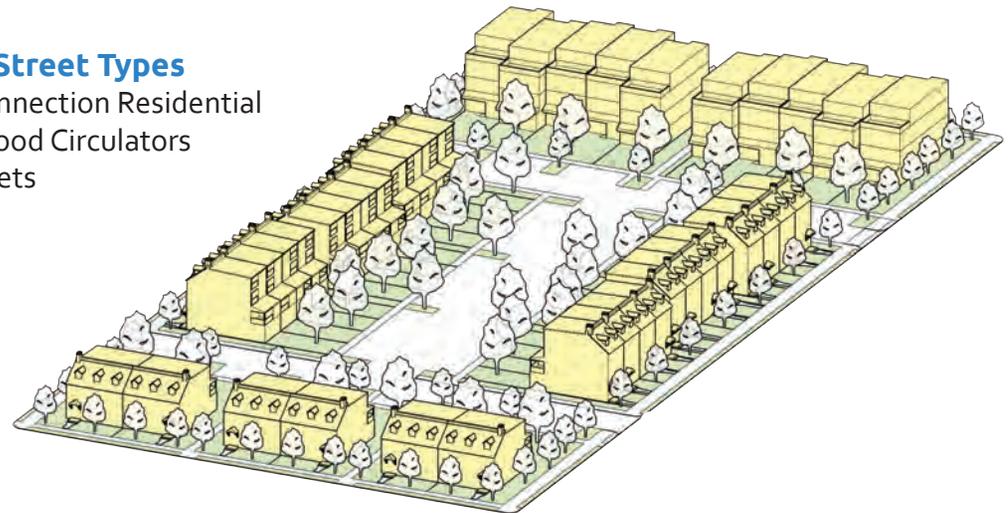
Zoning Districts

- RT, Residential Townhouse
- RT-6, Residential Townhouse
- PD-R, Planned Development Residential



Link + Place Street Types

- Limited Connection Residential
- Neighborhood Circulators
- Active Streets
- Avenues
- Boulevards



MULTIFAMILY NEIGHBORHOOD



Definition

The Multifamily Neighborhood Place Type, identified in brown in the Future Land Use Map, applies to neighborhoods that are primarily developed with multifamily apartment or multifamily condominium housing. Townhouse/Single-Family Attached Neighborhood uses and Single-Family Detached Neighborhood uses may be considered in the Multifamily Neighborhood Place Type when developed in conjunction with Multifamily Neighborhood uses.

Physical Characteristics

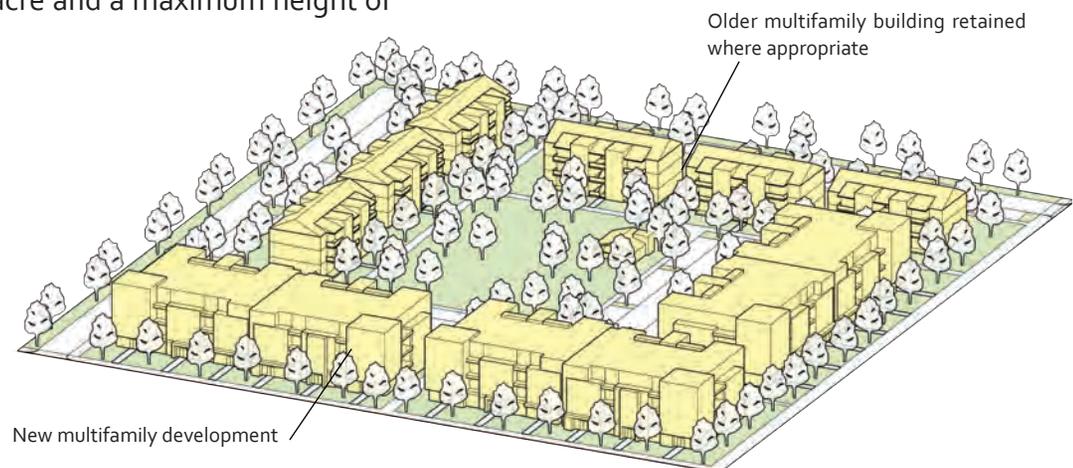
The design and layout of new Multifamily Neighborhood developments should reflect the location of the development within the City. Development that is adjacent to Single-Family Detached Neighborhood or Townhouse/Single-Family Attached land uses should have a maximum of three floors and provide landscaped setbacks for portions of the site that are adjacent to any such uses. Otherwise, a building height of up to four stories or 45 feet may be considered. In order to retain the relative affordability available in many existing multifamily structures, redevelopment of existing multifamily sites within Multifamily Neighborhood land use areas where additional density is permitted by the Zoning Ordinance, should consider accommodating existing multifamily structures. Predicated on the underlying zoning district, the Multifamily Neighborhood Place Type supports up to 20 dwelling units per acre and a maximum height of 4 stories/45 feet.

Zoning Districts

- RMF, Multifamily
- PD-R, Planned Development Residential

Link + Place Street Types

- Limited Connection Residential
- Neighborhood Circulators
- Active Streets
- Avenues
- Boulevards



COMMERCIAL CORRIDOR

Definition

The Commercial Corridor Place Type, identified in red on the Future Land Use Map, includes a mix of retail, restaurant, service, medical, office and technology-based uses. Limited manufacturing and other light industrial uses may also be considered. Heavy industrial uses should not be added or expanded beyond areas where they currently exist (such as the Tank Farm). Commercial areas should accommodate access via a variety of transportation modes and be accessible to adjacent neighborhoods via pedestrian and bicycling facilities.

Physical Characteristics

Commercial Corridor Place Types can accommodate a variety of building types from small footprint retail buildings to multi-story office buildings. The desired orientation and placement of buildings on a Commercial Corridor site is primarily dependent on the adjacent Link + Place Street Type. For sites located along Commercial Mains, buildings should have similar setbacks and building orientation as the recommendations for the nearby Activity Centers. Parking is encouraged in above ground structures or underground, should be provided to the side or rear of buildings, and should be screened from view from the right-of-way by building mass or landscaping. For sites located along Boulevards or other street types, buildings should be located near front property lines with parking provided to the side or rear. Direct pedestrian access should be provided from the pedestrian network in the right-of-way to primary building entrances. Predicated on the underlying zoning district, the Commercial Corridor Place Type supports a density of at least 0.4 floor area ratio for commercial development and a maximum building height of 3 stories/35 feet to 5 stories/60 feet. Refer to the City of Fairfax Design Guidelines for more specific guidance on site design.

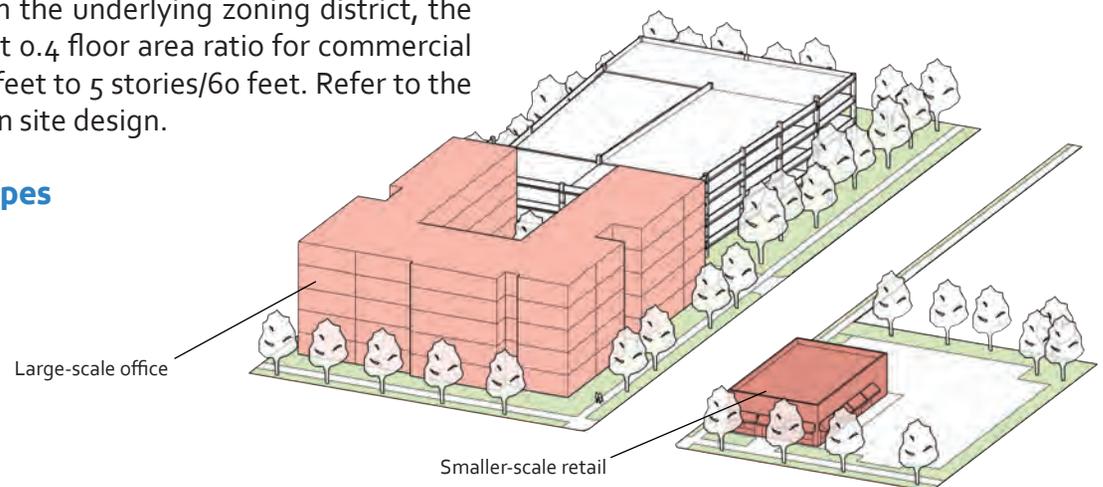


Zoning Districts

- CL, Commercial Limited
- CO, Commercial Office
- CR, Commercial Retail
- CG, Commercial General
- IL, Industrial Light
- IH, Industrial Heavy
- PD-C, Planned Development Commercial
- PD-I, Planned Development Industrial

Link + Place Street Types

- Boulevards
- Commercial Mains



ACTIVITY CENTER

Definition

The Activity Center Place Type, identified in purple on the Future Land Use Map, applies to locations in the City where pedestrian oriented, mixed use development is strongly encouraged. Uses should be integrated as a mix of commercial uses, multifamily housing and townhouses, either in the same building (i.e., vertical mixed-use) or as a combination of single-use buildings on distinct parcels featuring a range of complementary uses within a block or small area (i.e., horizontal mixed-use). Commercial uses could include retail, restaurants, services, offices and hotels.

Physical Characteristics

Activity Centers can accommodate a variety of building types based on the different types of uses permitted and varying characteristics among individual Activity Centers. Recommended physical characteristics for specific uses is provided under Use Characteristics and more specific recommendations are provided for the Old Town Fairfax and Northfax Activity Centers on the following pages. The Comprehensive Plan also recommends Small Area Plans be developed for each of the five identified Activity Centers in the City. As each of these plans is completed and adopted, the recommendations will be incorporated into this document.

In general, new development should support a connected street network as recommended in the Multimodal Transportation Chapter of the Comprehensive Plan, provide an improved streetscape and pedestrian connections to surrounding uses, including links to the existing pedestrian network, and include inviting public and/or private open spaces. Parking should be provided in structured or below-grade facilities where reasonable.

Development in Local Activity Centers must meet the Code of Virginia definition for an Urban Development Area (Virginia Code § 15.2-2223.1) and follow the recommendations for Private Site Design and Elements in the applicable district of the City of Fairfax Design Guidelines. Predicated on the underlying zoning district, the Local Activity Center Place Type supports a density of at least 0.4 floor area ratio; at least six townhouses or at least 12 multifamily dwelling units per acre; or any proportional combination of residential and commercial densities; and a maximum building height of 5 stories/60 feet.



ACTIVITY CENTER

Use Characteristics

Commercial Office: Office uses are acceptable as components of mixed use buildings or as stand-alone buildings.

Retail: Retail uses may be provided on the ground floor of mixed use buildings, as stand-alone buildings, or on upper floors of buildings where larger tenant floor area requirements would detract from an active presence on the first floor. Retail uses are preferred along Commercial Mains but may be provided at other locations within a Local Activity Center.

Hotel: Hotels are acceptable as components of mixed use buildings or as stand-alone buildings. Hotels are preferred in high visibility locations along Commercial Mains and at key intersections.

Public, Civic and Institutional: Public, civic and institutional uses that are allowed by special use permit in commercial districts in the Zoning Ordinance, may be provided as components of mixed-use buildings or as stand-alone buildings.

Residential Multifamily: Residential multifamily uses are acceptable as components of mixed use buildings or as stand-alone buildings. Ground floor residential uses in multifamily or residential mixed-use buildings, including accessory spaces and amenities but not including residential lobby areas, should not be provided along Commercial Mains. Where ground floor residential units are located adjacent to Active Streets, direct exterior access should be provided to individual units.

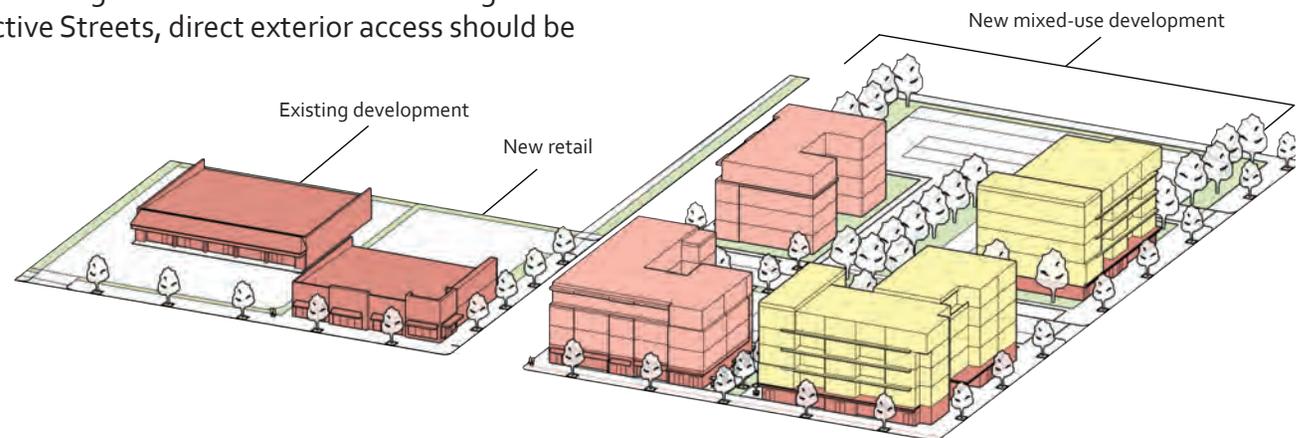
Townhouse: “Live-work” townhouse units with ground floor commercial space that may be owned by the same owner as the residential component or owned by a separate entity are acceptable uses in Activity Centers. Entirely residential townhouses should only be considered to serve as a transitional use to existing development outside the Activity Center.

Zoning Districts

- CU, Commercial Urban
- PD-R, Planned Development Residential
- PD-C, Planned Development Commercial
- PD-M, Planned Development Mixed Use

Link + Place Street Types

- Active Streets
- Commercial Mains



ACTIVITY CENTER

Residential Limitations

Any development within an Activity Center should have a residential density of no more than 20 dwelling units per acre, though a residential density of up to 48 dwelling units per acre may be supported where the proposed development offers benefits that support the vision of the Comprehensive Plan for the Activity Center. Such benefits should include the following:

1. A mix of uses within the development site;
2. Contributions toward a connected street grid;
3. Usable open space, and;
4. High quality design.

In addition, the total amount of new residential development in any individual Activity Center should not exceed the number of units listed below. New residential development includes any residential unit that is initially occupied after the date of adoption of this plan:

Old Town Fairfax Center	850 units
Northfax Center	850 units
Kamp Washington Center	700 units
Fairfax Circle Center	700 units
Pickett & Main Center	300 units

These limitations are based on Metropolitan Washington Council of Governments projections for the Northern Virginia Region and are intended to allow some residential development within Activity Centers that could occur in a coordinated manner that reduces impacts on the existing community. When a Small Area Plan is adopted for an Activity Center that recommends a different residential limit, the recommendations of the Small Area Plan shall supersede the recommendation in this plan. In addition, an applicant may request a modification to development limitations for a particular Activity Center through a Comprehensive Plan Amendment, provided that analyses of anticipated impacts resulting from modifying the development limit are provided as requested by the City.

Direct fiscal benefits to the City from residential developments are not typically as strong as those from commercial properties. In order to avoid significant displacement of existing commercial uses in Activity Centers, new residential development should first focus on lower value commercial or industrial sites unless a significant commercial component is included. Conversion of commercial space in existing buildings into residential space is not generally supported.

ACTIVITY CENTER

Old Town Fairfax Center

The Old Town Fairfax Center encompasses a cultural hub for the City, with a concentration of historic buildings, public services, active open space and commercial buildings. The Old Town Fairfax Center can also capitalize on its proximity to George Mason University to attract university supported businesses and arts and entertainment venues. The entirety of the Old Town Fairfax Center is within the Old Town Fairfax Historic Overlay District (HOD) or the Old Town Fairfax Transition Overlay District (TOD) and is subject to those provisions of the Zoning Ordinance and the City of Fairfax Design Guidelines.

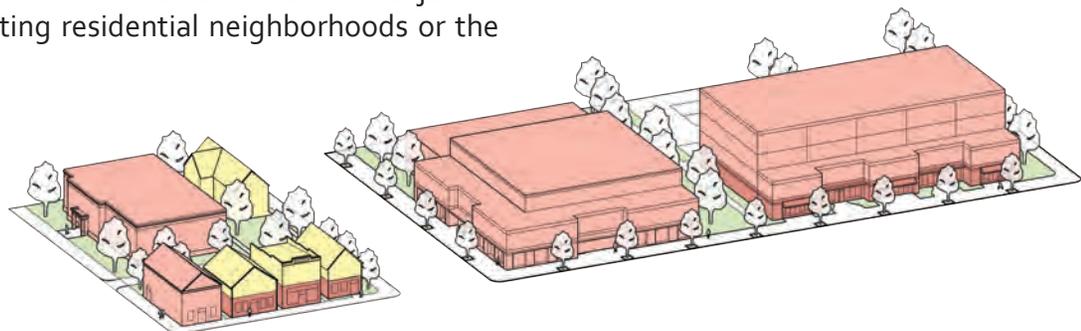
The desired character of development within the Old Town Fairfax Center varies with smaller lot sizes near the HOD and south to Armstrong Street, and larger lot sizes north to Layton Hall Drive. A Small Area Plan for the Old Town Fairfax Center should identify the most appropriate parcels for consolidation in the areas north and south of the HOD, locations for new streets, and open spaces, land uses, including designated retail concentration areas, appropriate building heights and transition areas.

Within the HOD and immediate surrounding area, smaller scale development on individual lots would contribute to the existing character

of development. New buildings are expected to cover a higher percentage of the lot with minimal unusable open space between parcels. Development should seek to continue the closure of space provided in the HOD.

While lot sizes are larger in the portion of the Activity Center south of the HOD, most lot sizes are insufficient to support a coordinated, mixed use development. Lot consolidation is encouraged in this area, particularly to transform the large amounts of surface parking along University Drive into an extension of the downtown.

The area north of the HOD is larger than the area south, with generally larger lot sizes. Lot consolidation may not be necessary to achieve coordinated mixed use development in this area. In addition, exceptions to the maximum height limit of the TOD may be appropriate in portions of this area that are not adjacent to existing residential neighborhoods or the HOD.

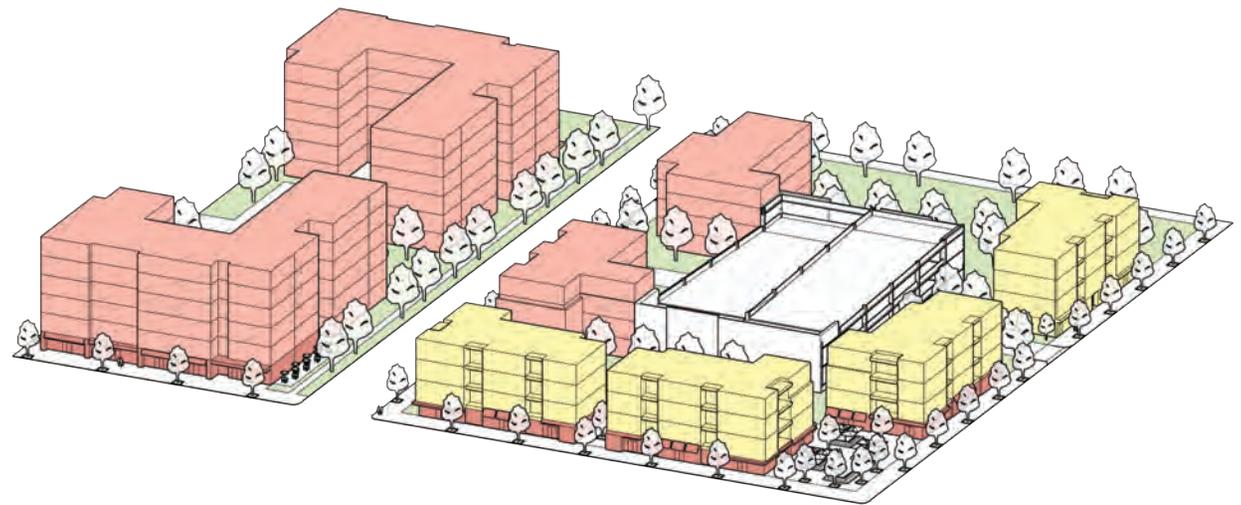


ACTIVITY CENTER

Northfax Center

The Northfax Center is considered the most appropriate location in the City to accommodate a regional mixed use destination. It's location at the intersection of Fairfax Boulevard and Chain Bridge Road, with immediate access to Interstate 66 and a potential future Metro or other mass transit station, is more accessible than any of the other Activity Centers. It is also equidistant from existing regional mixed use destinations in Merrifield and Fairfax Corner.

Unlike many suburban mixed-use destinations, which are developed by a single land owner, development of a successful mixed-use destination in Northfax is dependent on cooperation between several land owners. Lot consolidation is encouraged where feasible. A Small Area Plan for the Northfax Center should identify areas for concentrations of retail or retail streets so retail areas can be integrated between multiple development projects. Retail streets may be existing or proposed streets. A Small Area Plan should also identify locations for future streets and open spaces, opportunities for pedestrian connections across Commercial Mains, building form, including appropriate locations for more or less restrictive building heights from the Activity Center standards, and general land uses.



SOCIAL AND CIVIC NETWORK

Definition

The Social and Civic Network Place Type, identified in blue on the Future Land Use Map, includes public and private schools, libraries, places of worship, post offices and other public facilities. There are no specific corresponding Link + Place Street Types for this category because the varying types of Social and Civic Network land uses are appropriate in a variety of conditions. There is no zoning district specifically related to this Place Type. More information on the zoning districts for which uses in this Place Type are permitted or constitute a special use is provided in the Principal Use Table in the Zoning Ordinance.

Physical Characteristics

New development of or modifications to existing social and civic uses located in any Residential Neighborhoods should complement the character of the surrounding properties and provide transitional screening where necessary. Any new or modifications to existing social and civic uses located in an Activity Center should reflect the typical context of the center. New buildings should be oriented towards the existing street network and provide additional pedestrian connections to surrounding uses as recommended in the Multimodal Transportation Plan Chapter of the Comprehensive Plan.



GREEN NETWORK

Definition

The Green Network Place Type includes public spaces, such as active and passive parks, trails, playing fields, public recreation facilities, cemeteries, open space and private facilities, such as golf courses and private open space. There are currently no zoning districts specifically related to this Place Type. Green Network uses are permitted in the CR, Commercial Retail; CU, Commercial Urban; and CG, Commercial General zoning districts and constitute a special use in all of the residential zoning districts. Outdoor recreational uses, such as tennis courts and golf courses, are permitted as a special use in all of the nonresidential zoning districts except for CL, Commercial Limited.

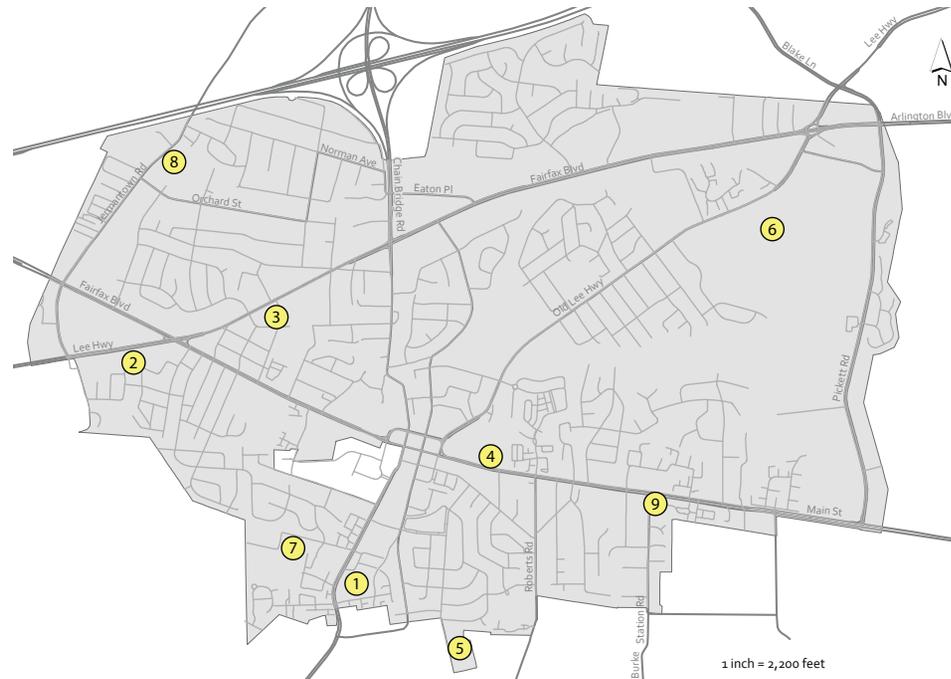
Physical Characteristics

New recreational facilities shall provide connections to the pedestrian and street network as recommended in the Multimodal Transportation Plan Chapter of the Comprehensive Plan. Proposed connections to other green spaces to complete the network should be prioritized for recreation and transportation purposes as well as ecological benefits. Properties in the network also include natural areas for conservation and protection. Parking facilities for specific recreational uses shall be integrated into the site so as not to prioritize vehicular access over pedestrian connections.



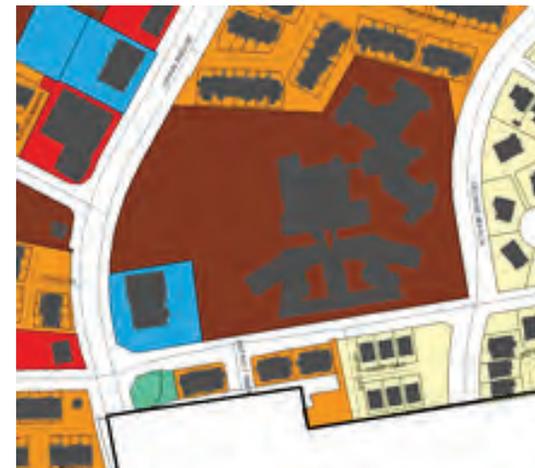
Parcel Specific Considerations

In some cases, the appropriate Place Type for a parcel or group of parcels can vary based on the specifics of the design, changes in market demand and variations in surrounding conditions. Several sites in the City have been identified for further consideration of their Place Type designation based on these factors. These sites are identified on the map to the right and described below. While alternatives may be considered, the existing Place Type designation on the Future Land Use Map is the primary recommendation for each site. This list may be expanded in future modifications of this in plan. In particular, potential alternative Place Type designations should be considered for privately owned sites with a Social/Civic Network designation.



1. Inova and Sunrise Assisted Living

The INOVA Emergency Care site, located on Chain Bridge Road, School Street and University Boulevard, encompasses 9.6 acres and is currently occupied by the INOVA Fairfax Emergency Care Center, Sunrise Assisted Living and the PACE senior medical care center. This site is likely to become available for redevelopment within the next few years. Proximity to George Mason University and Old Town make it suitable for multifamily uses. Commercial uses are appropriate along Chain Bridge Road. Any multifamily development should provide substantial buffering to abutting residential uses to the north. Building heights should be no more than three floors along the north, east and south property lines. Alternatively, townhouse uses may be considered as a transition to adjacent, lower-density residential uses.



2. Park Road Properties

Four properties located along Park Road, totaling 0.89 acres, are located within the Westmore Neighborhood, but are commercially zoned. Two of the parcels contain a commercial building. The other two parcels contain single family residential buildings, though one is occupied by a commercial business. Given the location of these lots and their dependence on access from within the neighborhood, alternative uses may be more appropriate than commercial zoning designation.

Single family attached residential uses provide a logical transition between the single family detached neighborhood to the south and commercial uses to the north. Single family detached residential uses may also be appropriate. Commercial uses may be appropriate if the properties are consolidated with commercial properties to the north so vehicular access is not dependent on Park Road.

3. Oak Street Properties

Five parcels (059 through 063 on the attached map) located along the west side of Oak Street, between Fairfax Boulevard and Cedar Avenue are designated as Single Family Attached and Single Family Detached though they are surrounded by higher intensity uses, including the potential Fairfax Garden's redevelopment to the west and commercial uses to the north and east. While the Place Type designation supports the current uses, these properties may be appropriate for a Multifamily Neighborhood Place Type designation if they are all included in a parcel consolidation. Alternatively, parcel 063 may be appropriate for a Commercial Corridor designation if it is consolidated with properties with that Place Type designation to the north.

4. Farr House

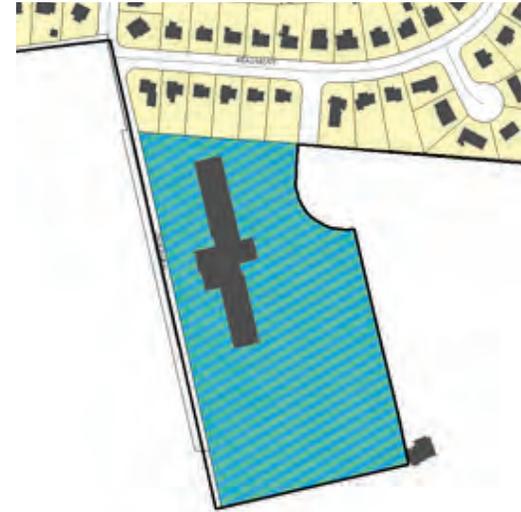
This 9.4 acre property located along Main Street between Farrcroft and Main Street Marketplace is privately owned and the location of the "Farr Homeplace" also known as "Five Chimneys". There is resource protection area in the rear of the property. The property has been identified for its historic relevance, although no historic designation exists on the property. Any development on this property should retain the existing house and minimize disturbance in the Resource Protection Area. The property should be considered for inclusion within a Historic Overlay District. An alternate use may include Single-Family Attached Neighborhood.



5. Green Acres

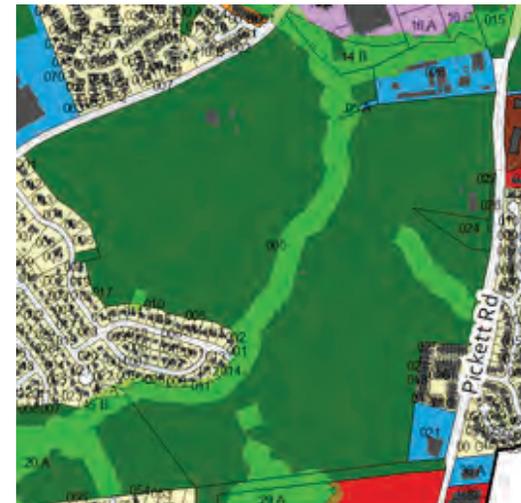
The Green Acres site encompasses 10 acres of land surrounded by George Mason University with one street leading to it through a residential neighborhood. The 2016 Green Acres Feasibility Study found that it is not best suited for the community center use it currently serves and recommended a new community center be constructed elsewhere in the City. The study proposed three alternatives for the future use of the Green Acres site; retaining the entire site for future community uses, selling the entire site, or retaining a portion of the site for community use and selling a portion of the site. The study does not recommend specific uses.

The City School Board reserves the right to retain the site for construction for a future school if necessitated by enrollment demands. This is governed through a covenant on the property. For this reason, the Social and Civic Network Place Type designation should remain. If this covenant is transferred to another property in the City, it would no longer be needed at Green Acres, and the site would become available to other uses.



6. Army Navy Country Club

Covering approximately 234 acres, the Army-Navy Country Club is the largest individual property in the City and the largest area of open space. While there are no known plans for the County Club to vacate or for the property to be developed and this plan supports continued use of the property for open space, priorities for the future of the site should be considered. Given the wide array of potential implications development of this site could have on the various Guiding Principles for the City, an advisory committee should be formed to conduct a comprehensive analysis and provide recommendations on key priorities if development does occur.



Fairfax County Property Yards

Fairfax County currently owns and manages three property yards within the City, located on West Drive, Main Street and Jermantown Road. The County may consider some of these locations for closure in order to provide more efficient services from a consolidated, centralized location. The City is in discussions with Fairfax County to pursue a first right of refusal agreement should the County choose to vacate any of these locations and dispose of the properties. The Parks and Recreation Strategic Plan includes a recommendation to reclaim the property yards for open space. The Mayor's Housing Committee report also identifies these properties as target locations for potential affordable housing partnerships between the City and non-profit entities.

7. West Drive

The two properties that make up the West Drive property yard site encompass 4.2 acres and present a logical extension of the adjacent Providence Park. Their inclusion in the park area would also make Providence Park large enough to host a potential future elementary school in place of the Green Acres site, should that site be desired for other uses. If the City does not acquire this site, it is most suitable for residential development, including single family detached, single family attached or multifamily units. Residential development should provide logical transitions to adjacent uses, particularly along the eastern property line where it abuts existing single family uses.



8. Main Street

This 2.45 acre parcel is bound on two sides by roads, Main Street and Burke Station Road. One potential reuse if the County chooses to relocate from this site would be a relocation of some of the City's public works services currently located at the Property Yard on Pickett that has flooding issues and diminishing space. The Parks and Recreation Strategic Plan also specifically recommends identification of new potential park sites in the southeast portion of the City. While this site is relatively small, open space uses would provide an amenity in a portion of the City that is deficient. With direct access to transit service and proximity to commercial uses, this site is also an appropriate candidate for an affordable housing partnership. Any multifamily housing development on the site should provide logical transitions to adjacent single family residential uses in the form of lower building heights and substantial setbacks. If the City does not purchase this property, appropriate uses include single family detached, single family attached or commercial corridor.



9. Jermantown Road

If this 1.4 acre property discontinues its function as a property yard and the City does not acquire it, single family detached residential uses are an appropriate use, consistent with surrounding uses. If the City does acquire this site, it is appropriate for open space uses and its adjacency to transit service makes it a candidate site for a potential affordable housing partnership.



Neighborhoods

Neighborhoods – the places where we live, learn, play, and increasingly work – constitute the largest geographical use of land in the City, though physical boundaries are not the only defining character trait of a neighborhood. Numerous characteristics may define neighborhoods, including the period of building and development (Figure 10), subdivision patterns, architectural style, location of public amenities and services, and presence of social or civic organizations. The City’s neighborhoods each have their own unique character and offer a variety of housing and lifestyle opportunities.

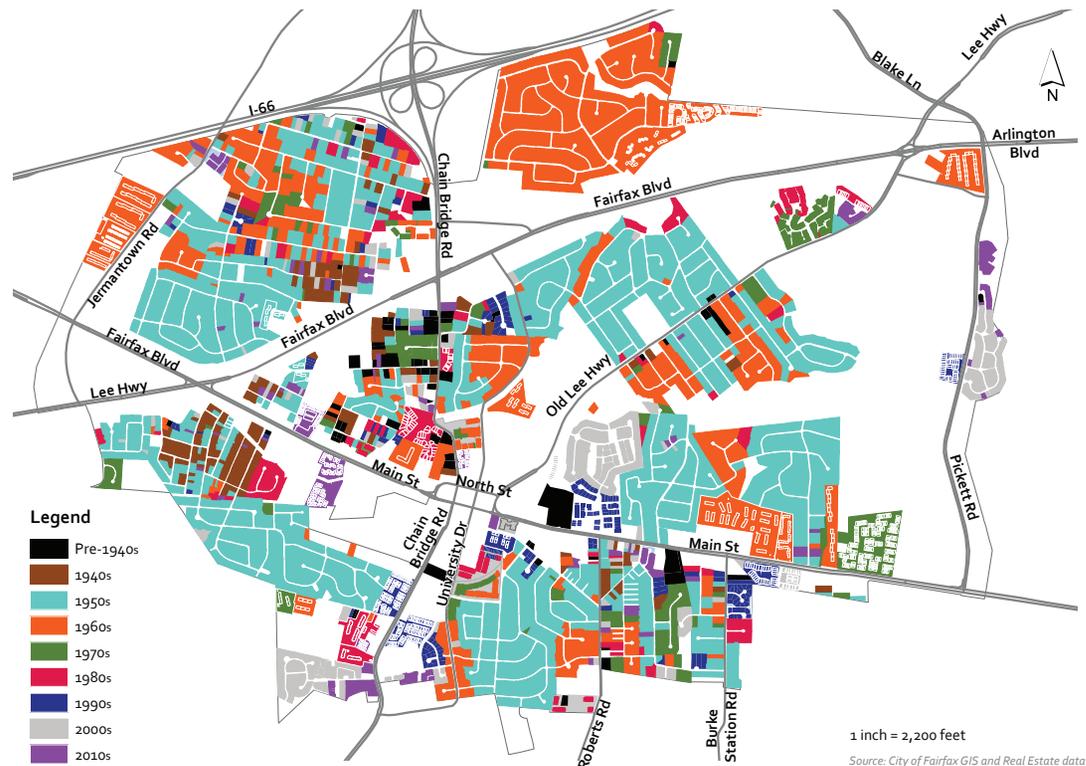
Neighborhoods are supported by a separate Guiding Principle in this Plan due to their direct impact on residents. City growth and development policies must both preserve the quality of neighborhoods and protect neighborhoods from adverse consequences of growth. However, this should not imply that Fairfax’s neighborhoods should remain static. Well-designed and properly scaled infill can be an appropriate strategy to foster walkability, better amenities and housing affordability. This section’s goals strive to balance these concerns and take advantage of opportunities through improved policies and regulations, and increased communication with and within the community.

Guiding Principle:

In 2035, Fairfax is a city with...
inviting neighborhoods, each
with its own unique character.



FIGURE 10 HOUSING AGE BY DECADE BUILT



Neighborhoods

Goal 1

Preserve neighborhood character.

There is relatively little undeveloped land available in the City for new single-family housing. As the City's housing stock ages, replacements for, or additions to existing structures will be the prevalent methods of updating housing to meet current market demands. The City should use this as an opportunity to preserve and enhance the character and inclusiveness of the City's neighborhoods. Any modification or new construction on lots located in established neighborhoods should be compatible with the character of that neighborhood. In order to encourage reinvestment in neighborhoods, the City and civic associations should educate residents about programs available to them (such as Fairfax Renaissance Housing Corporation loans) and the processes involved in updating their homes.

OUTCOME N1.1: Infill housing that complements the character of surrounding homes in existing neighborhoods.

ACTION N1.1.1 Maintain regulatory standards to ensure infill housing fits in with the surrounding neighborhood context in terms of height and scale.

OUTCOME N1.2: Residents have regular communication and positive interactions with other members of their neighborhood as well as the larger City of Fairfax community.

ACTION N1.2.1 Encourage and support community engagement through homeowner, condominium and civic associations.

ACTION N1.2.2 Establish regular communication with homeowner, condominium and civic associations as a means to keep individual citizens informed of City business.

Neighborhoods

Goal 2

Provide neighborhood pedestrian connections.

Walkability was frequently cited as a desired attribute of the City during the Comprehensive Plan’s public outreach process. Ensuring our neighborhoods are designed to both encourage pedestrian activity and to provide various transportation alternatives for trips to local destinations by providing pedestrian and bicycle connections to commercial corridors, local activity centers, parks, schools and other local destinations, will enable people of all abilities to get around the City efficiently and reduce traffic congestion. Improving walkability is not just about adding more sidewalks and trails, but also looking at destinations residents want to walk to, such as parks, schools or retail – and identifying the condition of the transportation network that can get them there. The strength of a network to get someone from point A to point B is only as good as its weakest link.

OUTCOME N2.1: Residents of all abilities safely and easily move about the community.

ACTION N2.1.1 Identify opportunities for future open space and trails in neighborhoods that are currently deficient in offering these amenities.

ACTION N2.1.2 Expand existing network to increase connectivity.

ACTION N2.1.3 Improve connectivity in identified neighborhoods.

ACTION N2.1.4 Target and coordinate public infrastructure improvements with desired infill, reinvestment and redevelopment areas to encourage and stimulate private development.

Commercial Corridors & Activity Centers

Fairfax's success in achieving the community's vision for future development hinges upon effective growth strategies for the City's areas of highest redevelopment potential. These areas will accommodate the majority of new commercial activity, high-intensity residential neighborhoods, and transportation improvements. Success in achieving this vision will be measured not by the magnitude of new investment, but rather by the attributes that can transform a disjointed pattern of development into an attractive and welcoming environment. If the City's commercial corridors and activity centers can be transformed into areas with attractive physical characteristics and a mix of uses, then the City will realize a major aspect of its goal to be a vibrant, livable 21st century community.

While higher intensity mixed use redevelopment of older commercial properties can provide economic and social benefits to the community, these benefits would be most realized if concentrated in key areas to allow new

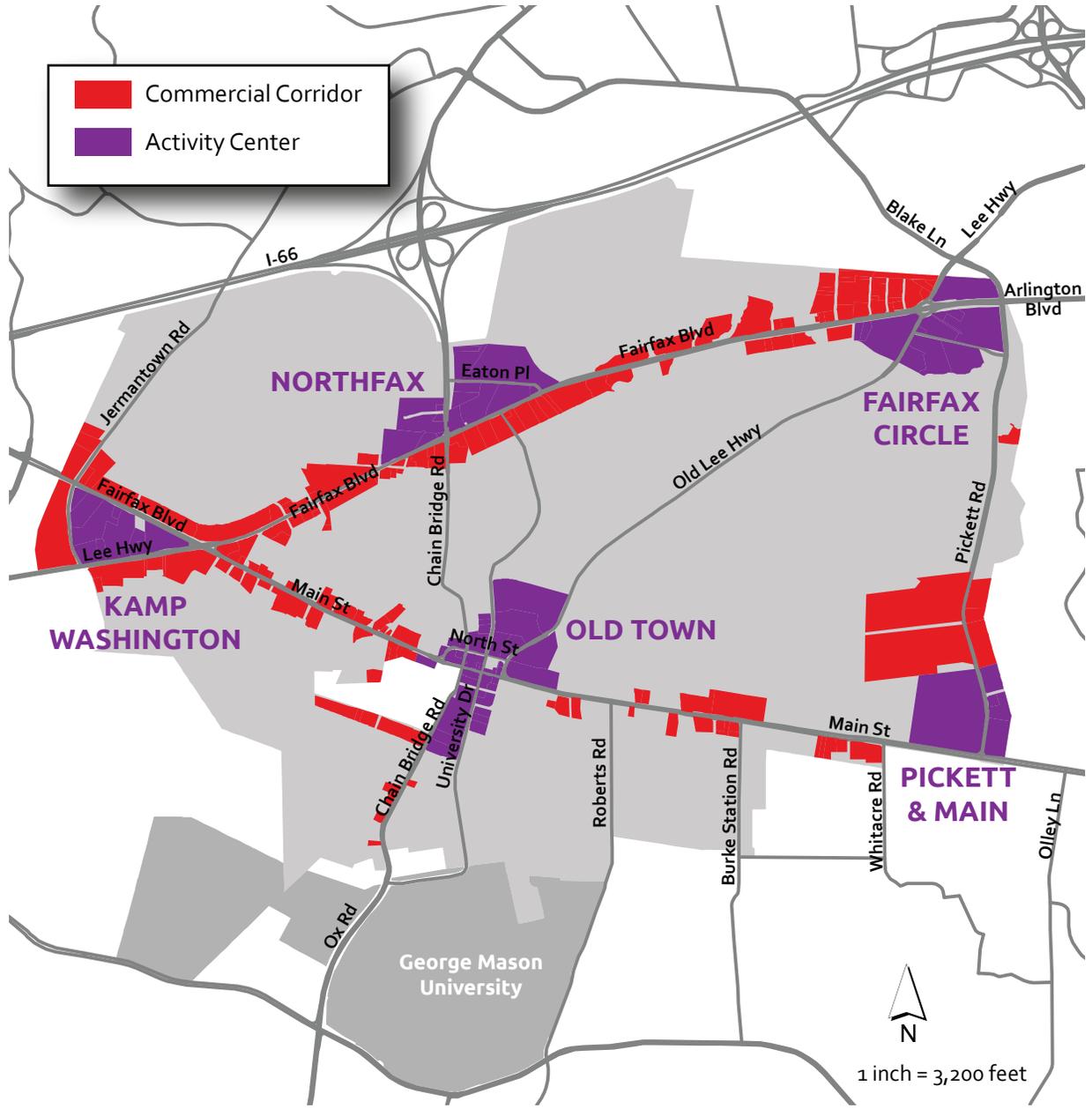
Guiding Principle:

In 2035, Fairfax is a city with... flourishing centers of commercial and mixed-use activity that include an assortment of grocery stores, restaurants, cafes, entertainment venues, retail stores, offices and housing.

developments to complement each other, avoid oversaturating the market and minimize impacts to existing neighborhoods. These types of uses are primarily envisioned in Activity Centers, as indicated on the Future Land Use Map. While a mix of uses and connected street grids are envisioned in all Activity Centers, such development is always encouraged in the Old Town Fairfax and Northfax Activity Centers. More specific guidance is provided for these two areas in the Activity Center Place Type and through the goals of this Guiding Principle.



FIGURE 11 ACTIVITY CENTERS AND COMMERCIAL CORRIDORS



While reinvestment and redevelopment of properties in Commercial Corridors is encouraged, incorporation of residential mixed uses is not generally recommended. Stronger pedestrian orientation and improved aesthetics are encouraged in Commercial Corridors through the physical attributes of the Place Type and recommendations of the City of Fairfax Design Guidelines.

Commercial Corridors and Activity Centers

Goal 1

Enhance commercial corridors.

Many commercial properties in the City are underutilized with an overabundance of surface parking. These properties are often suitable for redevelopment, whether to achieve greater use of the land or to make the properties more market competitive. New development and redevelopment must enhance commercial activities along the City's major corridors with a mix of retail, office and service offerings in an attractive and welcoming setting. Recently approved projects indicate that there is demand for additional investment in many of these properties.

OUTCOME CCAC1.1.: Commercial corridors with attractive physical characteristics that provide shopping, dining, services and other businesses.

ACTION CCAC1.1.1 Encourage commercial redevelopment that offers amenities and atmosphere to attract top-tier commercial tenants.

ACTION CCAC1.1.2 Identify underperforming properties (i.e., buildings assessed at considerably less than the total property value) and, working with the City's Economic Development Authority, encourage redevelopment.

ACTION CCAC1.1.3 Encourage creativity and architectural excellence in new commercial developments.

ACTION CCAC1.1.4 Develop urban design concept diagrams for small block and multi-block areas along the city's commercial corridors, outside the local activity centers.

ACTION CCAC1.1.5 Encourage tree-lined and heavily landscaped property edges, particularly where surface parking is adjacent to the public rights-of-way.

ACTION CCAC1.1.6 Provide pedestrian and bicycle connections to nearby neighborhoods.

OUTCOME CCAC1.2.: Tenants representing diverse business sectors that meet current and emerging trends in neighborhood-serving retail, service and other business demands.

ACTION CCAC1.2.1 Strengthen existing retail businesses and expand choices to capture retail spending by residents.

ACTION CCAC1.2.2 Create a marketing plan to generate excitement about the current retail and service offerings.

Commercial Corridors and Activity Centers

Goal 2

Promote redevelopment in the City's activity centers.

While actions throughout the City will contribute to fulfill the community's vision for Fairfax's future, those pertaining to land use planning in these specific areas carry an outsized importance. The City will promote redevelopment in activity centers to strengthen economic vitality, provide commercial, office and residential opportunities for sustained demand and reinforce the City's regional appeal. Given the potential scope of redevelopment opportunities, new construction in these areas to accommodate various types of housing units and commercial tenants could accomplish many of the goals set forth elsewhere in this Plan's Land Use Chapter.

OUTCOME CCAC2.1.: Old Town Fairfax, including an expanded downtown area to its north and south, is a lively, economically viable, walkable, cultural hub for the City.

ACTION CCAC2.1.1 Capitalize on the authenticity and appeal of Old Town as an historic place and shopping, dining and tourist destination.

ACTION CCAC2.1.2 Attract and retain businesses along Main Street and market it as a primary retail street for Old Town.

ACTION CCAC2.1.3 Maximize the use of publicly-owned properties to contribute to the economic and cultural vibrancy of Old Town.

ACTION CCAC2.1.4 Encourage redevelopment of privately-owned, underutilized sites north and south of Old Town, such as Courthouse Plaza shopping center and the area west of University Drive between Sager Avenue and Armstrong Street, as mixed-use developments.

ACTION CCAC2.1.5 Market the connection to Old Town from George Mason University and emphasize Old Town as a desirable place for students and faculty to shop, dine and live.

OUTCOME CCAC2.2.: A pedestrian oriented, mixed use destination at Northfax that capitalizes on its location to successfully compete with other regional centers.

ACTION CCAC2.2.1 Pursue feasibility of public/private partnership to develop parking structures in activity centers.

ACTION CCAC2.2.2 Consistently articulate expectations for unified developments and support measures that facilitate property consolidation.

ACTION CCAC2.2.3 Encourage the redevelopment of Northfax as a major commercial center and transit oriented development that capitalizes on a potential future Metrorail station along I-66.

Commercial Corridors and Activity Centers

Goal 2

OUTCOME CCAC2.3.: Old Town, Northfax and the other activity centers are well-designed and desirable places to live, work, shop and dine.

ACTION CCAC2.3.1 Encourage structured parking and minimize surface parking, particularly adjacent to public rights-of-way.

ACTION CCAC2.3.2 Promote the orientation of buildings facing toward streets with architecture that engages street-level activity.

ACTION CCAC2.3.3 Encourage streetscapes that promote enclosure through building setbacks, pedestrian amenities, street furniture, on-street parking, and landscaping.

ACTION CCAC2.3.4 Support land planning that balances connectivity for pedestrians, bicyclists and motorists.

ACTION CCAC2.3.5 Prepare individual Small Area Comprehensive Plans, as defined in Section 15.2-2303.4 of the Code of Virginia, for each of the activity centers that clearly demonstrate the desired mix of uses, residential density, building intensity, design aesthetic, specific street locations and multimodal connections, infrastructure improvements, parking and open space.

Housing

In order to function equitably and inclusively, the City of Fairfax must prioritize the availability of housing units for people of widely varying income levels, ages and circumstances. While the City has great variety among its approximately 9,000 housing units, several types or characteristics of housing are underrepresented among the current housing mix. This includes housing that is affordable, housing that is designed for older adults, and other types of in-demand housing units. In-demand housing consistently changes based on market trends. While the City is primarily built out, a variety of new housing types can be accommodated on a relatively limited basis to reflect market demands.

Particular attention should be paid to housing that is affordable, which has emerged in the planning process as a priority among many residents. Proactive strategies would ensure that existing housing units that are affordable are preserved and that new units that are affordable are added to the City's overall

Guiding Principle:

In 2035, Fairfax is a city with... a choice of housing types that meet the needs of our community at all stages of life.

housing unit mix. In addition to housing that is affordable, housing that is designed for older adults – and specifically housing that is affordable and appropriate for older adults – should likewise be prioritized in the City's housing strategies due to the City's relatively high proportion of older adults and the current lack of dedicated housing for older adults.

Prioritizing additional housing units in underrepresented market segments, and improving the functionality of existing housing units and accommodating in-demand housing types – would help to ensure that the City is as welcoming as possible to current and potential residents, regardless of socioeconomic status or age.



Housing Goal 1

Housing types that are not heavily represented in the current housing inventory are supported in order to provide a greater variety of housing options for residents.

Figure 12 compares the mix of housing unit types in the City with select areas of Fairfax County. While there is no ideal mix of housing types, this illustrates some of the unit types that may be underrepresented in the current housing mix. For example, the City of Fairfax has a lower ratio of townhomes compared to many surrounding communities in Fairfax County. Aside from the type of units, consideration should be given to the age and quality of each unit type. While the City has a relatively high share of multifamily housing, the vast majority of that inventory was built in the 1960s, and there is considerable demand for more modern multifamily rentals and condominiums, as well as other residential housing types such as higher-end “move-up” single-family homes.

OUTCOME H1.1: Continued development of housing types which are underrepresented in the City’s existing stock of housing units.

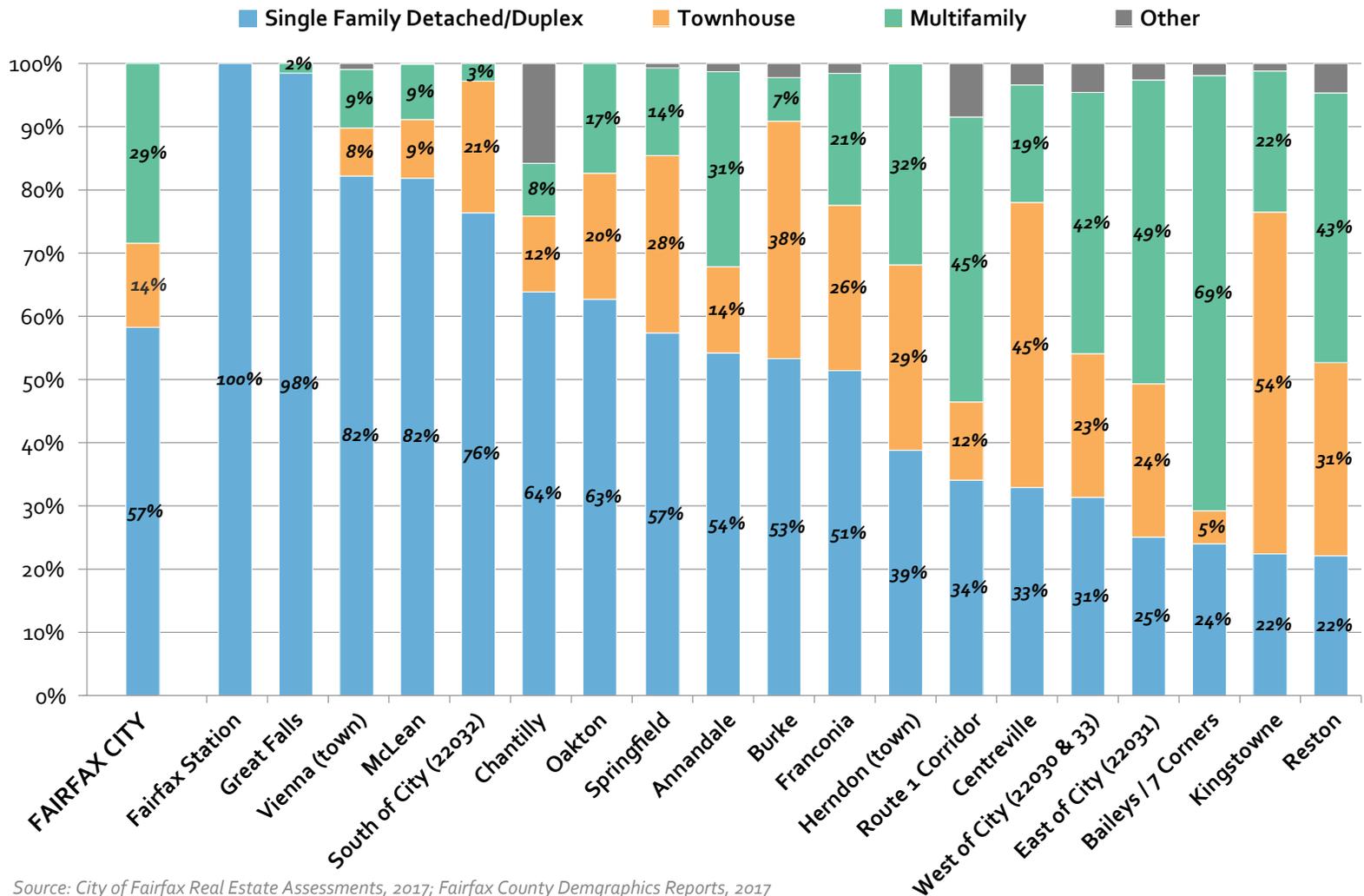
ACTION H1.1.1 Create a housing policy that can best provide for the types of housing units that are most in demand.

ACTION H1.1.2 Support development of new higher-end townhouses and single-family detached housing units.

OUTCOME H1.2: Expansion of housing opportunities that increase supply while maintaining existing neighborhood character.

ACTION H1.2.1 Research changes to the zoning regulations to expand opportunities for accessory dwelling units, while ensuring they do not negatively impact the surrounding neighborhood.

FIGURE 12 HOUSING UNITS BY TYPE



Source: City of Fairfax Real Estate Assessments, 2017; Fairfax County Demographics Reports, 2017

Housing Goal 2

Ensure the availability of housing units that are affordable for individuals and families below the region’s median household income.

The Comprehensive Plan seeks to guide future housing development through recommendations based on the community input. During the Plan’s outreach process, affordable housing was one of the issues that rose to the forefront of the housing discussion. In addition, Code of Virginia Section 15.2-2223 states that the Comprehensive Plan “shall include the designation of areas and implementation of measures for the construction, rehabilitation and maintenance of affordable housing, which is sufficient to meet the current and future needs of residents of all levels of income in the locality.” There are a number of tools available to encourage the establishment of new affordable residential units as well as to preserve existing “naturally occurring affordable housing.”

OUTCOME H2.1: Affordable housing units have been added to the City’s housing stock through redevelopment and strategic investments.

ACTION H2.1.1 Leverage the affordable housing trust fund.

ACTION H2.1.2 Provide regulatory and financial incentives to increase the supply of affordable housing units at 80% of the area median income (AMI).

OUTCOME H2.2: Preservation of and reinvestment in the City’s existing supply of affordable multifamily rental housing units.

ACTION H2.2.1 Facilitate partnerships between existing property owners and nonprofit organizations that manage dedicated affordable housing properties to preserve and ensure long-term affordability of existing multifamily complexes.

ACTION H2.2.1 Support the use of the Low Income Housing Tax Credits and other funding sources available to reinvest in and upgrade existing multifamily complexes.

Housing Goal 3

Support changes to the City's Zoning Ordinance that will advance the integration of housing at all price points for people of all ages.

Amending the Zoning Ordinance to accommodate and encourage affordable housing units can greatly influence the amount of such housing that can be provided in the future. Based on the restrictions of the State Code, an Affordable Dwelling Unit ordinance is the most appropriate measure to encourage inclusion of dedicated affordable units with new construction. Physical standards of the Zoning Ordinance should also be reviewed to ensure they do not interfere with physical accessibility measures.

OUTCOME H3.1: Newly-built housing units that are suitable in terms of both affordability and accessibility to a full range of residents of varying economic and physical ability levels.

ACTION H3.1.1 Consider a contractual partnership with the Fairfax County Department of Housing and Community Development to administer elements of a housing affordability program for the City of Fairfax.

ACTION H3.1.2 Amend the City's Zoning Ordinance to include an Affordable Dwelling Unit ordinance.

ACTION H3.1.3 Review provisions within the City's Zoning Ordinance to identify and amend provisions that impede the ability to construct or modify housing containing minimal physical barriers for residents.

Housing Goal 4

Support the City's Housing Affordability Trust Fund.

Achieving greater housing choices will require a dedicated effort to leverage the City's resources in order to produce the desired result. Several actions that are within the City's control – such as amending the Zoning Ordinance to accommodate housing that is affordable, and optimally leveraging an Affordable Housing Trust Fund – can greatly influence the amount of such desired housing that can be provided in the future, and these actions hold the key to successfully implementing many of the goals detailed in this chapter.

OUTCOME H4.1: A Housing Affordability Trust Fund that supports ongoing efforts to increase and maintain the City's stock of housing that is affordable.

ACTION H4.1.1 Consider funding the Housing Affordability Trust Fund through an additional assessment of one-half penny (per \$100 of assessed value) on the City's real estate tax rate.

Housing Goal 5

Provide seniors with housing options in the City that are suitable for a range of senior living choices, such as aging in place, dedicated senior housing or assisted living/nursing care.

In addition to affordable housing, as described above, housing that is designed for older residents was another issue that rose to the forefront of the housing discussion during the Comprehensive Plan’s initial public outreach sessions. Given the relatively high concentration of older adults in the City, demand for such units from existing City residents could be strong.

OUTCOME H5.1: A range of accessible housing types are available for senior residents that incorporate the concept of universal design with appropriate levels of support and care.

ACTION H5.1.1 Express preferences regarding housing units that are appropriate and/or in demand for seniors and those with disabilities.

ACTION H5.1.2 Utilize the affordable housing trust fund to assist with aging in place with income threshold.

ACTION H5.1.3 Encourage development of congregate living facilities where appropriate.

Housing Goal 6

Support residential improvements of existing homes.

Home renovations and expansions allow existing housing units in the City to keep up with modern expectations including characteristics such as floor area, layout, technological amenities and sustainable infrastructure. The Fairfax Renaissance Housing Corporation has assisted in such housing improvement projects throughout the City since 2000. In addition, the City has engaged in other programs, such as Solarize NOVA, to encourage residents to consider sustainable elements in home renovations.

OUTCOME H6.1: A greater number of renovated housing units.

ACTION H6.1.1 Continue to encourage homeowners to undertake residential reinvestment projects that can collectively modernize the City's housing stock.

ACTION H6.1.2 Encourage energy efficiency retrofits that reduce water use and home heating and cooling costs.

ACTION H6.1.3 Continue to enforce compliance with building and property maintenance codes to prevent deteriorated, unsafe and unhealthy housing conditions.

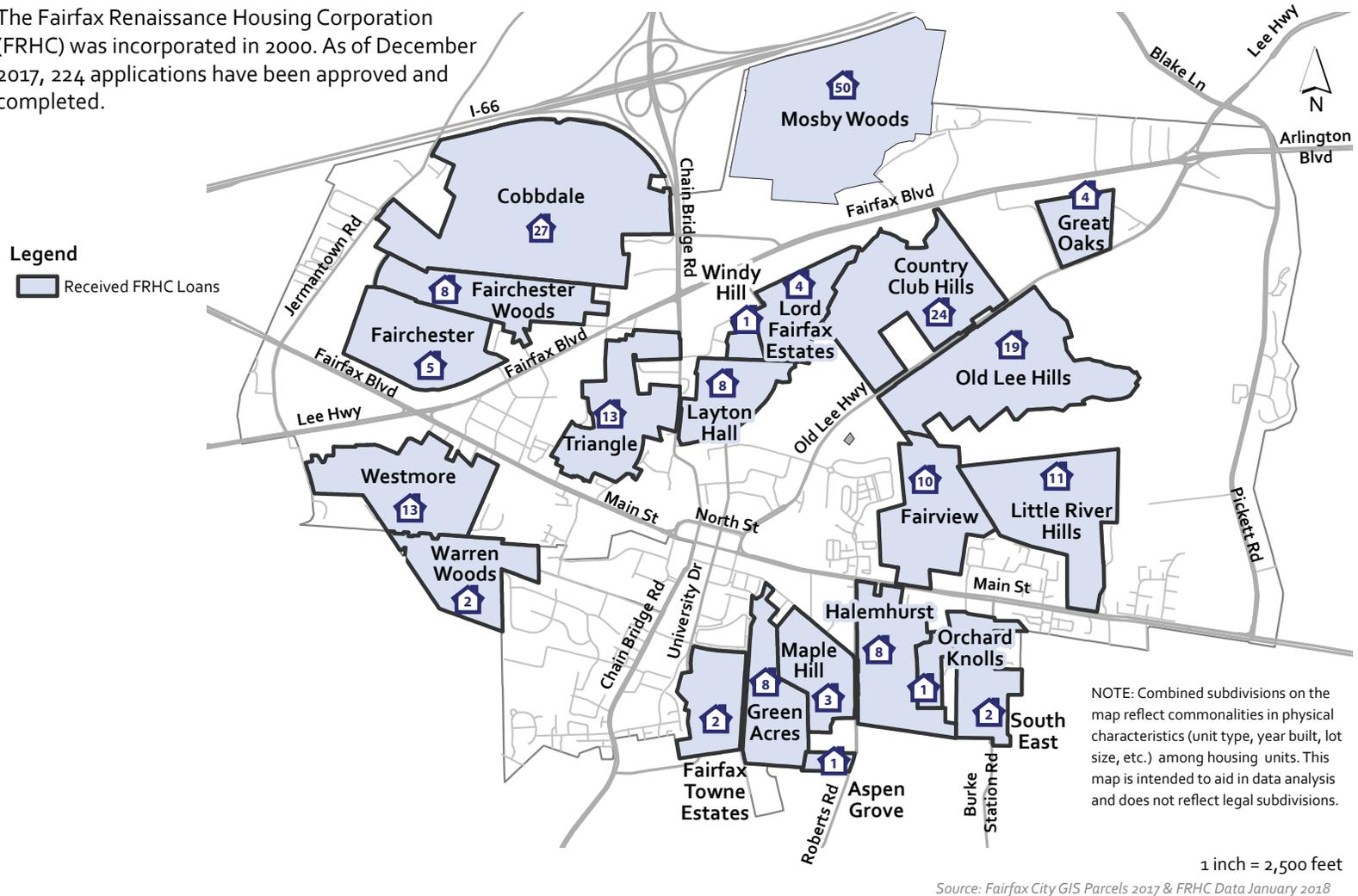
OUTCOME H6.2: Expanded City sponsored residential improvement programs.

ACTION H6.2.1 Work with Fairfax Renaissance Housing Corporation (FRHC) to provide a longer interest-free period for homeowners demonstrating financial need.

ACTION H6.2.2 Expand flexibility of FRHC program to encourage greater participation by homeowners of duplexes.

FIGURE 13 RESIDENTIAL IMPROVEMENT PROJECTS WITH FAIRFAX RENAISSANCE HOUSING CORPORATION (FRHC) LOANS

The Fairfax Renaissance Housing Corporation (FRHC) was incorporated in 2000. As of December 2017, 224 applications have been approved and completed.



Housing Performance Metrics

GOAL	METRIC	TARGET	CURRENT BENCHMARK (DATA SOURCE)
SUPPORT DIVERSITY OF HOUSING CHOICES.	Ratio of housing units by type		53.8 % Detached 17.5% Townhouse/ Duplex 28.7% Multifamily (Real Estate Assesments)
ENSURE AFFORDABLE HOUSING AVAILABILITY.	Total number of housing units affordable to households with incomes at 80% of the area median income (AMI)	Increase	(Census)
INTEGRATION OF HOUSING AT ALL PRICE POINTS FOR PEOPLE OF ALL AGES.	Number of new housing units by type and assessed value	Increase	(Real Estate Assesments)
SUPPORT THE CITY'S HOUSING AFFORDABILITY TRUST FUND.	Total number of housing units affordable to households with incomes at 80% of the area median income (AMI)	Increase	(Census)
SUPPORT RESIDENTIAL IMPROVEMENTS OF EXISTING HOMES.	Number of loans approved by FRHC by neighborhood	Increase	224 (FRHC data 2000 - 2017)

Community Design & Historic Preservation

An attractive, well-designed City instills civic pride; improves the visual character of the community; creates a strong, positive image and attracts quality developments. Community Design relates not just to what buildings look like, but to the spaces between buildings, as well as to the street and public realm. While accommodating new growth and change, consideration must be given to preserving significant elements of the community that contribute to the City's unique character.

The intent of the Community Design and Historic Preservation Guiding Principle is to capitalize on unique features of the City in a manner reflecting the community's values and its connection to the history and traditions that distinguish it from other communities in the region. This can be accomplished through review and adjustment of planning, regulatory and incentive tools, and by improving

Guiding Principle:

In 2035, Fairfax is a city with... architecture that contributes to a vibrant, creative place and complements our historic character.



coordination among stakeholders who impact the future development of the City, without unreasonably burdening the review process.

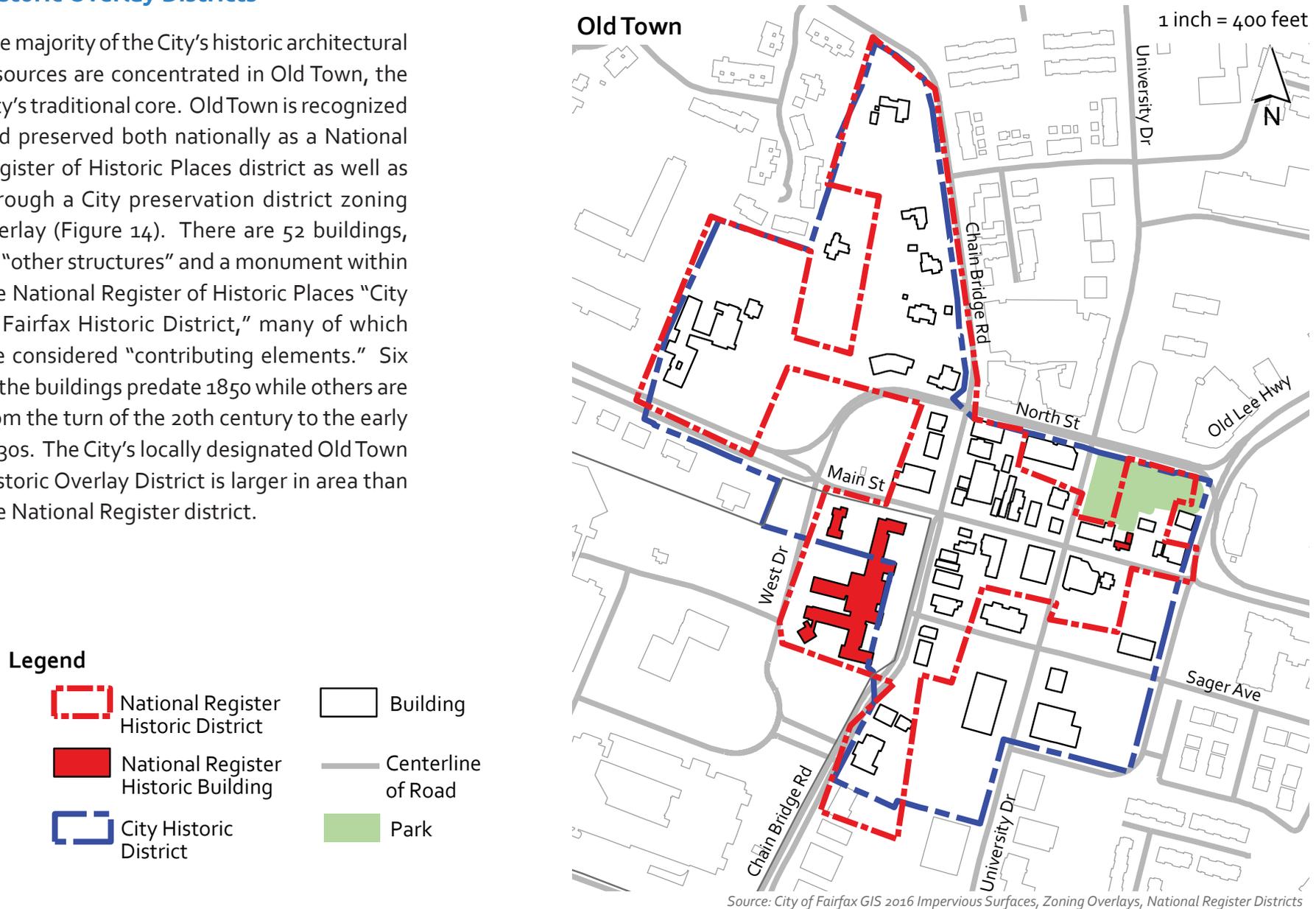
The primary resource on design elements for new construction, expansions and renovations is the City of Fairfax Design Guidelines. Separate design characteristics are described in the guidelines for the Old Town Fairfax Historic Overlay District, the Old Town Fairfax Transition Overlay District (as further described on the following pages)

and the Architectural Control Overlay District (which encompasses all properties within the City except for single-family residential properties and those properties located within one of the other overlay districts). The Board of Architectural Review, along with City staff, reviews development applications to determine if proposals meet the intent of the design guidelines.

Historic Overlay Districts

The majority of the City’s historic architectural resources are concentrated in Old Town, the City’s traditional core. Old Town is recognized and preserved both nationally as a National Register of Historic Places district as well as through a City preservation district zoning overlay (Figure 14). There are 52 buildings, 10 “other structures” and a monument within the National Register of Historic Places “City of Fairfax Historic District,” many of which are considered “contributing elements.” Six of the buildings predate 1850 while others are from the turn of the 20th century to the early 1930s. The City’s locally designated Old Town Historic Overlay District is larger in area than the National Register district.

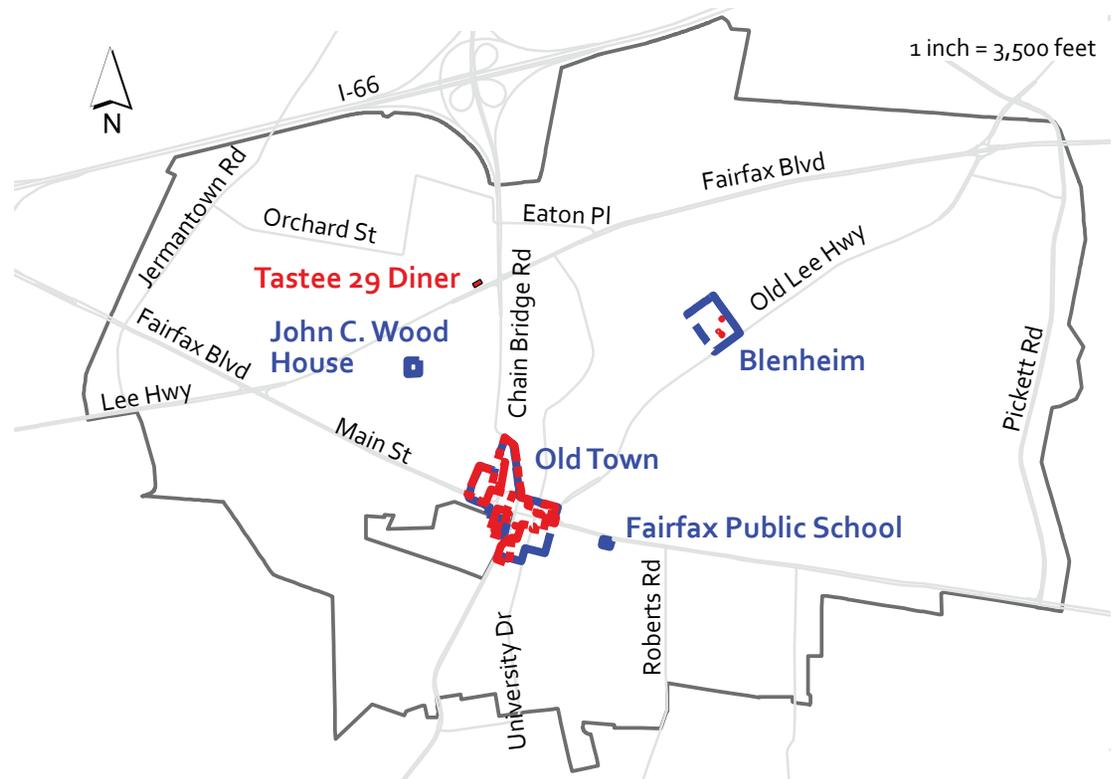
FIGURE 14 HISTORIC DISTRICTS AND BUILDINGS



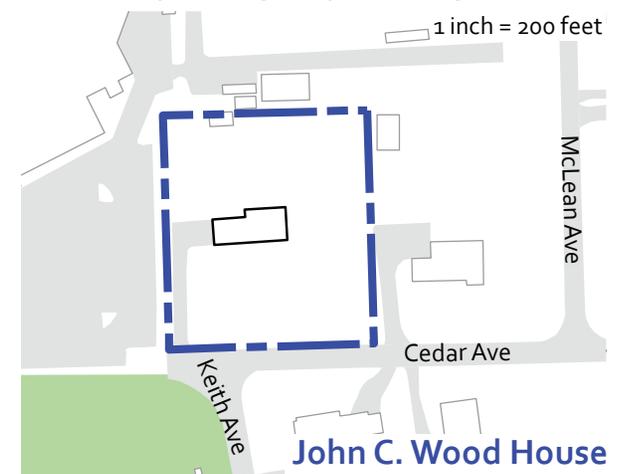
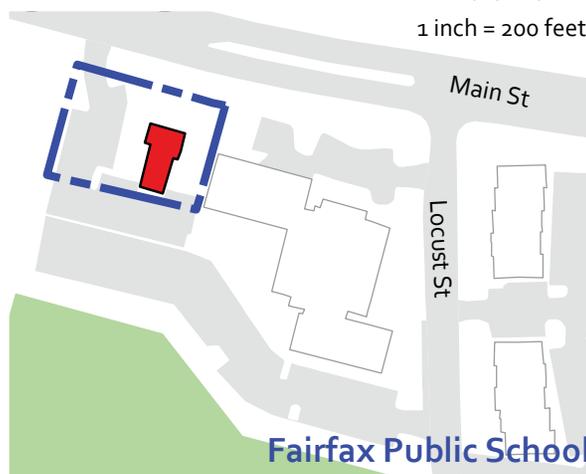
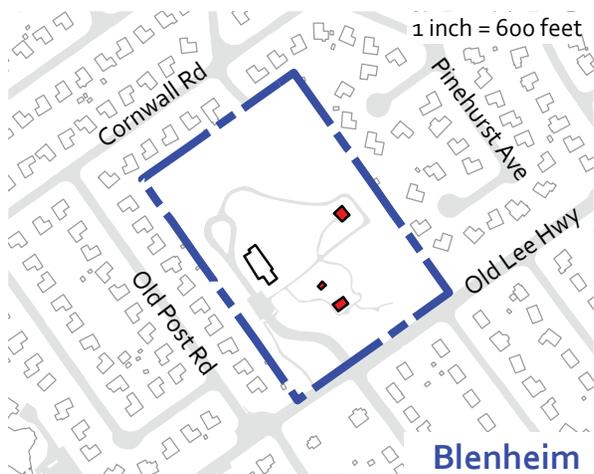
In addition to Old Town, the City has historic zoning overlay districts for three other properties, the Fairfax Public School, Blenheim and the John C. Wood House (Figure 15).

Additionally, there are many properties and structures with historic characteristics that have not been designated at the local, state or national levels. Over 4,800 structures in the City are 50 years of age or older, one of the criteria to determine eligibility of historic designation. The significance of a given property or structure to architectural history, landscape history, events or activities in the past, or to lives of important people, are other criteria for preservation. Remaining large estates such as the Farr House and the Sisson House may also be considered for preservation, as well as landforms such the Manassas Gap Railroad Bed.

FIGURE 15 HISTORIC DISTRICTS AND BUILDINGS



Source: City of Fairfax GIS 2016 Impervious Surfaces, Zoning Overlays, National Register Districts

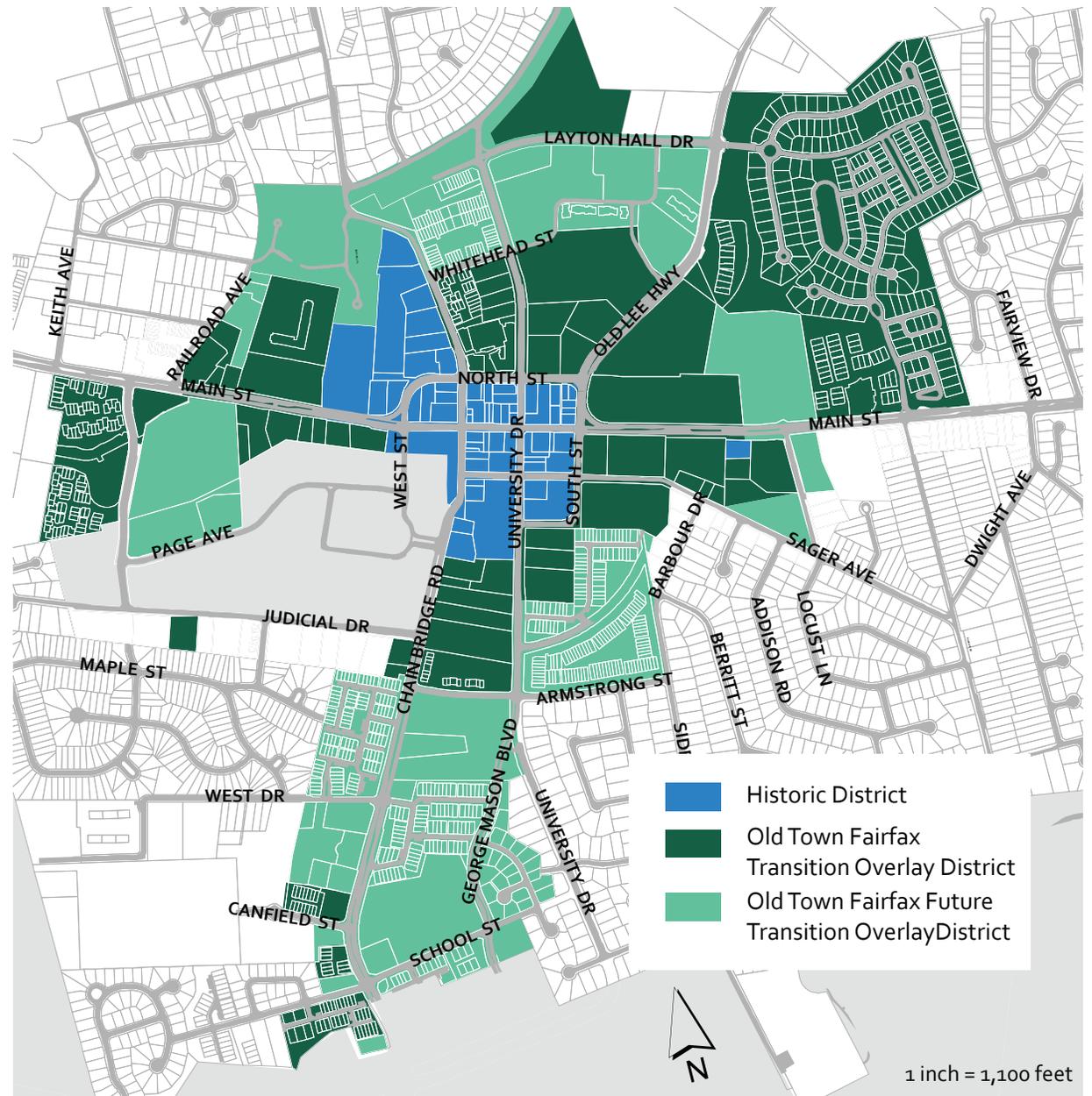


Old Town Fairfax Transition Overlay District (Transition District)

The Transition District is established in areas surrounding Old Town Fairfax as a means to ensure the character of those areas complements that of the historic districts. This is accomplished through regulations in the Zoning Ordinance limiting the height of new construction, encouraging buildings to be oriented toward the street and requiring more extensive streetscape improvements than the base standards. The current extent of the Transition District and potential Future Transition Overlay District are provided in Figure 16.

Properties located in the potential Future Transition Overlay District may be added to the Transition District either upon application from the property owner (typically in conjunction with an individual property rezoning) or as part of a larger City-initiated rezoning. The extent of the potential expansion area for the Transition District stretches farther away from the historic district in order to continue these characteristics along corridors leading into Old Town Fairfax.

FIGURE 16 HISTORIC DISTRICTS AND TRANSITION OVERLAY DISTRICTS



Community Design and Historic Preservation

Goal 1

Require high-quality, sustainable design.

Beyond residential neighborhoods, there is a wide variety of building uses in the City, from office and retail buildings to industrial and institutional buildings. These buildings were constructed over several decades and encompass an array of design styles and architectural influences. The City will require high-quality, sustainable design and construction of new buildings and public spaces along with similarly high-quality modifications and additions to existing buildings and open spaces. The intent of the design review process in areas of the City outside the historic districts is to continue to allow architectural variety while encouraging higher quality materials and design rather than designating specific design styles. The City can further support

OUTCOME CDHP1.1: Clear expectations for the required design elements and building materials for the City’s historic districts and commercial centers.

ACTION CDHP1.1.1 Determine design aesthetic of Fairfax Boulevard and Main Street with input from City boards and commissions and convey through the City of Fairfax Design Guidelines.

OUTCOME CDHP1.2: Attractive buildings, inviting public spaces and welcoming gateways that contribute to our economic vitality and unique character.

ACTION CDHP1.2.1 Identify commercial economic investment areas.

ACTION CDHP1.2.2 Adopt design standards with a menu of options to encourage variety, visual interest and durability in the design of new development.

ACTION CDHP1.2.3 Explore public/private partnerships to create neighborhood centers and nearby gathering places.

ACTION CDHP1.2.4 Create attractive gateway features at key City entry points.

aesthetic quality through public investment in visible infrastructure, such as streetscapes and signage, and through public/private partnerships to promote desired types of development.

Community Design and Historic Preservation

Goal 2

Protect and enhance historic resources.

Inclusion of properties or structures in a local historic district should be based on the criteria described in this chapter. Local protections give the City the ability to designate specific characteristics of a property or district that are intended to be preserved, as well as provide regulatory measures that protect those properties. Local districts can be applied to individual properties or a group of properties, such as a neighborhood. Establishment of any new historic districts should be contingent upon support from owners of the affected properties.

OUTCOME CDHP2.1: Protection of eligible structures, properties and neighborhoods preserved through local historic designation and strategic investments.

ACTION CDHP2.1.1 Develop an inventory of historic and archaeological resources readily available on the City’s website that is reviewed and updated at least every 10 years.

ACTION CDHP2.1.2 Work with neighborhoods to gain support for new locally-designated historic districts and landmarks.

ACTION CDHP2.1.3 Identify and promote educational, economic and recreational benefits of historic structures, properties and districts.

ACTION CDHP2.1.4 Encourage the preservation of existing buildings of historic or architectural significance whenever feasible.

OUTCOME CDHP2.2: Redevelopment that respects nearby historic structures and the established architectural pattern.

ACTION CDHP2.2.1 Ensure all new development subject to the requirements of the City of Fairfax Design Guidelines is compliant and continue to monitor the review process for Certificates of Appropriateness to ensure it is effective.

3 Multimodal Transportation

Transportation is about more than mere movement. Transportation grants us access to the needs of everyday life. Sustainable, connected, and integrated transportation is fundamental to the success and livability of the City of Fairfax. This Chapter is based on the City of Fairfax Multimodal Transportation Plan, the first comprehensive, multimodal transportation plan completed by the City. This plan was developed as a separate effort, but in coordination with the Comprehensive Plan.

The intent of this chapter is to recommend strategies that will improve the operation and safety of the city's transportation system in order to achieve the larger community objectives for a vital, vibrant, and livable City. "Multimodal" refers to the multiple ways (or "modes") people use to get around – car, bus, train, bike, walking, etc. A multimodal plan incorporates the various transportation modes into an efficient and connected system.

Guiding Principle:

In 2035, Fairfax is a City with...
options for residents to easily, safely and efficiently move within and between neighborhoods either by walking, bicycling, taking public transportation or driving.

Currently, the vast majority (72%) of City of Fairfax workers drive alone to work while 8% carpool, 11% use transit (bus or rail), and 5% work from home. Most households (94%) have at least one automobile. However, 6% of City of Fairfax residents make do without owning a personal vehicle. The average City of Fairfax worker travels 12.6 miles to work — a trip that takes 35 minutes on average.

Within the Washington region, approximately one-third of all trips (33%) are less than one mile in distance and more than 50% of these short trips are driven.



Fairfax Transportation Facts

The City of Fairfax is centrally located



A 20-minute drive to Tysons, Falls Church, and Dulles International Airport



Taking transit to these same destinations can take three times as long



27%

Of households have at least **one child at home**



36%

Of households include at least **one senior**

68,000 Daily trips are made through the city **without stopping**

In 2015 there were

837



Automobile crashes in the city



Of city residents have access to **one or more cars**



6% Of city residents must get by without an automobile

72% Of City of Fairfax commuters **drive alone to work**

66% Of residents surveyed would prefer to travel by a means **other than driving alone** to work or errands

CONGESTION + Safety

are the two most frequently cited threats to livability in the City of Fairfax



Most transit routes in the city operate from **early morning through evening**



However, most transit routes only operate **once or twice an hour**

1/3 of all household trips



are less than one mile in distance

1/2 Of these short distance trips **are driven**



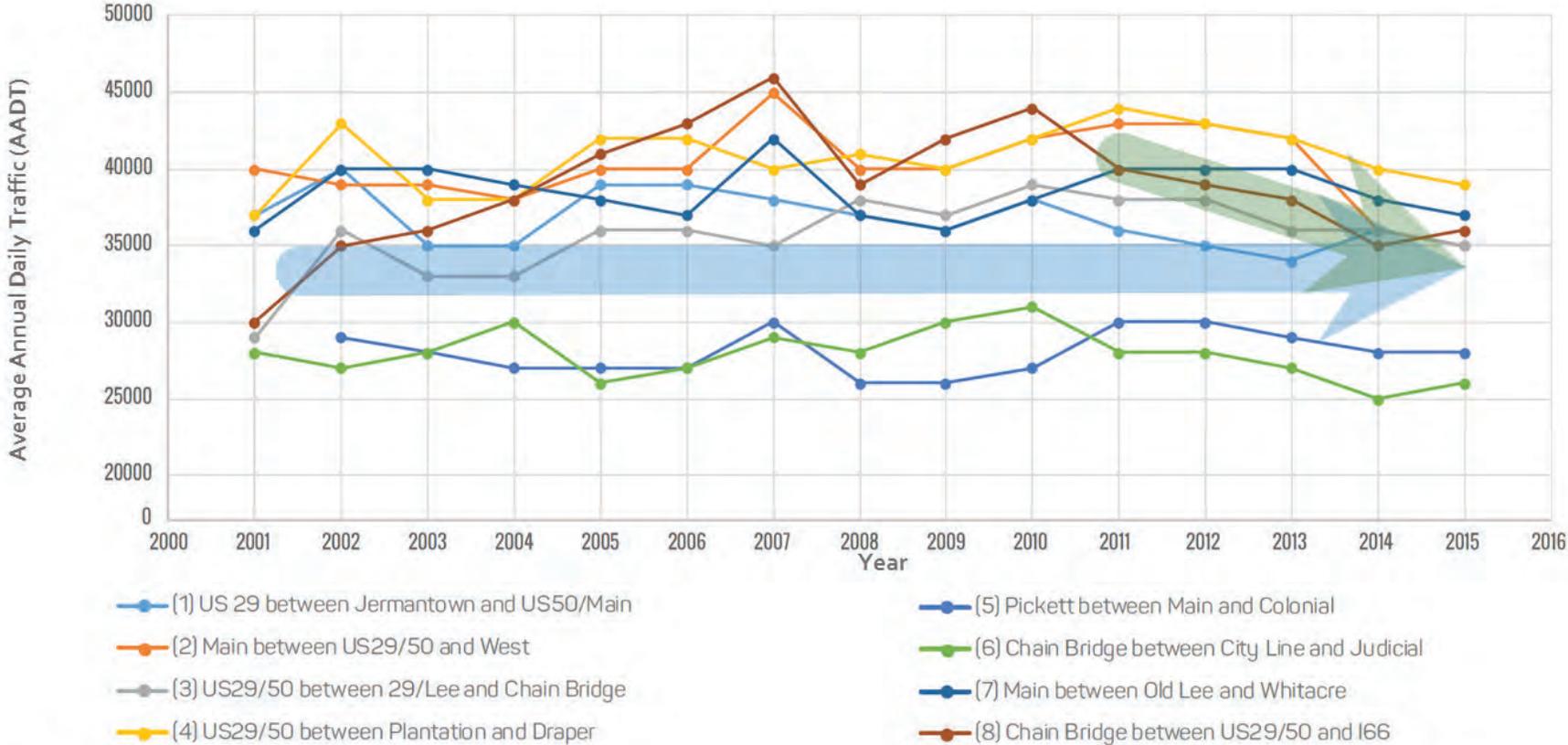
SOURCE: City of Fairfax Multimodal Transportation Survey, 2015; US Census National Household Travel Survey, 2009; MWCOG; City of Fairfax

Opportunities and Challenges

Traffic volumes and peak period congestion

Despite growth in population in the area, daily traffic volumes on the city’s 16 miles of arterials have remained relatively stable over the past 15 years. Promisingly, traffic volume on several segments has actually decreased since 2010-2011. Vehicular congestion during peak hours, however, continues to aggravate residents and commuters.

FIGURE 17 AVERAGE ANNUAL DAILY TRAFFIC

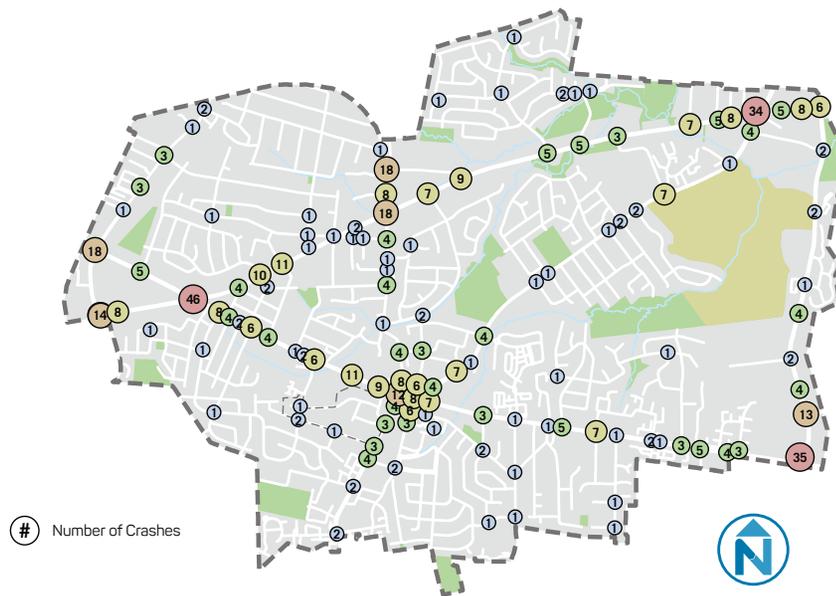


SOURCE: Virginia Department of Transportation, 2001 - 2015

Transportation safety

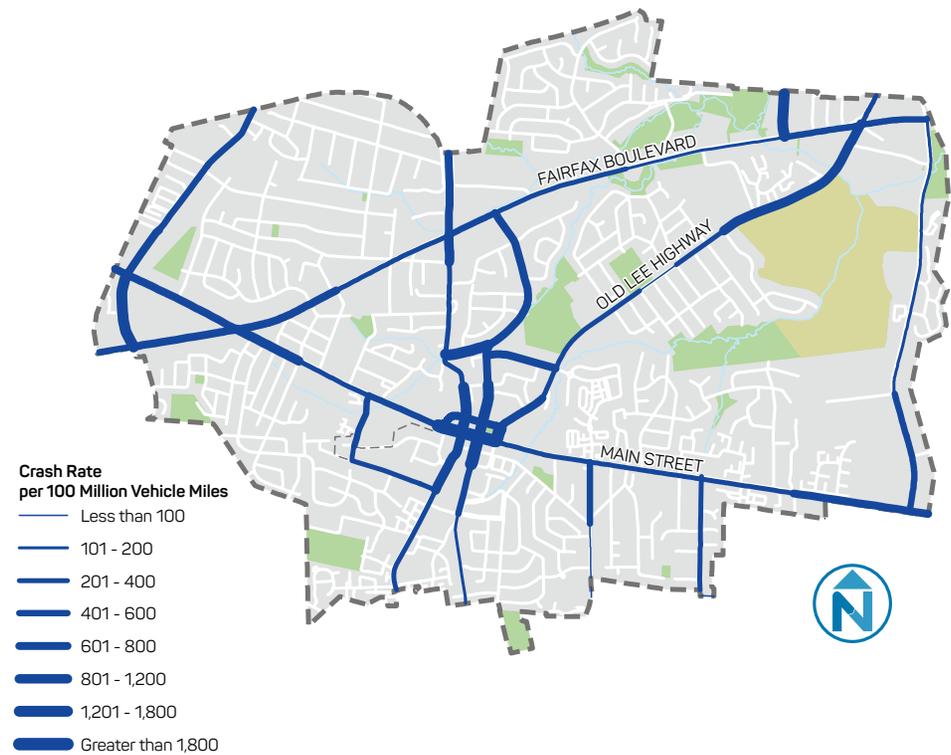
Traffic congestion is significant along most of the major corridors in the City and concentrated where arterials intersect. These areas also experience high rates of vehicle crashes. The highest rates are concentrated at major intersections.

FIGURE 18 2015 VEHICLE CRASHES BY LOCATION



SOURCE: City of Fairfax, 2015

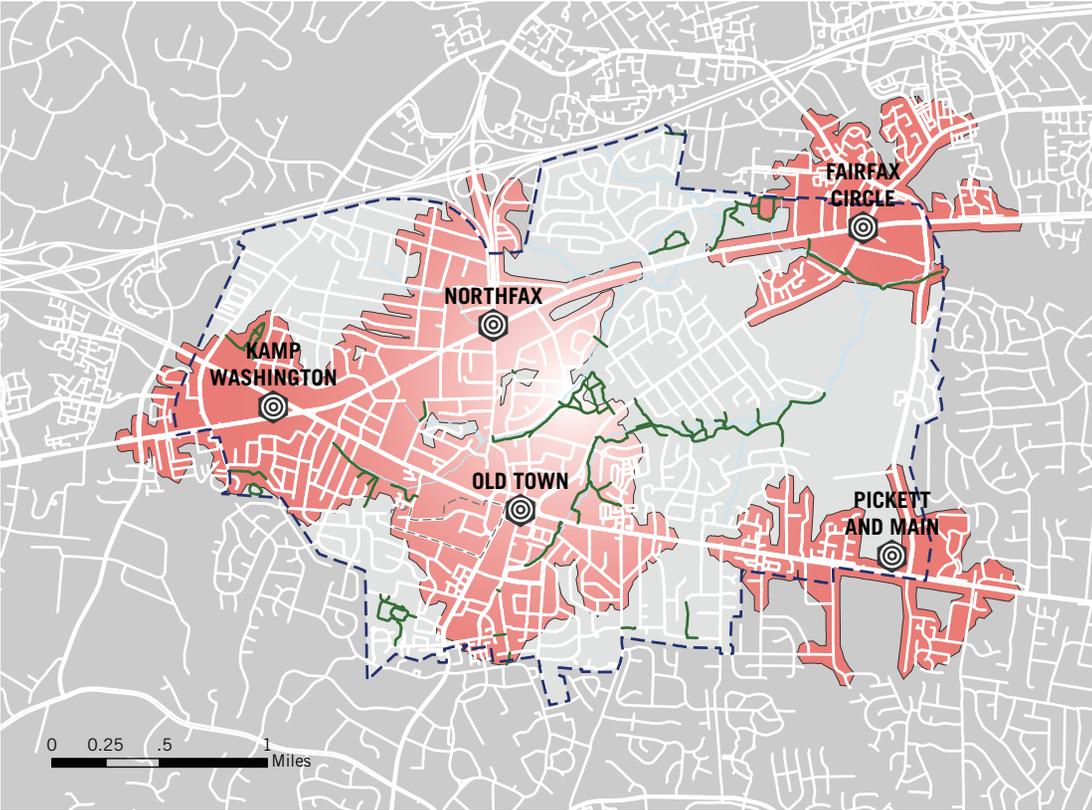
FIGURE 19 2015 VEHICLE CRASH RATES



Pedestrian and bicycle access to amenities

Forty-four percent of City of Fairfax homes are within a 20-minute walk of the basic amenities a household requires—shopping, dining, groceries, open space, schools, and other community facilities. The city's five Activity Centers largely provide these essential amenities. Except for Old Town, these centers are generally separated from adjacent residential communities by larger block sizes, busy roadways, and missing or discontinuous pedestrian networks. High-volume roadways are often dangerous for pedestrians to navigate, and complicate access to local amenities. While many neighborhoods in the City have relatively complete sidewalk networks, and while the City has a number of bicycle and pedestrian trails, the bicycle and pedestrian network is not well-connected or accessible for all users.

FIGURE 20 ACTIVITY CENTER WALKSHEDS (15 MINUTES)

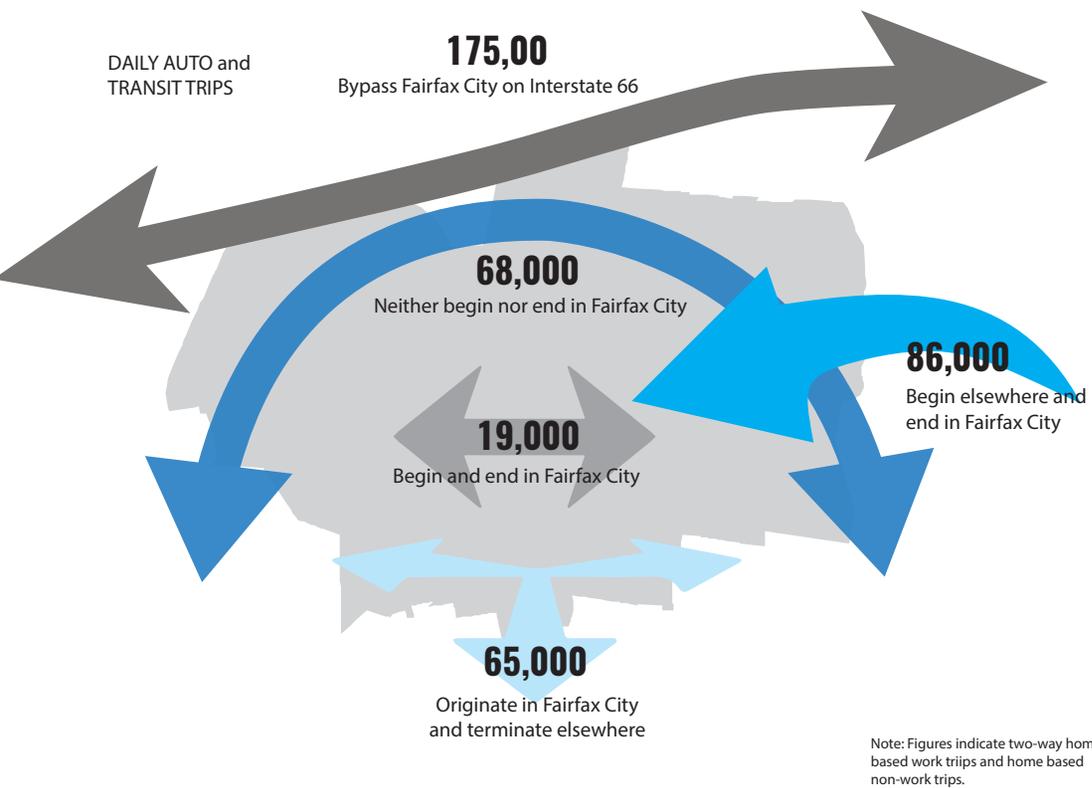


SOURCE: Census Data Set H1, 2010

Regional transportation demand

Every day, 68,000 regional travelers, most of them motorists, travel through the City of Fairfax without making a stop in the city. As traffic congestion continues to worsen on major regional corridors such as I-66 and Braddock Road this “cut through” traffic threatens to increase.

FIGURE 21 DAILY TRIPS TO, FROM, AND THROUGH THE CITY OF FAIRFAX



SOURCE: MWCOG 2.3 v57a Model, 2015



Roadway expansion limitations

While the city may continue to add local minor streets to enhance connectivity and access, few opportunities remain to add substantially more vehicle capacity on city streets. As such, the city will need to focus on ways to efficiently move more people within the existing street network. This can be done by encouraging higher occupancy in both private and mass transit vehicles, satisfying more short distance trips with walking and bicycle options, and encouraging people to shift their time of travel away from peak hours to less congested times of the day.

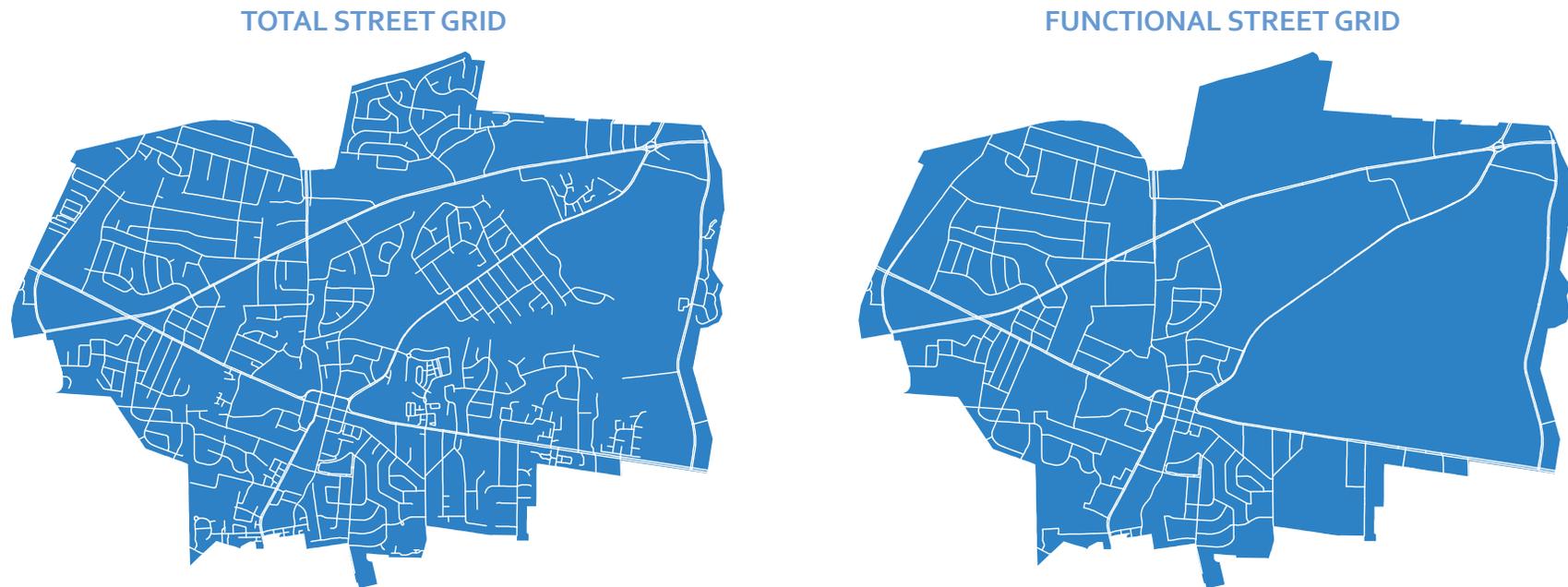
FIGURE 22 PEOPLE MOVING CAPABILITY OF VARIOUS TRANSPORTATION MODES



Street connectivity

The city has 104 centerline miles of streets. However, only 61% of them connect to neighborhoods or major corridors. While limited connectivity discourages cut-through traffic on local streets, it also constrains resident access in and out of their neighborhood. Oftentimes non-motorized access (bicycle and pedestrian) is equally constrained, placing all users—bicycles, pedestrians, transit vehicles, and private motorists—at the same location causing further conflict, congestion, and potential safety concerns among travelers.

FIGURE 23 TOTAL AND FUNCTIONAL VEHICULAR NETWORKS



A comparison of the entire City of Fairfax street grid to a functional grid paints a stark picture. The east side of the city consists almost entirely of neighborhoods isolated by physical barriers.

The functional grid is made up of roads that can be used to travel by vehicle to another neighborhood or part of the city. The west side of the city is far more integrated with Old Town and areas immediately northwest, southwest, and south of city boundaries.

Transportation infrastructure, services and other assets

Residents desire additional choices in travel. Among individuals responding to a survey, of the nearly three-quarters of residents who currently drive alone to work, more than two-thirds expressed a desire to have the option to travel by some other means. Current constraints to non-auto travel include limited transit frequency, missing or discontinuous bicycle and pedestrian networks, and general concerns about safety when traveling by non-auto modes.

TRAILS

The city has an enviable trail network to provide safe, attractive and convenient non-motorized access while concurrently promoting physical health and well-being.

CUE

The CUE bus system is well respected and generally well used. Buses operate at a good span of service—generally over 16 hours a day most days of the week. Frequency of service is, however, limited. Real-time bus tracking and arrival information helps augment the system’s usability. Combining transit applications with multimodal trip planning services provides riders with greater choice and convenience to weigh their travel decisions depending on time, cost or other considerations.

ECONOMY

The strong Northern Virginia economy continues to make the City of Fairfax an attractive place to live and invest. A number of large land parcels in the city, and particularly around the Activity Centers, provide opportunities for higher density development. Such development can assist in reducing the growth of traffic and congestion. By locating many origins and destinations within a compact, accessible, and walkable area, more residents can access the needs of daily life without ever getting in a car. Those who must drive may take just one vehicle trip and accomplish a number of other errands on foot within the same area. Urban-style development is better able to support transit and thus may enable more frequent transit service benefiting travelers across the area.



Evolving shared mobility and technology options

Shared travel options such as carpooling, ride hailing services or bicycle sharing systems offer an opportunity to meet local travel needs conveniently and cost effectively while reducing single-occupant vehicle travel. New mobility options are emerging in cities and towns across the United States. Some examples of best practices and future trends are shown on the following pages. Some of these may be important components of a sustainable mobility system in the city.



Multimodal Goal 1

Connect with the Region

The City of Fairfax is a relatively small jurisdiction within a much larger region. Although regional traffic can congest city streets, city residents rely on the larger region for significant employment, entertainment and cultural destinations. City businesses rely on regional patrons and attract employees from the larger area.

The city must enhance facilities that connect to the larger region, but do so in a way that supports the overarching community values of safety, connection, and robust choices in travel options.

MM OUTCOME 1.1:	Corridors for regional travel and better connections to regional networks and destinations are enhanced and improved
MM ACTION 1.1.1	Continue to participate in regional planning efforts to increase connectivity in the regional road, transit, and trail networks.
MM ACTION 1.1.2	Collaborate with WMATA and regional partners to ensure that any western extension of Metro’s Orange Line includes a station location accessible to and benefiting City of Fairfax stakeholders.
MM ACTION 1.1.3	Increase connectivity to the existing Vienna/Fairfax-GMU Metrorail Station including: <ul style="list-style-type: none">1.1.3.1 Improve pedestrian connections from the Fairfax Circle area to the Metro station area.1.1.3.2 Improve bicycle facility connections and crossings across Fairfax Boulevard from the City of Fairfax to the Metro station.1.1.3.3 Continue collaboration with George Mason University to enhance bicycle and transit connections between the university and the metrorail system.1.1.3.4 Implement the recommendations of the Old Lee Highway “Great Street” conceptual plan.
MM ACTION 1.1.4	Expand trail and bicycle networks to connect to regional facilities and destinations, including: <ul style="list-style-type: none">1.1.4.1 Improve connections and logical links to the Cross-County Trail and beyond to the Washington and Old Dominion (W&OD) trail.1.1.4.2 Improve trail connections south along Route 123 to connect to the Braddock Road Sidepath and on to Lorton, VA.1.1.4.3 Connect local trails to the planned I-66 trail facility.1.1.4.4 Coordinate with Fairfax County on the construction of the Main Street/ Little River Turnpike bicycle facility.
MM ACTION 1.1.5	Improve the Blake Lane-Jermantown Road corridor. <ul style="list-style-type: none">1.1.5.1 Complete a transportation study to determine necessary facility improvements and operational plan.1.1.5.2 Coordinate with Fairfax County and VDOT on improvements to the Jermantown Road bridge over I-66 including additional capacity for vehicles, bicycles and pedestrians.1.1.5.3 Pursue a connection from Jermantown Road to Waples Mill Road north of Fairfax Boulevard.

Multimodal Goal 1

MM ACTION 1.1.6 Support Fairfax County in pursuing improvements to Braddock Road to facilitate its operation as a critical regional corridor.

MM ACTION 1.1.7 Complete the Government Center Parkway.

MM ACTION 1.1.8 Improve safety and ensure continued efficiency of Pickett Road as a regional north-south corridor and important truck route.

MM OUTCOME 1.2: Safety and operations in the regional network are improved

MM ACTION 1.2.1 Conduct a detailed study of Fairfax Circle to improve safety and operations, potentially including geometric changes to the existing circle configuration.

MM ACTION 1.2.2 Complete improvements to Kamp Washington intersection (Main Street and Fairfax Boulevard).

MM ACTION 1.2.3 Complete improvements to the Northfax intersection of Fairfax Boulevard and Chain Bridge Road.

MM ACTION 1.2.4 Simplify multi-leg and offset intersections, such as the intersection of McLean Avenue, Warwick Avenue, and Fairfax Boulevard.

MM ACTION 1.2.5 Continue city participation on regional transportation boards.

MM ACTION 1.2.6 Promote a regional approach to public transportation planning.

MM ACTION 1.2.7 Participate in the regional process for evaluation and recommendation of projects to be applied for state and federal funding.

Multimodal Goal 2

Provide viable and attractive mobility choices

Many residents envision the City of Fairfax as a walkable place where neighbors can meet each other in Old Town Square or stroll down one of the many trails. They describe bicycling neighborhood streets with friends and visiting nearby shops.

Today's reality, however, is that the city is heavily dominated by vehicle traffic. Walking or bicycling on busy streets is uncomfortable or even dangerous. The city's bus system is well used and highly regarded, but is often caught in the same traffic as other vehicles.

Achieving residents' desired mobility requires providing a balanced system where people can choose the best mode for them depending on their needs.

MM OUTCOME 2.1: Pedestrian safety is improved.

MM ACTION 2.1.1 Fill critical gaps in the pedestrian network. Develop and act on a prioritized list of sidewalk improvements in the commercial areas and provide sidewalks on at least one side of every residential street in neighborhoods that are in agreement.

MM ACTION 2.1.2 Ensure the pedestrian network is accessible to all and meets the requirements of the Americans with Disabilities Act (ADA).

MM ACTION 2.1.3 Enhance safe routes to school, safe routes to transit, and safe routes to community facilities, completing specific planning efforts as required.

MM ACTION 2.1.4 Improve pedestrian crosswalks. Crosswalks should be provided across all legs of all intersections.

MM ACTION 2.1.5 Expand the sidewalk network. Sidewalks should be provided with any significant street maintenance, rehabilitation, or reconstruction project and may be constructed independent of a street project.

MM ACTION 2.1.6 Increase connectivity to the existing Vienna/Fairfax-GMU Metrorail Station including:

2.1.6.1 Improve pedestrian connections from the Fairfax Circle area to the Metro station area.

MM ACTION 2.1.7 Expand safety education efforts to educate all road users on pedestrian awareness and safety. Educate residents on proper procedures for traveling as a pedestrian, interacting with pedestrians as a driver, and locating and using pedestrian facilities to increase comfort and safety and encourage more walking.

MM OUTCOME 2.2: The "Green ribbon," the city's existing parks and trail network, is connected and expanded. (Figure 24)

MM ACTION 2.2.1 Fill gaps in the trail network. Complete connections to existing segments, implement projects proposed by the Parks and Recreation Master Plan, and pursue new trail connections to create a more functional trail network.

Multimodal Goal 2

MM ACTION 2.2.2	Connect the George Snyder Trail to the planned I-66 trail facility.
MM ACTION 2.2.3	Improve trail crossings across arterial streets, including Fairfax Boulevard at Pickett Road and Main Street at Main Street Square and Railroad Avenue.
MM ACTION 2.2.4	Provide wayfinding, trail blazing and traffic calming/safety, and non-motorized facility improvements to provide connections between parks and trails.
MM ACTION 2.2.5	Increase resident awareness of trail networks and connections.
MM OUTCOME 2.3	Bicycle network, facilities, and programs are improved. (Figure 25)
MM ACTION 2.3.1	Develop and adopt a bicycle network plan linking major destinations including George Mason University, Old Town, Metrorail, and the regional trail system.
MM ACTION 2.3.2	Review bicycle facility design standards to ensure best practices in design and delivery of facilities.
MM ACTION 2.3.3	Expand the provision of bicycle racks for short term bicycle parking.
MM ACTION 2.3.4	Adopt bicycle-supportive policies for development projects where applicable, including expanded provision of short- and long-term bicycle parking, showers, and changing facilities.
MM ACTION 2.3.5	Complete a bike share feasibility study including definition of necessary station density, recommended “starter system,” operating and management structure, and funding program, preferably in partnership with George Mason University.
MM ACTION 2.3.6	Provide initial support to establish bike share in the City of Fairfax.
MM ACTION 2.3.7	Expand safety education efforts to educate all road users on bicycle awareness and safety. Educate casual cyclists on proper procedures to encourage more cycling through an increased comfort level.
MM ACTION 2.3.8	Increase connectivity to the existing Vienna/Fairfax-GMU Metrorail Station by improving bicycle facility connections and crossings across Fairfax Boulevard north to the metro station.

Multimodal Goal 2



MM OUTCOME 2.4 Transit continues to be an effective non-driving alternative. (Figure 26)

MM ACTION 2.4.1 Improve transit services and facilities.

2.4.1.1 Identify a priority transit network providing enhanced transit operations and more frequent services along key corridors including Main Street, Old Lee Highway, and Fairfax Boulevard.

2.4.1.2 Enhance passenger accommodations to improve comfort and convenience.

2.4.1.3 Improve major transfer locations with quality passenger amenities, expanded information, and improve pedestrian facilities. Significant transfer locations include the Kamp Washington area, Fairfax Circle, Old Town, and Pickett and Main.

2.4.1.4 Implement recommendations of the CUE Transit Development Plan to maintain the highly valued service of the CUE transit system.

2.4.1.5 Improve connections to other transit routes and facilities through enhancements at significant transfer locations.

2.4.1.6 Promote transit-friendly design features in new development and redevelopment projects.

2.4.1.7 Expand ADA-accessible sidewalks and crosswalks serving bus stops.

MM OUTCOME 2.5: Vehicular travel & facilities are effectively managed and maintained

MM ACTION 2.5.1 Design all new facilities and upgrade existing facilities to comply with all federal, state, and local safety standards.

MM ACTION 2.5.2 Pursue new technologies that would improve safety on City streets.

MM ACTION 2.5.3 Ensure the safety of City streets by incorporating traffic calming measures as needed.

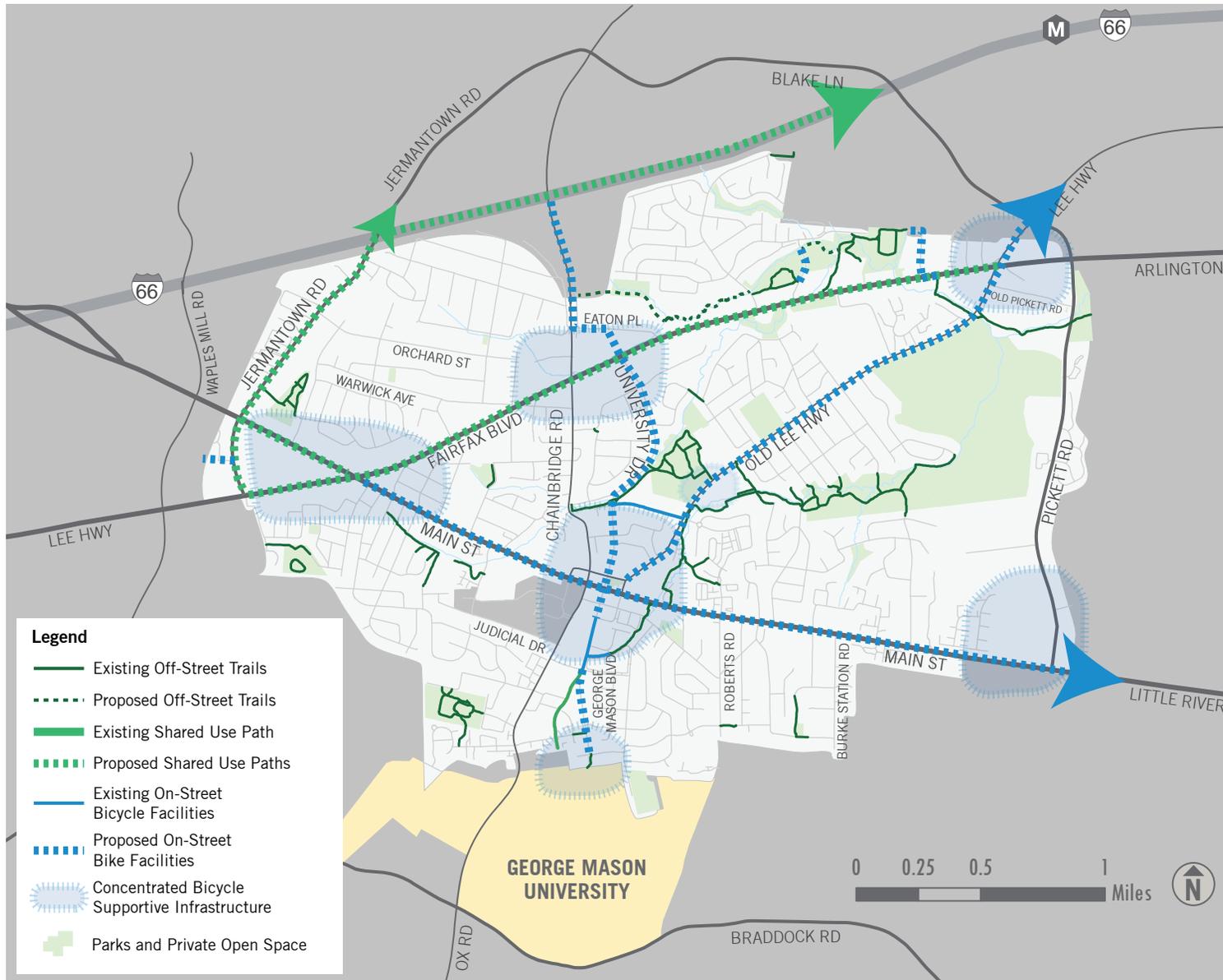
MM ACTION 2.5.4 Evaluate opportunities to increase street grid connectivity to distribute vehicle and non-motorized traffic and to improve network resiliency. Opportunities for additional connections may be identified at any time but particularly as redevelopment occurs.

FIGURE 24 PROPOSED GREEN RIBBON OF RECREATIONAL TRAILS AND ENVISIONED CONNECTIONS



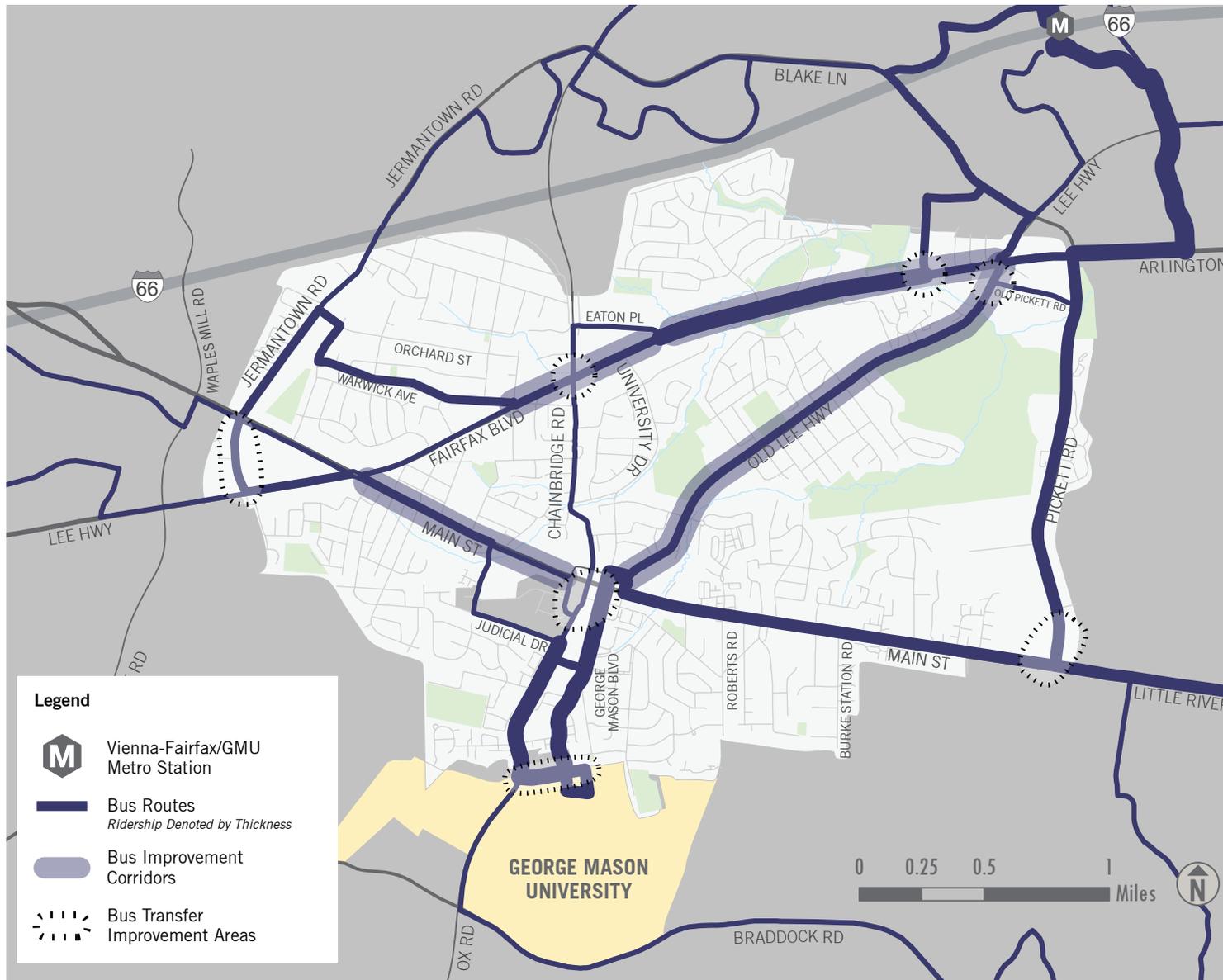
(See Outcome 2.2)

FIGURE 25 PROPOSED NETWORK FOR BICYCLE TRAVEL



(See Outcome 2.3)

FIGURE 26 PROPOSED TRANSIT NETWORK ENHANCEMENTS



(See Outcome 2.4)

Multimodal Goal 3

Integrate Transportation with Land Use

Often the best transportation plan is a good land use plan. “Mobility” is a tool for accessing the things we need in daily life, connecting homes to shops, work, schools, and friends. When these things are spaced far apart, we tend to travel in vehicles; whether by car, bus, or train.

Land use and transportation are inextricably linked and must be planned and designed concurrently. Mixing uses—building housing close to schools and parks; employment close to shops and dining; and in a compact, walkable area—can reduce the need for separate vehicle trips that clog roadways and erode public health. Designing connected street networks increases the accessibility of these areas to surrounding areas. Managing parking and encouraging and accommodating the use of alternate modes can further reduce the growth of traffic while allowing for new development.

MM OUTCOME 3.1: On- and off-street parking and curbside uses are effectively managed

MM ACTION 3.1.1 Effectively manage city-controlled parking facilities for availability rather than turn-over.

MM ACTION 3.1.2 Enhance wayfinding and information for users, with an initial focus on the established Old Town area.

MM ACTION 3.1.3 Explore parking pricing and other parking management strategies for public parking spaces and facilities throughout the city.

MM ACTION 3.1.4 Explore the creation of parking management districts in Old Town and other major local activity centers to maximize parking resources while minimizing excess parking supply.

MM ACTION 3.1.5 Consider policy measures to allow developers to fund public parking or other forms of access infrastructure in lieu of meeting parking demand on site.

MM ACTION 3.1.6 Develop travel marketing material to reduce the demand for long-term commuter/ employee parking in the City.

MM ACTION 3.1.7 Revise the Residential Parking Permit District Policy to consistently manage on-street public parking in residential neighborhoods.

MM OUTCOME 3.2: Walkability to and within Activity Centers and between neighborhoods is increased. (Figure 27)

MM ACTION 3.2.1 Whenever possible, increase connections—particularly non-motorized connections—between neighborhoods, community facilities, and local activity centers.

MM ACTION 3.2.2 With development projects, break up large blocks to a more walkable scale. Pursue additional secondary and tertiary street network opportunities. Streets should be well designed as complete streets and align at regular intersections for a continuous street grid.

Multimodal Goal 3

The City of Fairfax will improve street design and better guide street management decisions through adoption of a “Link+Place” street typology appropriate to the unique context of the city and city streets. The typology provides planners, engineers and designers with an understanding of the typical and desired users of the street, features to consider for inclusion, and the transportation demands that require accommodation. Street types for the City of Fairfax include Limited Connection Residential, Neighborhood Circulators, Active Streets, Avenues, Boulevards, and Commercial Mains. Link +Place street type designations for all streets in the City are provided in Figure 28, with each street type defined on the following pages.

MM ACTION 3.2.3 Increase the number, safety, and frequency of pedestrian crossings, including across major streets. Provide crosswalks at all approaches of all signalized intersections at minimum intervals of 500 feet within local activity centers. An exception exists in the case where the implementation of a crosswalk would result in operational failure of the corridor.

MM ACTION 3.2.4 Improve the overall pedestrian environment, including pedestrian crossings, street trees and furnishing zone, buffering sidewalk from vehicle travel lanes, improved pedestrian scale lighting, and active ground floor uses along primary street edges.

MM OUTCOME 3.3: Streets are designed to accommodate context and function. (Figure 28)

MM ACTION 3.3.1 Develop and adopt a “Link+Place” street typology to guide street design and management for public and private streets.

MM ACTION 3.3.2 Through community consultation, develop specific design objectives, desired outcomes, and performance metrics for each street type. Link design objectives to the street design and project development process, guidelines, and reference documents.

MM ACTION 3.3.3 Ensure quality street design in both the pedestrian zone and travel zone of the street.

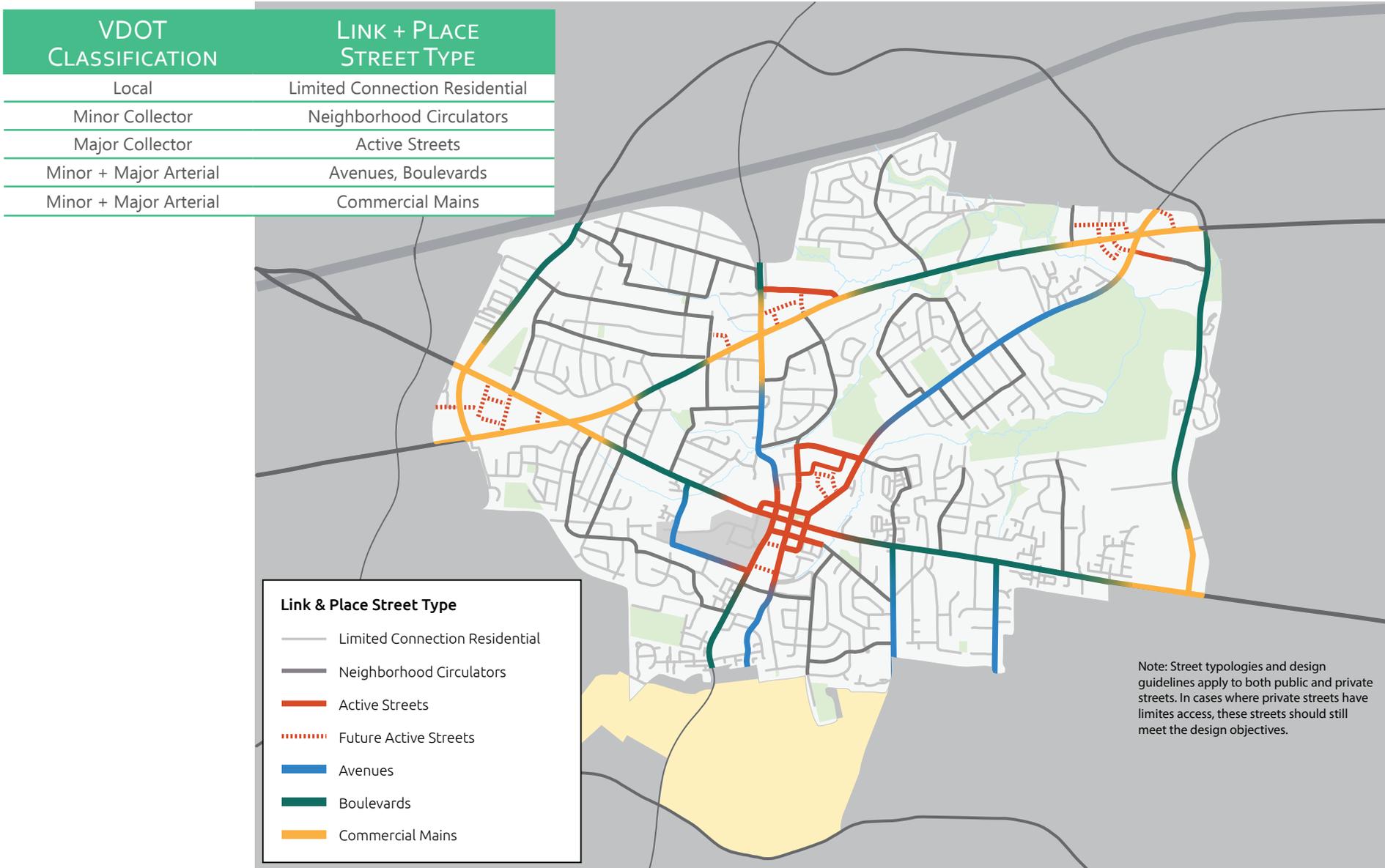
MM ACTION 3.3.4 Improve access, circulation, walkability, and transportation management in local activity centers.

FIGURE 27 PROPOSED ACTIVITY CENTER ENHANCEMENTS



(See Outcome 3.2)

FIGURE 28 PROPOSED STREET TYPOLOGY DESIGNATIONS



(See Outcome 3.3)

LIMITED CONNECTION RESIDENTIAL STREETS

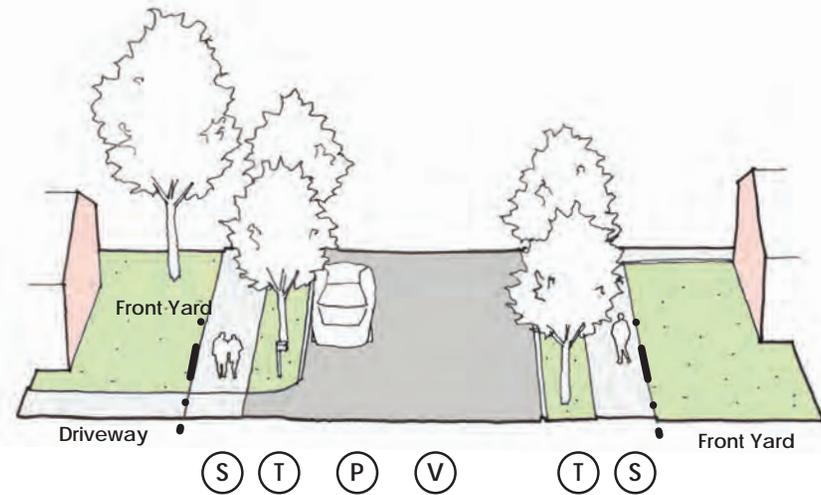
These are interior neighborhood residential streets that generally do not connect to other streets in the network. These streets are very green in nature, lined with broad front yards and a robust tree canopy, and generally self-regulate both vehicle speeds and volumes.

Typical Transportation Uses

- Local traffic only – typically the home segment of the journey
- Non-motorized trips within the neighborhood
- Bicycles typically share the street with autos
- Very low traffic speeds



LIMITED CONNECTION RESIDENTIAL STREETS



TYPICAL ELEMENTS MAY INCLUDE:

- NARROW AND DESIGNED FOR SLOWER SPEEDS
- SINGLE-FAMILY RESIDENTIAL SET BACK WITH DRIVEWAYS
- ON-STREET PARKING (UNMARKED) - WHERE APPLICABLE
- SIDEWALKS

DIAGRAM KEY

- Ⓧ Travel Lanes -10' to 11' Each
- Ⓟ On-Street Parking
- Ⓣ Street Tree Zone - 5'
- Ⓢ Sidewalks - 5'
- i* City Right-of-Way

NEIGHBORHOOD CIRCULATORS

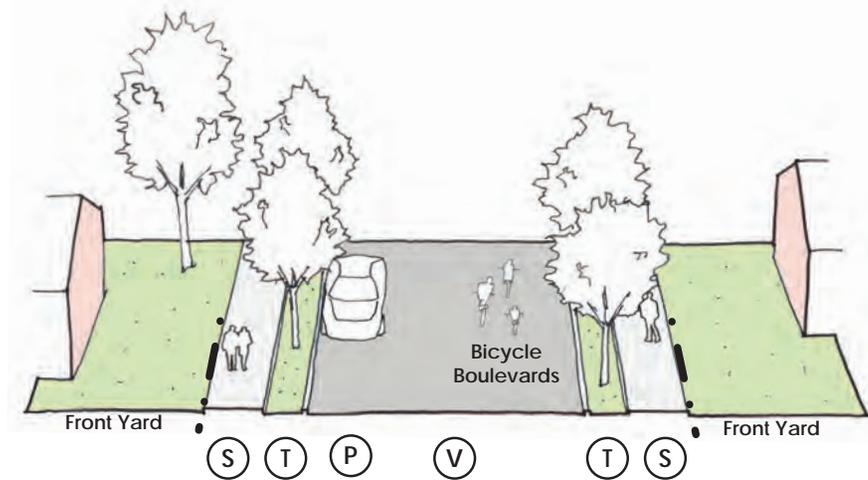
Neighborhood Circulators are residential streets that contribute to community connectivity and may include the presence of parks, community centers, schools, or houses of worship. Neighborhood Circulators are also very green with abundant street trees and open space along them. These streets may need design techniques that reduce travel speeds and traffic volumes.

Typical Transportation Uses

- Mostly local traffic; vehicles from throughout the neighborhood may filter onto these streets
- Some may have transit service
- Non-motorized trips connecting to local destinations (e.g. schools, parks, or retail)
- Bicycles may share the street with autos; marked facilities recommended
- Vehicle speeds should be low; speed management may be required



NEIGHBORHOOD CIRCULATORS



Note: Similar to limited connection residential, though provide more connectivity to city street network

TYPICAL ELEMENTS MAY INCLUDE:

- NARROW AND DESIGNED FOR SLOWER SPEEDS
- SINGLE-FAMILY RESIDENTIAL SET BACK WITH DRIVEWAYS
- ON-STREET PARKING (UNMARKED) - WHERE APPLICABLE
- SIDEWALKS
- BICYCLE BOULEVARDS (SEE DEFINITION BELOW)
- STREET LIGHTING

DIAGRAM KEY

- Ⓧ Travel Lanes - 10' to 11' Each
- Ⓟ On-Street Parking - 8'
- Ⓣ Street Tree Zone - 5'
- Ⓢ Sidewalks - 5'
- Ⓛ City Right-of-Way

Bicycle Boulevards are streets with low motorized traffic volumes and speeds, designated and designed to give bicycle travel priority within the travel lane.

-National Association of Transportation Officials

ACTIVE STREETS

Active Streets connect multiple destinations and are more mixed-use or commercial in nature than residential street typologies. They are generally the street type for new streets within activity centers and are the primary location for property access. Active Streets should be designed to create a comfortable environment for walking, shopping, and dining while at the same time accommodating circulation by bicyclists, cars and trucks, and in some cases transit vehicles.

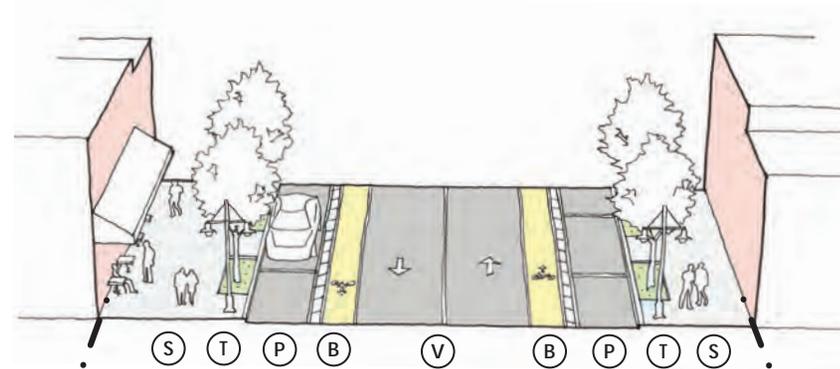
Typical Transportation Uses

- Mostly local traffic accessing destinations, though some active streets may accommodate regional traffic
- Some may have transit service
- High concentrations of pedestrians
- Bicycles in-street only, preferably on dedicated facilities
- Loading and delivery vehicles may need to be accommodated
- Traffic speeds should be low

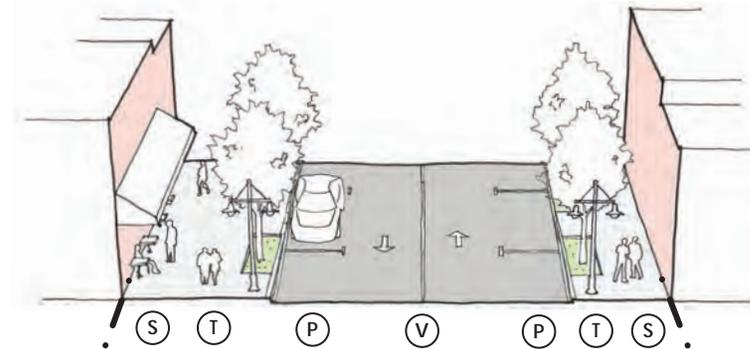


Option 1

ACTIVE STREETS



Option 2



TYPICAL ELEMENTS MAY INCLUDE:

- NARROW STREETS (TYPICALLY TWO LANES)
- GROUND FLOOR USES ORIENTED TOWARD THE STREET
- ON-STREET PARKING
- SIDEWALKS
- BICYCLE BOULEVARDS
- STREET LIGHTING
- TREES IN PITS, PLANTERS OR GRATES

DIAGRAM KEY

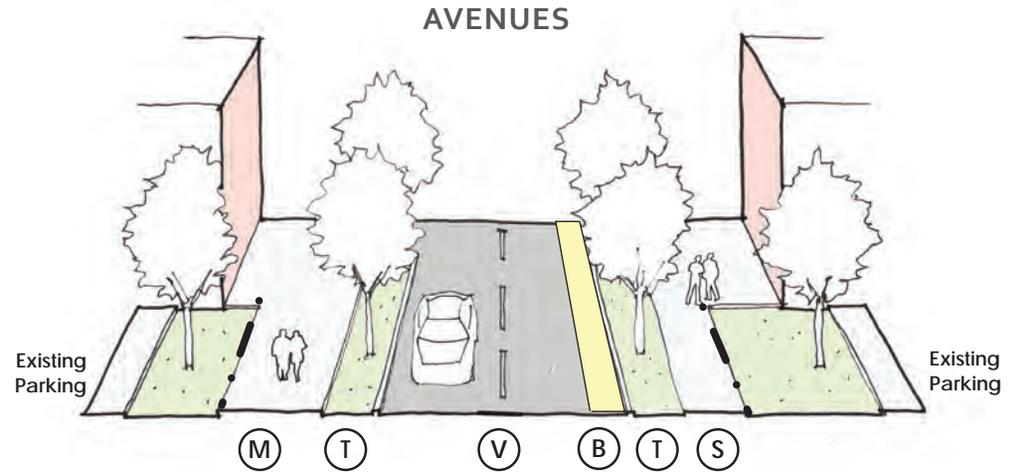
- Ⓥ Travel Lanes - 10' to 11' Each
- Ⓟ On-Street Parking - 8'
- Ⓣ Street Tree Zone - Min. 5'
- Ⓢ Sidewalks - Varies 6' to 12'
- Ⓟ Bicycle Lanes - Min. 5'
- i* City Right-of-Way

AVENUES

Avenues carry moderate volumes of traffic using one travel lane in each direction. As a result, these corridors are more comfortable for active transportation users. They include sections of arterial corridors between certain Activity Centers such as Old Lee Highway and Chain Bridge Road. Medians or planted median islands are less common while curb cuts and access drives are numerous. Vehicle throughput can be controlled through these areas due to high volume, naturally lowering traffic speeds to a level consistent with the non-commercial context.

Typical Transportation Uses

- Can be moderate volumes of traffic. Most vehicles are passing through to other local or area destinations
- Transit service is likely
- Moderate concentrations of pedestrians
- Bicycles accommodated on protected or off-street facilities such as shared use paths
- Traffic speeds lower, limited by volume



TYPICAL ELEMENTS MAY INCLUDE:

- LOWER CAPACITY THAN BOULEVARDS (TWO LANES)
- GROUND FLOOR USES ORIENTED TOWARD THE STREET
- LIMITED OR NO ON-STREET PARKING
- SIDEWALKS OR SHARED USE PATHS
- BICYCLE LANES AND/OR SHARED USE PATHS
- VEGETATED BUFFERS FOR TREE ZONE

DIAGRAM KEY

- Ⓧ Travel Lanes - 11' to 12' Each
- Ⓣ Street Tree Zone - Min. 5'
- Ⓢ Sidewalks - Varies 6' to 12'
- Ⓜ Multi-Use Paths - Min. 10'
- Ⓟ Bicycle Lanes - Min. 5'
- i City Right-of-Way

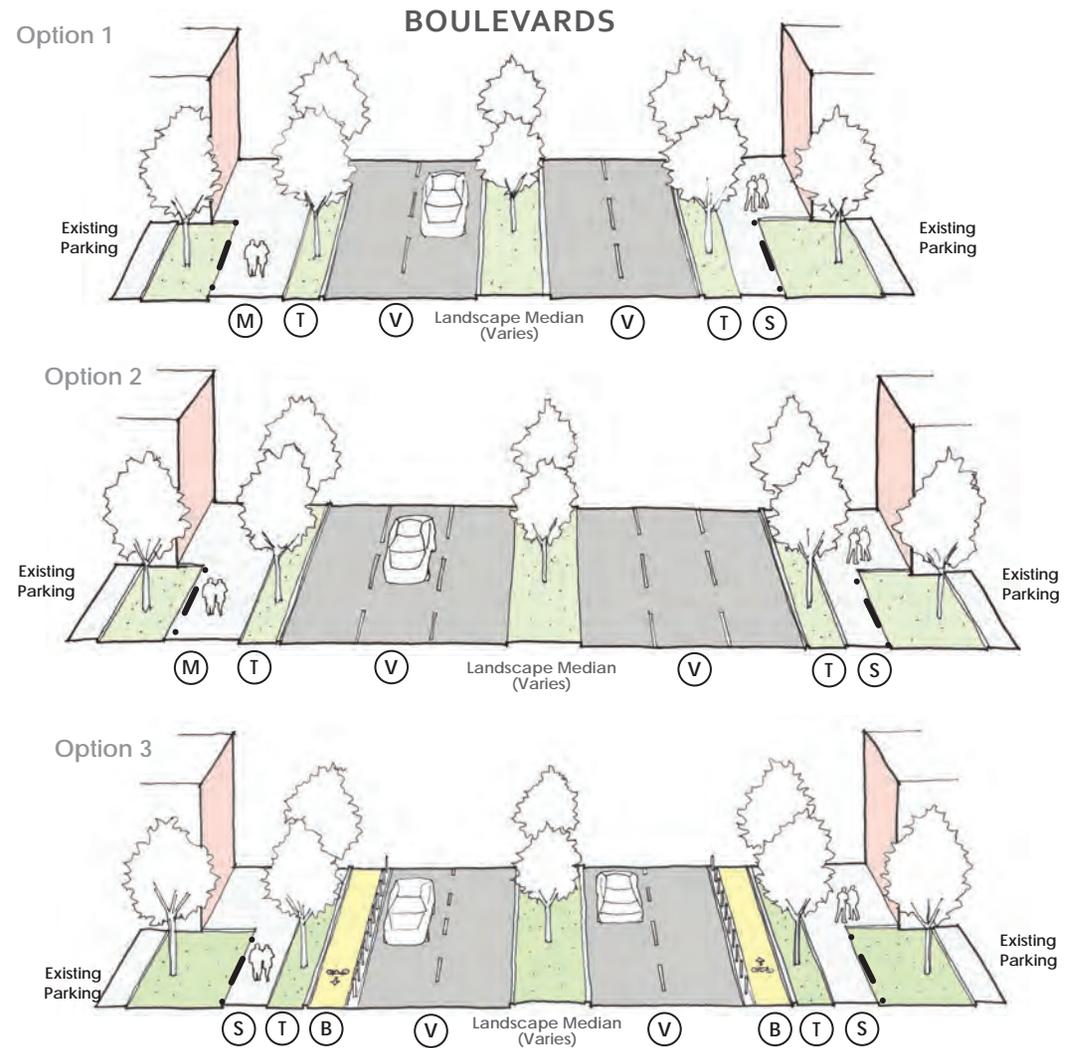


BOULEVARDS

Boulevards carry moderate to high volumes of traffic, but do so through a parkway like setting. They include sections of arterial corridors between the Activity Centers that may be designated as Boulevards, as well as minor arterials such as Pickett Road and Jermantown Road. Medians or planted median islands are common and curb cuts and access drives should be few and far between. While vehicle throughput is generally smooth through these areas, traffic speeds should remain consistent with the residential or park-like setting the streets travel through.

Typical Transportation Uses

- Can be high volumes of traffic. Most vehicles are passing through to other local or area destinations
- Transit service is likely
- Low concentrations of pedestrians traveling
- Bicycles accommodated on protected or off-street facilities such as shared use paths
- Traffic speeds likely higher, but still managed



TYPICAL ELEMENTS MAY INCLUDE:

- MULTI-LANE (TYPICALLY FOUR OR MORE LANES)
- GROUND FLOOR USES ORIENTED TOWARD THE STREET
- NO ON-STREET PARKING
- SIDEWALKS OR SHARED USE PATHS
- BICYCLE LANES OR SHARED USE PATHS
- VEGETATED BUFFERS FOR TREE ZONE

DIAGRAM KEY

- Ⓧ Travel Lanes - 11' to 12' Each
- Ⓣ Street Tree Zone - Min. 5'
- Ⓢ Sidewalks - Varies 6' to 12'
- Ⓜ Multi-Use Paths - Min. 10'
- Ⓑ Bicycle Lanes - Min. 5'
- City Right-of-Way

COMMERCIAL MAINS

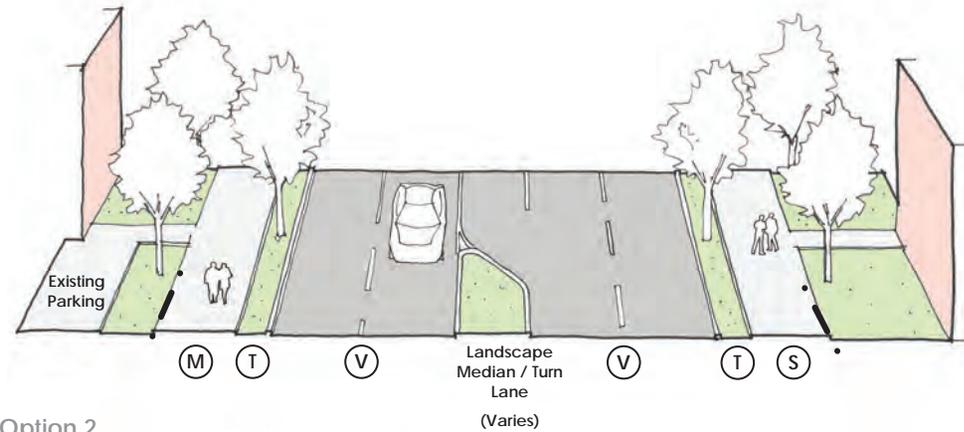
Commercial Mains are where commercial activity is concentrated, such as Fairfax Boulevard through the Northfax area or Main Street around Kamp Washington. Commercial Mains feature high volumes of vehicle traffic that mixes with bicycles, transit vehicles, and pedestrian crossings. Streets should be designed to slow traffic speeds while facilitating traffic flow. The pedestrian zone of the street should buffer pedestrians from the adjacent traffic. Access management on Commercial Mains improves vehicle flow while reducing conflicts with people on foot or bike.

Typical Transportation Uses

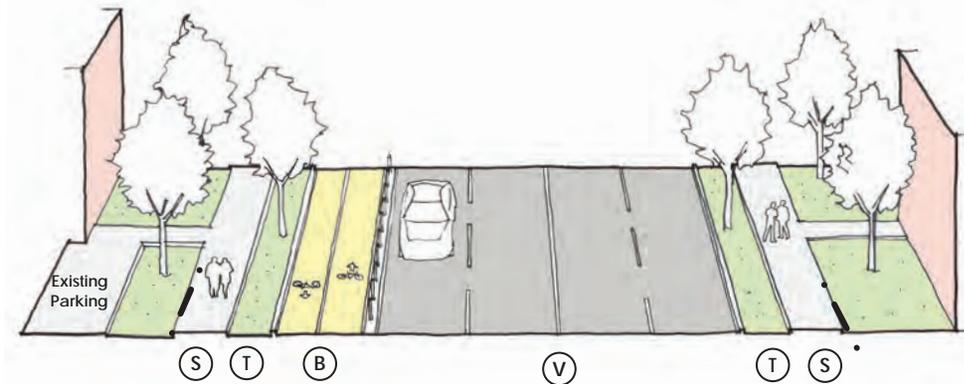
- Can be high volumes of traffic. Many vehicles are passing through to other local or regional destinations
- Transit service is likely
- High concentrations of pedestrians
- Bicycles accommodated in dedicated facilities either in-street or in well-designed shared use paths
- Traffic speeds likely higher, but still managed

Option 1

COMMERCIAL MAINS



Option 2



TYPICAL ELEMENTS MAY INCLUDE:

- LARGE MULTI-LANE STREETS (TYPICALLY FOUR TO SIX LANES)
- GROUND FLOOR USES ORIENTED TOWARD THE STREET
- NO ON-STREET PARKING
- SIDEWALKS OR SHARED USE PATHS
- BICYCLE LANES OR SHARED USE PATHS
- VEGETATED BUFFERS FOR TREE ZONE

DIAGRAM KEY

- Ⓥ Travel Lanes - 11' to 12' Each
- Ⓣ Street Tree Zone - Min. 5'
- Ⓢ Sidewalks - Varies 6' to 12'
- Ⓜ Multi-Use Paths - Min. 10'
- Ⓑ Bicycle Lanes - Min. 5'
- i* City Right-of-Way



Multimodal Goal 4

Adopt policies and procedures for strategic transportation decision making

Predictable and consistent decision making is important for all stakeholders using and managing the public rights of way. Clear policies and procedures provide this predictability.

The City of Fairfax will work with civic leaders, community members, and other stakeholders to develop and adopt policies and processes that are based on the fundamental values of the community and advance the overall vision for sustainable transportation. These policies are aimed at ensuring the safety of all travelers, enhancing the person-trip efficiency of the system, and preserving the characteristics that make the City of Fairfax unique.

MM OUTCOME 4.1: The city's sidewalk policy is updated

MM ACTION 4.1.1 Adopt a formal sidewalk policy, beginning with the best practices and policy recommendations for Pedestrian Accessibility Policy in Appendix B, requiring sidewalks on all new, reconstructed, or substantially rehabilitated streets that respond to local needs and community context.

MM OUTCOME 4.2: A Complete Streets policy is adopted and implemented

MM ACTION 4.2.1 Develop and adopt a Complete Streets policy, beginning with the best practices and policy recommendations for Complete Streets Policy in Appendix B.

4.2.1.1 Convene an interdisciplinary working group to develop an appropriate policy for the City of Fairfax and adopt as formal policy.

4.2.1.2 Examine existing design practices and processes and adjust to ensure implementation of the adopted policy.

4.2.1.3 Set and track evaluation measures for Complete Streets improvements.

MM ACTION 4.2.2 Implement Complete Streets improvements on major corridors including Fairfax Boulevard, Chain Bridge Road and University Drive, Old Lee Highway, and Main Street.

MM OUTCOME 4.3: A Transportation Demand Management (TDM) Program is adopted and implemented

MM ACTION 4.3.1 Based on best practices (as defined in Appendix B), establish a citywide Transportation Demand Management policy and program framework that can be utilized by the City and adapted by businesses and developers.

MM ACTION 4.3.2 Require transportation demand management plans for all large development projects. Require bi-annual monitoring to assess resident/employee travel patterns.

Multimodal Goal 4

MM ACTION 4.3.3 Create a City of Fairfax TDM brand and website to centralize all available travel option information including transit schedules, bicycle maps, ridesharing opportunities, and education tools.

MM ACTION 4.3.4 Increase outreach and education to George Mason University, the Central Fairfax Chamber of Commerce, City of Fairfax schools, and other markets that can provide strong partnerships with the TDM program.

MM ACTION 4.3.5 Evaluate a linked TDM fund for the in-lieu developer fees related to parking requirements to enhance the transit system and citywide TDM programs.

MM ACTION 4.3.6 Improve access to ride-sourcing programs through enhanced coordination with Fairfax County RideSource, Commuter Connections, or initiate a City based program.

MM ACTION 4.3.7 Explore opportunities for car share services within the City to address “last mile” connections.

MM ACTION 4.3.8 Partner with employer-sponsored wellness programs to highlight and market travel options and associated costs.

MM OUTCOME 4.4: Mobility best practices and emerging technologies, including those described in Appendix B, are considered in transportation policies and projects

MM ACTION 4.4.1 Consider implementing programs to test new transportation concepts on a trial or pilot basis.

MM ACTION 4.4.2 Provide real-time information through both apps and visual displays for transit arrivals, parking availability, and shared bicycles and vehicles.

MM ACTION 4.4.3 Promote multimodal travel planning applications and services.

MM ACTION 4.4.4 Pursue Intelligent Transportation Systems (ITS) such as transit or emergency vehicle priority, dynamic signal timing, and other strategies.

Multimodal Goal 4

MM ACTION 4.4.5	Participate with the state and regional partners to ensure autonomous vehicle policies protect vulnerable street users and reduce overall vehicle miles traveled.
MM ACTION 4.4.6	Prepare to eventually adapt curbside policies and street design to manage curbside car sharing/ride-sourcing activities while preserving the safe and efficient flow of travel.
MM ACTION 4.4.7	Consider policies to promote technologies and innovations that reduce environmental impacts from transportation.
MM OUTCOME 4.5: A short-term prioritized transportation project list is developed	
MM ACTION 4.5.1	Develop a two-year project list that reflects council and community priorities.
MM ACTION 4.5.2	Provide opportunities for public input on transportation improvements.
MM ACTION 4.5.3	Use all available media to provide transportation information to the public.

Recommended Transportation Policies And Projects And Cost Estimates

The plan’s goals are achieved through accomplishing the key recommended actions and the major projects highlighted in Figure 30. In addition, in accordance with State of Virginia code relating to Comprehensive Plans,

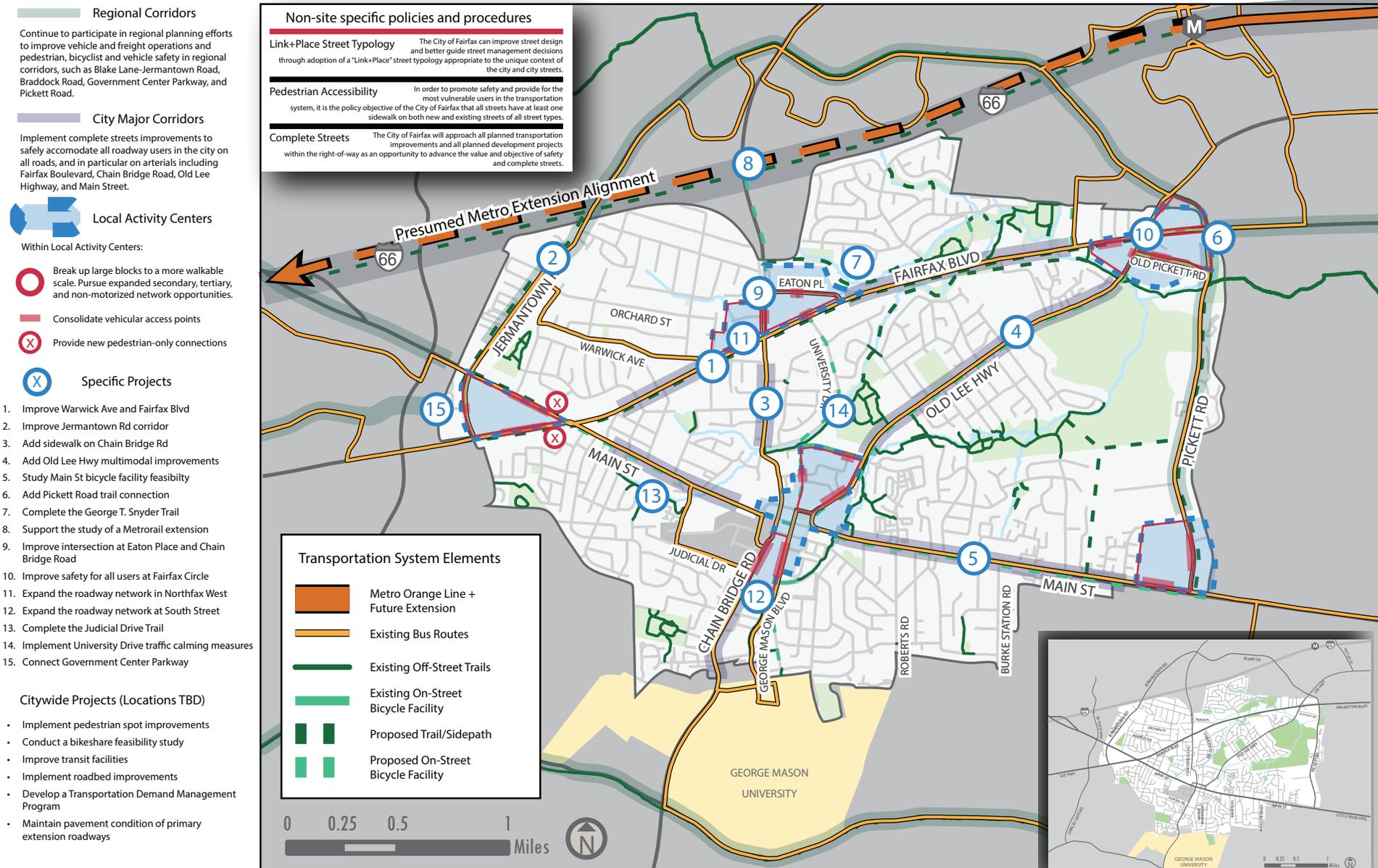
the map is accompanied by cost estimates for the major projects as shown below in Figure 29. This map and table include only key recommended projects; all projects under consideration to meet the long term goals

of the multimodal plan will be considered annually as part of the development of the City’s Two Year Transportation Program.

FIGURE 29 CITY OF FAIRFAX MULTIMODAL TRANSPORTATION PLAN – COST ESTIMATE

PROJECT #	NAME	PROJECT TOTAL COST ESTIMATE
1	Implement multimodal improvements at Warwick Ave and Fairfax Blvd	\$ 7,900,000
2	Improve Jermantown Rd corridor	\$ 21,000,000
3	Add sidewalk connection on Chain Bridge Rd between Old Town and Fairfax Blvd	\$ 4,580,000
4	Implement Old Lee Hwy multimodal improvements	\$ 15,000,000
5	Study Main St bicycle facility feasibility	\$ 11,200,000
6	Extend trail along Pickett from Fairfax Blvd to the Cross County Trail	\$ 3,500,000
7	Complete the George T. Snyder Trail	\$ 14,000,000
8	Support the study of a Metrorail extension	\$ 15,260,000
9	Improve intersection at Eaton Place and Chain Bridge Road	\$ 26,000,000
10	Improve vehicular and pedestrian safety at Fairfax Circle	\$ 5,760,000
11	Expand the roadway network in Northfax West	\$ 5,000,000
12	Extend South St between University Dr and Chain Bridge Rd	\$ 19,750,000
13	Complete the Judicial Drive Trail	\$ 350,000
14	Implement University Drive traffic calming measures	\$ 500,000
15	Complete the Government Center Parkway connection	\$ 5,000,000
Citywide, not location specific	Implement pedestrian spot improvements city wide	\$ 400,000
	Conduct a bikeshare feasibility study	\$ 60,000
	Improve Transit Facilities	\$ 965,000
	Implement roadbed improvements	\$ 1,000,000
	Develop a Transportation Demand Management Program	\$ 60,000
	Maintain pavement condition of primary extension roadways	\$ 970,000
		\$ 158,255,000

FIGURE 30 TRANSPORTATION POLICIES AND PROJECTS



4 Environment & Sustainability

This Chapter is supported by two Guiding Principles: Natural Environment and Sustainability Initiatives. The Natural Environment Guiding Principle focuses on the physical and geographic context of the City and the impact on local and regional environmental resources. The City has several types of environmental resources that are easily impaired by urban land uses. Encompassing the headwater of Accotink Creek, measures taken by the City to protect water quality, riparian and floodplain areas, open space and the urban forest are critical to support regional efforts to improve environmental health. Located within the Chesapeake Bay Watershed, the City is committed to reducing stormwater run-off in order to protect the Bay through the adoption of the Chesapeake Bay Preservation Act (Appendix A) and enforcement of other federal, state and local stormwater regulations.

The Sustainability Initiatives Guiding Principle focuses on City practices with a more global interest. This includes specific actions that support sustainable practices which can decrease greenhouse gas emissions from both building energy use and transportation; increase energy efficiency; increase utilization of renewable energy; increase waste reduction and recycling; conserve water; and support healthy lifestyles. It is important to recognize that sustainability practices address a broad range of social, economic and environmental issues, and therefore are incorporated throughout the Comprehensive Plan.

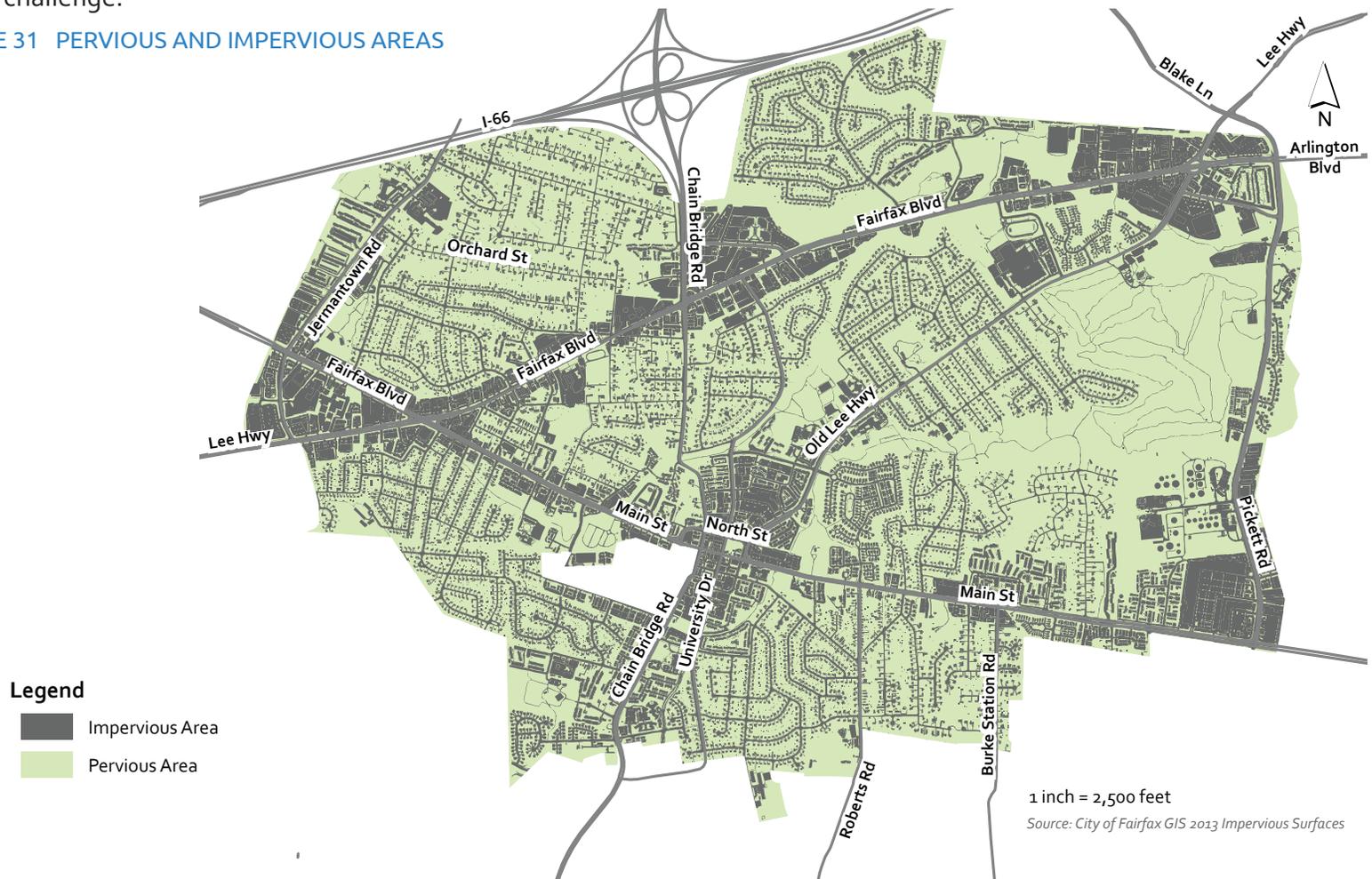


Opportunities and Challenges

Impervious surface

Previous land development has resulted in a large percentage of impervious areas, shown in Figure 31, which affects the amount of stormwater run-off, thereby polluting and degrading the health of our streams. As is typical in urban areas, maintaining the health of streams in the City is a continual challenge.

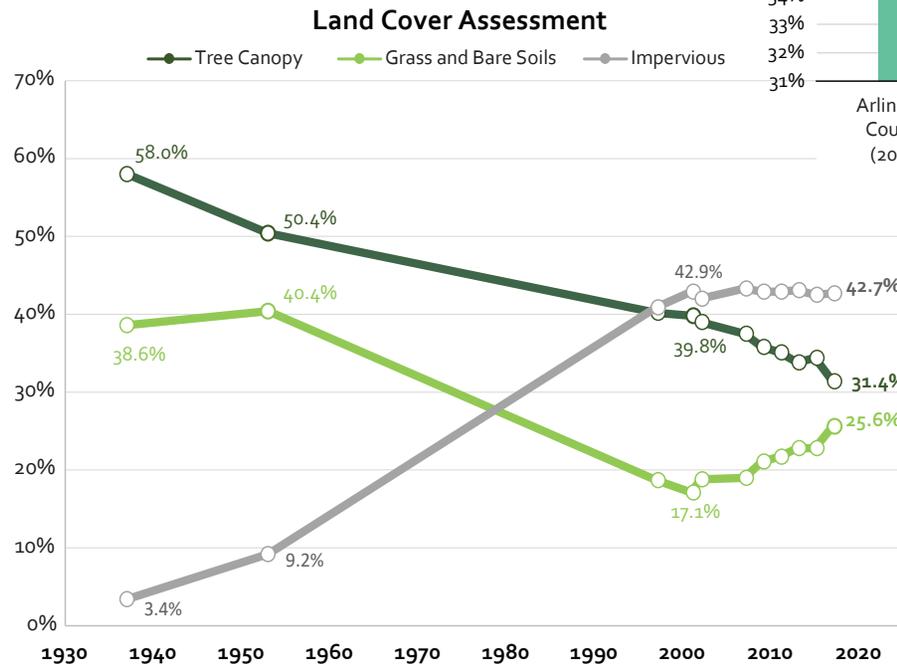
FIGURE 31 PERVIOUS AND IMPERVIOUS AREAS



Tree cover

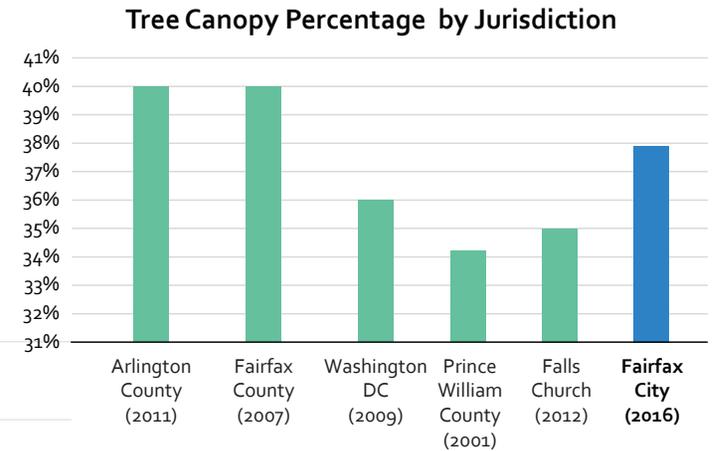
Due to urbanization, much of which occurred during rapid post World War II development around Washington, D.C., the City's tree canopy decreased from 58% in 1937 to 31.4% in 2017 as shown in Figure 32. Tree canopy coverage offers many benefits, such as conserving energy due to the reduction of temperatures from shading, improving air quality, reducing stormwater run-off, improving property values, and beautifying our community. Because the City is almost entirely developed, few significant forested areas remain. Those that still exist, whether public or private, deserve specific attention so that their aesthetic and ecological benefits to the City are not lost.

The i-Tree Canopy web application was used to conduct a land cover assessment utilizing historical aerial images. Figure 32 shows that tree canopy has declined over time while impervious areas have increased.



Source: City of Fairfax conducted a tree canopy assessment using the i-Tree Canopy software developed by the US Forest Service. The i-Tree land cover assessment results were estimated using random sampling statistics and have standard deviations ranging from $\pm .14$ to ± 1.53 .

FIGURE 32 TREE CANOPY



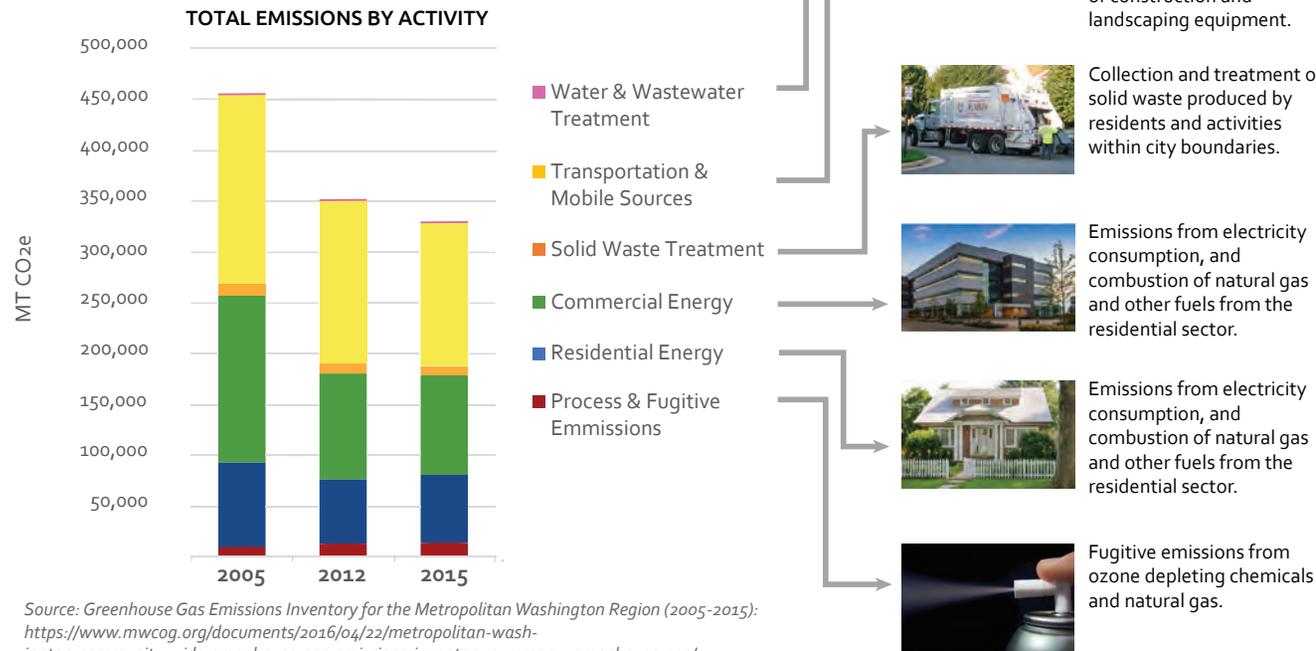
Source: Individual municipal websites.



Greenhouse Gas Emissions

Scientific consensus accepts the reality of climate change and recognizes that human activity, especially the combustion of fossil fuels that create greenhouse gases, is an important driver of climate change. The City of Fairfax, along with the entire Mid-Atlantic region, can anticipate changes in temperature, precipitation, water supply and air quality as a result of the changing climate. Local governments are responding to new demands on infrastructure as well as impacts to natural resources related to weather instability and changing, uncertain climatic conditions. The City of Fairfax is committed to exploring the potential benefits and costs of adopting policies and participating in programs that promote the long-term goal of greenhouse gas emissions reduction while maximizing economic and social benefits. A summary of greenhouse gas emissions from community activities in the City is provided in Figure 33. The City will explore and prioritize strategies that could best aid in reducing greenhouse gas emissions.

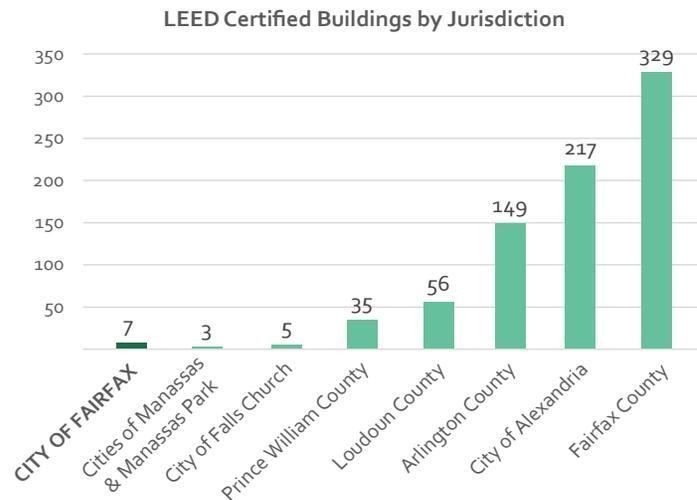
FIGURE 33 GREENHOUSE GAS EMISSIONS



Green building practices

With new private development projects, the City has ample opportunity to encourage the use of green building practices (Figure 34). In addition to the environmental benefits of green buildings (e.g. reducing energy use, greenhouse gas emissions, construction waste, etc.), they can also enhance the economics of local development. Recent trends show that office space meeting green building standards generally experiences higher demand and can be a catalyst for bringing new businesses to a community.

FIGURE 34 GREEN BUILDINGS



Fairfax Marketplace



Fair City Mall



Residence Inn



PNC Bank Branch

PROJECT NAME	LOCATION	LEED SYSTEM	POINTS ACHIEVED	CERTIFICATION LEVEL	CERTIFICATION DATE
Fairfax County Health Dept Laboratory	10310 Layton Hall Dr	LEED-NC 2.2	41	Gold	6/8/2011
Barcelo Crestline	3950 University Drive	LEED-CI 2.0	23	Certified	11/5/2010
PNC Bank Branch- Main St & Judicial Ave	10649 Main Street	LEED-NC 2.2	27	Certified	6/28/2013
Fair City Mall	9652 Main St	LEED for Retail (New Construction) Pilot	22	Certified	1/31/2011
Residence Inn	3565 Chain Bridge Road	LEED-NC v2009	42	Certified	6/12/2012
Fairfax Marketplace	10944 Fairfax Boulevard	LEED-EB:OM v2009	40	Certified	4/30/2015
TD Bank - Fairfax Turnpike Shopping Center	Pickett Road and Main Street	LEED-NC Retail v2009	72	Gold	7/25/2012

Data Source: The Green Building Information Gateway (GBIG) (<http://www.gbigo.org/>). Data was provided to the City of Fairfax on 10/6/16.

*Data excludes confidential projects and LEED Neighborhood Development (ND) certifications

Solar installations

In recent years, the City has seen an increase in the number of solar energy installations (Figure 35). Increasing the use of renewable energy sources will benefit the resilience and economic competitiveness of our community. In 2017, the City of Fairfax received a “Bronze” designation from the national program SolSmart for encouraging solar energy growth and removing obstacles to solar development. Since 2014, the City has participated in the Solarize NOVA campaign, a yearly effort to encourage incorporation of solar power into individual homes and businesses in Fairfax and several peer jurisdictions. This is accomplished through incentives such as free solar assessments.

FIGURE 35 SOLAR ENERGY & SOLARIZE NOVA DATA



The Northern Virginia Solar Map is a web tool that homeowners and business owners can use to get an estimate for the potential size of a solar photovoltaic system that can be placed on the roof and the potential annual electricity savings.

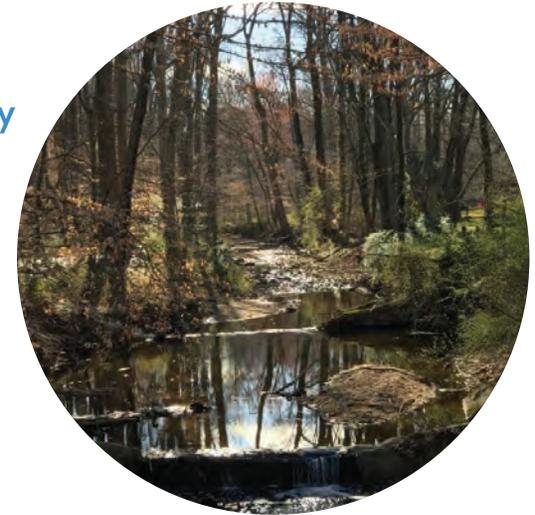
Source: Northern Virginia Regional Commission Solar Map
www.novasolarmap.com

Natural Environment

One of the characteristics of the City of Fairfax that makes it a desirable and healthy place to live is the extent, diversity and quality of its environmental resources. The City's main environmental resources include wetlands, ponds, streams, public parks, open space and urban forests. As the City continues to grow and redevelop, its environmental resources are at risk of being impaired. Growth and development often causes pollution to the water, air, and soil; degradation to ecosystems; and loss of natural areas that contribute to residents' quality of life. Continuing to preserve and restore our environmental resources ensures a healthy environment by providing access to clean air, clean water, healthy ecosystems, and high quality recreation areas. The City is also at risk from impacts caused by natural and man-made hazards. Reducing threats to the community and environment from these hazards will foster a safer and healthier community.

Guiding Principle:

In 2035, Fairfax is a city with... a healthy ecosystem of naturally flowing streams, native plants, wildlife, contiguous



Natural Environment Goal 1

Preserve, promote, and enhance a healthy environment.

The local environment will be preserved and protected through insightful policies and programs that improve the quality of the City’s natural resources. Managing the stormwater that runs off land surfaces is a fundamental practice to mitigate the adverse effects of urban development by reducing flow velocities and enhancing water quality. Several federal, state and local regulations and the City’s adoption of the Chesapeake Bay Preservation Ordinance are enacted to protect the region’s water resources.

The City has the opportunity to protect and increase the tree canopy by identifying the greatest challenges facing the urban forest (e.g. re-development, disease, etc) and developing and implementing an urban forest management plan that includes detailed strategies for attaining a diverse, well-managed urban forest.

OUTCOME NE1.1: Clean and protected water resources and watersheds in the City.

ACTION NE1.1.1 Reaffirm and implement the City’s Chesapeake Bay Preservation Plan (Appendix A) and zoning ordinance regulations.

ACTION NE1.1.2 Enhance zoning regulations and support initiatives that encourage the use of green stormwater infrastructure on private and public property.

ACTION NE1.1.3 Retain and acquire riparian areas as open space or parkland.

OUTCOME NE1.2: Clean, healthy air that supports plant, animal, aquatic and human life.

ACTION NE1.2.1 Develop and implement a Climate and Energy Action Plan to achieve regional greenhouse gas emissions reduction goals as committed to in the Greater Washington 2050 Compact.

ACTION NE1.2.2 Identify and implement strategies to reduce airborne pollutants known to cause health problems.

OUTCOME NE1.3: A diverse well-managed urban forest dominated by native species.

ACTION NE1.3.1 Develop and implement an urban forest management plan to protect the City’s urban forest and increase the quantity, density and diversity of trees on public and private land.

ACTION NE1.3.2 Support incentives, provide education, and partner with public and private groups to encourage native tree planting and preservation by private property owners.

ACTION NE1.3.3 Update zoning regulations and public facilities manual for tree preservation, removal and planting of preferred species for trees located along streets, parking lots and riparian areas.

OUTCOME NE1.4: A diverse population of native vegetation protected from invasive plants.

Natural Environment Goal 1

ACTION NE1.4.1 Develop a strategy to control invasive species including identifying and mapping areas impacted by invasive plant species.

ACTION NE1.4.2 Support the development of community and habitat gardens on underutilized parcels and public lands.

ACTION NE1.4.3 Provide education and partner with public and private groups to promote the preservation and planting of native plants, sustainable landscaping techniques and management of invasive plants.

OUTCOME NE1.5: Restored and preserved natural open spaces and contiguous greenway corridors that provide natural habitats for plants and wildlife.

ACTION NE1.5.1 Restore disturbed areas along streams and in conservation easements with native species.

ACTION NE1.5.2 Pursue opportunities to purchase and preserve in perpetuity privately-owned open space.

ACTION NE1.5.3 Encourage new development that protects and preserves environmentally sensitive areas and natural features, such as tree cover (especially significant stands of trees and healthy, mature trees), native vegetation, streams, wildlife habitat and natural topography.

Natural Environment Goal 2

Prepare for the impacts from natural and man-made hazards.

Extreme weather events such as prolonged heat, hurricanes, and flash flooding have contributed to negative health impacts, damaged homes and businesses, destroyed critical infrastructure, and interruptions in the region's economic activity. These types of weather events are projected to increase in frequency and magnitude. There is also a risk that the community could be exposed to a variety of pollutants and hazardous chemicals, which may have negative effects on human health and the environment. The city should take steps to prepare for and mitigate these hazards.

OUTCOME NE2.1: Reduced risk and improved preparedness to meet the challenges associated with natural and man-made hazards.

ACTION NE2.1.1 Participate in the National Flood Insurance Program's (NFIP) Community Rating System, a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements.

ACTION NE2.1.2 Understand the risks and develop a resiliency plan to set priorities and allocate resources to manage risks associated with natural and man-made hazards.

ACTION NE2.1.3 Continue to work with the Northern Virginia Hazard Mitigation Advisory Committee, to regularly update the Northern Virginia Hazard Mitigation Plan.

OUTCOME NE2.2: Reduced exposure to pollutants and hazardous chemicals in the environment.

ACTION NE2.2.1 Enhance exterior lighting standards and pursue certification as an International Dark Sky Community to reduce light pollution and protect nighttime skies.

ACTION NE2.2.2 Continue to enforce noise standards.

ACTION NE2.2.3 Promote the proper disposal or recycling of household hazardous waste.

ACTION NE2.2.4 Educate on the identification, risks and remediation of hazardous materials in buildings, including but not limited to radon, asbestos and volatile organic compounds.

ACTION NE2.2.5 Develop integrated pest management and nutrient management plans.

ACTION NE2.2.6 Promote the responsible use of pesticides and fertilizers.

Sustainability Initiatives

Sustainability can be defined in many ways. In relation to urban planning, sustainability is often defined as “development that meets the needs of the present without compromising the ability of future generations to meet their own needs” (World Commission on Environment and Development, 1987). The City of Fairfax has a responsibility to future generations to develop sustainably. In 2013, the City executed an energy performance contract to implement energy retrofits at fourteen City-owned buildings. The City pays back the up-front costs of the retrofits using the annual energy cost savings over time.

Sustainability issues extend well beyond City boundaries, so local decisions can impact the region and beyond. The City collaborates with regional partners, such as the Metropolitan Washington Council of Governments (MWCOC) and the Northern Virginia Regional Commission (NVRC) in formulating solutions to sustainability challenges and taking actions to achieve regional goals. In 2010, the Mayor and City Council adopted a resolution endorsing the voluntary Greater Washington 2050 Compact, in which the City committed to following the principles and goals set within The Region Forward report, a vision for a more accessible, sustainable, prosperous, and livable metropolitan Washington.

Guiding Principle:

In 2035, Fairfax is a city with...
sustainable practices that
preserve, conserve, use and
recycle resources.



Sustainability Initiatives Goal 1

Increase the use of sustainable practices, technology, design and materials.

This City should seize the opportunity to promote energy efficient and sustainable redevelopments and retrofits of aging buildings while also encouraging designs that fit within the context of the existing community. This can involve incentives for privately owned buildings as well as City investment in public facilities. Education about financing options (such as the Fairfax Renaissance Housing Corporation loans) should be provided to property owners. By improving energy efficiency and sustainable design of civic operations and in the greater community, the City will harmonize resources, investments and technology, help reduce utility costs, support “Green Collar” jobs, and institutionalize change.

OUTCOME SI1.1: Minimized energy demand with the application of energy efficient design features, technologies and best practices.

ACTION SI1.1.1 Promote the efficient use of energy by residents, business owners, and government facilities and operations to achieve a 30% reduction in energy use from 2018 baseline levels by 2035; a 40% reduction from 2018 baseline levels by 2040; and a 55% reduction from 2018 baseline levels by 2050.

SI1.1.1.1 Use a data-driven assessment process to deploy energy efficiency technologies throughout all government facilities and operations and promote energy efficiency best practices among government employees.

SI1.1.1.2 Support incentives, provide education and partner with public and private groups to promote energy efficiency and sustainability improvements by private property owners.

SI1.1.1.3 Promote voluntary benchmarking for commercial buildings.

SI1.1.1.4 Implement programs that offer clean energy financing solutions for residential and commercial sectors.

ACTION SI1.1.2 Develop a green building policy that establishes green building standards and incentives for both private and public sector construction and major renovations.

OUTCOME SI1.2: Increased use of renewable energy sources and advanced sustainable technologies.

ACTION SI1.2.1 Develop a plan for government operations to achieve 100% renewable electricity by 2035 and community-wide 100% renewable electricity by 2050.

ACTION SI1.2.2 Revise applicable codes, zoning ordinances, policies and design guidelines to help facilitate local renewable energy deployment and adoption of sustainable technologies.

ACTION SI1.2.3 Provide education and incentives for residents and businesses to install renewable energy systems and sustainable technologies.

ACTION SI1.2.4 Partner with other local governments, organizations and individuals on renewable energy planning and implementation.

Sustainability Initiatives Goal 1

OUTCOME SI1.3: Reduced waste and increased reuse and recycling of materials.

ACTION SI1.3.1 Implement the Solid Waste Management Plan, which establishes waste reduction goals and outlines how the City manages solid waste and recycling.

OUTCOME SI1.4: Minimized potable water demand in the community.

ACTION SI1.4.1 Develop and provide water conservation education and incentive programs for residents and businesses to promote the use of water efficient practices and products.

ACTION SI1.4.2 Support incentives and revise applicable codes, policies and design guidelines to encourage water efficiency in new construction and landscaping.

Sustainability Initiatives Goal 2

Support physical activity and healthy lifestyles.

Since the City is mostly built out and infrastructure is already in place, it is an ideal location to provide access to healthy food, community facilities and recreational opportunities. Smart growth concepts should be incorporated in new development and redevelopment to further enhance the ability of residents to take advantage of public transportation, parks, open space and trails. The City also strives to improve access to healthy, affordable, and regionally grown foods to promote public health, reduce environmental impacts and support economic development (Figure 36).

OUTCOME SI2.1: Access to healthy, regionally-grown foods.

ACTION SI2.1.1 Evaluate regulations that permit urban agriculture on publicly owned property and/or space for onsite community gardens in new multifamily and mixed-use developments.

ACTION SI2.1.2 Work with Fairfax County to develop a healthy food access plan.

OUTCOME SI2.2: Access to parks, recreation, community facilities, trails and open space.

ACTION SI2.2.1 Promote walking and trail use as part of a healthy community initiative.

ACTION SI2.2.2 Partner with Fairfax County and NOVA Parks to improve and expand the local and regional park system.

FIGURE 36 FULL SERVICE GROCERY STORES, FARMERS MARKETS AND COMMUNITY GARDENS



*Approved but not yet constructed at the time of adoption of this plan

5 Economic Vitality

Guiding Principle:

In 2035, Fairfax is a city with... an economy that cultivates and promotes business success and entrepreneurial opportunities for large, small and independent businesses and capitalizes on national, regional and intellectual partnerships.

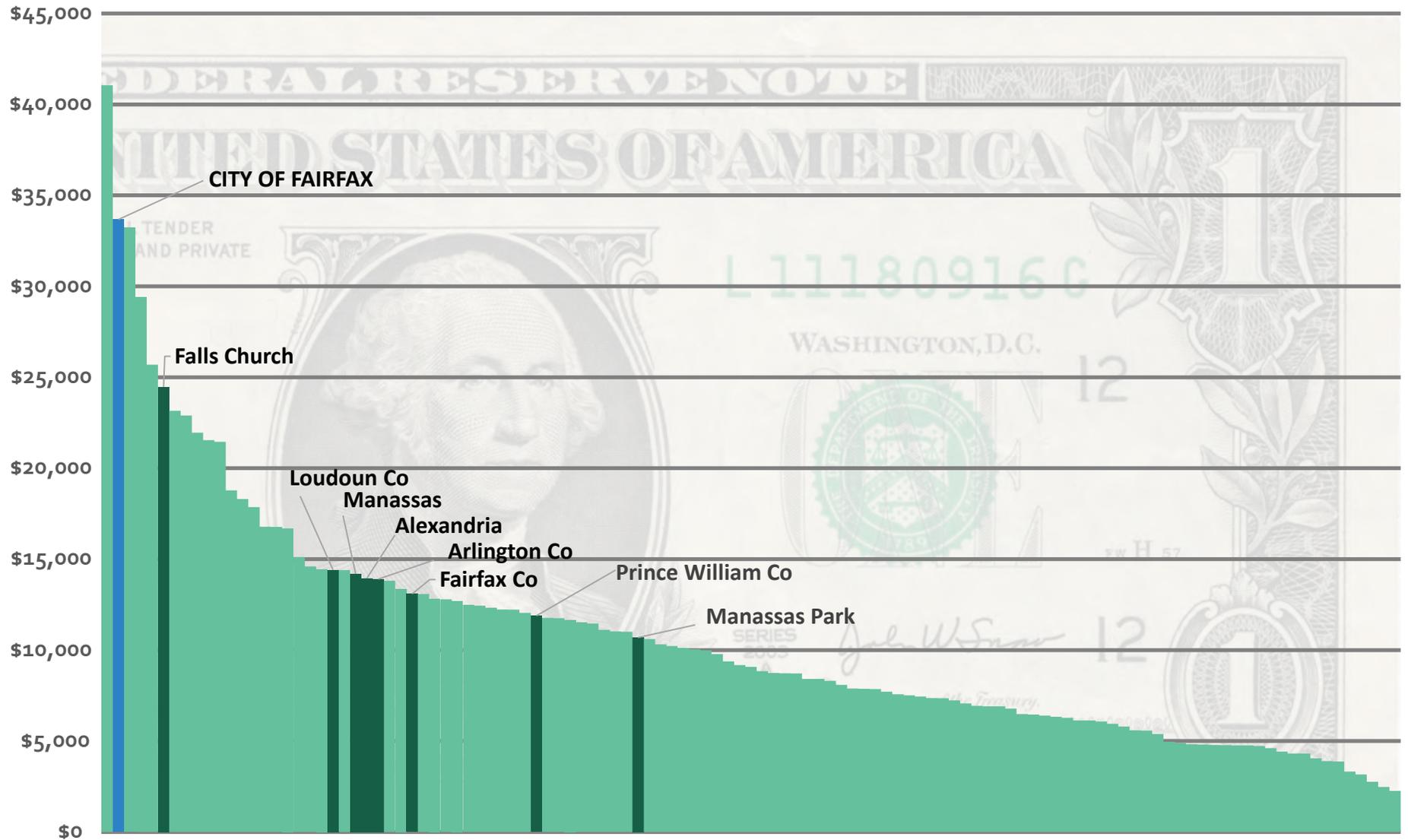


The City of Fairfax has long been a hub for economic activity within Northern Virginia. Due to its central location, proximity to regional destinations such as George Mason University, the Fairfax Courts Complex and INOVA Fairfax Hospital, and its setting among transportation crossroads, the City has traditionally boasted a larger proportional share of the region's office and retail activity than its relatively small size and population would suggest. This longstanding concentration of economic activity still holds true, with the City achieving the second-highest amount of retail sales per capita of any Virginia jurisdiction (as shown in Figure 37), and a regional share of office space nearly 5 times the City's share of Northern Virginia's land area.

This cluster of economic vitality provides Fairfax with many benefits, such as a diversified revenue stream that enables the City to rely less on residential tax revenue than do most nearby jurisdictions. Furthermore, a high concentration of office and retail activity enables City residents to have varied employment and shopping opportunities relatively close to home.

Throughout the Comprehensive Planning process, sustaining this historical advantage has emerged as a priority. However, ensuring that the City remains as an economic hub for the region requires both a commitment to maintaining existing commercial infrastructure and positioning the City to be at the forefront of emerging marketplace trends.

FIGURE 37 TAXABLE SALES PER CAPITA, 2016 FOR VIRGINIA JURISDICTIONS WITH POPULATION OVER 10,000



Source: Virginia Department of Taxation

Opportunities and Challenges

Shifts in the office market

While the City has seen significant increases in office vacancies over the past decade, this trend is present in Fairfax County and Northern Virginia as well. In fact, the City has generally kept a lower office vacancy rate than the region as a whole. With previous regional overbuilding, increases in teleworking and more efficient office space utilization, however, an overall downward trend in office demand is expected to continue for the foreseeable future. The 2013 Fairfax Boulevard Market Analysis only forecasted a net absorption of fifty thousand square feet of office space along the corridor over the 10-year study period.

The City office market, while large in size, is overwhelmingly comprised of Class B structures that offer few modern amenities. Given the increasing interdependence and fluidity of Northern Virginia's office market, this can make office space in the City less competitive and less desirable to prospective tenants than Class A office space in surrounding areas.

FIGURE 38 OFFICE VACANCY RATE

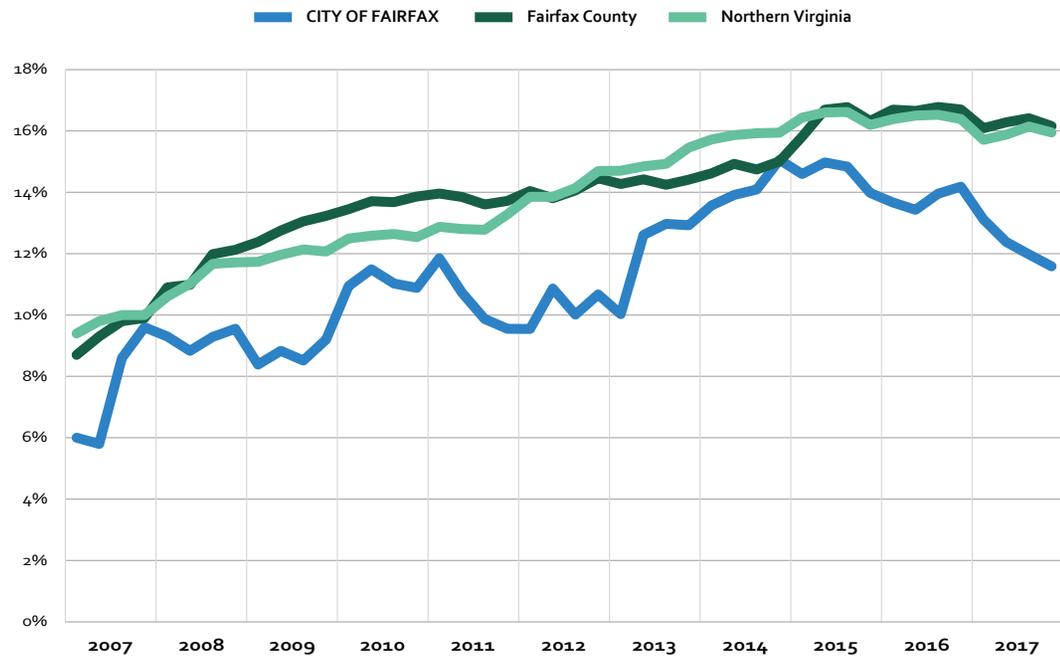


FIGURE 39 OFFICE MARKET BY CLASS, 2017



Source: CoStar, Dec 2017

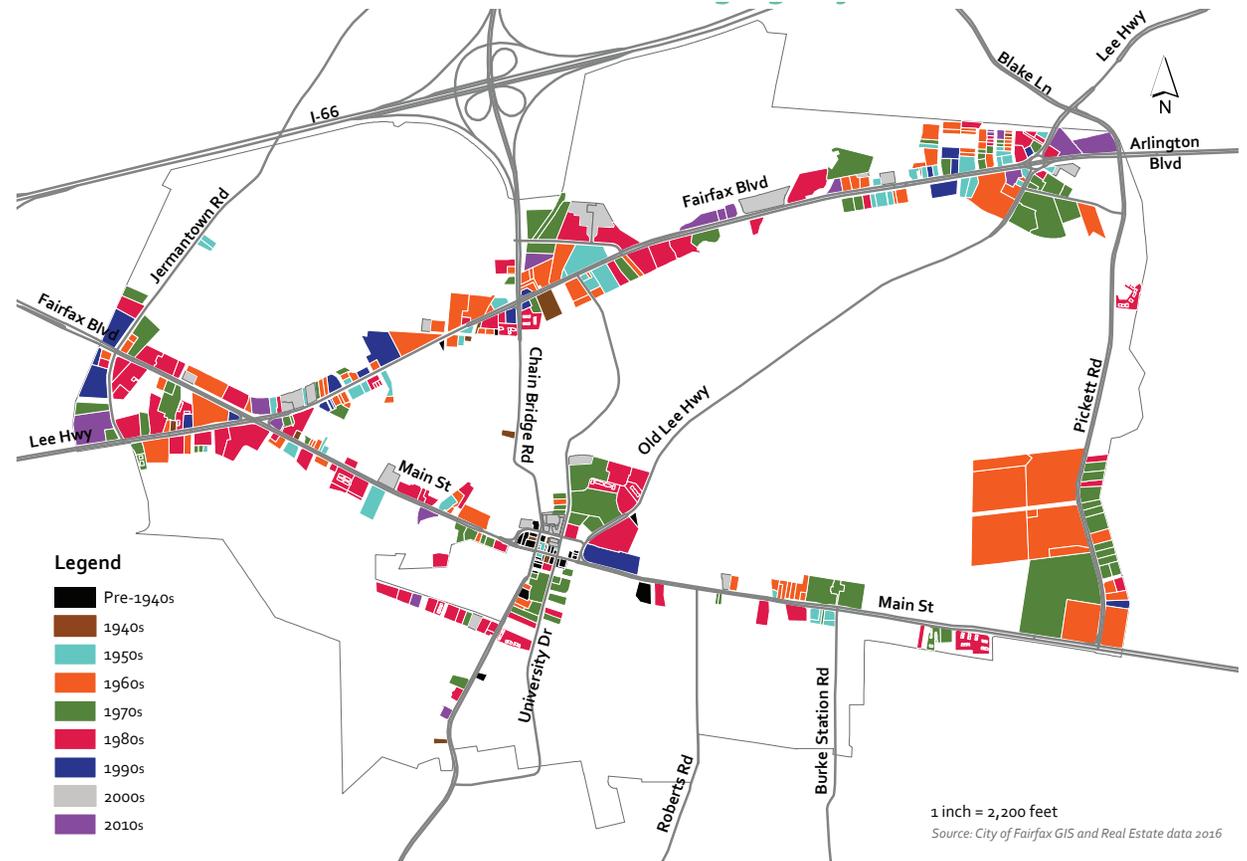
Shifts in the retail market

With consumers gravitating to online purchases and larger format retailers, demand for retail space has been decreasing region wide in recent years. This has been especially true for older retail spaces that lack modern design requirements. The reduction in demand for traditional retail has been partially offset by increases in demands for food and drink and service type establishments.

These trends have combined to create vigorous regional competition for high-value retailers. As shown in Figure 6 (p. 15), numerous mixed use centers have been built, or are being planned, within 10 miles of Fairfax. All of these centers use retail as a linchpin to their fiscal success. In order to thrive in this competitive and interdependent retail market, the City of Fairfax must both be mindful of the pragmatic limits of regional retail demand, and must also offer high-quality retail spaces for prospective tenants.

With the vast majority of Fairfax's existing commercial space constructed in the 1960s and 1970s, ensuring that both area consumers and retailers have updated commercial space will greatly enhance the City's retail sector's appeal in this increasingly competitive retail marketplace.

FIGURE 40 COMMERCIAL AND INDUSTRIAL BUILDING AGE BY DECADE BUILT



Economic Vitality Goal 1

Increase the City's ratio of commercial to residential real estate.

Commercial properties tend to contribute more to the tax base than they consume in public expenditures because of relatively high real estate values and lower dependence on public services. The City of Fairfax has historically benefited from having a high ratio of commercial to residential development, resulting in a lesser tax burden on residences. As commercial properties have aged and new commercial development has slowed, this ratio has begun to shift. The City can offset this shift by supporting measures to increase values of existing commercial properties and encouraging new commercial development, so that the value of nonresidential properties continues to comprise a greater proportion of the City's taxable properties.

OUTCOME EV1.1: New development and redevelopment that maximize revenue generation from non-residential buildings and uses.

ACTION EV1.1.1 Attract new commercial businesses while supporting and retaining existing businesses.

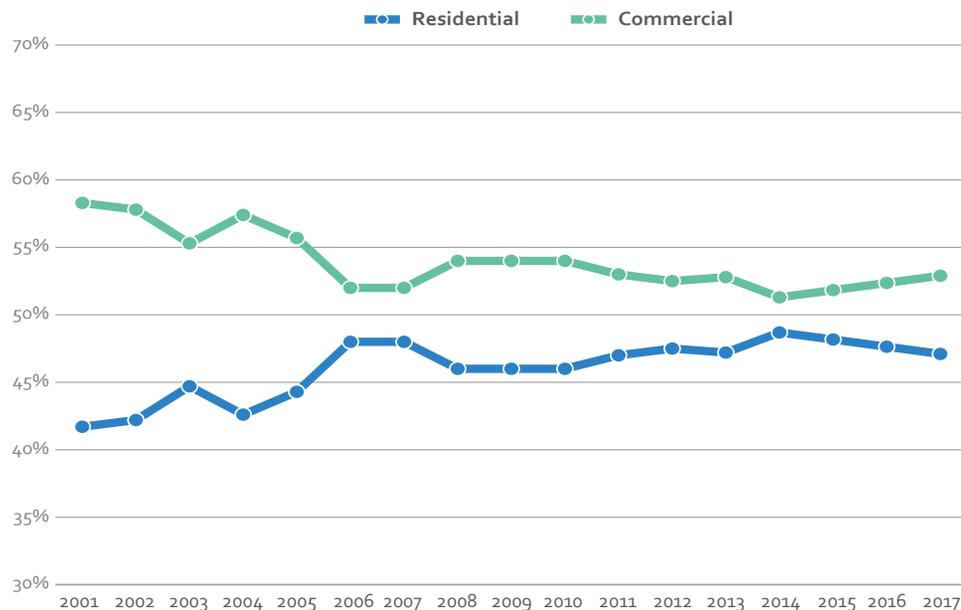
ACTION EV1.1.2 Leverage proximity to George Mason University to attract university spin-outs and startups.

ACTION EV1.1.3 Capitalize on proximity to Inova Fairfax Hospital to attract health and wellness-related businesses.

ACTION EV1.1.4 Pursue technology-based and creative businesses to locate in the City.

ACTION EV1.1.5 Pursue corporate headquarters to locate in the City.

FIGURE 41 ESTIMATED REVENUES GENERATED BY COMMERCIAL AND RESIDENTIAL SECTORS



NOTE: 2001-2014 data from City budgets. 2015-2017 data estimated based on revenue allocation assumptions from the City of Fairfax Finance and Accounting Department.

Source: City of Fairfax Budget.

Economic Vitality

Goal 2

Support diversification of the retail, service and office sectors.

While the City has strong current levels of retail and restaurant sales, some critical sectors are under-represented in Fairfax’s current retail inventory, as shown in Figure 42. This lack of retail diversity – coupled with an inventory of buildings heavily composed of 1960s-70s structures – points to a potential loss of market share to nearby retail areas that are more reflective of current tastes and consumer demand. With a high percentage of Class B office space, the office market in the City may also be less competitive than surrounding office development in the County. The City will strive to support existing and attract new businesses that fill market or growth opportunities and support an improved office space inventory.

OUTCOME EV2.1: The retail and service sectors more effectively compete with other regional commercial sectors resulting in increased desirability as a destination.

ACTION EV2.1.1 Attract new retail and service businesses representing sectors that have the ability to become regional destinations.

ACTION EV2.1.2 Create new commercial areas that contain the amenities and atmosphere necessary to attract top-tier commercial tenants.

OUTCOME EV2.2: An improved office space inventory which attracts high-value tenants.

ACTION EV2.2.1 Work with owners and operators of existing office buildings to encourage property renovations and upgrades needed to bring properties to Class A status.

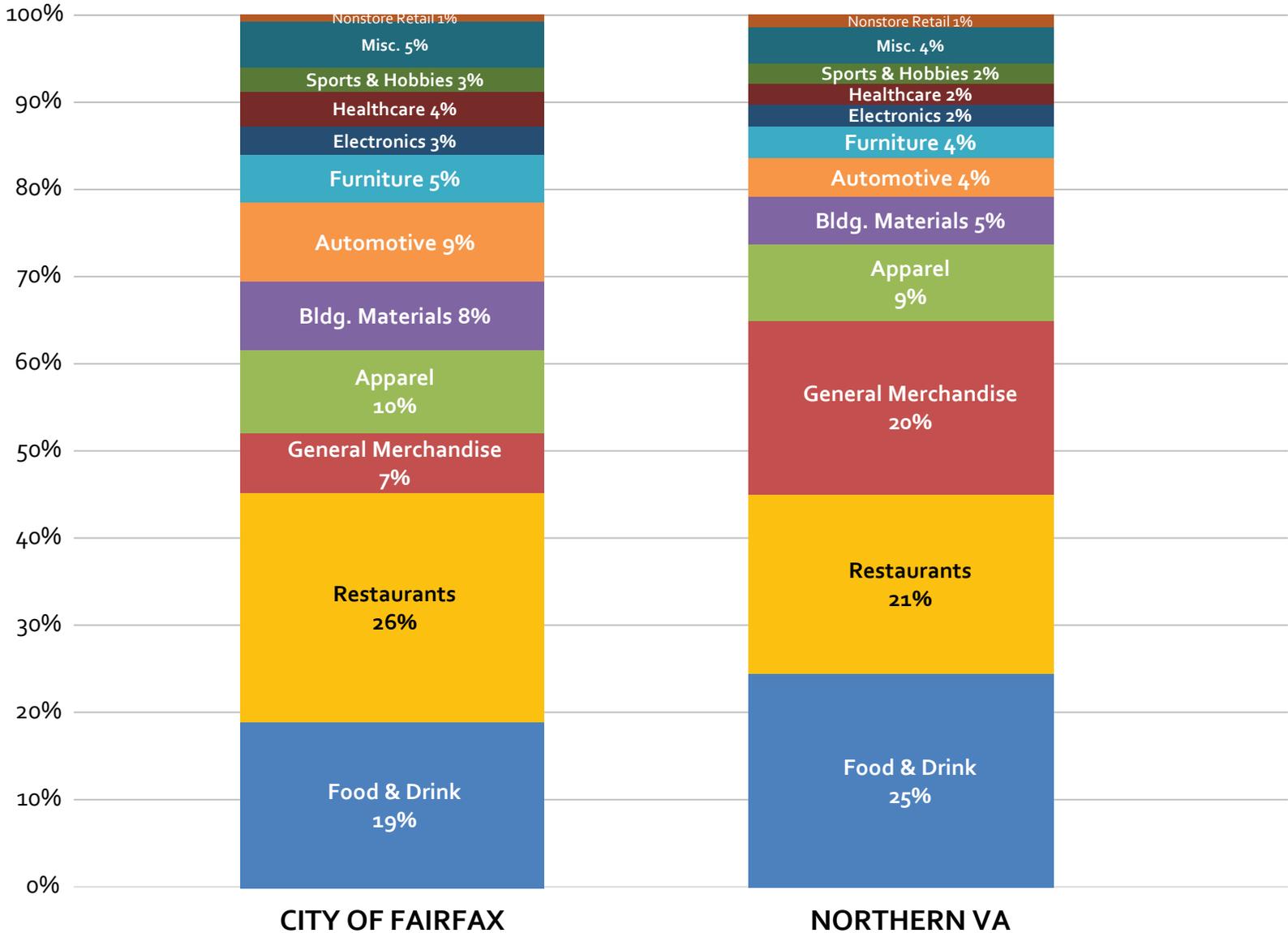
ACTION EV2.2.2 Encourage the provision of Class A office space in new commercial development projects and renovations.

OUTCOME EV2.3: A strong relationship with George Mason University is leveraged to support new development and investment that capitalizes on the needs of the University and supports the Comprehensive Plan Vision for the City.

ACTION EV2.3.1 Use the newly-created position of MEC Business Incubator Director to graduate a consistent pipeline of at least one tenant per year to a permanent location within the City of Fairfax.

ACTION EV2.3.2 Explore the establishment of a local development corporation or other formal partnership between The City and George Mason University.

FIGURE 42 PERCENTAGE OF TAXABLE RETAIL SALES BY STORE CLASSIFICATION



Source: Virginia Department of Taxation

Economic Vitality

Goal 3

Transform the commercial corridors and activity centers.

Being within the economically robust Northern Virginia region presents great opportunity for the City to leverage its many advantages to create and strengthen further economic vitality. The City's varied commercial corridors and downtown area provide excellent opportunities to capitalize on the region's growing economy, and to continue being an economic hub for future generations. The City will strive to transform these areas into distinctive regional destinations that can compete effectively with other development and mixed-use centers in Northern Virginia.

OUTCOME EV3.1: Redevelopment projects in the commercial corridors and activity centers create destinations that attract tenants, customers and residents.

ACTION EV3.1.1 Develop a branding and marking strategy for individual activity centers.

ACTION EV3.1.2 Create a commercial targeting strategy to focus the City's efforts on attracting businesses that would have the greatest impact in competing with other regional commercial sectors.

ACTION EV3.1.3 Prepare conceptual designs for the local activity centers and present in dynamic marketing materials that clearly demonstrate the desired mix of uses, residential density, building intensity, design aesthetic, multimodal connections and parking.

Economic Vitality Goal 4

Create a single ZIP Code for the City.

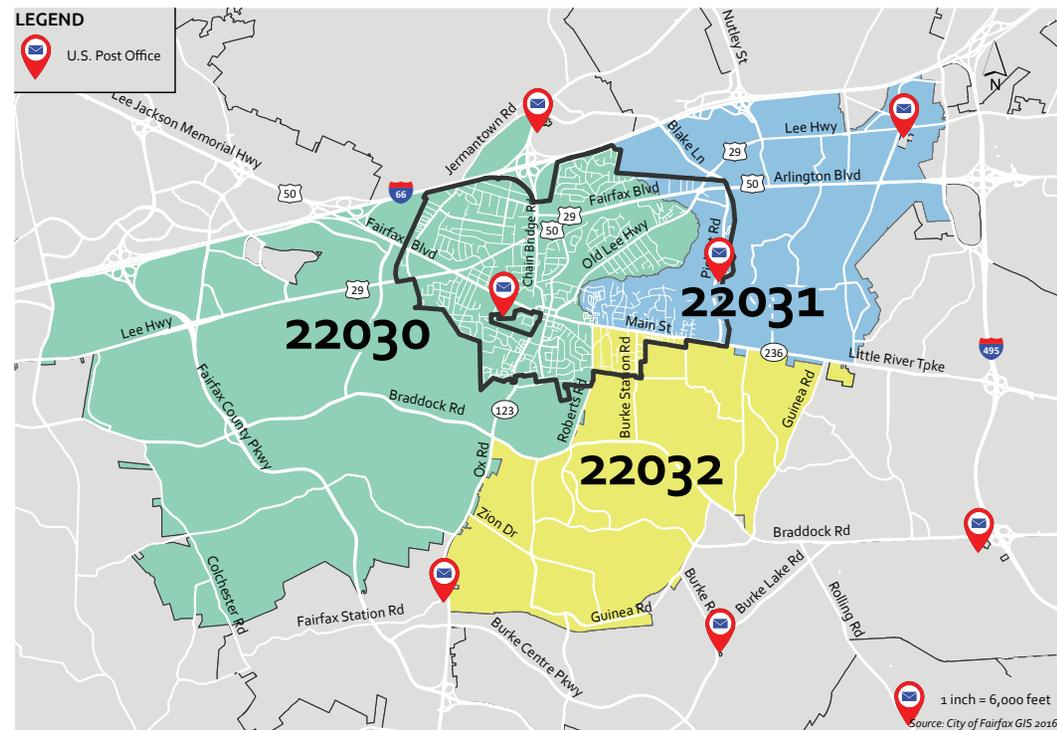
The City of Fairfax currently contains portions of three Zip Codes, all of which contain large portions of Fairfax County in addition to City addresses. This creates a complicated web of addresses, which leads to confusion among residents and businesses regarding which areas are located within the City or County. Significantly, this has also led to difficulties in revenue collection, since some businesses have reported their addresses in the incorrect jurisdiction – and with e-commerce based revenue becoming more common, this may become a more noteworthy problem in the future. Creating a common Zip Code for City addresses mitigates these revenue-related problems with an exclusive way of identifying City addresses and allowing business revenue to be more accurately collected. This would also serve a unifying function to easily distinguish the City from the surrounding portions of Fairfax County in terms of economic competitiveness.

OUTCOME EV4.1: The U.S. Postal Service designates a ZIP Code that is unique to addresses within Fairfax’s city limits.

ACTION EV4.1.1 Conduct a cost-benefit analysis.

ACTION EV4.1.2 Request a Zip Code Boundary Review from the U.S. Post Office.

FIGURE 43 CITY OF FAIRFAX ZIP CODES



6 Community Services

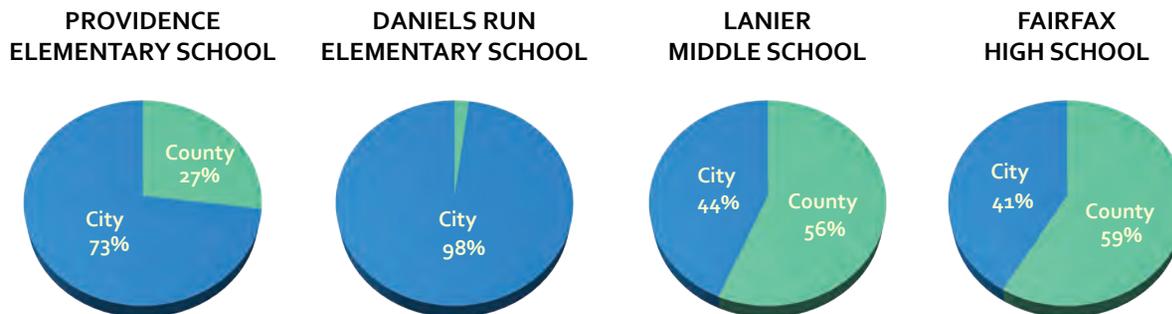
One of the most crucial elements in the long term desirability of the City is maintaining and improving the high-quality services that residents and businesses have come to expect. This Chapter examines health, safety and welfare issues for which the City provides or facilitates services to its citizens, businesses and visitors. As an independent jurisdiction, Fairfax emphasizes providing quality public facilities and services. Public facilities are the institutions and land intended for the community's general use and benefit. Some of the primary services provided by the City, that are addressed in this Chapter, are Education, Parks and Recreation, Cultural Arts, Public Safety, and Utilities and Infrastructure as described below.

Education

Over 3,100 children who are City residents are enrolled in Fairfax County Public Schools (FCPS), with the vast majority of those students attending one of Fairfax's four schools. Through a Shared Services Agreement with FCPS, the City's School Board manages the school buildings, while FCPS hires staff and develops curriculum. The agreement also accommodates students from Fairfax County in the City school facilities where capacity allows. The percentage of City and County students who attend each of the City's four public schools is provided below.

There are also four private schools currently located in the City. Paul VI Catholic High School serves grades 9-12 with just over 1,000 students currently enrolled. A new location for this school is under construction outside the City, and the current location is anticipated to close once the new location is operable. Saint Leo the Great Catholic School serves grades Pre-K-8 with a current enrollment of 410 students. The New School of Northern Virginia is private liberal arts and science school serving grades 6-12 with a current enrollment of approximately 150 students. Saint Anthony Academy serves grades K-12 with a current enrollment of over 30 students [add to map]. All public and private schools currently located in the City are shown in Figure 45.

FIGURE 44 SCHOOL ENROLLMENT BY STUDENTS' PLACE OF RESIDENCE



The City is also surrounded by several higher education facilities. George Mason University's Fairfax Campus began with 356 students in 1964, after the completion of construction of the first four buildings. Today, 21,442 full-time equivalent students come to the Fairfax Campus, which includes 80% of the

enrollment of all Mason's campuses. The Annandale campus of Northern Virginia Community College was opened in 1967 and is now the largest of all the NOVA campuses. The 2014-2015 enrollment for all campuses was 34,586 full-time equivalent students. Virginia International University was founded in 1988 and had 1,876 students enrolled in the July 2015 - June 2016 semester. Ivy Christian College was founded in March 2006 and received accreditation in May 2014. The reported enrollment for 2013 was 319 students. Osher Lifelong Learning Institute (OLLI) offers classes to Northern Virginia residents in their retirement years.

FIGURE 45 PUBLIC AND PRIVATE SCHOOLS, K-12

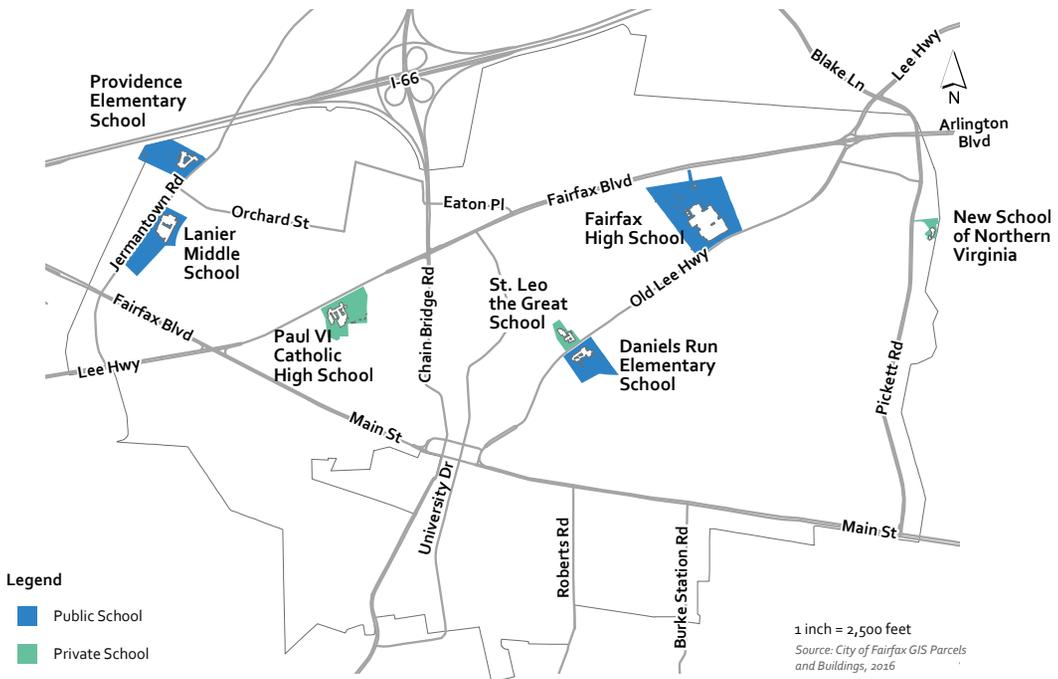


FIGURE 46 LOCAL HIGHER EDUCATION AND LIFELONG LEARNING



Parks and Recreation

A diverse network of public parks and open space areas, including recreation fields, natural areas, informal open spaces and a trail system is provided throughout the City. Containing approximately 200 acres of land, the City's parks fall into four categories: regional parks, community parks, neighborhood parks and vest pocket parks as shown in Figure 47. Most trails in the City are multipurpose recreational trails serving the needs of pedestrians, joggers and bicyclists.

FIGURE 47 OPEN SPACE AND PARKS BY TYPE

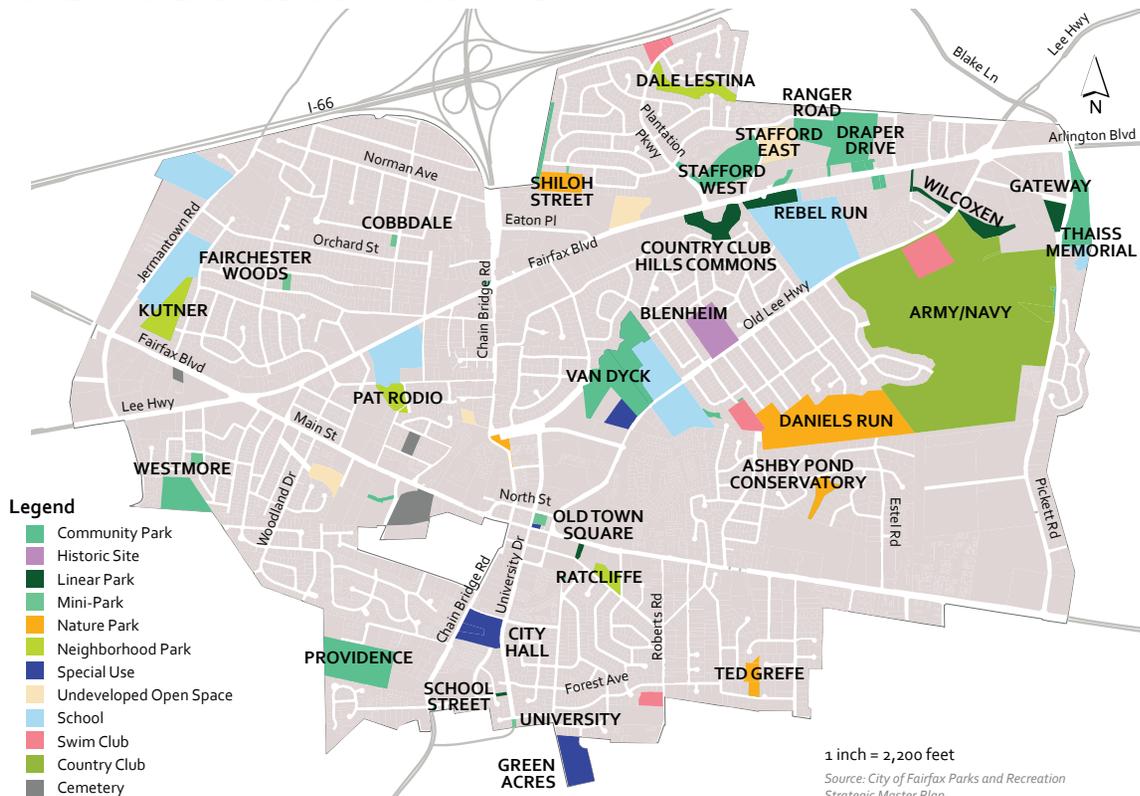
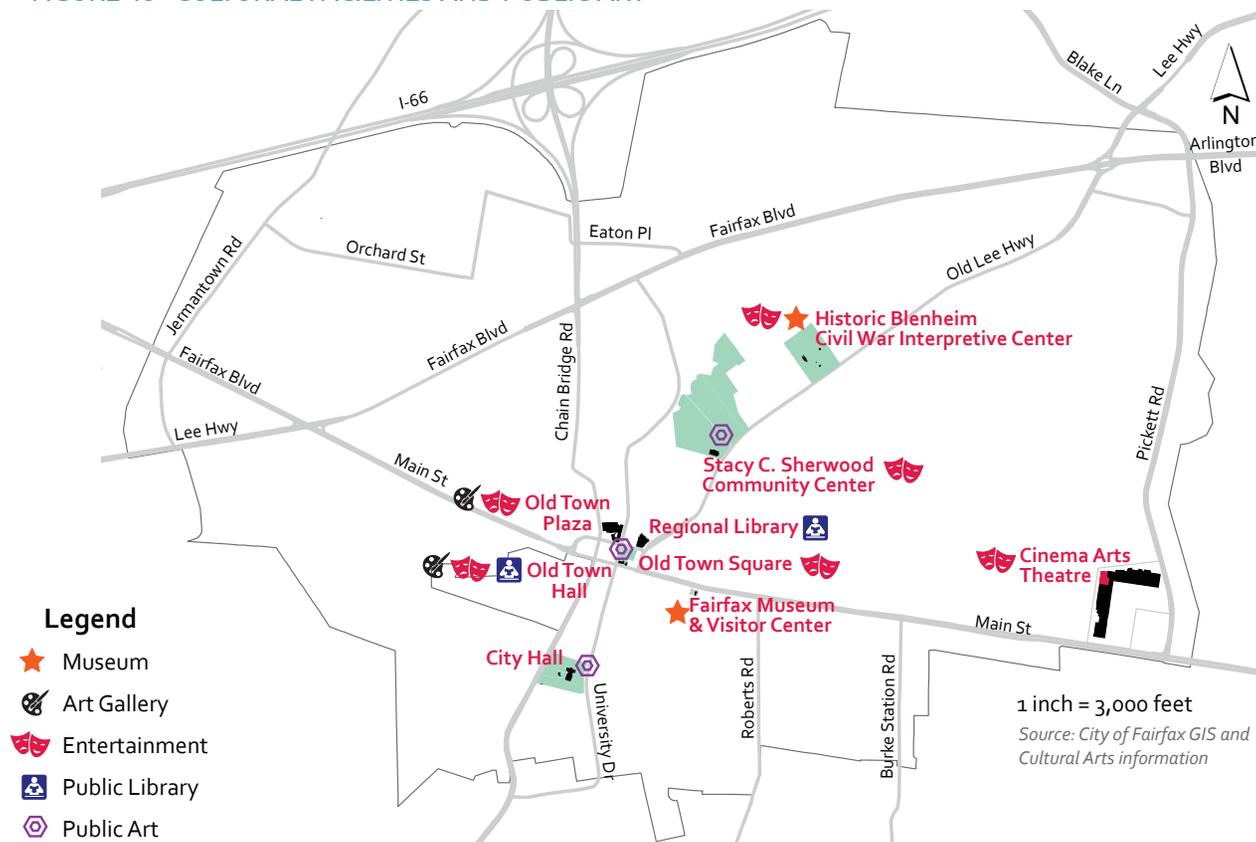




FIGURE 48 CULTURAL FACILITIES AND PUBLIC ART



Cultural Arts

The City’s cultural arts activities and special events draw people to the City and contribute to the unique sense of place and small town character, offering distinctive venues to unite members of the community. Currently, public art and cultural facilities are focused mainly in and around Old Town as shown in Figure 48. The City has a museum, art galleries, and other performance venues, however, there is a lack of performing arts venues for theater and other performance groups.

Police

The Police Department, the City's primary law enforcement agency, is responsible for protecting life and property, preventing crime, detecting and apprehending criminal suspects, and maintaining order. The ability to anticipate, prevent and manage crime; minimize threats to property; and minimize damage from environmental hazards all contribute to public safety.



Fire

The Fire Department furnishes fire suppression, rescue, emergency medical services and emergency medical transportation both within the City and in an approximately 14-square mile area of Fairfax County. In return, Fairfax County provides a computer-aided dispatch (CAD) service for all fire and rescue vehicles as well as "first due" engines and rescue response in the areas along Pickett Road near the tank farm and along Jermantown Road near the schools, as well as backup response in the remainder of the City.



Emergency Management

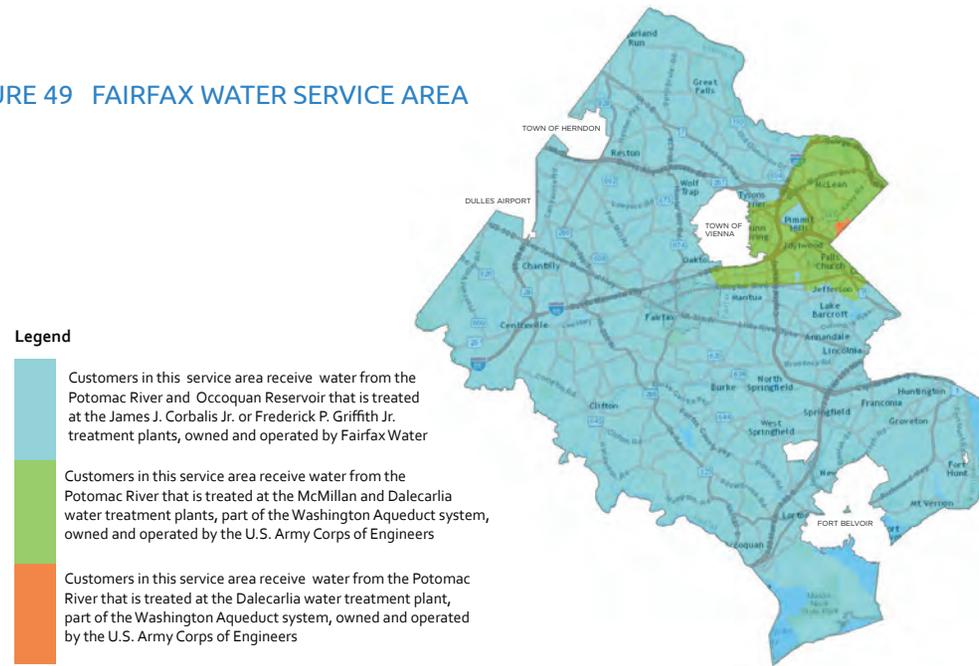
The Office of Emergency Management (OEM) acts as liaison to all emergency response agencies, monitors for and alerts of any impending natural or man-made safety issues and develops training schedules for emergency personnel. OEM also ensures that safety documents are kept current, such as the state mandated Comprehensive Emergency Management Plan and the Northern Virginia Hazard Mitigation Plan.

Utilities

The City of Fairfax sold its water system to Fairfax Water on January 2, 2014. Since that sale, Fairfax Water has been providing water services to the City as shown in Figure 49. The City operates its own wastewater collection system as shown in Figure 50. Wastewater originating in the City's wastewater system is treated by Fairfax County at its Noman M. Cole, Jr., Pollution Control Plant by a contractual agreement that provides a guaranteed treatment capacity for the City. The City manages, maintains and repairs its stormwater system, which consists of approximately 60 miles of storm drain pipe and 3,650 storm sewer structures throughout the City.

The City does not own or operate any electric, telephone or cable utilities. It does, however, own the rights-of-way where transmission lines are located. Approximately 67 miles of City streets contain utility poles supporting overhead electric, telephone, and cable television wires.

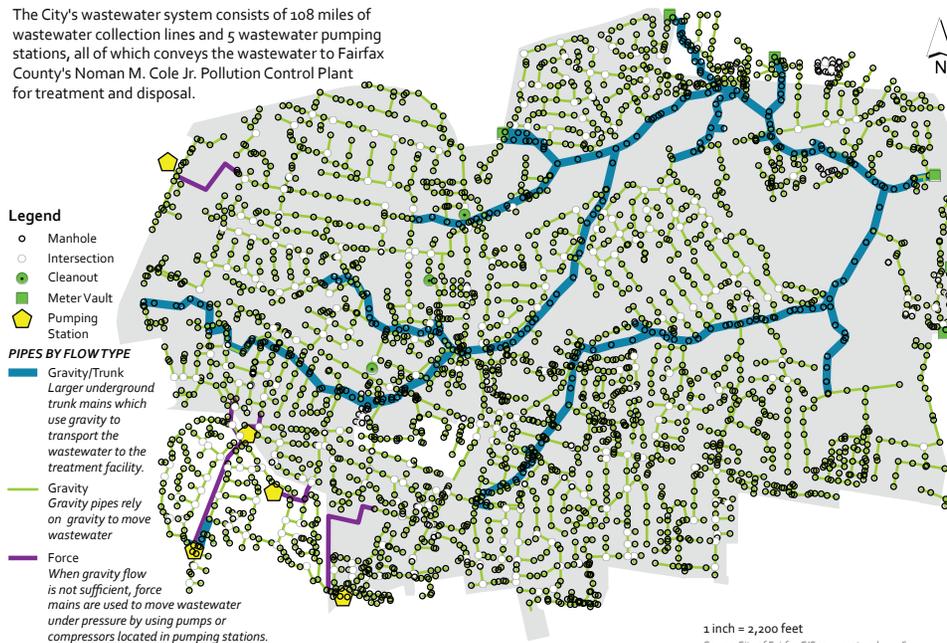
FIGURE 49 FAIRFAX WATER SERVICE AREA



Source: Fairfax Water 2016 Annual Water Quality Report

FIGURE 50 WASTEWATER COLLECTION SYSTEM

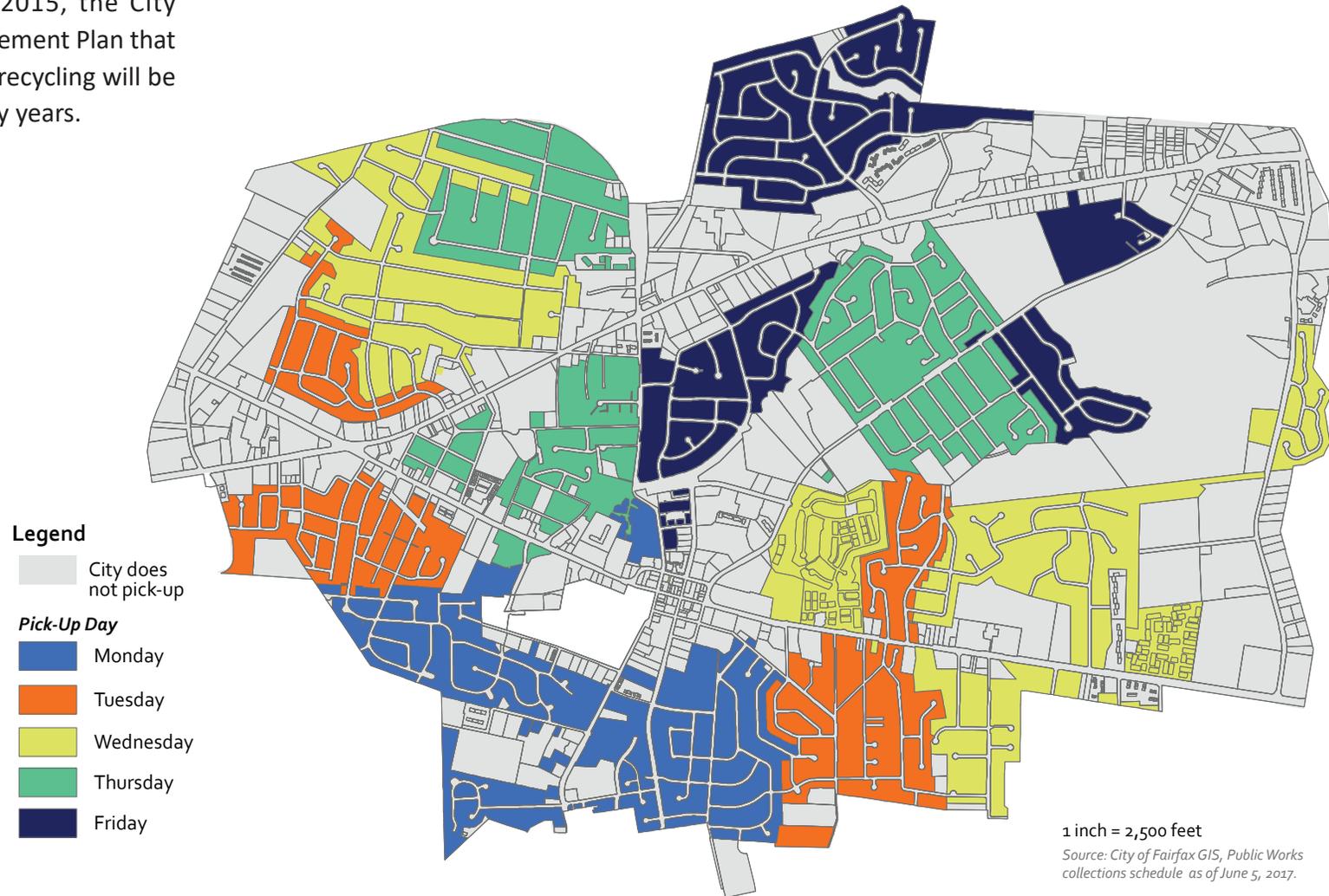
The City's wastewater system consists of 108 miles of wastewater collection lines and 5 wastewater pumping stations, all of which conveys the wastewater to Fairfax County's Noman M. Cole Jr. Pollution Control Plant for treatment and disposal.



1 inch = 2,200 feet
Source: City of Fairfax GIS sewer network 2016

The City provides weekly refuse and recycling collection for residents in detached homes, duplexes and townhouses. Curbside collection service is shown in Figure 51. City businesses and multifamily complexes use private refuse and recycling services. In 2015, the City adopted a Solid Waste Management Plan that outlines how solid waste and recycling will be managed over the next twenty years.

FIGURE 51 RESIDENTIAL REFUSE AND RECYCLING CURBSIDE COLLECTION



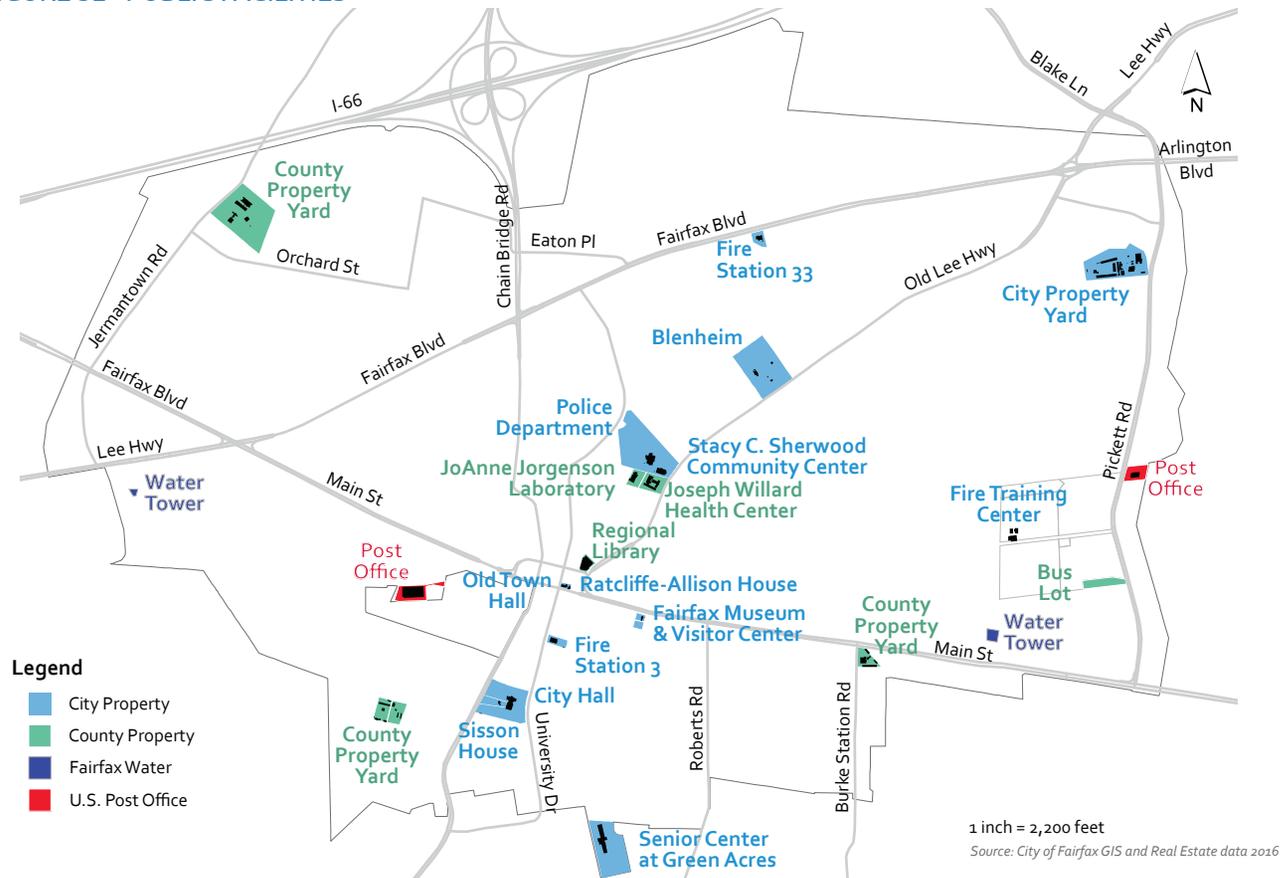
Opportunities and Challenges

Ongoing maintenance of public facilities FIGURE 52 PUBLIC FACILITIES

Public facility locations are shown in Figure 52. Several of these facilities in the City are historic structures that have withstood years of service. Ensuring that community services and facilities are phased with changing demand is a major growth management component, since the quality of public facilities contributes to the City's quality of life.

Service agreements

The relatively small size of the City makes provisions for some public services inefficient. The City provides many services to its citizens through contractual agreements with Fairfax County and regional agencies. This provides for more efficient service delivery while allowing the City to retain some control. Aside from the School Services Agreement with Fairfax County Public Schools, City residents may use any of eight regional and fourteen community libraries that compose the County library system. Fairfax County also provides health and human services assistance, including environmental health, communicable disease programs and public health services.



Growth and development

Population growth and new development can impact demands on public facilities and services. Demands, however, can be monitored to ensure that the resulting impacts are realized in advance and factored into the decision-making process for accommodating new development.

Education

Between Fairfax’s public schools, its proximity to higher education institutions, and its accessibility to lifelong learning offerings, education factors heavily into the City’s quality of life. The City of Fairfax School Board maintains its own Strategic Plan and is responsible for the School Services Agreement with Fairfax County Public Schools, through which the City is able to ensure outstanding facilities and instructional accommodations for the 3,100 public school students who reside within City limits. As the City grows, both the City government and the School Board should continue to prioritize educational services in order to provide the highest possible levels of service for the future needs of the City’s school-aged population.



Guiding Principle:

In 2035, Fairfax is a city with... world-class community schools and a best-in-class education from pre-school to post high school that prepares students to be productive, responsible members of society, capable of competing in the global economy



Education Goal 1

Ensure the City's public education needs are met.

The shared services agreement with Fairfax County Public Schools has provided outstanding instructional programs for City students, combined with an impressive amount of local control. Excellent public education is not just a priority for current residents, but is also an investment in the City's future, and City policies should continue to ensure that educational opportunities are prioritized for future generations. The City will strive to provide excellent instructional services and superior facilities, geared to the needs of our evolving and diverse population.

OUTCOME E1.1: The School Services Agreement with Fairfax County Public Schools, guided by the City of Fairfax School Board, continues to provide City students with the highest quality education.

ACTION E1.1.1 Continue to follow the established guidelines of the School Services Agreement and to monitor its implementation.

OUTCOME E1.2: Public school facilities and grounds meet the current and future needs of the school-aged population.

ACTION E1.2.1 Continue cooperation between City government and School Board to assess and plan for impacts from future residential development.

ACTION E1.2.2 Continue to examine potential need for additional school facilities and the best use for the School Board's Deed of Covenant on Green Acres.

ACTION E1.2.2 Continue to ensure a safe learning environment, proper program capacities and the availability of the latest technology and functional accommodations.



Education Goal 2

Ensure access to educational and training opportunities for all generations.

City residents place a high priority on education at all stages of life – from early childhood education up to continuing education and adult lifelong learning. Prioritizing the continued growth and development of the City’s educational offerings and linkages by collaborating with local education providers and institutions will help enhance the City’s livability for future generations.

OUTCOME E2.1: All children will be well prepared to begin elementary school.

ACTION E2.1.1 Continue to promote Pre-K instructional opportunities for all City Pre-K children.

ACTION E2.1.2 Increase access to early childhood literacy and after school care at the City’s community facilities, City of Fairfax Regional Library and other institutions.

OUTCOME E2.2: The City’s residents will have access to facilities and programs that foster an informed community.

ACTION E2.2.1 Maintain access to the City’s community facilities, City of Fairfax Regional Library and other institutions for ongoing dialogue in educational events and discussions.

ACTION E2.2.2 Continue to provide residents and businesses with access to timely information on city government programs and initiatives via the monthly Cityscene newsletter, Cityscreen-12 television station, city’s website and email alerts.

OUTCOME E2.3: Partnerships and community resources provide opportunities for training and continuing education.

ACTION E2.3.1 Continue to foster good relations with nearby education providers such as George Mason University and Osher Lifelong Learning Institute (OLLI).

Parks and Recreation

Recreation and open space make an essential contribution to a healthier population and a greener city. They are integral to the City's quality of life and provide beauty, respite, and opportunity to enjoy the outdoors. In addition, City staff takes pride in providing quality experiences for the community through services and programs that enrich people's lives and contribute to total development of the individual, family, and the community.

In June 2014, the Parks and Recreation Advisory Board (PRAB) presented the City of Fairfax Strategic Master Plan for Parks, Recreation, Trails, Open Space, Events and Cultural Arts to the City Council. Referred to as the Strategic Master Plan, it contains measurable goals, objectives, and policies that the City Council, PRAB, and the Commission on the Arts use as guidance when determining program and facility needs. The Strategic Master Plan should be referenced for specific contributions toward the actions listed in this Content Area.

Guiding Principle:

In 2035, Fairfax is a city with...
inviting, well-maintained
parks, trails, open spaces and
multi-generational community
centers.



Parks and Recreation Goal 1

Develop high quality park infrastructure.

A high-quality park system should serve the community's needs with a range of services and facilities for all age groups and abilities provided in a safe environment. As the City's population grows, new interests and demand for a variety of activities will require periodic evaluation of the facilities the City offers. It is also important to look at the locations of facilities to ensure all neighborhoods are provided with equitable access to parks and recreation amenities and programs. High-quality, accessible parks, facilities, recreation and open space should be acquired, preserved, developed and redeveloped throughout the City for public health enjoyment and environmental purposes.

OUTCOME PR1.1: A well-connected system of parks and trails that provides citizens with healthy choices for recreation and travel.

ACTION PR1.1.1 Identify and address gaps in the connections between the City's parks, open space and trails.

ACTION PR1.1.2 Identify opportunities for future open space and trails in neighborhoods that are undersupplied in public recreation and open space opportunities.

ACTION PR1.1.3 Enhance public access to parks and recreational facilities by making necessary infrastructure improvements.

OUTCOME PR1.2: A greater awareness of the City's natural resources and commitment to protect and enhance them.

ACTION PR1.2.1 Implement measures to preserve privately-owned land adjacent to parks and trails in perpetuity, e.g. utilizing conservation easements, deed restrictions, etc.

ACTION PR1.2.2 Adopt tree preservation guidelines for parks, open space and trails.

Parks and Recreation Goal 2

Provide programs and services that meet the needs of the community.

High-quality programs, facilities and services – including large-scale community events that draw significant attendance – can improve the tax base, increase property values, attract businesses, produce revenue to offset operating costs, and provide indirect benefits to our economy, contributing to the City’s continued growth and development.

OUTCOME PR2.1: Robust programming of the City’s parks and public facilities that provides opportunities for individuals of all ages and abilities to participate.

ACTION PR2.1.1 Determine how the City’s long-term needs for a community center and senior center can be best met.

ACTION PR2.1.2 Update parks and recreation facilities to ensure they are accessible to individuals of all abilities.

ACTION PR2.1.3 Expand and enhance facility, program and service offerings through innovative funding, management best practices and cost recovery efforts.

ACTION PR2.1.4 Enhance Old Town Square as a destination and community gathering place by providing a venue for arts, recreation and green space.

OUTCOME PR2.2: Expanded and enhanced partnerships with City businesses and other organizations such as City of Fairfax Schools, Fairfax County Park Authority, NOVA Parks, Fairfax County Public Schools, George Mason University, Fairfax County Neighborhood and Community Services and others to complement the services provided by the City.

ACTION PR2.2.1 Identify opportunities to expand partnerships with institutional and business communities.

ACTION PR2.2.2 Establish relationships and partnerships with various underrepresented, underserved or diverse demographic groups in the City to assist with developing programs and services to meet the needs of these communities.

OUTCOME PR2.3: Rehabilitation or construction of public facilities to meet the programmatic and recreational needs of the community.

ACTION PR2.3.1 Enhance safety, accessibility, quality of service and cost effectiveness through comprehensive operations and maintenance programs and services.

ACTION PR2.3.2 Inventory the condition of existing public facilities and identify any necessary updates and repairs.

Parks and Recreation Goal 3

Market programs, special events, facilities and services.

A broad range of marketing and public relations techniques are necessary to develop public awareness, strengthen community relations and bring in a larger audience from outside of the City to our events. The City will use innovative promotional and marketing initiatives to increase awareness, participation and support of programs, special events, facilities and services.

OUTCOME PR3.1: A well informed community that utilizes the City's quality programs and attends events.

ACTION PR3.1.1 Conduct public opinion surveys of parks and recreation customers to identify desired changes in facilities and programming.

ACTION PR3.1.2 Utilize a variety of communications platforms to publicize facilities, programs and events to the community.

OUTCOME PR3.2: City events are a regional draw, resulting in increased economic vitality for local businesses.

ACTION PR3.2.1 Increase awareness, participation and support of programs, facilities and services using innovative promotional and marketing initiatives.



Cultural Arts

Guiding Principle:

In 2035, Fairfax is a city with... a thriving cultural arts program that supports a variety of special events, art spaces and performance venues.



The City of Fairfax takes pride in the wide variety of cultural events, programs and facilities it provides to enhance the quality of life for its residents. The City is committed to preserving and protecting its heritage, recognizing evolving socioeconomic and cultural patterns, and promoting the arts as an integral part of our spirit and vitality with wide ranging economic benefits.

In January 2013, the Commission on the Arts (COA) prepared a Strategic Plan with near-term (one to three years) and long-range objectives for cultural arts in the City. The plan “envisions an economically and culturally booming city with one of the most vibrant arts communities and arts destination sites”, supporting the Comprehensive Plan Vision Statement. The goals of this content area seek to support and build upon the COA’s plan, exploring

opportunities for inclusion of the arts as the City’s develops.

Historically, the long-time arts organizations in our community have been the City of Fairfax Band and the Fairfax Art League. Over the past two decades four theater companies have emerged as well as several smaller performance groups. The range of performances is constrained by the lack of theater performance spaces.

Public art has also sprouted in the last decade with art in the Library, in front of City Hall, in front of the Sherwood Center. More is planned for Old Town Square.

Cultural Arts Goal 1

Integrate cultural facilities into the City.

The City currently lacks adequate facilities for performing arts, including a community theater that could provide space for the larger audiences that regional and national artists could bring to the City. Although Fairfax High School and Lanier Middle School have auditorium/theater spaces, theater groups are severely challenged to obtain time in these facilities and are concerned about rental fees. Fairfax must continue to evaluate and expand its cultural venues and to cater to the increasing entertainment expectations of its residents, and promote the character and economic vitality of the City, making it a regional arts destination. This should be supported through expanded public art facilities.

OUTCOME CA1.1: Cultural facilities that provide opportunities for local, regional and national artists to perform for audiences of all sizes.

ACTION CA1.1.1 Create a broad-based special commission charged with the mission of identifying short and long term needs for performance spaces and other facilities to support a robust City arts program.

ACTION CA1.1.2 Based on outcome of CA1.1.1, create a capital program for arts facilities, including a priority for a performing arts facility. This may include upgrading of school arts related facilities.

ACTION CA1.1.3 Support the creation of Arts and Entertainment Districts with priority to Old Town Fairfax.

ACTION CA1.1.4 Identify underutilized or vacant private facilities that can function as temporary performance spaces.

OUTCOME CA1.2: Public art such as murals and sculptures displayed to identify, enhance and promote the cultural nature of the City.

ACTION CA1.2.1 Promote the City's cultural arts identity through public art.

Cultural Arts Goal 2

Encourage a broad representation of arts.

There are a wide variety of interests in arts programs and events resulting from the ever-changing demographics of the City. Strategic partnerships with local institutions, such as George Mason University's Center for the Arts and Northern Virginia Community College's Fine Arts Program should be constantly sought and promoted to expand opportunities for City residents of all ages, ethnicities and abilities. Alternative means of providing and promoting programs must constantly be explored as well.

OUTCOME CA2.1: Collaboration and partnership with local schools, colleges and universities to provide performance, rehearsal and educational opportunities for artists.

ACTION CA2.1.1 Collaboration and partnerships support establishment of performance, rehearsal and educational opportunities for artists.

ACTION CA2.1.2 Establish a mechanism for continuous collaboration with local schools, colleges/universities, and arts organizations on education for artists and programming.

ACTION CA2.1.3 Explore public/private partnerships to develop performance and rehearsal spaces.

OUTCOME CA2.2: Cultural programming in the City increases opportunities for a wide range of cultural experiences.

ACTION CA2.2.1 Consider creation of a Cultural Affairs office with a full time director.

ACTION CA2.2.2 Identify and create plan to optimizing use of existing and future public facilities for cultural arts programs.

ACTION CA2.2.3 Enhance awareness of current and future programs and facilities.

OUTCOME CA2.3: Expanded and enhanced partnerships with city businesses and other organizations such as City of Fairfax Schools, Northern Virginia Community College, George Mason University, Virginia Commission for the Arts and other local arts agencies.

ACTION CA2.3.1 Expand partnerships with institutional and business communities for funding and facilities usage.

Government and Public Safety

Municipal government services directly affect daily life for residents and businesses including trash pick-up, dog licensing, sign permits, facility rentals or emergency services. These services not only allow a community to function, but also impact its overall quality of life.

Public safety services include law enforcement, fire protection, emergency medical services and emergency management. The continuity of governmental services offers reassurance that essential services are in place to respond to basic community concerns and needs.



Guiding Principle:

In 2035, Fairfax is a city with... exceptional governmental, police and fire safety services.

Government and Public Safety

Goal 1

Provide state of the art facilities for local government and public safety operations.

Anticipating future growth patterns and planning for infrastructure and services to meet the needs of such growth are critical elements in determining the future of the City and its development framework. The City of Fairfax's location in the metropolitan Washington, D.C. area promises to provide the stimulus for continued growth in the City. This growth will affect the resources required to provide the desired level of public services, safety response and protection. The City must continually monitor demands on government and public safety resources in order to determine needs for facility and service enhancements.

OUTCOME GPS1.1: Public facilities and equipment that properly support the efficient functioning of City staff to provide valued services to City residents and businesses.

ACTION GPS1.1.1 Maintain and update City facilities to ensure all are safe, accessible to individuals of all abilities, energy efficient and modernized to meet the changing needs of the community and operations.

ACTION GPS1.1.2 Construct new buildings, when warranted, that are accessible, sustainable and properly located, including co-locating multiple uses to meet the needs of the community and operations.

ACTION GPS1.1.3 Pursue right of first refusal agreement with Fairfax County on county-owned property located within the City.

Government and Public Safety

Goal 2

Provide high-quality community services.

The City must balance fiscal challenges with the need to maintain public facilities and equipment. Improper maintenance and inadequate facilities can result in disruptive needs for repair and costly replacements. The City will provide high-quality, efficient and cost-effective community services with optimal levels of service to meet public needs on a daily basis, as well as during times of stress.

OUTCOME GPS2.1: User-friendly and convenient customer service tools using the latest technology available.

ACTION GPS2.1.1 Monitor trends and advancements in technology as they become available to determine if they would benefit City staff’s ability to deliver services.

OUTCOME GPS2.2: Police protection and service that maintain a safe environment for residents, workers and visitors.

ACTION GPS2.2.1 Prevent crime through safe environmental design.

ACTION GPS2.2.2 Support the implementation of the Police Department’s long-range plans.

OUTCOME GPS2.3: Responsive fire and rescue services that protect lives and property.

ACTION GPS2.3.1 Support the implementation of the Fire Department’s long-range plans.

ACTION GPS2.3.2 Maintain and update City fire facilities and equipment to ensure all are safe, accessible to individuals of all abilities, energy efficient and modernized to meet the changing needs of the community and staff.

OUTCOME GPS2.4: Continued coordination and collaboration with appropriate jurisdictions, agencies and groups for emergency preparedness and response.

ACTION GPS2.4.1 Survey assets and expand upon them to best capitalize on investment in preparedness.

ACTION GPS2.4.2 Continue education programs focused on establishing survivable spaces and promoting emergency preparedness.

OUTCOME GPS2.5: Essential health and human services are readily available for all community members.

ACTION GPS2.5.1 Improve access and availability to health and human services, amenities, and products.

ACTION GPS2.5.2 Increase transit service options available to destinations where healthy food is sold or distributed such as food banks, farmers markets and grocery stores.

ACTION GPS2.5.3 Recognizing many human services are provided by outside agencies and are not directly marketed for the City, develop a marketing strategy targeting individuals in the City who could benefit from those services.

Infrastructure and Utilities

Guiding Principle:

In 2035, Fairfax is a city with... safe, well-maintained infrastructure and use of advanced technology.



Well-maintained infrastructure and utility systems are critical to the City's continued growth and development. The utility and infrastructure services covered in this content area include water, wastewater, stormwater, energy, telecommunications, and solid waste and recycling. These services support existing and future development and contribute to the health, safety, and welfare of residents, businesses and visitors in the community. As technology advances, the City will have greater opportunity to expand the use of information and communications technologies to enhance livability, economic growth, public safety and sustainability.

The proper functioning of infrastructure systems can have major environmental implications. Water, wastewater, and stormwater systems are embedded in the region's hydrology, and the quality of our watersheds is heavily influenced by the operation of these systems. Overhead utility wires are a distracting visual element within the streetscape and present a maintenance concern. Trees must be trimmed away from the overhead lines on a regular basis, resulting in odd-shaped and unnatural-looking trees unable to grow to their fullest potential. Undergrounding utilities would enhance safety, improve aesthetics, reduce maintenance, and improve street tree health.

Infrastructure and Utilities

Goal 1

Provide quality utility services and infrastructure systems.

Utilities and infrastructure will be compliant with applicable federal and state standards and requirements to meet anticipated growth and development needs. The City should continue to ensure its infrastructure and utility systems meet the demand of projected growth and the community's needs. Significant investments in infrastructure (such as stormwater management facilities) will be needed to keep pace with maintenance, regulatory requirements and advancing technology.

OUTCOME IU1.1: Access to a clean, safe and reliable potable water supply.

ACTION IU1.1.1 Continue to work with Fairfax Water to ensure the City has access to safe and reliable drinking water.

ACTION IU1.1.2 Encourage residents and businesses to conserve water in an effort to protect and preserve the water supply.

OUTCOME IU1.2: A reliable and efficient wastewater system that collects, conveys and treats wastewater.

ACTION IU1.2.1 Maintain the ability to collect and transmit the disposal of wastewater.

ACTION IU1.2.2 Continue to perform regular testing, maintenance and improvements to the City's wastewater collection system to ensure compliance with federal and state environmental regulations.

OUTCOME IU1.3: A sustainable and efficient stormwater system.

ACTION IU1.3.1 Continue to implement the Virginia Stormwater Management Program (VSMP) and city's stormwater management program to ensure compliance with federal and state regulations.

ACTION IU1.3.2 Continue to maintain and improve the City's stormwater system, utilizing green stormwater infrastructure where practical.

OUTCOME IU1.4: Access to reliable energy and telecommunications infrastructure.

ACTION IU1.4.1 Partner with utility providers, local municipalities and regional groups to improve access to utility data and service outage data.

ACTION IU1.4.2 Coordinate upgrades and replacement of non-City provided utilities, including electricity, water, natural gas and communications networks.

ACTION IU1.4.3 Work with utilities, developers, and state agencies to relocate above-ground utility lines underground, where feasible, with an emphasis on major corridors.

Infrastructure and Utilities Goal 1

ACTION IU1.4.4 Encourage the placement and appearance of utility infrastructure (e.g. substations, transmission towers and lines, and switching boxes) to minimize visual disruption and negative effects on quality of life, and to enhance streetscapes.

ACTION IU1.4.5 Work with utility companies to ensure the reliability and availability of electricity, water, natural gas, and communications services during both normal times and times of stress (e.g. storm events, flooding, extreme heat, etc.).

OUTCOME IU1.5: A safe and well-connected rights-of-way system that provides a functional surface transportation system and utility infrastructure services throughout the City.

ACTION IU1.5.1 Evaluate and ensure that there is adequate lighting along all major streets.

ACTION IU1.5.2 Convert light fixtures and street lights to light emitting diodes (LEDs) and down-cast lighting.

ACTION IU1.5.3 Develop an inventory of existing public right-of-way infrastructure assets (e.g. street lights), current infrastructure conditions, and priorities for maintenance or rehabilitation.

ACTION IU1.5.4 Provide rights-of-way that will permit the expansion of tree planting strips and tree wells to provide more suitable growing conditions for street trees.

OUTCOME IU1.6: Access to reliable and efficient solid waste and recycling services and infrastructure.

ACTION IU1.6.1 Maintain and enhance solid waste and recycling infrastructure in City parks, trails, sidewalks, public facilities and at events.

Infrastructure and Utilities Goal 2

Expand the use of advanced technology.

Advanced technology infrastructure helps support economic growth and public safety, improve access to information and ensure a broad range of communications services. Technology is rapidly progressing while the price of these advanced technologies is decreasing. The City will monitor, evaluate and utilize advances in technology to improve efficiency, connectivity, and quality of life.

OUTCOME IU2.1: All City residences, businesses and institutions have access to reliable and affordable advanced technology and telecommunications infrastructure and services.

ACTION IU2.1.1 Periodically update policies and regulations for the design and siting of telecommunication facilities to ensure they remain applicable with fast-changing communication technologies.

ACTION IU2.1.2 Explore public-private partnerships as a way to enhance the City's telecommunications infrastructure.

ACTION IU2.1.3 Consider implementing innovative pilot initiatives that advance new technologies (e.g. regenerative power, solar powered charging stations, etc.).

7

Implementation

City Budget

The Comprehensive Plan should be used as a reference for all land use and budget decisions. Any budget item in the Capital Improvement Plan should support at least one of the goals of the Comprehensive Plan. Any land use case that is reviewed by the Planning Commission and/or City Council should be required to demonstrate compliance with the Comprehensive Plan. This is demonstrated through the review criteria for Zoning Map Amendments, Special Use Permits and Special Exceptions in the Zoning Ordinance. Any land use request that is unable to demonstrate conformance with the Comprehensive Plan Future Land Use Map may request an amendment to the map for consideration of a recommendation by the Planning Commission and action by City Council.

Plan Updates

Although the Code of Virginia only requires the Comprehensive Plan to be reviewed and considered for updates once every five years, the City should consistently be prepared for interim changes to the plan. Necessary changes can result from completion of strategic plans or changes to other City policies. The plan should always be consistent with other policies or where the plan references other policies, only the most current policies should be referenced.

The Comprehensive Plan should be relied upon as an initial source that directs users to appropriate reports or strategic plans where necessary. The various departments, boards and commissions in the City are consistently updating goals and strategies through specific studies, reports and analysis, so it should be expected that the Comprehensive Plan will require periodic updates in order to maintain relevance.

Performance Metrics

The following tables are provided as a tool to measure progress in the implementation of the range of goal supporting actions in this Comprehensive Plan. Each goal from throughout the plan is listed with a table of actions below it. The primary measurement of implementation is whether or not progress has been made in implementing that action. The primary responsible party, a timeframe for implementation and a timeframe for completion for each action is provided in the table with the following time frames:

Timeframe for Completion	
Ongoing	Routine and continuous
Immediate	Completed within 2 years
Short-Term	Completed within 2 to 5 years
Long-Term	Will take longer than 5 years to complete

These tables should be reviewed periodically to ensure that progress has been made on implementing or completing each of the actions per the defined schedule.

In addition to the implementation schedule, specific metrics are provided for some of the goals. The metrics indicate desired impacts that may result from proper implementation of the actions within that goal. In some cases, these metrics can be reviewed immediately after an action is completed, while in others, the results may not be clear for a long period of time. For this reason, the metrics should not be considered alone when measuring the success of this plan.

Glossary for Lead Responsibility:

<u>Abbreviation</u>	<u>Department or Agency</u>
Atty	City Attorney
CDP	Community Development & Planning
Code	Code Administration
CoR	Commissioner of Revenue
CM	Communications and Marketing
ED	Economic Development
EM	Emergency Management
Fire	Fire
HS	Human Services
P&R	Parks & Recreation
Police	Police
PW	Public Works
Resp. Depts.	Respective City Departments
SB	School Board
Sust.	Sustainability
Trans.	Transportation

Action	Lead Responsibility	Initiation	Completion
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LAND USE

Goal 1: Ensure development is complementary

OUTCOME LU1.1: Future land use map and categories that provide for a balanced mix of development types.

LU1.1.1.	Use the Future Land Use Map, Place Type Descriptions and general text from the Comprehensive Plan, to guide the location and type of development throughout the City.	CDP	Ongoing	Ongoing
LU1.1.2.	Refer to specific recommendations and potential alternative uses for “Specific Recommendation Sites” as identified on the Future Land Use Map.	CDP	Ongoing	Ongoing

OUTCOME LU1.2: Zoning regulations that accommodate high-quality design and development practices.

LU1.2.1.	Consistently review the Zoning and Subdivision Ordinances and the Zoning Map to ensure they are able to support the Future Land Use Map and other guidance of the Comprehensive Plan.	CDP	Ongoing	Ongoing
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NEIGHBORHOODS

Goal 1: Preserve neighborhood character.

Metrics Number of homeowner, condominium and civic associations participating in regular communication with the City

OUTCOME N1.1: Infill housing that complements the character of surrounding homes in existing

N1.1.1.	Maintain regulatory standards to ensure infill housing fits in with the surrounding neighborhood context.	CDP	Ongoing	Ongoing
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OUTCOME N1.2: Residents have regular communication and positive interactions with other members of their neighborhood as well as the larger City of Fairfax community.

N1.2.1.	Encourage and support community engagement through homeowner, condominium and civic associations.	CM	Immediate	Ongoing
N1.2.2.	Establish regular communication with homeowner, condominium and civic associations as a means to keep individual citizens informed of City business.	CM	Immediate	Ongoing

Action	Lead Responsibility	Initiation	Completion
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Goal 2: Provide neighborhood pedestrian connections.

Metrics Number of pedestrian infrastructure projects completed that fill gaps in the existing network or are located in deficient areas

OUTCOME N2.1: Residents of all abilities safely and easily move about the community.

N2.1.1.	Identify opportunities for future open space and trails in neighborhoods that are currently deficient in offering these amenities.	CDP, Trans., P&R	Immediate	Short-Term
N2.1.2.	Expand existing network to increase connectivity.	CDP, Trans., P&R	Ongoing	Ongoing
N2.1.3.	Improve connectivity in identified neighborhoods.	CDP, Trans.	Immediate	Ongoing
N2.1.4.	Target and coordinate public infrastructure improvements with desired infill, reinvestment and redevelopment areas to encourage and stimulate private development.	CDP, Trans., ED	Long-Term	Ongoing

Action	Lead Responsibility	Initiation	Completion
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COMMERCIAL CORRIDORS AND ACTIVITY CENTERS

Goal 1: Enhance commercial corridors.

Metrics Average property value per acre in Commercial Corridor areas
Average lease rates in Commercial Corridors

OUTCOME CCAC1.1.: Commercial corridors with attractive physical characteristics that provide shopping, dining, services and other businesses.

CCAC1.1.1.	Encourage commercial redevelopment that offers amenities and atmosphere to attract top-tier commercial tenants.	CDP, ED, Trans., P&R	Ongoing	Ongoing
CCAC1.1.2.	Identify underperforming properties (i.e., buildings assessed at considerably less than the total property value) and, working with the City’s Economic Development Authority, encourage redevelopment.	ED	Immediate	Ongoing
CCAC1.1.3.	Encourage creativity and architectural excellence in new commercial developments.	CDP, ED	Ongoing	Ongoing
CCAC1.1.4.	Develop urban design concept diagrams for small block and multi-block areas along the city’s commercial corridors, outside the local activity centers.	CDP, Trans., ED	Immediate	Short-Term
CCAC1.1.5.	Encourage tree-lined and heavily landscaped property edges, particularly where surface parking is adjacent to the public rights-of-way.	CDP	Ongoing	Ongoing
CCAC1.1.6.	Provide pedestrian and bicycle connections to nearby neighborhoods.	CDP, Trans., P&R	Short-Term	Ongoing

OUTCOME CCAC1.2.: Tenants representing diverse business sectors that meet current and emerging trends in neighborhood-serving retail, service and other business demands.

CCAC1.2.1.	Strengthen existing retail businesses and expand choices to capture retail spending by residents.	ED	Ongoing	Ongoing
CCAC1.2.2.	Create a marketing plan to generate excitement about the current retail and service offerings.	ED	Immediate	Ongoing

Goal 2: Promote redevelopment in the City’s activity centers.

	Action	Lead Responsibility	Initiation	Completion
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Metrics Average property value per acre in Activity Center areas
Average lease rates in Activity Centers

OUTCOME CCAC2.1.: Old Town Fairfax, including an expanded downtown area to its north and south, is a lively, economically viable, walkable, cultural hub for the City.

CCAC2.1.1.	Capitalize on the authenticity and appeal of Old Town as an historic place and shopping, dining and tourist destination.	ED	Ongoing	Ongoing
CCAC2.1.2.	Attract and retain businesses along Main Street and market it as a primary retail street for Old Town.	ED	Immediate	Ongoing
CCAC2.1.3.	Maximize the use of publicly-owned properties to contribute to the economic and cultural vibrancy of Old Town.	CDP, ED	Short-Term	Long-Term
CCAC2.1.4.	Encourage redevelopment of privately-owned, underutilized sites north and south of Old Town, such as Courthouse Plaza shopping center and the area west of University Drive between Sager Avenue and Armstrong Street, as mixed-use developments.	CDP, ED	Short-Term	Long-Term
CCAC2.1.5.	Market the connection to Old Town from George Mason University and emphasize Old Town as a desirable place for students and faculty to shop, dine and live.	ED	Immediate	Ongoing

OUTCOME CCAC2.2.: A pedestrian oriented, mixed use destination at Northfax that capitalizes on it's location to successfully compete with other regional centers.

CCAC2.2.1.	Pursue feasibility of public/private partnership to develop parking structures in Northfax.	CDP, ED, Trans.	Short-Term	Long-Term
CCAC2.2.2.	Consistently articulate expectations for unified developments and support measures that facilitate property consolidation.	CDP, ED	Ongoing	Ongoing
CCAC2.2.3.	Encourage the redevelopment of Northfax as a major commercial center and transit oriented development that capitalizes on a potential future Metrorail station along I-66.	CDP, ED	Immediate	Long-Term

	Action	Lead Responsibility	Initiation	Completion
OUTCOME CCAC2.3.: Old Town, Northfax and the other activity centers are well designed and desirable places to live, work, shop and dine.				
CCAC2.3.1.	Encourage structured parking and minimize surface parking, particularly adjacent to public rights-of-way.	CDP, Trans.	Ongoing	Ongoing
CCAC2.3.2.	Promote the orientation of buildings facing toward streets with architecture that engages street-level activity.	CDP	Ongoing	Ongoing
CCAC2.3.3.	Encourage streetscapes that promote enclosure through building setbacks, pedestrian amenities, street furniture, on-street parking, and landscaping.	CDP	Ongoing	Ongoing
CCAC2.3.4.	Support land planning that balances connectivity for pedestrians, bicyclists and motorists.	CDP, Trans.	Ongoing	Ongoing
CCAC2.3.5	Prepare individual Small Area Comprehensive Plans, as defined in Section 15.2-2303.4 of the Code of Virginia, for each of the activity centers that clearly demonstrate the desired mix of uses, residential density, building intensity, design aesthetic, specific street locations and multimodal connections, infrastructure improvements, parking and open space.	CDP	Immediate	Long-Term

	Action	Lead Responsibility	Initiation	Completion
HOUSING				
H1.1.1.	Create a housing policy that can best provide for the types of housing units that are most in demand.	CDP, HS		
H1.1.2.	Support development of new higher-end townhouses and single-family detached housing units.	CDP		
H1.2.1.	Ensure that zoning policy continues to provide ample opportunity for developers to build a variety of housing types to keep the market well supplied.	CDP		
H1.3.1.	Research changes to the zoning regulations to expand opportunities for accessory dwelling units, while ensuring they do not negatively impact the surrounding neighborhood.	CDP		
H2.1.1.	Leverage the affordable housing trust fund and low-income housing tax credit.	HS		
H2.1.2.	Provide regulatory and financial incentives to increase the supply of housing that is affordable as defined in the affordable housing ordinance.	HS		
H2.1.3.	Leverage publicly-owned property for housing that is affordable or mixed use development that includes housing that is affordable.	CDP, HS		
H2.1.4.	Convert underutilized commercial space to housing that is affordable.	CDP, HS		
H2.2.1.	Facilitate partnerships between existing property owners and nonprofit organizations that manage dedicated affordable housing properties to preserve and ensure long-term affordability of existing multifamily complexes.	CDP, ED, HS		
H2.2.2.	Support the use of the Low Income Housing Tax Credit and other funding sources available to reinvest in and upgrade existing multifamily complexes such as through PACE (Property Assessed Clean Energy).	CDP, HS		
H3.1.1.	Express preferences regarding housing units that are appropriate and/or in demand for older adults and those with disabilities.	CDP, HS		
H3.1.2.	Utilize affordable housing trust fund to assist with aging in place with income threshold.	HS		
H3.1.3.	Encourage development of shared housing opportunities through congregate living facilities.	CDP, HS		

	Action	Lead Responsibility	Initiation	Completion
H4.1.1	Continue to encourage homeowners to undertake residential reinvestment projects that can collectively modernize the City's housing stock.	CDP		
H4.1.2.	Encourage energy efficiency retrofits that reduce water use and home heating and cooling costs.	CDP		
H4.1.3.	Continue to enforce compliance with building and property maintenance codes to prevent deteriorated, unsafe and unhealthy housing conditions.	CDP, Code		
H4.1.4.	Incentivize reinvestment in multifamily complexes.	CDP, HS		
H4.2.1.	Expand flexibility of FRHC program to encourage greater participation by homeowners of duplexes.	CDP		
H4.3.1.	Support community-led preservation of residential areas of specific age and/or character.	CDP		

Action	Lead Responsibility	Initiation	Completion
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COMMUNITY DESIGN AND HISTORIC PRESERVATION

Goal 1: Require high-quality, sustainable design.

OUTCOME CDHP1.1: Clear expectations for the required design elements and building materials for the City’s historic districts and commercial centers.

CDHP1.1.1.	Determine design aesthetic of Fairfax Boulevard and Main St with input from City boards and commissions and convey through the City of Fairfax Design Guidelines.	CDP	Immediate	Immediate
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OUTCOME CDHP1.2: Attractive buildings, inviting public spaces and welcoming gateways that contribute to our economic vitality and unique character.

CDHP1.2.1.	Identify commercial economic investment areas.	CDP, ED	Immediate	Short-Term
CDHP1.2.2.	Adoption of design standards with menu of options to encourage variety, visual interest and durability in the design of new development.	CDP	Immediate	Immediate
CDHP1.2.3.	Explore public/private partnerships to create neighborhood centers and nearby gathering places.	CDP, ED	Short-Term	Long-Term
CDHP1.2.4.	Create attractive gateway features at key City entry points.	CDP, ED, PW	Short-Term	Long-Term

Action	Lead Responsibility	Initiation	Completion
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Goal 2: Protect and enhance historic resources.

- Metrics**
- Number of properties located in a locally designated historic district or designated as a historic landmark
 - Percent of new development and improvements deemed in compliance with the City of Fairfax Design Guidelines

OUTCOME CDHP2.1: Protection of eligible structures, properties and neighborhoods preserved through local historic designation and strategic investments.

CDHP2.1.1.	Develop an inventory of historic and archaeological resources readily available on the City’s website that is reviewed and updated at least every 10 years.	CDP	Ongoing	Ongoing
CDHP2.1.2.	Work with neighborhoods to gain support for new locally-designated historic districts and landmarks.	CDP	Short-Term	Ongoing
CDHP2.1.3.	Identify and promote educational, economic and recreational benefits of historic structures, properties and districts.	CDP	Ongoing	Ongoing
CDHP2.1.4.	Encourage the preservation of existing buildings of historic or architectural significance whenever feasible.	CDP	Ongoing	Ongoing

OUTCOME CDHP2.2: Redevelopment that respects nearby historic structures and the established architectural pattern.

CDHP2.2.1.	Ensure all new development subject to the requirements of the City of Fairfax Design Guidelines is compliant and continue to monitor the review process for Certificates of Appropriateness to ensure it is affective.	CDP	Ongoing	Ongoing
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Action	Lead Responsibility	Initiation	Completion
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Multimodal Transportation

Goal 1: Connect with the Region

Metrics	Traffic on City arterials with neither origins nor destinations in the City	68,000 existing (MWCOG model)
	Transit commute mode share	11% existing (American Community Survey)
	Crashes on major and minor arterials involving pedestrians or bicycles	
	Crashes of all types on major and minor arterials	837 current (VA State Police)
	CUE on-time performance	86% current average for all routes (CUE)

OUTCOME 1.1: Corridors for regional travel and better connections to regional networks and destinations are enhanced and improved

MM1.1.1.	Continue to participate in regional planning efforts to increase connectivity in the regional road, transit, and trail networks.	CDP, Trans.	Ongoing	Ongoing
MM1.1.2.	Collaborate with WMATA and regional partners to ensure that any western extension of Metro’s Orange Line includes a station location accessible to and benefiting City of Fairfax stakeholders.	CDP, Trans.	Long-Term	Long-Term
MM1.1.3.	Increase connectivity to the existing Vienna/Fairfax-GMU Metrorail Station.		see sub-actions	
MM1.1.3.1.	Improve pedestrian connections from the Fairfax Circle area to the Metro station area.	CDP, Trans.	Short-Term	Long-Term
MM1.1.3.2.	Improve bicycle facility connections and crossings across Fairfax Boulevard from the City of Fairfax to the Metro station.	CDP, Trans.	Short-Term	Short-Term
MM1.1.3.3.	Continue collaboration with George Mason University to enhance bicycle and transit connections between the university and the metrorail system.	CDP, Trans.	Ongoing	Ongoing
MM1.1.3.4.	Implement the recommendations of the Old Lee Highway “Great Street” conceptual plan.		Ongoing	Long-Term
MM1.1.4.	Expand trail and bicycle networks to connect to regional facilities and destinations.		see sub-actions	
MM1.1.4.1.	Improve connections and logical links to the Cross-County Trail and beyond to the Washington and Old Dominion (W&OD) trail.	CDP, Trans.	Short-Term	Long-Term
MM1.1.4.2.	Improve trail connections south along Route 123 to connect to the Braddock Road Sidepath and on to Lorton, VA.	Trans.	Long-Term	Long-Term
MM1.1.4.3.	Connect local trails to the planned I-66 trail facility.	CDP, Trans.	Short-Term	Long-Term

Action		Lead Responsibility	Initiation	Completion
MM1.1.4.4.	Coordinate with Fairfax County on the construction of the Main Street/Little River Turnpike bicycle facility.	CDP, Trans.	Long-Term	Long-Term
MM1.1.5	Improve the Blake Lane-Jermantown Road corridor. Specifically, including: (see MM1.1.5.1. - MM1.1.5.3.)		see sub-actions	
MM1.1.5.1.	Complete a transportation study to determine necessary facility improvements and operational plan.	CDP, Trans.	Short-Term	Short-Term
MM1.1.5.2.	Coordinate with Fairfax County and VDOT on improvements to the Jermantown Road bridge over I-66 including additional capacity for vehicles, bicycles and pedestrians.	Trans.	Immediate	Short-Term
MM1.1.5.3.	Pursue a connection from Jermantown Road to Waples Mill Road north of Fairfax Boulevard.	CDP, Trans.	Long-Term	Long-Term
MM1.1.6.	Support Fairfax County in pursuing improvements to Braddock Road to facilitate its operation as a critical regional corridor.	Trans.	Short-Term	Long-Term
MM1.1.7.	Complete the Government Center Parkway.	Trans.	Immediate	Short-Term
MM1.1.8.	Improve safety and ensure continued efficiency of Pickett Road as a regional north-south corridor and important truck route.	CDP, Trans.	Short-Term	Long-Term

OUTCOME 1.2: Safety and operations in the regional network are improved

MM1.2.1.	Conduct a detailed study of Fairfax Circle to improve safety and operations, potentially including geometric changes to the existing circle configuration.	CDP, Trans.	Short-Term	Short-Term
MM1.2.2.	Complete improvements to Kamp Washington intersection (Main Street and Fairfax Boulevard).	Trans.	Immediate	Immediate
MM1.2.3.	Complete improvements to the Northfax intersection of Fairfax Boulevard and Chain Bridge Road.	Trans.	Immediate	Immediate
MM1.2.4.	Simplify multi-leg and offset intersections, such as the intersection of McLean Avenue, Warwick Avenue, and Fairfax Boulevard.	CDP, Trans.	Short-Term	Long-Term
MM1.2.5.	Continue city participation on regional transportation boards.	CDP, Trans.	Ongoing	Ongoing
MM1.2.6.	Promote a regional approach to public transportation planning.	CDP, Trans.	Immediate	Ongoing
MM1.2.7.	Expand safety education efforts to educate all road users on pedestrian awareness and safety. Educate residents on proper procedures for traveling as a pedestrian, interacting with pedestrians as a driver, and locating and using pedestrian facilities to increase comfort and safety and encourage more walking.	Trans.	Immediate	Ongoing

Action	Lead Responsibility	Initiation	Completion
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Goal 2: Provide Viable and Attractive Mobility Choices

Metrics	Miles of sidewalk (excluding trails)	126 existing
	Miles of bicycle facilities (dedicated on-street facilities + trails)	10.6 existing
	Pedstrian and bicycle volumes on trails	
	Non-drive alone mode share by residents and workers	28% existing (MWCOG model)
	Percent of residential units within 4,000 feet of parks or open space via street or trail network	88% existing
	Percent of residents with 2,500 feet of a transit stop via street or trail network	79% existing

OUTCOME 2.1: Pedestrian safety is improved.

MM2.1.1	Fill critical gaps in the pedestrian network. Develop and act on a prioritized list of sidewalk improvements in the commercial areas and provide sidewalks on at least one side of every residential street in neighborhoods that are in agreement.	CDP, Trans.	Immediate	Ongoing
MM2.1.2	Ensure the pedestrian network is accessible to all and meets the requirements of the Americans with Disabilities Act (ADA).	Trans.	Ongoing	Ongoing
MM2.1.3	Enhance safe routes to school, safe routes to transit, and safe routes to community facilities, completing specific planning efforts as required.	CDP, Trans.	Immediate	Ongoing
MM2.1.4	Improve pedestrian crosswalks. Crosswalks should be provided across all legs of all intersections.	Trans.	Immediate	Ongoing
MM2.1.5	Expand the sidewalk network. Sidewalks should be provided with any significant street maintenance, rehabilitation, or reconstruction project and may be constructed independent of a street project.	CDP, Trans.	Immediate	Ongoing
MM2.1.6	Increase connectivity to the existing Vienna/Fairfax-GMU Metrorail Station including:	CDP, Trans.	see sub-actions	
MM2.1.6.1	Improve pedestrian connections from the Fairfax Circle area to the Metro station area.	CDP, Trans.	Short-Term	Long-Term
MM2.1.6.2	Improve bicycle facility connections and crossings across Fairfax Boulevard from the City of Fairfax to the metro station.	CDP, Trans.	Short-Term	Short-Term

	Action	Lead Responsibility	Initiation	Completion
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OUTCOME 2.2: The “Green ribbon,” the city’s existing parks and trail network, is connected and expanded.

MM2.2.1	Fill gaps in the trail network. Complete connections to existing segments, implement projects proposed by the Parks and Recreation Master Plan, and pursue new trail connections to create a more functional trail network.	CDP, Trans., P&R	Immediate	Ongoing
MM2.2.2	Connect the George Snyder Trail to the planned I-66 trail facility.	CDP, Trans., P&R	Immediate	Short-Term
MM2.2.3	Improve trail crossings across arterial streets, including Fairfax Boulevard at Pickett Road and Main Street at Main Street Square and Railroad Avenue.	CDP, Trans., P&R	Immediate	Ongoing
MM2.2.4	Provide wayfinding, trail blazing and traffic calming/safety, and nonmotorized facility improvements to provide connections between parks and trails.	CDP, Trans., P&R	Immediate	Ongoing
MM2.2.5	Increase resident awareness of trail networks and connections.	CDP, Trans., P&R	Immediate	Ongoing

OUTCOME 2.3 Bicycle network, facilities, and programs are improved.

MM2.3.1	Develop and adopt a bicycle network plan linking major destinations including George Mason University, Old Town, Metrorail, and the regional trail system.	CDP, Trans., P&R	Short-Term	Short-Term
MM2.3.2	Review bicycle facility design standards to ensure best practices in design and delivery of facilities.	CDP, Trans.	Short-Term	Ongoing
MM2.3.3	Expand the provision of bicycle racks for short term bicycle parking.	CDP, Trans.s	Immediate	Ongoing
MM2.3.4	Adopt bicycle-supportive policies for development projects where applicable, including expanded provision of short- and long-term bicycle parking, showers, and changing facilities.	CDP, Trans.	Immediate	Short-Term
MM2.3.5	Complete a bike share feasibility study including definition of necessary station density, recommended “starter system,” operating and management structure, and funding program, preferably in partnership with George Mason University. Provide initial support to establish bike share in the City of Fairfax.	CDP, Trans.	Immediate	Immediate
MM2.3.6	Provide initial support to establish bike share in the City of Fairfax.	Trans.	Short-Term	Short-Term
MM2.3.7	Expand safety education efforts to educate all road users on bicycle awareness and safety. Educate casual cyclists on proper procedures to encourage more cycling through an increased comfort level.	Trans.	Immediate	Ongoing

Action		Lead Responsibility	Initiation	Completion
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OUTCOME 2.4 Transit continues to be an effective non-driving alternative.

MM2.4.1	Improve transit services and facilities.	Trans.	Immediate	Ongoing
MM2.4.1.1	Identify a priority transit network providing enhanced transit operations and more frequent services along key corridors including Main Street, Old Lee Highway, and Fairfax Boulevard.	Trans.	Long-Term	Long-Term
MM2.4.1.2	Enhance passenger accommodations to improve comfort and convenience.	CDP, Trans.	Immediate	Ongoing
MM2.4.1.3	Improve major transfer locations with quality passenger amenities, expanded information, and improve pedestrian facilities. Significant transfer locations include the Kamp Washington area, Fairfax Circle, Old Town, and Pickett and Main.	CDP, Trans.	Short-Term	Long-Term
MM2.4.1.4	Implement recommendations of the CUE Transit Development Plan to maintain the highly valued service of the CUE transit system.	Trans.	Short-Term	Long-Term
MM2.4.1.5	Improve connections to other transit routes and facilities through enhancements at significant transfer locations.	Trans.	Short-Term	Long-Term
MM2.4.1.6	Promote transit-friendly design features in new development and redevelopment projects.	CDP, Trans.	Immediate	Ongoing
MM2.4.1.7	Expand ADA-accessible sidewalks and crosswalks serving bus stops.	Trans.	Immediate	Ongoing

OUTCOME 2.5: Vehicular travel & facilities are effectively managed and maintained.

MM2.5.1	Design all new facilities and upgrade existing facilities to comply with all federal, state, and local safety standards.	Trans.	Ongoing	Ongoing
MM2.5.2	Pursue new technologies that would improve safety on City streets.	Trans.	Immediate	Ongoing
MM2.5.3	Ensure the safety of City streets by incorporating traffic calming measures as needed.	Trans.	Ongoing	Ongoing
MM2.5.4	Evaluate opportunities to increase street grid connectivity to distribute vehicle and non-motorized traffic and to improve network resiliency. Opportunities for additional connections may be identified at any time but particularly as redevelopment occurs.	CDP, Trans.	Immediate	Ongoing

Action	Lead Responsibility	Initiation	Completion
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Goal 3: Integrate Transportation with Land Use

Metrics Percent of residential units within 4,000 of an Activity Center via street or trail network
 Pedestrian counts at key crossing locations

44% existing
 Reference 2012
 movement counts

OUTCOME 3.1: On- and off-street parking and curbside uses are effectively managed

MM3.1.1	Effectively manage city-controlled parking facilities for availability rather than turn-over.	Trans., ED	Ongoing	Ongoing
MM3.1.2	Enhance wayfinding and information for users, with an initial focus on the established Old Town area.	Trans., ED	Immediate	Short-Term
MM3.1.3	Explore parking pricing and other parking management strategies for public parking spaces and facilities throughout the city.	Trans., ED	Short-Term	Short-Term
MM3.1.4	Explore the creation of parking management districts in Old Town and other major local activity centers to maximize parking resources while minimizing excess parking supply.	CDP, Trans., ED	Short-Term	Short-Term
MM3.1.5	Consider policy measures to allow developers to fund public parking or other forms of access infrastructure in lieu of meeting parking demand on site.	CDP, Trans.	Short-Term	Short-Term
MM3.1.6	Develop travel marketing material to reduce the demand for long-term commuter/ employee parking in the City.	CDP, Trans., ED	Short-Term	Short-Term
MM3.1.7	Revise the Residential Parking Permit District Policy to consistently manage on-street public parking in residential neighborhoods.	Trans.	Immediate	Short-Term

	Action	Lead Responsibility	Initiation	Completion
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OUTCOME 3.2: Walkability to and within local activity centers and between neighborhoods is increased.

MM 3.2.1	Whenever possible, increase connections—particularly nonmotorized connections—between neighborhoods, community facilities, and local activity centers.	CDP, Trans.	Immediate	Ongoing
MM3.2.2	With development projects, break up large blocks to a more walkable scale. Pursue additional secondary and tertiary street network opportunities. Streets should be well designed as complete streets and align at regular intersections for a continuous street grid.	CDP, Trans.	Immediate	Ongoing
MM3.2.3	Increase the number, safety, and frequency of pedestrian crossings, including across major streets. Provide crosswalks at all approaches of all signalized intersections at minimum intervals of 500 feet within local activity centers. An exception exists in the case where the implementation of a crosswalk would result in operational failure of the corridor.	Trans.	Immediate	Ongoing
MM3.2.4	Improve the overall pedestrian environment, including pedestrian crossings, street trees and furnishing zone, buffering sidewalk from vehicle travel lanes, improved pedestrian scale lighting, and active ground floor uses along primary street edges.	CDP, Trans.	Immediate	Ongoing

OUTCOME 3.3: Streets are designed to accommodate context and function.

MM3.3.1	Develop and adopt a “Link+Place” street typology to guide street design and management for public and private streets.	Trans., CDP	Immediate	Immediate
MM3.3.2	Through community consultation, develop specific design objectives, desired outcomes, and performance metrics for each street type. Link design objectives to the street design and project development process, guidelines, and reference documents.	Trans.	Immediate	Short-Term
MM3.3.3	Ensure quality street design in both the pedestrian zone and travel zone of the street.	Trans.	Immediate	Ongoing
MM3.3.4	Improve access, circulation, walkability, and transportation management in local activity centers.	CDP, Trans.	Immediate	Ongoing

Action	Lead Responsibility	Initiation	Completion
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Goal 4: Adopt policies and procedures for strategic transportation decision making

OUTCOME 4.1: The city’s sidewalk policy is updated

MM4.1.1	Adopt a formal sidewalk policy, beginning with the best practices and policy recommendations for Pedestrian Accessibility Policy in Appendix B, requiring sidewalks on all new, reconstructed, or substantially rehabilitated streets that respond to local needs and community context.	CDP, Trans.	Short-Term	Short-Term
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OUTCOME 4.2: A Complete Streets policy is adopted and implemented

MM4.2.1	Develop and adopt a Complete Streets policy, beginning with the best practices and policy recommendations for Complete Streets Policy in Appendix B.	CDP, Trans.	see sub-actions	
MM 4.2.1.1	Convene an interdisciplinary working group to develop an appropriate policy for the City of Fairfax and adopt as formal policy.	CDP, Trans.	Short-Term	Short-Term
MM 4.2.1.2	Examine existing design practices and processes and adjust to ensure implementation of the adopted policy.	CDP, Trans.	Short-Term	Short-Term
MM 4.2.1.3	Set and track evaluation measures for Complete Streets improvements.	CDP, Trans.	Short-Term	Short-Term
MM 4.2.2	Implement Complete Streets improvements on major corridors including Fairfax Boulevard, Chain Bridge Road and University Drive, Old Lee Highway, and Main Street.	CDP, Trans.	Short-Term	Ongoing

OUTCOME 4.3: A Transportation Demand Management (TDM) Program is adopted and implemented.

MM 4.3.1	Based on best practices (as defined in Appendix B), establish a citywide Transportation Demand Management policy and program framework that can be utilized by the City and adapted by businesses and developers.	Trans.	Short-Term	Short-Term
MM 4.3.2	Require transportation demand management plans for all large development projects. Require bi-annual monitoring to assess resident/employee travel patterns.	CDP, Trans.	Short-Term	Ongoing
MM 4.3.3	Create a City of Fairfax TDM brand and website to centralize all available travel option information including transit schedules, bicycle maps, ridesharing opportunities, and education tools.	Trans.	Short-Term	Short-Term
MM 4.3.4	Increase outreach and education to George Mason University, the Central Fairfax Chamber of Commerce, City of Fairfax schools, and other markets that can provide strong partnerships with the TDM program.	Trans.	Short-Term	Ongoing

	Action	Lead Responsibility	Initiation	Completion
MM 4.3.5	Evaluate a linked TDM fund for the in-lieu developer fees related to parking requirements to enhance the transit system and citywide TDM programs.	Trans.	Short-Term	Short-Term
MM 4.3.6	Improve access to ride-sourcing programs through enhanced coordination with Fairfax County RideSource, Commuter Connections, or initiate a City based program.	Trans.	Short-Term	Ongoing
MM 4.3.7	Explore opportunities for car share services within the City to address “last mile” connections.	Trans.	Short-Term	Ongoing
MM 4.3.8	Partner with employer-sponsored wellness programs to highlight and market travel options and associated costs.	Trans.	Short-Term	Ongoing

OUTCOME 4.4: Mobility best practices and emerging technologies, including those described in Appendix B are considered in transportation policies and projects.

MM 4.4.1	Consider implementing programs to test new transportation concepts on a trial or pilot basis.		Immediate	Ongoing
MM 4.4.2	Provide real-time information through both apps and visual displays for transit arrivals, parking availability, and shared bicycles and vehicles.	Trans.	Short-Term	Ongoing
MM 4.4.3	Promote multimodal travel planning applications and services.	Trans.	Immediate	Ongoing
MM 4.4.4	Pursue Intelligent Transportation Systems (ITS) such as transit or emergency vehicle priority, dynamic signal timing, and other strategies.	Trans.	Short-Term	Ongoing
MM 4.4.5	Participate with the state and regional partners to ensure autonomous vehicle policies protect vulnerable street users and reduce overall vehicle miles traveled.	Trans.	Long-Term	Ongoing
MM 4.4.6	Prepare to eventually adapt curbside policies and street design to manage curbside car sharing/ride-sourcing activities while preserving the safe and efficient flow of travel.	Trans.	Short-Term	Long-Term
MM 4.4.7	Consider policies to promote technologies and innovations that reduce environmental impacts from transportation.	Trans.	Immediate	Ongoing

OUTCOME 4.5: A short-term prioritized transportation project list is developed

MM4.5.1	Develop a two-year project list that reflects council and community priorities.	Trans.	Ongoing	Ongoing
MM4.5.2	Provide opportunities for public input on transportation improvements.	CDP, Trans.	Ongoing	Ongoing
MM4.5.3	Use all available media to provide transportation information to the public.	Trans.	Ongoing	Ongoing

Action	Lead Responsibility	Initiation	Completion
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Environment and Sustainability

NATURAL ENVIRONMENT

Goal 1: Preserve, promote and enhance a healthy environment.

Metrics

- Percentage of impervious area
- Citywide greenhouse gas emissions
- Percentage of tree canopy
- Stream health ratings

Reduce 20% from 2005 level by 2020, 80% by 2050 per COG agreement

OUTCOME NE1.1: Clean and protected water resources and watersheds in the City.

NE1.1.1.	Reaffirm and implement the City's Chesapeake Bay Preservation program (Appendix A) and zoning ordinance regulations.	CDP, Sust., PW	Immediate	Ongoing
NE1.1.2.	Enhance zoning regulations and support initiatives that encourage the use of green stormwater infrastructure on private and public property.	CDP, Sust.	Short-Term	Ongoing
NE1.1.3.	Retain and acquire riparian areas as open space or parkland.	CDP, P&R	Ongoing	Ongoing

OUTCOME NE1.2: Clean, healthy air that supports plant, animal, aquatic and human life.

NE1.2.1.	Develop and implement a Climate and Energy Action Plan to achieve regional greenhouse gas emissions reduction goals as committed to in the Greater Washington 2050 Compact.	Sust., PW	Immediate	Long-Term
NE1.2.2.	Identify and implement strategies to reduce airborne pollutants known to cause health problems.	Sust.	Short-Term	Short-Term

OUTCOME NE1.3: A diverse well-managed urban forest dominated by native species.

NE1.3.1.	Develop and implement an urban forest management plan to protect the City's urban forest and increase the quantity, density and diversity of trees on public and private land.	Sust.	Immediate	Short-Term
NE1.3.2.	Support incentives, provide education, and partner with public and private groups to encourage native tree planting and preservation by private property owners.	Sust., P&R, CM	Immediate	Ongoing
NE1.3.3.	Update zoning regulations and public facilities manual for tree preservation, removal and planting of preferred species for trees located along streets, parking lots and riparian areas.	Sust., CDP, PW	Immediate	Short-Term

	Action	Lead Responsibility	Initiation	Completion
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OUTCOME NE1.4: A diverse population of native vegetation protected from invasive plants.

NE1.4.1.	Develop a strategy to control invasive species including identifying and mapping areas impacted by invasive plant species.	P&R; PW, Sust.	Short-Term	Short-Term
NE1.4.2.	Support the development of community and habitat gardens on underutilized parcels and public lands.	P&R, Sust.	Immediate	Ongoing
NE1.4.3.	Provide education and partner with public and private groups to promote the preservation and planting of native plants, sustainable landscaping techniques and management of invasive plants.	P&R, PW, CM, Sust.	Immediate	Ongoing

OUTCOME NE1.5: Restored and preserved natural open spaces and contiguous greenway corridors that provide natural habitats for plants and wildlife.

NE1.5.1.	Restore disturbed areas along streams and in conservation easements with native species.	PW	Immediate	Ongoing
NE1.5.2.	Pursue opportunities to purchase and preserve in perpetuity privately-owned open space.	CDP, P&R	Ongoing	Ongoing
NE1.5.3.	Encourage new development that protects and preserves environmentally sensitive areas and natural features, such as tree cover (especially significant stands of trees and healthy, mature trees), native vegetation, streams, wildlife habitat and natural topography.	CDP, PW	Immediate	Ongoing

Action	Lead Responsibility	Initiation	Completion
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Goal 2: Prepare for the impacts from natural and man-made hazards

OUTCOME NE2.1: Reduced risk and improved preparedness to meet the challenges associated with natural and man-made hazards.

NE2.1.1.	Participate in the National Flood Insurance Program's (NFIP) Community Rating System, a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements.	PW	Ongoing	Ongoing
NE2.1.2.	Understand the risks and develop a resiliency plan to set priorities and allocate resources to manage risks associated with natural and man-made hazards.	Sust., EM	Short-Term	Long-Term
NE2.1.3.	Continue to work with the Northern Virginia Hazard Mitigation Advisory Committee, to regularly update the Northern Virginia Hazard Mitigation Plan.	EM	Ongoing	Ongoing

OUTCOME NE2.2: Reduced exposure to pollutants and hazardous chemicals in the environment.

NE2.2.1.	Enhance exterior lighting standards and pursue certification as an International Dark Sky Community to reduce light pollution and protect nighttime skies.	Sust., CDP, PW	Immediate	Short-Term
NE2.2.2.	Continue to enforce noise standards.	CDP	Ongoing	Ongoing
NE2.2.3.	Promote the proper disposal or recycling of household hazardous waste.	Sust., PW	Ongoing	Ongoing
NE2.2.4.	Educate on the identification, risks and remediation of hazardous materials in buildings, including but not limited to radon, asbestos and volatile organic compounds.	Sust., Code	Immediate	Ongoing
NE2.2.5.	Develop integrated pest management and nutrient management plans.	PW, P&R	Short-Term	Short-Term
NE2.2.6.	Promote the responsible use of pesticides and fertilizers.	PW, P&R	Short-Term	Ongoing

	Action	Lead Responsibility	Initiation	Completion
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SUSTAINABILITY INITIATIVES

Goal 1: Increase the use of sustainable practices, technology, design and materials.

- Metrics**
- Energy use per capita
 - Energy use of government facilities and operations
 - Number of buildings certified by a green building rating system
 - Number of solar installations

OUTCOME SI1.1: Minimized energy demand with the application of energy efficient design features, technologies and best practices.

Sl1.1.1.	Promote the efficient use of energy by residents, business owners, and government facilities and operations to achieve a 30% reduction in energy use from 2018 baseline levels by 2035; a 40% reduction from 2018 baseline levels by 2040; and a 55% reduction from 2018 baseline levels by 2050.	Sust., PW	Immediate	Long-Term
Sl1.1.1.1	Use a data-driven assessment process to deploy energy efficiency technologies throughout all government facilities and operations and promote energy efficiency best practices among government employees.	Sust., PW	Immediate	Long-Term
Sl1.1.1.2.	Support incentives, provide education and partner with public and private groups to promote energy efficiency and sustainability improvements by private property owners.	CDP, CM	Ongoing	Ongoing
Sl1.1.1.3.	Promote voluntary benchmarking for commercial buildings.	Sust.	Short-Term	Short-Term
Sl1.1.1.4.	Implement programs that offer clean energy financing solutions for residential and commercial sectors.	ED, Sust.	Immediate	Short-Term
Sl1.1.2.	Develop a green building policy that establishes green building standards and incentives for both private and public sector construction and major renovations.	Sust., CDP	Immediate	Short-Term

OUTCOME SI1.2: Increased use of renewable energy sources and advanced sustainable technologies.

Sl1.2.1	Develop a plan for government operations to achieve 100% renewable electricity by 2035 and community-wide 100% renewable electricity by 2050.	Sust.	Short-Term	Long-Term
Sl1.2.2.	Revise applicable codes, zoning ordinances, policies and design guidelines to help facilitate local renewable energy deployment and adoption of sustainable technologies.	Sust., CDP	Immediate	Short-Term
Sl1.2.3.	Provide education and incentives to for residents and businesses to install renewable energy systems and sustainable technologies.	Sust., PW	Immediate	Ongoing

Action		Lead Responsibility	Initiation	Completion
Sl.1.2.4.	Partner with other local governments, organizations and individuals on planning and implementation of renewable energy systems and sustainable technologies.	Sust., PW	Ongoing	Ongoing
OUTCOME SI1.3: Reduced waste and increased reuse and recycling of materials.				
Sl1.3.1.	Implement the Solid Waste Management Plan, which establishes waste reduction goals and outlines how the City manages solid waste and recycling.	Sust., PW	Ongoing	Ongoing
OUTCOME SI1.4: Minimized potable water demand in the community.				
Sl1.4.1.	Develop and provide water conservation education and incentive programs for residents and businesses to promote the use of water efficient practices and products	Sust., PW, CM	Short-Term	Ongoing
Sl1.4.2.	Support incentives and revise applicable codes, policies and design guidelines to encourage water efficiency in new construction and landscaping.	Sust., CDP	Short-Term	Short-Term

Goal 2: Support physical activity and healthy lifestyles

Metrics Number of community garden plots, farmers markets and local food distributors

OUTCOME SI2.1: Access to healthy, regionally-grown foods.

Sl2.1.1.	Evaluate regulations that permit urban agriculture on publicly owned property and/or space for onsite community gardens in new multifamily and mixed-use developments.	Sust., CDP	Short-Term	Short-Term
Sl2.1.2.	Work with Fairfax County to develop a healthy food access plan.	HS	Short-Term	Long-Term

OUTCOME SI2.2: Access to parks, recreation, community facilities, trails and open space.

Sl2.2.1.	Promote walking and trail use as part of a healthy community initiative.	P&R	Immediate	Ongoing
Sl2.2.2.	Partner with Fairfax County and NOVA Parks to improve and expand the local and regional park system	P&R	Immediate	Ongoing

Action	Lead Responsibility	Initiation	Completion
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Economic Vitality

Goal 1: Increase the City’s ratio of commercial to residential real estate.

Metrics Percent of annual real estate revenue from non-residential property

Percent of office space classified as Class A

OUTCOME EV1.1: New development and redevelopment that maximize revenue generation from non-residential buildings and uses.

EV1.1.1.	Attract new commercial businesses while supporting and retaining existing businesses.	ED	Immediate	Ongoing
EV1.1.2.	Leverage proximity to George Mason University to attract university spin-outs and startups.	ED	Immediate	Ongoing
EV1.1.3.	Capitalize on proximity to Inova Fairfax Hospital to attract health and wellness-related businesses.	ED	Immediate	Ongoing
EV1.1.4.	Pursue technology-based and creative businesses to locate in the city.	ED	Immediate	Ongoing
EV1.1.5.	Pursue corporate headquarters to locate in the city.	ED	Immediate	Ongoing

Action	Lead Responsibility	Initiation	Completion
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Goal 2: Support diversification of the retail, service and office sectors .

Metrics Citywide average lease rates for retail properties

OUTCOME EV2.1: The retail and service sectors more effectively compete with other regional commercial sectors resulting in increased desirability as a destination.

EV2.1.1.	Attract new retail and service businesses representing sectors that have the ability to become regional destinations.	ED	Immediate	Ongoing
EV2.1.2.	Create new commercial areas that contain the amenities and atmosphere necessary to attract top-tier commercial tenants.	CDP, ED	Immediate	Ongoing

OUTCOME EV2.2: An improved office space inventory which attracts high-value tenants.

EV2.2.1.	Work with owners and operators of existing office buildings to encourage property renovations and upgrades needed to bring properties to Class A status.	ED	Immediate	Ongoing
EV2.2.2.	Encourage the provision of Class A office space in new commercial development projects and renovations.	ED, CDP	Immediate	Ongoing

OUTCOME EV2.3: A strong relationship with George Mason University is leveraged to support new development and investment that capitalizes on the needs of the University and supports the Comprehensive Plan Vision for the City.

EV2.3.1.	Use the newly-created position of MEC Business Incubator Director to graduate a consistent pipeline of at least one tenant per year to a permanent location within the City of Fairfax.	ED	Immediate	Ongoing
EV2.3.2.	Explore the establishment of a local development corporation or other formal partnership between the City and George Mason University.	ED	Immediate	Immediate

Action	Lead Responsibility	Initiation	Completion
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Goal 3: Transform the commercial corridors and activity centers.

Metrics Percentage of building area in Activity Centers that is within development that meets the intent of the Comprehensive Plan for those areas

OUTCOME EV3.1: Redevelopment projects in the commercial corridors and activity centers create destinations that attract tenants, customers and residents.

EV3.1.1.	Develop branding and marking strategy for individual activity centers.	ED	Immediate	Immediate
EV3.1.2.	Create a commercial targeting strategy to focus the City's efforts on attracting businesses that would have the greatest impact in competing with other regional commercial sectors.	ED	Immediate	Immediate
EV3.1.3.	Prepare conceptual designs for the local activity centers and present in dynamic marketing materials that clearly demonstrate the desired mix of uses, residential density, building intensity, design aesthetic, multimodal connections and parking.	ED, CDP	Immediate	Immediate

Goal 4: Create a single ZIP Code for the City.

OUTCOME EV4.1: The U.S. Postal Service designates a ZIP Code that is unique to addresses within Fairfax's city limits.

EV4.1.1.	Conduct a cost-benefit analysis.	CoR	Short-Term	Short-Term
EV4.1.2.	Request a Zip Code Boundary Review from the US Post Office.	City Manager	Short-Term	Long-Term

Action	Lead Responsibility	Initiation	Completion
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Community Services

EDUCATION

Goal 1: Ensure the City’s public education needs are met.

Metrics Reflected in School Board Strategic Plan

OUTCOME E1.1: The School Services Agreement with Fairfax County Public Schools, guided by the City of Fairfax School Board, continues to provide City students with the

E1.1.1.	Continue to follow the established guidelines of the School Services Agreement and to monitor its implementation.	SB	Ongoing	Ongoing
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OUTCOME E1.2: Public school facilities and grounds meet the current and future needs of the school-aged population.

E1.2.1.	Continue cooperation between City government and School Board to assess and plan for impacts from future residential development.	CDP	Ongoing	Ongoing
E1.2.2.	Continue to examine potential need for additional school facilities and the best use for the School Board’s Deed of Covenant on Green Acres.	CDP, P&R	Ongoing	Ongoing
E1.2.3.	Continue to ensure a safe learning environment, proper program capacities and the availability of the latest technology and functional accommodations.	SB	Ongoing	Ongoing

Goal 2: Ensure access to educational and training opportunities for all generations.

OUTCOME E2.1: All children will be well prepared to begin elementary school.

E2.1.1.	Continue to promote Pre-K instructional opportunities for all City Pre-K children.	SB	Ongoing	Ongoing
E2.1.2.	Increase access to early childhood literacy and after school care at the city’s community facilities, Fairfax Regional Library and other institutions.	SB, P&R	Immediate	Ongoing

OUTCOME E2.2: The City’s residents will have access to facilities and programs that foster an informed community.

E2.2.1.	Maintain access to the city’s community facilities, City of Fairfax Regional Library and other institutions for ongoing dialogue in educational events and discussions.	SB, P&R	Ongoing	Ongoing
E2.2.2.	Continue to provide residents and businesses with access to timely information on city government programs and initiatives via the monthly Cityscene newsletter, Cityscreen-12 television station, city’s website and email alerts.	CM	Ongoing	Ongoing

OUTCOME E2.3: Partnerships and community resources provide opportunities for training and continuing education.

E2.3.1.	Continue to foster good relations with nearby education providers such as George Mason University and Osher Lifelong Learning Institute (OLLI).	ED	Ongoing	Ongoing
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Action	Lead Responsibility	Initiation	Completion
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PARKS AND RECREATION

Metrics Reflected in Parks and Recreation Strategic Plan

Goal 1: Develop high quality park infrastructure.

OUTCOME PR1.1: A well-connected system of parks and trails that provides citizens with healthy choices for recreation and travel.

PR1.1.1.	Identify and address gaps in the connections between the City’s parks, open space and trails.	P&R, Trans., CDP	Immediate	Immediate
PR1.1.2.	Identify opportunities for future open space and trails in neighborhoods that are deficient in public recreation and open space opportunities.	P&R, CDP	Immediate	Short-Term
PR1.1.3.	Enhance public access to parks and recreational facilities by making any necessary infrastructure improvements.	P&R,Trans., CDP	Short-Term	Long-Term

OUTCOME PR1.2: A greater awareness of the City’s natural resources and commitment to protect and enhance them.

PR1.2.1.	Implement measures to preserve privately-owned land adjacent to parks and trails in perpetuity, e.g., conservation easements, deed restrictions, etc.	CDP, P&R	Immediate	Ongoing
PR1.2.2.	Adopt tree preservation guidelines for parks and trails.	P&R, PW	Immediate	Short-Term

Goal 2: Provide programs and services that meet the needs of the community.

OUTCOME PR2.1: Robust programming of the City’s parks and public facilities that provides opportunities for individuals of all ages and abilities to participate.

PR2.1.1.	Determine how the city’s long-term needs for a community center and senior center can be best met.	CDP, P&R	Immediate	Immediate
PR2.1.2.	Update parks and recreation facilities to ensure they are accessible to individuals of all abilities.	P&R	Immediate	Ongoing
PR2.1.3.	Expand and enhance the facility, program and service offerings through innovative funding, management best practices and cost recovery efforts.	P&R	Immediate	Ongoing
PR2.1.4.	Enhance Old Town Square as a destination and community gathering place by providing a venue for arts, recreation and green space.	P&R	Immediate	Ongoing

	Action	Lead Responsibility	Initiation	Completion
OUTCOME PR2.2: Expanded and enhanced partnerships with City businesses and other organizations such as City of Fairfax Schools, Fairfax County Park Authority, NOVA				
PR2.2.1.	Identify opportunities to expand partnerships with institutional and business communities.	P&R, ED	Ongoing	Ongoing
PR2.2.2.	Establish relationship and partnerships with various underrepresented, underserved or diverse demographic groups in the City to assist with developing programs and services to meet the needs of these communities.	P&R, HS	Ongoing	Ongoing
OUTCOME PR2.3: Rehabilitation or construction of public facilities to meet the programmatic and recreational needs of the community.				
PR2.3.1.	Enhance safety, accessibility, quality of service and cost effectiveness through comprehensive operations and maintenance programs and services.	P&R	Immediate	Ongoing
PR2.3.2.	Inventory the condition of existing public facilities and identify any necessary updates and repairs.	P&R	Ongoing	Ongoing

Goal 3: Market programs, special events, facilities and services.

OUTCOME PR3.1: A well informed community that utilizes the City’s quality programs and attends events.

PR3.1.1.	Conduct public opinion surveys of parks and recreation customers to identify desired changes in facilities and programming.	P&R	Ongoing	Ongoing
PR3.1.2.	Utilize a variety of communications’ platforms to publicize facilities, programs and events to the community.	P&R, CM	Ongoing	Ongoing

OUTCOME PR3.2: City events are a regional draw, resulting in increased economic vitality for local businesses.

PR3.2.1.	Increase awareness, participation and support of programs, facilities and services using innovative promotional and marketing initiatives.	P&R, CM	Ongoing	Ongoing
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Action	Lead Responsibility	Initiation	Completion
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CULTURAL ARTS

Goal 1: Integrate cultural facilities into the City.

OUTCOME CA1.1: Cultural facilities that provide opportunities for local, regional and national artists to perform for audiences of all sizes.

CA1.1.1.	Create a broad-based special commission charged with the mission of identifying short and long term needs for performance spaces and other facilities to support a robust City arts program.	CDP, P&R, ED	Immediate	Immediate
CA1.1.2.	Create a capital program for arts facilities, including a priority for a performing arts facility. This may include upgrading of school arts related facilities.	CDP, P&R, ED	Immediate	Short-Term
CA1.1.3.	Support the creation of Arts and Entertainment Districts with priority to Old Town Fairfax.	P&R, CDP	Immediate	Short-Term
CA1.1.4.	Identify underutilized or vacant private facilities that can function as temporary performance spaces.	P&R, CDP	Immediate	Immediate

OUTCOME CA1.2: Public art such as murals and sculptures displayed to identify, enhance and promote the cultural nature of the City.

CA1.2.1.	Promote the cultural arts identity of the City through public art.	P&R	Immediate	Ongoing
CA1.2.2.	Implement the City of Fairfax Public Art Policy and consider additional policies and practices that promote cultural vitality throughout the City.	P&R, ED	Immediate	Ongoing
CA1.2.3.	Create a cultural arts bike and pedestrian trail (e.g., Indianapolis Cultural Trail)	P&R, CDP, Trans.	Long-Term	Long-Term

Goal 2: Encourage a broad representation of arts opportunities.

OUTCOME CA2.1: Collaboration and partnerships support establishment of performance, rehearsal and educational opportunities for artists.

CA2.1.1.	Establish a mechanism for continuous collaboration with local schools, colleges/universities, and arts organizations on education for artists and programming.	P&R, ED	Short-Term	Short-Term
CA2.1.2.	Explore public/private partnerships to develop performance and rehearsal spaces.	ED	Short-Term	Long-Term

OUTCOME CA2.2: Cultural programming in the City increases opportunities for a wide range of cultural experiences.

CA2.2.1.	Consider creation of a Cultural Affairs office with a full time director.	City Manager	Immediate	Short-Term
CA2.2.2.	Identify and create plan to optimizing use of existing and future public facilities for cultural arts programs.	CR	Short-Term	Short-Term
CA2.2.3.	Enhance awareness of current and future programs and facilities.	CR	Immediate	Ongoing

OUTCOME CA2.3: Expanded and enhanced partnerships with city businesses and other organizations such as City of Fairfax Schools, Northern Virginia Community College,

CA2.3.1.	Expand partnerships with institutional and business communities for funding and facilities usage.	P&R, ED	Immediate	Ongoing
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GOVERNMENT AND PUBLIC SAFETY

Goal 1: Provide state of the art public facilities for local government and public safety operations.

OUTCOME GPS1.1: Public facilities and equipment that properly support the efficient functioning of City staff to provide valued services to City residents and businesses.

GPS1.1.1.	Maintain and update City facilities to ensure all are safe, accessible to individuals of all abilities, energy efficient and modernized to meet the changing needs of the community and operations.	Respective City Departments	Ongoing	Ongoing
GPS1.1.2.	Construction of new buildings, if warranted, that are accessible, sustainable and properly located, including co-location of multiple uses to meet the needs of the community and operations.	CDP, Respective City Departments	Immediate	Ongoing
GPS1.1.3.	Pursue right of first refusal agreement with Fairfax County on county-owned property located within the City.	Atty	Immediate	Long-Term

Goal 2: Provide high-quality community services.

OUTCOME GPS2.1: User-friendly and convenient customer service tools using the latest technology available.

GPS2.1.1.	Monitor trends and advancements in technology as they become available to determine if beneficial for use by City staff.	Respective City Departments	Immediate	Ongoing
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OUTCOME GPS2.2: Police protection and service that maintain a safe environment for residents, workers and visitors.

GPS2.2.1.	Prevent crime through safe environmental design.	CDP, Police	Ongoing	Ongoing
GPS2.2.2.	Support the implementation of the Police Department's long-range plans.	Police	Ongoing	Ongoing

OUTCOME GPS2.3: Responsive fire and rescue services that protect lives and property.

GPS2.3.1.	Support the implementation of the Fire Department's long-range plans.	Fire	Ongoing	Ongoing
GPS2.3.2.	Maintain and update City Fire facilities and equipment to ensure all are safe, accessible to individuals of all abilities, energy efficient and modernized to meet the changing needs of the community and staff.	Fire	Ongoing	Ongoing

	Action	Lead Responsibility	Initiation	Completion
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OUTCOME GPS2.4: Continued coordination and collaboration with appropriate jurisdictions, agencies and groups for emergency preparedness and response.

GPS2.4.1.	Survey assets and expand upon them to best capitalize on investment in preparedness.	EM	Ongoing	Ongoing
GPS2.4.2.	Continue education programs focused on establishing survivable spaces and promoting emergency preparedness.	EM	Ongoing	Ongoing

OUTCOME GPS2.5: Essential health and human services are readily available for all community members.

GPS2.5.1.	Improve access and availability to health and human services, amenities, and products.	HS	Immediate	Ongoing
GPS2.5.2.	Increase transit services options available to destinations where healthy food is sold or distributed such as food banks, farmers market and grocery stores.	Trans., HS	Short-Term	Ongoing
GPS2.5.3	Recognizing many human services are provided by outside agencies and are not directly marketed for the City, develop a marketing strategy targeting individuals in the City who could benefit from those services.	HS, CM	Immediate	Ongoing

INFRASTRUCTURE AND UTILITIES

Goal 1: Provide quality utility services and infrastructure systems.

- Metrics**
- Potable water consumption per capita
 - Solid waste generation per capita
 - Percent of water produced meeting Safe Drinking Water Act standards
 - Number of service (water, electricity and telecommunications) outages

OUTCOME IU1.1: Access to a clean, safe and reliable potable water supply.

IU1.1.1	Continue to work with Fairfax Water to ensure the City has access to safe and reliable drinking water.	PW	Ongoing	Ongoing
IU1.1.2	Encourage residents and businesses to conserve water in an effort to protect and preserve the water supply.	PW, CDP	Ongoing	Ongoing

OUTCOME IU1.2: A reliable and efficient wastewater system that collects, conveys and treats wastewater.

IU1.2.1	Maintain the ability to collect and transmit the disposal of wastewater.	PW	Ongoing	Ongoing
IU1.2.2	Continue to perform regular testing, maintenance and improvements to the City's wastewater collection system to ensure compliance with federal and state environmental regulations.	PW	Ongoing	Ongoing

OUTCOME IU1.3: A sustainable and efficient stormwater system.

IU1.3.1	Continue to implement the Virginia Stormwater Management Program (VSMP) and city's stormwater management program to ensure compliance with federal and state regulations.	PW	Ongoing	Ongoing
IU1.3.2	Continue to maintain and improve the City's stormwater system, utilizing green stormwater infrastructure where practical.	PW	Ongoing	Ongoing

OUTCOME IU1.4: Access to reliable energy and telecommunications infrastructure.

IU1.4.1	Partner with utility providers, local municipalities and regional groups to improve access to utility data and service outage data.	PW, CDP	Ongoing	Ongoing
IU1.4.2	Coordinate upgrades and replacement of non-City provided utilities, including electricity, water, natural gas and communications networks.	PW	Ongoing	Ongoing
IU1.4.3	Work with utilities, developers, and state agencies to relocate above-ground utility lines underground, where feasible, with an emphasis on major corridors.	PW, CDP	Ongoing	Ongoing

Action		Lead Responsibility	Initiation	Completion
IU1.4.4.	Encourage the placement and appearance of utility infrastructure (e.g. substations, transmission towers and lines, and switching boxes) to minimize visual disruption and negative effects on quality of life, and to enhance streetscapes.	PW, CDP	Ongoing	Ongoing
IU1.4.5.	Work with utility companies to ensure the reliability and availability of electricity, water, natural gas, and communications services during both normal times and times of stress (e.g. storm events, flooding, extreme heat, etc.).	PW	Ongoing	Ongoing

OUTCOME IU1.5: A safe and well-connected rights-of-way system that provides a functional surface transportation system and utility infrastructure services throughout the City.

IU1.5.1.	Evaluate and ensure that there is adequate lighting along all major streets.	PW	Immediate	Ongoing
IU1.5.2.	Convert light fixtures and street lights to light emitting diodes (LEDs) and down-cast lighting.	PW	Immediate	Ongoing
IU1.5.3.	Develop an inventory of existing public right-of-way infrastructure assets (e.g. street lights), current infrastructure conditions, and priorities for maintenance or rehabilitation.	PW	Immediate	Ongoing
IU1.5.4.	Provide right-of-ways that will permit the expansion of tree planting strips and tree wells to provide more suitable growing conditions for street trees.	PW, CDP	Immediate	Ongoing

OUTCOME IU1.6: Access to reliable and efficient solid waste and recycling services and infrastructure.

IU1.6.1.	Maintain and enhance solid waste and recycling infrastructure in City parks, trails, sidewalks, public facilities and at events.	PW	Ongoing	Ongoing
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Goal 2: Expand the use of advanced technology.

OUTCOME IU2.1: All City residences, businesses and institutions have access to reliable and affordable advanced technology and telecommunications infrastructure and services.

IU2.1.1.	Periodically update policies and regulations for the design and siting of telecommunication facilities to ensure they remain applicable with fast-changing communication technologies.	CDP	Immediate	Ongoing
IU2.1.2.	Explore public-private partnerships as a way to enhance the City's telecommunications infrastructure.	PW, ED	Short-Term	Ongoing
IU2.1.3.	Consider implementing innovative pilot initiatives that advance new technologies (e.g., regenerative power, solar powered charging stations, etc.).	PW, CDP	Long-Term	Ongoing



Chesapeake Bay Preservation Plan

The City of Fairfax recognizes the importance of preserving its valuable water resources for future generations and the need to take steps to protect them from the adverse effects of pollution generated by urban land uses. The City of Fairfax also recognizes that land use activities adversely affecting City streams also adversely impact the health and viability of downstream resources, the most important of which is the Chesapeake Bay. The Chesapeake Bay is an important economic, social, and ecological resource whose continued health is of benefit to all citizens of the Commonwealth.

The City of Fairfax has a vested interest and a responsibility to maintain and promote a healthy environment, including the protection of local waterways from further degradation as a result of development. In addition, steps must be taken to improve currently degraded resources to ensure the long-term health of both the City's resources and the Chesapeake Bay. The City has risen to the challenge of natural resources and water quality protection and is committed to the implementation of the Chesapeake Bay Preservation Area Designation and Management Regulations as manifest by the Chesapeake Bay Preservation Act of 1988. These regulations apply to all localities within Tidewater Virginia; however, it is the individual jurisdictions that are responsible for identifying and implementing Chesapeake Bay preservation strategies.

The City has made progress towards maintaining and promoting a healthy environment; nonetheless, significant environmental issues still need to be addressed. This Chesapeake Bay Preservation component to the City's Comprehensive Plan has been prepared to serve as a planning tool for the City Council, the Planning Commission, City agencies, and citizens to help guide the City in its protection of the Chesapeake Bay and the natural resources of the City.



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Section 1. Introduction, Purpose and Legal Authority

Recognizing the economic and social importance of ensuring the long term viability of State waters, and in particular the Chesapeake Bay and its tributaries, the Virginia General Assembly enacted the Chesapeake Bay Preservation Act of 1988. The Chesapeake Bay Preservation Area Designation and Management Regulations as adopted in 1989 and amended in 1991, 2001 and in 2012, state that local programs shall contain “a comprehensive plan or revision that incorporates the protection of Chesapeake Bay Preservation Areas and of the quality of state waters, in accordance with criteria set forth in Part V (9VAC25-830-160 et seq.)”.

The City of Fairfax recognizes the importance of maintaining the integrity of State waters and the Chesapeake Bay to the citizens of the Commonwealth. The waters of the Chesapeake Bay have been degraded significantly by many sources of pollution, including nonpoint source pollution from land uses and development. Existing high quality waters are worthy of protection from degradation to guard against further pollution. Certain lands that are proximate to shorelines have intrinsic water quality value due to the ecological and biological processes that they perform. Other lands have severe development constraints as a result of flooding, erosion, and soil limitations. With proper management, they offer significant ecological benefits by providing water quality maintenance and pollution control, as well as flood and shoreline erosion control.

To achieve these ends, the City Council and the Planning Commission have, in accordance with the Chesapeake Bay Preservation Area Designation and Management Regulations (9VAC25-830), developed a Chesapeake Bay preservation program which is centered around the City’s Chesapeake Bay Preservation regulation of the Zoning Ordinance. This Chesapeake Bay Preservation component to the City’s Comprehensive Plan builds upon the City’s regulation and is designed to protect those qualities of life held important by the citizens of the Commonwealth and the City and to encourage future development that enhances and compliments the growth of the City as well as protects its natural resources.



Section 2. Water Resources Protection Programs and Regulations

The City of Fairfax has made substantial progress towards ensuring the protection and balanced management of its natural resources through the implementation of various City regulations and water quality protection and pollution prevention programs. While the Chesapeake Bay Preservation regulation is the City's primary tool for protecting water resources within the City, water quality and natural resources protection requires an integrated approach.

This involves not only regulation but also citizen participation through the use of public education and volunteer programs. Enforcement of the City's Chesapeake Bay Preservation regulation must be coupled with a comprehensive examination of how the City's various land use regulations, including its Zoning and Subdivision ordinances, may be better utilized to protect the natural environment.

The following is an overview of the City's

existing regulations and programs related to water quality and natural resources protection. These regulations and programs are then reexamined and options are presented for their improvement in light of an analysis of the City's water resources (Section 3), existing and potential sources of pollution (Section 4), and constraints to development (Section 5).

2.1. Chesapeake Bay Preservation Regulation

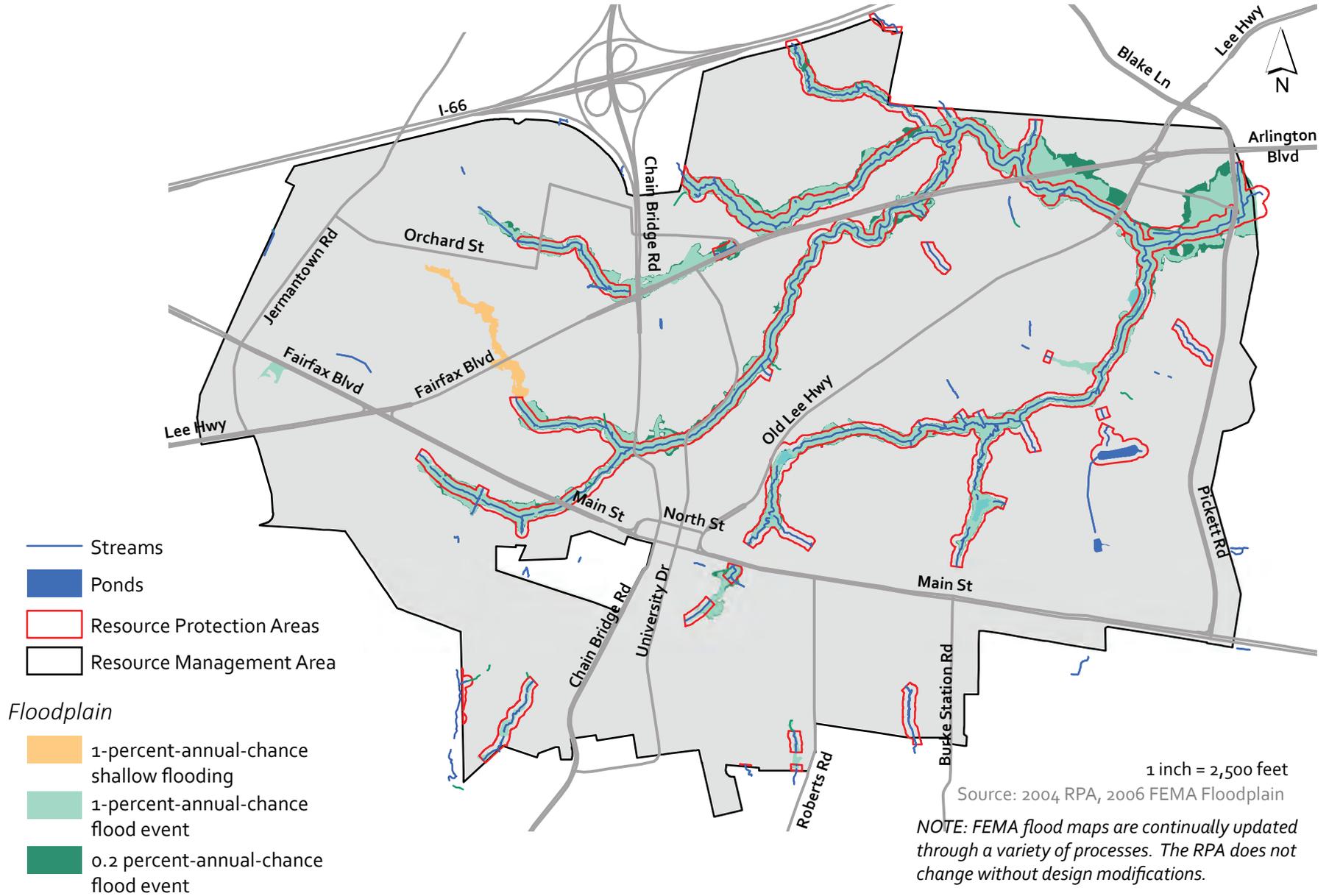
The Chesapeake Bay Preservation Act (Chapter 3.1 of Title 62.1 of the Code of Virginia) establishes a program to protect environmentally sensitive features which, when disturbed or developed incorrectly, lead to reductions in water quality in the Chesapeake Bay. The Act provides a framework for local government to identify these sensitive areas and to enact regulations to better plan land use activities on and around them. Under the regulations, the City of Fairfax is called to promote the following:

- Protection of existing high quality State waters and restoration of all other State waters to a condition or quality that will permit all reasonable public uses, and will support the propagation and growth of all aquatic life which might reasonably be expected to inhabit them;

- Safeguarding the clean waters of the Commonwealth from pollution;
- Prevention of any increase in pollution;
- Reduction of existing pollution; and,
- Promotion of water resource conservation in order to provide for the health, safety, and welfare of the present and future citizens of the Commonwealth.

In accordance with State guidelines, Chesapeake Bay Preservation Areas (CBPAs) were mapped for the City of Fairfax and the City adopted a Chesapeake Bay preservation area map as part of the City's Zoning Ordinance in October, 1990 and was most recently amended in March, 2015 (§4.18. et seq.). The Chesapeake Bay Preservation Areas were delineated for the city according to criteria established by the State Department of Conservation and Recreation. Figure A1 presents the City's Floodplain and Chesapeake Bay Preservation Area Map.

FIGURE A1 FLOODPLAIN AND CHESAPEAKE BAY PRESERVATION AREA MAP



The resource protection area (RPA) includes (1) tidal wetlands; (2) nontidal wetlands connected by surface flow and contiguous to tidal wetlands or water bodies with perennial flow; (3) tidal shores; (4) intermittent streams that remain largely in a natural condition and that have not been significantly impacted by adjacent development; (5) water bodies with perennial flow; and (6) a 100-foot vegetated buffer area located adjacent to and landward of the components listed above, and expanded to include noncontiguous wetlands within the floodplain that are partially located within the buffer, along both sides of any water body with perennial flow.

In general, development within the RPA is limited to water dependent uses, passive recreational uses, utilities and public facilities, and certain types of redevelopment so long as the proposed land use is carried out in accordance with the provisions of the City's Zoning Ordinance.

The resource management area (RMA) includes all lands in the city that are not designated as an RPA. All development or redevelopment within a Chesapeake Bay preservation area exceeding 2,500 square feet of disturbed land area shall be subject to the general performance standards in

§4.18.7 of the Zoning Ordinance as well as the development review procedures of §6.13 of the Zoning Ordinance.

The performance standards establish the means to minimize erosion and sedimentation potential, reduce land application of nutrients and toxics, and maximize rainwater infiltration. Natural ground cover, especially woody vegetation, is most effective in holding soil in place and preventing site erosion. Indigenous vegetation, with its adaptability to local conditions without the use of harmful fertilizers or pesticides, filters stormwater runoff. Minimizing impervious cover enhances rainwater infiltration and effectively reduces stormwater runoff potential.

The performance standards are intended to prevent a net increase in nonpoint source pollution from new development and to achieve a 10 percent reduction in nonpoint source pollution from redevelopment.

2.2. Erosion and Sediment Control Regulation

The purpose of the City's Erosion and Sediment Control Regulation is to prevent the degradation of properties, stream channels, waters, and other natural resources by providing that adequate soil erosion and sediment control measures are taken before, during, and after the period of site clearance, development, and construction. The Erosion and Sediment Control Ordinance implements the Virginia Erosion and Sediment Control Law (§ 62.1-44.15:51 et seq of the Code of Virginia (2013)) as well as the Chesapeake Bay Preservation Act.

Under this ordinance, land owners proposing a nonexempt regulated land disturbing activity of greater than 2,500 square feet must first submit an erosion and sediment control plan to the City Department of Public Works. The City's erosion and sediment control requirements are detailed in Erosion and Sediment Control section of the Zoning Ordinance (§4.17).

2.3. Landscaping Regulation

The City's landscaping regulations are intended to encourage the planting and proper care of vegetation and trees throughout the city, to enhance tree canopy, and to provide for appropriate screening. These actions are intended to contribute to the health, safety and welfare of the city by enhancing pedestrian facilities, decreasing flooding, soil erosion, air pollution and noise, and improving aesthetics.

The regulation controls the removal of trees from public and private property and establishes standards limiting tree removal and ensuring the replacement of trees sufficient to safeguard the ecological and aesthetic integrity of the community's environment. In addition, the regulation was enacted: to prevent the unnecessary clearing and disturbing of land so as to preserve, insofar as is practicable, the natural and existing growth of vegetation; to replace the removed trees with new trees or large shrubs on the same property and in the same general location; to provide protective regulations against hazardous trees and diseased trees or shrubs; to control activities related to trees and plantings upon the streets or public properties of the City; and to establish a permit procedure for tree contractors. The City's landscaping

requirements are detailed in the landscape section of the Zoning Ordinance (§4.5).

Tree cover has long been recognized as serving to protect water quality. Tree canopy provides a buffer between precipitation and the soil by slowing the rate and velocity of rainfall.

Tree roots serve to keep soil particles in place and from washing away due to rainfall. Vegetation of all types also extract nutrients from water for use in plant tissues. In addition, tree cover in riparian areas serves to protect aquatic habitat by lowering and stabilizing stream temperature.

2.4. Floodplain Regulation

In 1981, the Federal Emergency Management Agency (FEMA) investigated the existence and severity of flood hazards in the City of Fairfax to aid in the administration of the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973. The study was also meant to be used by local and regional planners in their efforts to promote sound floodplain management. To these ends, the City established a floodplain district as part of the City's Zoning Ordinance in 1982, which has been continually updated. The current Floodplain regulation was adopted by the City in March 2015.

The purpose of the City's floodplain regulation is to prevent the loss of life and property, the creation of health and safety hazards, the disruption of commerce and governmental services and the extraordinary and unnecessary expenditure of public funds for flood protection and relief, and the impairment of the tax base by:

- Regulating uses, activities, and development which, alone or in combination with their existing or future uses, activities, and development, will cause unacceptable increases in flood heights, velocities, and frequencies.
- Restricting or prohibiting certain uses, activities, and development from locating within districts subject to flooding.
- Requiring all those uses, activities, and developments that do occur in flood-prone districts to be protected and/or flood proofed against flooding and flood damage.
- Protecting individuals from buying land and structures which are unsuited for intended purposes because of flood hazards.

In addition to protecting life and property, the floodplain regulation serves to protect water quality by decreasing the potential for stream bank erosion and by providing, in many instances, vegetated stream buffer areas which filter runoff from surrounding impervious areas. Figure A1 on page 3 depicts areas of Fairfax that have been designated as flood prone (the one-hundred year floodplain) for which the City's regulation applies. The City's floodplain regulations are detailed in §4.15 of the Zoning Ordinance.

2.5. Zoning and Subdivision Ordinances

The City's Zoning and Subdivision ordinances provide the City with valuable tools for natural resources protection through better development and redevelopment practices. Many of the City's water quality protection regulations, including the City's Chesapeake Bay Preservation regulation and Floodplain regulation are contained within the City's Zoning Ordinance as overlay districts. Protection of water resources may be accomplished through the application of Zoning Ordinance provisions which relate to impervious coverage requirements, land use densities, etc. For instance, creative parking requirements to minimize impervious areas, including cooperative parking arrangements

between businesses, may be used to minimize impervious cover.

2.6. City Source Control Programs

The control of pollutants before they enter stormwater or groundwater is recognized as the most cost effective and environmentally sound method of environmental protection. While the effectiveness of source control programs are difficult to ascertain due to their heavy reliance on human behavior modification, they are nevertheless integral components of the Commonwealth's Chesapeake Bay preservation effort. The City has addressed source control on a number of fronts, many of which are specifically geared at water quality protection and some of which have water quality protection as direct benefit. Among the City's source control programs which benefit water quality are its street sweeping program, curbside leaf and brush pickup service, and recycling program.

Street sweeping is effective in removing harmful pollutants, particularly litter and sand from deicing and snow removal activities. Under the City's street sweeping program, main streets are swept once a week from mid-March through mid-November and subdivision streets are swept three times a

year. In order for the City's program to have a more substantial effect on water quality, more frequent and concentrated street sweeping would need to be implemented. Specifically, more intense street sweeping efforts in downtown areas, where nutrients and other pollutants tend to accumulate at higher rates, may be of direct benefit to water quality.

In addition to street sweeping, the City conducts a curbside leaf and brush pickup service which discourages those whose properties lie within a RPA from dumping yard waste near streams where it can kill vegetation. This practice can result in erosion and the leaching of excess nutrients into the local stream. In conducting its program, the City should take care to make sure that leaves are not placed directly in the gutter where they can be washed into the local stream course.

The City has an extensive recycling program which has collections for most recycling materials including plastics, glass, metals, etc. The City also collects potentially hazardous substances such as used oil, oil filters, rechargeable batteries, and car batteries at the Property Yard Recycling Center. The City advertises its recycling program in the Public Works Department's insert to the City's monthly newsletter several times a year. New

homeowners are provided with a packet of information on recycling requirements and facilities within the City.

In addition to City source control efforts, the Department of Environmental Quality (DEQ), Water Division, works directly with owners of underground storage tanks (USTs) to ensure that these tanks do not impact on groundwater quality. The DEQ, Water Division, has an extensive monitoring program to detect and mitigate any leaking USTs before substantial groundwater quality degradation can occur.

2.7. Local and Regional Watershed Management Efforts

For many years, the stormwater drainage system of the City of Fairfax has been under considerable stress as the result of a rapid increase in the City's jurisdiction-wide imperviousness. Several types of stormwater system problems have been identified within the Accotink Creek watershed including streambank and streambed erosion, sedimentation, localized flooding, deteriorated drainage facilities, limited capacity of the drainage system as originally designed, and finally, pollutants affecting water quality.

In the last few decades, several water quality related regulations, as summarized below, have been enacted that has made it necessary for the City to investigate and address these problems on a watershed-wide basis.

- **National Pollution Discharge Elimination System:** Established by the United States Environmental Protection Agency (EPA) in 1987 as an amendment to the Clean Water Act, the National Pollution Discharge Elimination System requires permits for discharges from municipal separate storm sewer systems to limit pollutant discharges into streams, rivers, and bays. The DEQ administers the program as the Virginia Pollutant Discharge Elimination System.
- **Chesapeake Bay Preservation Act:** Established by the DEQ in 1988 to improve water quality in the Chesapeake Bay. Localities are required to adopt programs to protect water quality in the Chesapeake Bay from excessive nutrients caused by stormwater runoff from impervious surfaces.
- **Virginia Stormwater Management Program:** These regulations were established by the DEQ and include requirements for erosion and sediment control during the construction process and for the installation of BMPs to address stormwater runoff post-construction.
- **MS4 Permits:** Issued by the DEQ and EPA, these regulatory permits require local governments to implement a variety of programs (ranging from detection and correction of illicit discharges to public outreach and education) to lessen the volume of pollutants carried by their municipal stormwater conveyance systems. These permits require consistency with the pollution budgets of applicable total maximum daily loads (TMDLs); and have been issued over time.
- **Local TMDL:** Established by the DEQ and EPA, these TMDLs set target reductions for pollutants (nutrients, sediment, bacteria, trash and PCBs) in a number of waters in the region that have been designated as 'impaired'.

- **Chesapeake Bay TMDL:** Established by the EPA in December 2010, this historic and comprehensive “pollution diet” requires reductions in nutrient (nitrogen and phosphorus) and sediment pollution throughout the Chesapeake Bay watershed and for major tributaries such as the Potomac River.

To determine how the City of Fairfax will face its watershed challenges, the City completed a Watershed Management Plan in July 2005. The plan evaluated watershed conditions and included recommendations on how to improve watershed health. The City also completed an Accotink Creek Stream Stability Assessment and Prioritization Plan in October 2007 and a supplement report for Daniels Run in October 2008. These reports captured the scale and extent of stream bank erosion in the Accotink Creek watershed and included a prioritization plan for future restoration activities based upon observed conditions.

The City has been continually implementing the recommendations identified in these reports. For example, the City has made significant efforts to stabilize the stream banks to handle the urban stormwater runoff and flows by implementing stream restoration and stabilization improvements at numerous

locations on Accotink Creek.

The City of Fairfax also participates in regional efforts by being a member of the Chesapeake Bay Policy Committee, which was established by the Metropolitan Council of Governments (COG) Board of Directors. Elected officials and staff from COG’s member governments, and water and wastewater utilities comprise the committee’s membership. The Committee tracks developments under the federal-state Chesapeake Bay Program for implications to local governments and recommends Bay-related policies to the Board.

On June 16, 2014, the Chesapeake Bay Watershed Agreement was signed. Signatories include representatives from the entire watershed, including the Commonwealth of Virginia, committing for the first time the Chesapeake Bay’s headwater states to full partnership in the Chesapeake Bay Program. This plan for collaboration across the Bay’s political boundaries establishes goals and outcomes for the restoration of the Bay, its tributaries and the lands that surround them.

Section 3. Inventory of Existing Water Resources

The City of Fairfax contains a wealth of natural resources which benefit both residents and businesses within the City. Of its natural resources, the City's water resources are among the most important from an economic, social, and ecological point of view, as well as the most sensitive. Land uses and development, air pollution, and human carelessness all contribute to the degradation of water resources.

The City has been able to protect many stream corridors through the expansion of its public park system and the preservation of vegetative buffers. However, as the population grew from only 1,946 in 1950 to 24,097 in 2017, development pressures resulted in a dramatic increase in the City's impervious acreage and a loss of natural vegetation. While past responses to the pressures of development have resulted in the implementation of erosion and sediment control measures, stormwater quantity measures to control flooding, and floodplain protection, only recently have the post-development effects of urbanization

on water quality been fully appreciated and addressed.

With the adoption of the City's Chesapeake Bay Preservation regulation in 1990, the City committed itself to a comprehensive and integrated approach to water quality protection. In order to better plan for future development and redevelopment within the City and to identify ways to enhance the quality of life through the preservation and restoration of the City's water resources, it is important to understand the resources which exist within the City. The following section presents an inventory of the water resources within the City including watersheds and streams, water supplies, water supply protection, and groundwater.

3.1. Streams and Watersheds

The City of Fairfax is located at the confluence of four major drainage divides and includes portions of the Accotink Creek, Pohick Creek, Pope's Head Creek, and Difficult Run watersheds. As a unique consequence, practically all watercourses within the City (with the exception of a few tributaries to Accotink Creek in the northeastern portion of the City) originate within its boundaries and are not directly affected by activities

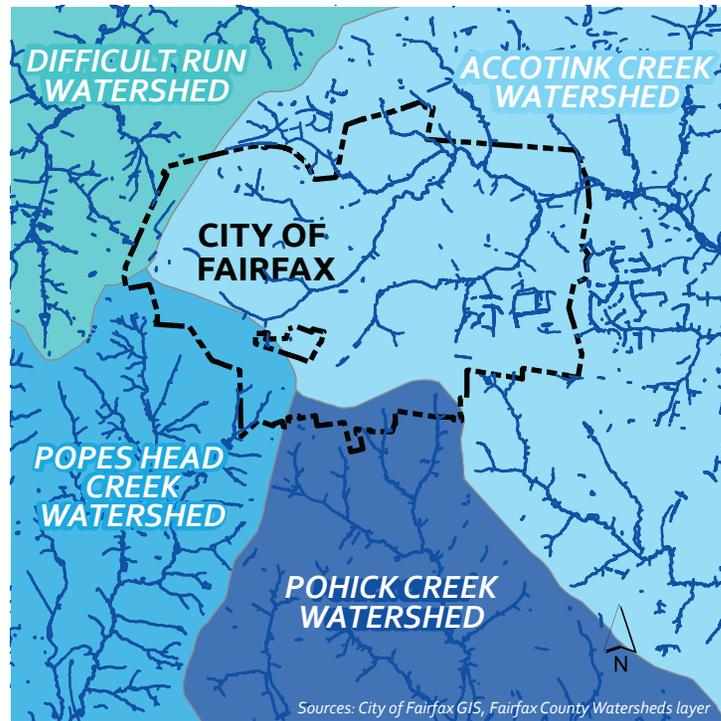
from neighboring jurisdictions. This provides a considerable level of control to the City over the water quality of its streams. Major perennial streams which flow through the City of Fairfax include Accotink Creek (north and central forks) and Daniel's Run (also known as the south fork of Accotink Creek), which drains to Accotink Creek within the City. Many smaller tributaries drain to Accotink Creek and Daniel's Run in a roughly dendritic (branched) pattern which has been substantially modified by development and channelization.

The City of Fairfax contains the headwaters of Accotink Creek, which flows through southern Fairfax County and empties into Accotink Bay and Gunston Cove and then into the Potomac River. Within the City, Accotink Creek is primarily a gravelly bottomed fast flowing stream. However, in some wide, shallow, or slower moving areas, particularly in areas upstream of culverts, thick layers of sediments have been deposited over the gravel as a result of excessive erosion and both natural and man-made stream course blockage. Throughout much of the City, Accotink Creek is only five to ten feet wide and relatively shallow. However, the creek widens to ten to twenty-five feet and is several feet deep where it exits

the northeastern edge of the City near the intersection of Pickett Road and Old Pickett Road in Thaiss Park.

According to the Division of Soil and Water Conservation’s Hydrologic Units Map of Northern Virginia, the City of Fairfax lies primarily within the Accotink Creek watershed (HUC Code: 020700100402) which drains approximately 90% of the City. The Pohick Creek watershed (HUC Code: 020700100401), which drains the southeastern portion of the City covers approximately 3% of the City. The Difficult Run watershed (HUC Code: 02070081004), which drains the area west of Jermantown Road, covers approximately 3% of the City while the Popes Head Creek watershed (HUC Code: 020700100705), which drains the southwestern portion of the City, covers approximately 4% of the City. Popes Head Creek flows through south-central Fairfax County, bisecting the Town of Clifton, and eventually empties into the Occoquan Reservoir. This is significant due to the fact that the Occoquan serves as a primary drinking water supply for a large percentage Northern Virginians. Figure A2 presents a schematic of the City’s major watersheds. Figure A3 presents a schematic of the major streams within the City.

FIGURE A2 WATERSHEDS

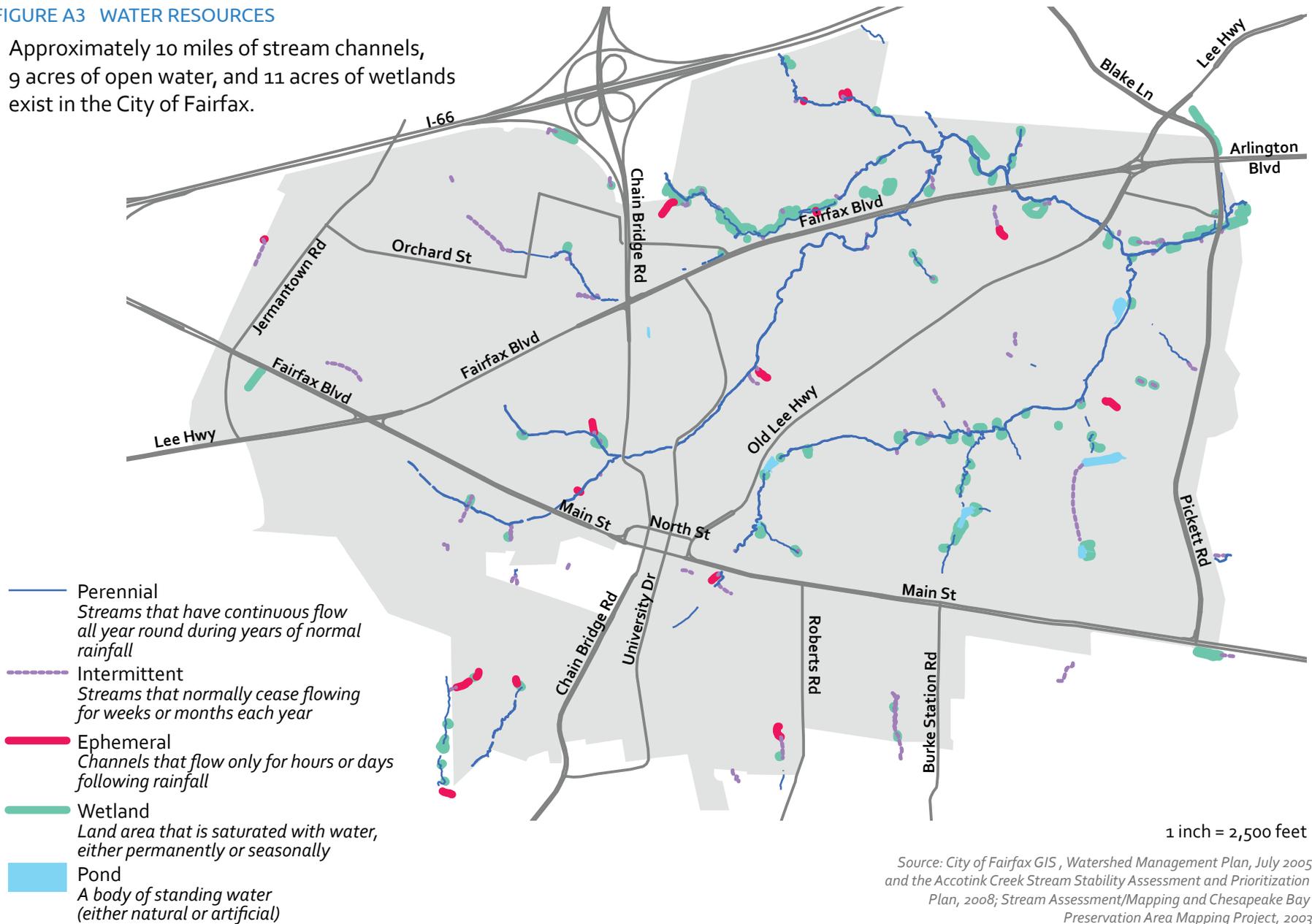


Tributary streams within the City are subject to runoff from shopping centers, garages, parking lots, and other potentially high pollution areas. Storm drains feed the majority of the streams passing through the City and have been implicated as sources of pollution from improperly disposed petroleum products. Although many tributaries have

been cleared to their banks, or have been modified to enhance drainage capacity, only a relatively small proportion of the City’s perennial streams have actually been piped or channelized with concrete. The implications that the City’s land uses, impervious cover, and human activities have on water quality are further detailed in Section 4.

FIGURE A3 WATER RESOURCES

Approximately 10 miles of stream channels, 9 acres of open water, and 11 acres of wetlands exist in the City of Fairfax.



3.2. Water Supply

The City of Fairfax sold its water system to Fairfax Water on January 2, 2014. Since that sale, Fairfax Water has been providing water services to the City as presented on Figure A4.

Per the Fairfax Water Strategic Plan 2020, “Fairfax Water owns and operates the two largest water treatment facilities in Virginia with an average daily water production of 163 million gallons and combined maximum capacity of 376 million gallons per day. The James J. Corbalis Jr. treatment plant is at the northern tip of Fairfax County and the Frederick P. Griffith Jr. treatment plant is on the southern border of Fairfax County. Fairfax Water also purchases water from the McMillan and Dalecarlia treatment plants in Washington DC. They are part of the Washington Aqueduct, owned and operated by the U.S. Army Corps of Engineers. Fairfax Water draws raw water from two primary sources: the Potomac River and the Occoquan Reservoir, which is fed by the Occoquan River.”

The principal source of potable water for the City is the Potomac River and Occoquan Reservoir that is treated at the James J. Corbalis Jr. or Frederick P. Griffith Jr. treatment plants. Fairfax Water continually works to reliably meet the needs of present and future

FIGURE A4 FAIRFAX WATER SERVICE AREAS



Source: Fairfax Water 2016 Annual Water Quality Report

- Customers in this service area receive water from the Potomac River and Occoquan Reservoir that is treated at the James J. Corbalis Jr. or Frederick P. Griffith Jr. treatment plants, owned and operated by Fairfax Water
- Customers in this service area receive water from the Potomac River that is treated at the McMillan and Dalecarlia water treatment plants, part of the Washington Aqueduct system, owned and operated by the U.S. Army Corps of Engineers
- Customers in this service area receive water from the Potomac River that is treated at the Dalecarlia water treatment plant, part of the Washington Aqueduct system, owned and operated by the U.S. Army Corps of Engineers

customers. The City of Fairfax will continue to work with Fairfax Water to ensure the City has access to safe and reliable drinking water.

In compliance with federal Safe Drinking Water Act, the Virginia Department of Health (VDH) conducts source-water assessments, which consist of figures of the evaluated watershed area, an inventory of known land-use activities, and documentation of known source-water contamination. The Potomac River and the Occoquan Reservoir were determined to be of high susceptibility to contamination.

In addition to protecting the City's water supply from pollution, water conservation practices help conserve and protect it from depletion. Conservation also reduces the amount of potable water that reaches the City's sanitary sewer system and reduces the potential that landscape irrigation and car washing will result in water pollution. The City should develop a program to encourage City residents on a more regular basis to practice water conservation, including the voluntary replacement of water-intensive (or leaky) fixtures in the home with new low consumption fixtures. Incorporation of water conservation into the school curriculum is also an effective approach and has been used elsewhere in northern Virginia, including Arlington County.

3.3. Water Quality Monitoring

Protecting the quality of surface water resources is a concern for many urban jurisdictions. The removal of tree canopy cover, which serves to stabilize and cool stream temperatures, as well as increased imperviousness of surrounding areas, which increases the volume and velocity of stormwater runoff into local streams, have a generally negative effect on stream water quality. Water quality may be decreased as a result of pesticide and fertilizer laden runoff from adjacent lawns or by runoff from parking lots which may contain nutrients, heavy metals, and hydrocarbons. Eroding stream banks contribute to urban water quality problems by choking local streams with sediment. Illegal dumping into storm sewers, trash and litter, animal and pet wastes, and leaking above ground and underground storage tanks also take their toll on urban water quality.

The City's established Water Quality Monitoring Program (WQMP) helps the City meet the requirements contained in Section I.B.2.e of the City's Municipal Separate Storm Sewer System (MS4) permit, and Item 9 in the City of Fairfax's DEQ approved TMDL Action Plans. It was designed to assist in assessing the effectiveness of all the City's Local TMDL Action

Plans. Under the program, the City collects water quality samples which are analyzed for water quality parameters including Total Suspended Solids (TSS), Bacteria (E. coli), temperature, specific conductance, Dissolved Oxygen (DO), pH, turbidity, nitrate + nitrite, total phosphorus, and volatile suspended solids. Samples are collected twice a year from six representative MS4 outfalls located within the drainage sheds of the impaired reaches of Difficult Run, Accotink Creek, and Popes Head Creek.

The City utilizes the water quality sampling data to address multiple objectives including: screening for potential sources of the pollutants of concern discharging into the City's MS4; targeting locations within the MS4 permit area for implementation of BMPs; educating the public on the potential water quality impacts of their actions and behavior within the MS4 drainage area; and ultimately to aid in assessing the overall effectiveness of the Action Plan in reducing the discharge of the pollutants of concern from the City's MS4.

At the end of each MS4 permit reporting period, the City prepares annual Water Quality Monitoring Reports, which are included with the City's MS4 Annual Report. Once appropriate amounts of sampling data have

been collected under the WQMP, the City will analyze the results to determine the next steps to take with the MS₄ Permit Program and local TMDL Action Plans.

3.4. Groundwater Resources

While the City of Fairfax no longer relies on groundwater resources for its potable water supply, groundwater is nonetheless an important water resource. An investigation of the groundwater resources of the City is important because groundwater is intimately connected with the ecosystem as it provides the base flow to many rivers, streams, ponds, lakes, and wetlands. Groundwater is also an issue of regional importance due to its dynamic nature, as was shown when a leaking oil storage tank at the Fairfax Tank Farm formed a plume which spread from the eastern edge of the City into the Mantua neighborhood of Fairfax County. Because the City no longer relies on groundwater for its potable water supply, recent data on City-wide groundwater dynamics and quality is not available.

Section 4. Existing and Potential Sources of Water Pollution

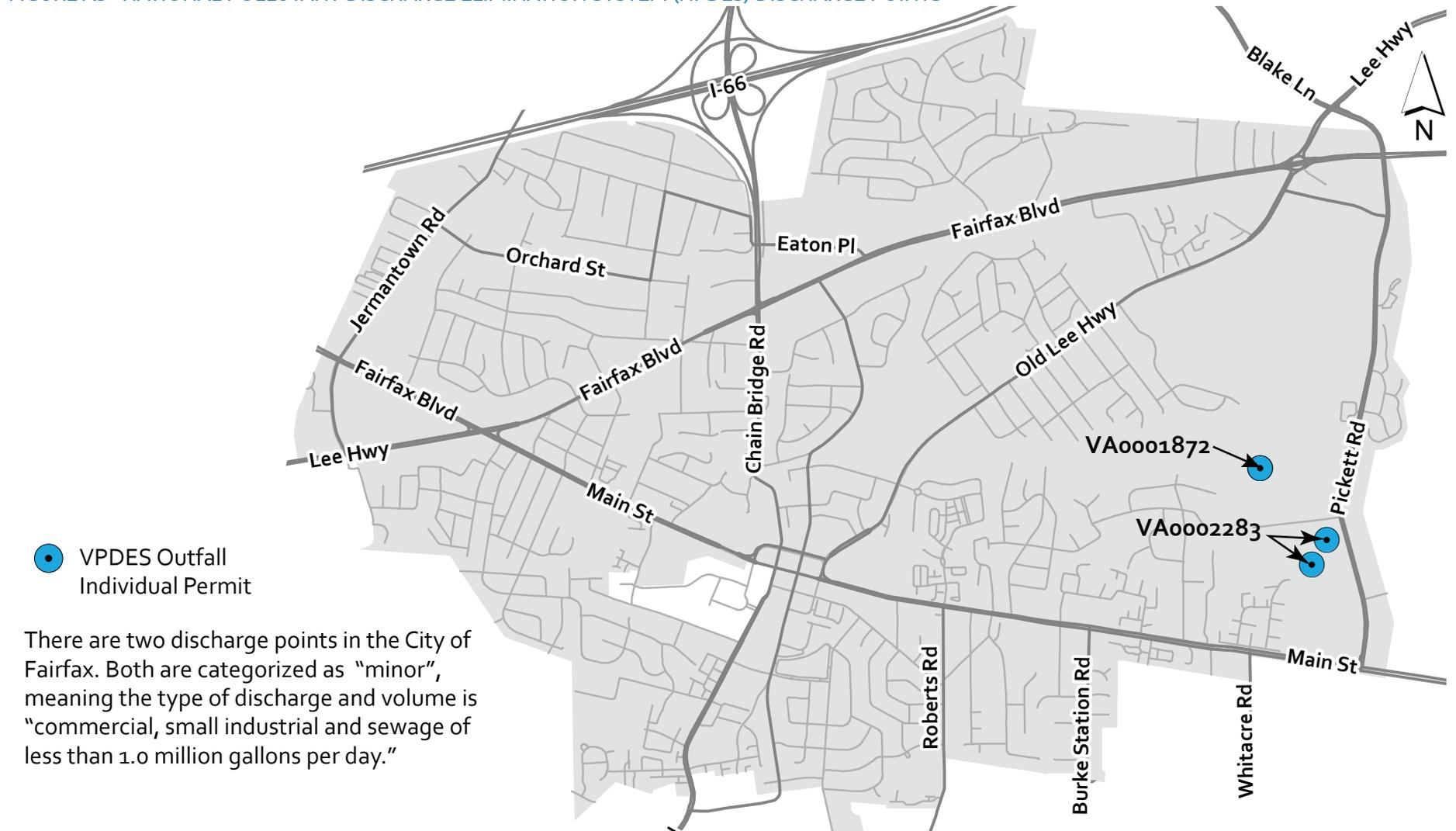
While some level of environmental pollution resulting from human activity may be inevitable, the cost of pollution and its effects on quality of life should not be ignored. Unmanaged pollution can result in surface and groundwater contamination, poor air quality, aesthetic degradation of the landscape, and the destruction of important ecological habitats, all of which detract from the City's basic character. The most cost-effective approach to the problem of pollution is to prevent it at its source. A number of tools are available to the City to aid in pollution prevention, including public education and awareness programs, water conservation, lawn care programs, and recycling efforts, to name only a few. The cost to the City once environmental damage is done includes not only short term clean-up costs, but long-term costs including decreased property values and loss of tax base. The following section describes the City's existing sources of pollution as well as potential sources of pollution which the City may face as it grows and develops.

4.1. Point Source Pollution

Point source pollution is pollution which can be attributed to a specific outfall and is therefore often the most easily recognizable and regulatable form of pollution. Industries and municipalities, under the federal Clean Water Act, National Pollution Discharge Elimination System, are required to report pollution discharges to water courses above a certain threshold, and to the maximum extent practicable, mitigate the effects of the pollution on the environment. The DEQ, Water Division, maintains records on these sources of pollution and is charged with ensuring that environmental regulations are enforced.

There are two National Pollution Discharge Elimination System discharge points located within the City of Fairfax (VA0001872 and VA0002283), both of which drain to tributaries of Accotink Creek (see Figure A 5). The discharge points are associated with ongoing activities at the Fairfax Tank Farm Terminal Complex located on Colonial Avenue. The City's water quality is not affected by any upstream point source discharges from surrounding Fairfax County or other jurisdictions. There are currently no municipal discharge points on property owned by the City which fall under the National Pollution Discharge Elimination

FIGURE A5 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE POINTS



● VPDES Outfall Individual Permit

There are two discharge points in the City of Fairfax. Both are categorized as “minor”, meaning the type of discharge and volume is “commercial, small industrial and sewage of less than 1.0 million gallons per day.”

Permit Number	Facility	Address	Permit Expiration
VA0001872	Joint Basin Corporation - Fairfax Terminal Complex	1070 Oil Terminal Road	11/30/2020
VA0002283	Motiva Enterprises LLC - Fairfax	3800 Pickett Rd	7/25/2018

1 inch = 2,500 feet

Source: Virginia Department of Environmental Quality (DEQ) Virginia Environmental Geographic Systems (VEGIS), Accessed March 12, 2018

System regulations. Stormwater runoff, which is considered nonpoint source pollution, unless piped, is further discussed under Section 4.2.

4.2. Nonpoint Source Pollution

Nonpoint source pollution is pollution which cannot be attributed to a single source but is the result of many diffuse sources. Considered singularly, each small source would not constitute a problem, but together these nonpoint sources constitute a substantial threat to water quality. Most commonly, nonpoint source pollution is caused by rainfall running off roadways, parking lots, roof tops, and other urban land uses. Urbanization increases the imperviousness of a land area, thereby increasing the amount and velocity of stormwater runoff delivered to nearby streams. Pollutants which would normally settle out or infiltrate through the soil are carried directly to local waterways. On a per acre basis, urban land use including residential development generally produces higher annual nonpoint source pollutant loadings of nutrients, heavy metals, and oxygen-depleting substances than do rural agricultural uses. Oil contamination, sediments, pesticides, metals, and other toxic substances can kill fish and destroy bottom life. In addition to transporting pollution, increased runoff also increases instream flow during and

immediately after periods of precipitation. This results in increased soil erosion and the destruction of wildlife habitat.

The effect on local waterways is a general degradation of water quality and a phenomenon known as eutrophication. Eutrophic conditions, caused by excessive nutrients in the water, are characterized by low dissolved oxygen levels and high algal growth. The primary detrimental effect on water resources, particularly on large bodies of water such as the Potomac River and the Chesapeake Bay, is algal blooms, which block sunlight from aquatic life and deplete the dissolved oxygen content during decay. Eutrophication also destroys the recreational use of water resources and results in strong odor and undesirable taste.

Because the City of Fairfax lies within the Tidewater area of Virginia, which has a significant impact on the health of the Chesapeake Bay, controlling nonpoint source pollution is an important aspect of the City's environmental protection efforts. The Virginia Division of Soil and Water Conservation has designated the control of nonpoint source pollution as a high priority for all watersheds within the City.

Nonpoint source pollution from urban areas can be controlled by minimizing impervious areas from new development, reducing impervious areas through redevelopment, utilizing open space and preserving indigenous vegetation, restoring denuded vegetative stream buffers, and by employing the use of structural or nonstructural best management practices (BMPs), which operate by trapping stormwater runoff and detaining it until unwanted nutrients, sediment, and other harmful pollutants are allowed to settle out or be filtered through the underlying soil. The City's Chesapeake Bay Preservation regulation requires the achievement of certain performance standards for any development which takes place in designated Chesapeake Bay Preservation Areas.

A useful analysis tool in nonpoint source pollution mitigation is to examine where highly impervious areas of the City are in relation to the City's water resources. In this way, various nonpoint source pollution control efforts, from educational programs to redevelopment, can be concentrated on those areas most likely to produce the greatest impact on the quality of City water. Since the City of Fairfax is largely built out, these figures are helpful when considering where to concentrate redevelopment or retrofit to improve water

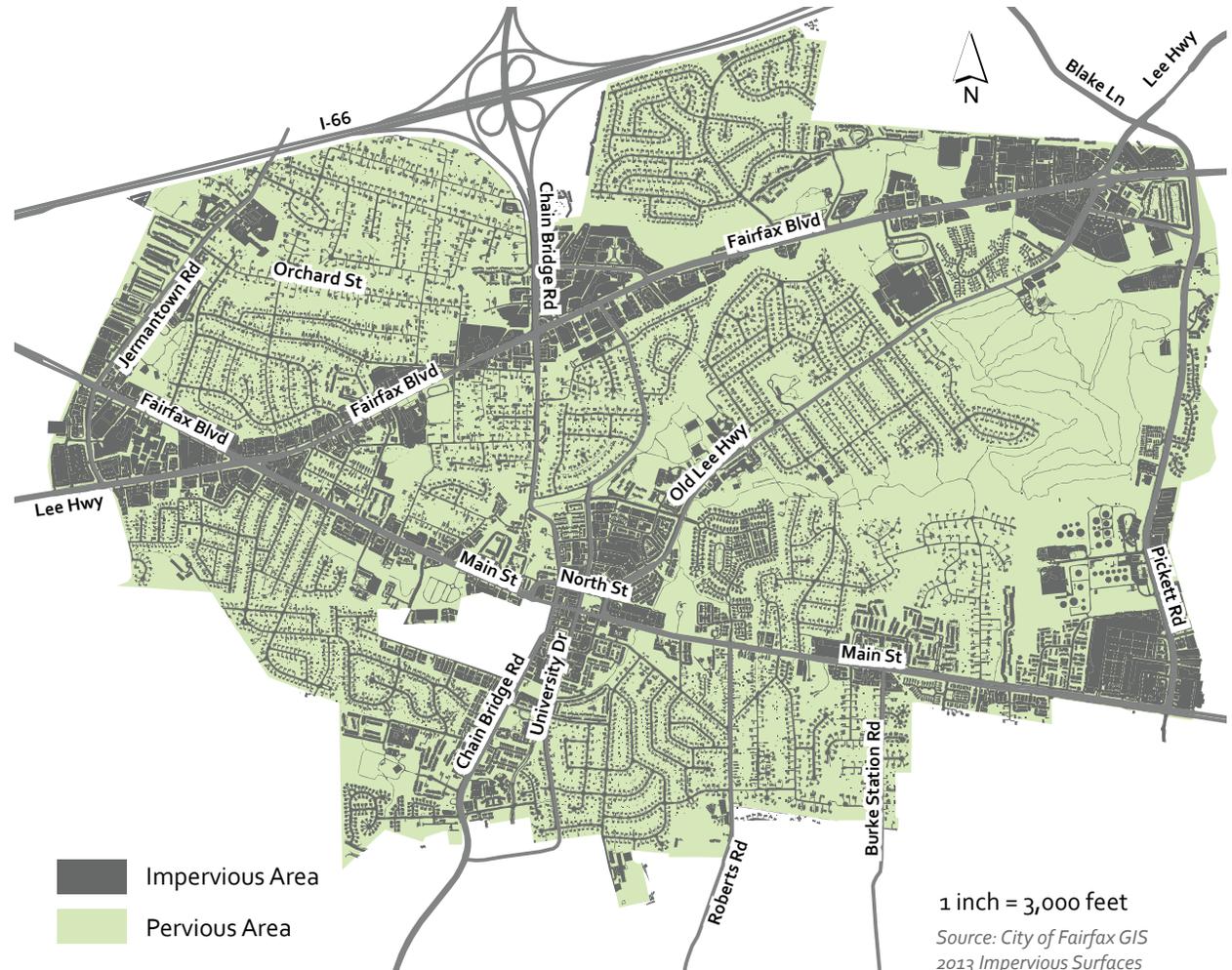
quality. It is also useful in deciding where and what types of public education programs may be beneficial. The City of Fairfax consists of approximately 40% impervious land areas and 60% pervious land areas (Figure A6).

The City's nonpoint source pollution control program also includes the City's Erosion and Sediment Control Ordinance. This ordinance requires that stormwater management facilities be installed during construction to help control increased stormwater runoff created by development thereby reducing the possibility of downstream flooding and erosion.

4.3. Streambank Erosion and Sedimentation

While streambank and land erosion is a natural process, land development has greatly accelerated this process. As large areas of once forested land have been replaced with impervious land cover, a greater quantity of stormwater is directly piped into local waterways at a much higher velocity. Signs of stormwater erosion include undercut streams and fallen banks, felled bushes and trees which once lined the banks, and exposed sewer and other utility pipes. Suspended sediments choke and muddy local waterways making them uninhabitable to local species of aquatic

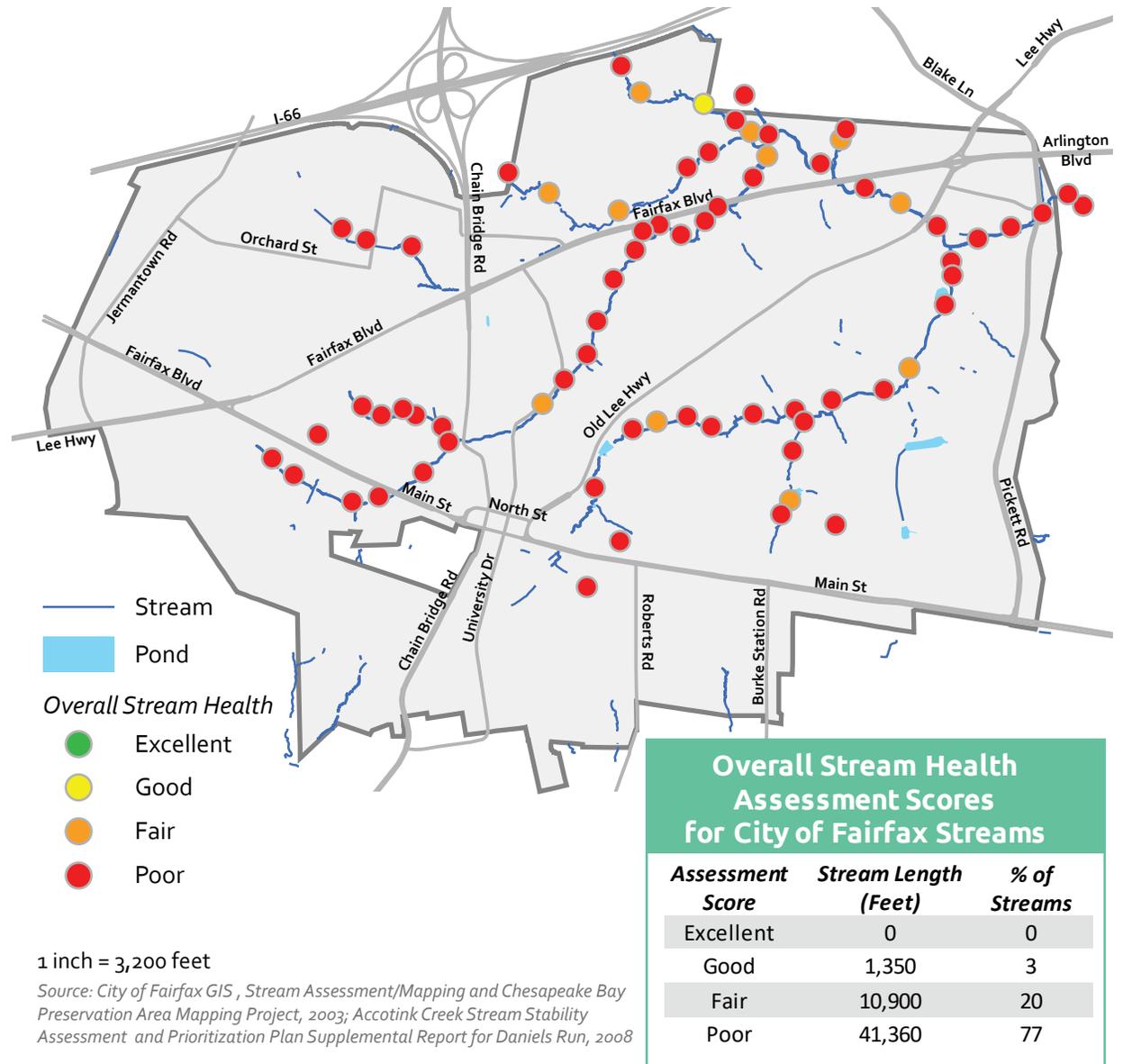
FIGURE A6 PERVIOUS AND IMPERVIOUS AREAS



life. In addition, nutrients and other pollutants attach themselves to sediment particles and contribute to eutrophic conditions in the Potomac River and the Chesapeake Bay. Eventually, suspended sediments are deposited in slower moving portions of the stream course, causing buildup, destruction of benthic life forms, and a decreased stream capacity for floodwaters, thus resulting in greater potential for further erosion and property damage.

Completed in 2005, the City's Watershed Management Plan found that overall stream health to be fair to poor in the majority of the City (Figure A7); erosion potential remains at a very high level; there is evidence of sediment deposition which can cause water quality degradation and have negative impacts on aquatic life; and down-cutting streams threaten City utilities and surrounding property. The City has identified several areas along Accotink Creek and Daniels Run which are experiencing various erosion problems. The most severe of these problems occur along bends in the stream course, although severe erosion is occurring in other areas as well.

FIGURE A7 OVERALL STREAM HEALTH



4.4. Malfunctioning Water Quality BMPs

In response to the water quality requirements of the Chesapeake Bay Preservation Act, many development sites within the City will be called upon to establish water quality best management practices (BMPs). These BMPs are designed to detain polluted stormwater runoff until harmful pollutants have had a chance to settle, at which time the stormwater is slowly released. However, BMPs, like most other structural facilities, will deteriorate over time and require regular maintenance. Adequate maintenance will prolong the expected life-span of a facility, therefore saving considerable money in the long-run. Further, while a properly functioning facility enhances downstream environments by mitigating the environmental impacts of land development, pollutant removal efficiencies will decline over time if regular maintenance is not performed.

Pursuant to the BMP Maintenance and Monitoring Agreement, Erosion and Sediment Control Plan, or Site Plan governing the facilities throughout the City, it is responsibility of the owner(s) to maintain the BMP facility in good working order. The maintenance agreement, Erosion and Sediment Control

plan or Site Plan, provides the City of Fairfax with authority to conduct inspections of BMPs and Stormwater Management Facilities.

The City conducts a City-wide assessment to ensure all facilities are in working order on an annual basis. A representative from the City or an authorized consultant visits the property (or HOA property) to conduct an inspection of the stormwater control measures and BMPs in place to ensure proper maintenance is being performed in accordance with the suggested maintenance schedule for each facility.

4.5. Underground Storage Tanks

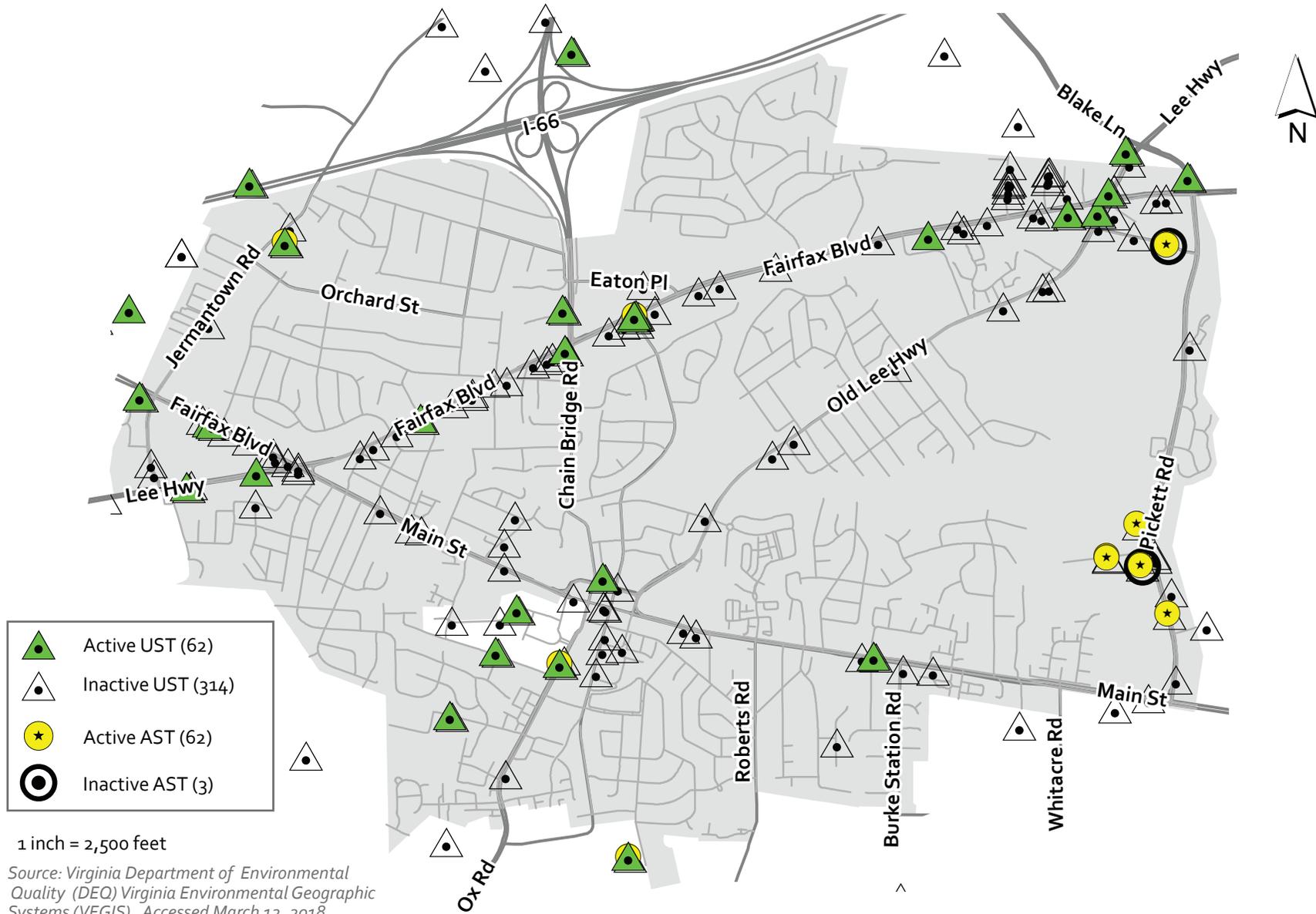
The Virginia Department of Environmental Quality (DEQ), Water Division, is responsible for permitting and tracking underground storage tanks (USTs). Within the City limits, there are approximately 376 USTs of varying capacity at 118 street addresses. Of these USTs, only 62 are still active. The USTs are currently being used to store gasoline, diesel, used oil, heating oil, and other substances. Due to the fact that the City is a major commercial and transportation corridor, the City has a relatively high concentration of USTs for its land area. Underground storage tanks are concentrated along the City's commercial and industrial corridors including lower Pickett

Road, Old Town Fairfax, the Kamp Washington area, the intersection of Chain Bridge Road and Fairfax Boulevard, and the Fairfax Circle area (Figure A8).

When properly maintained, underground storage tanks are safe, save space, and are a more aesthetically pleasing alternative than above ground storage tanks. However, leaking tanks are a major source of soil and groundwater contamination. Leaking USTs also have the potential to affect surface waters since many streams are fed by groundwater aquifers. Underground storage tanks often pose a greater threat than other sources of pollution because a leak or spill may not be detected until it has already created extensive damage. Further, there exist many underground storage tanks which were installed before more stringent regulations were applied. The location and condition of these tanks are often unknown.

Another important factor affecting the incidence of leaking tanks is the age of the tanks. Particularly in an area such as Fairfax where soils tend to be acid, older tanks are more likely to be subject to leakage than newer tanks designed to counter acid soil. Areas where age may be a factor are scattered throughout the City which should be a

FIGURE A8 LOCATION OF UNDERGROUND AND ABOVE GROUND STORAGE TANKS (USTS & ASTS)



consideration when targeting areas for further investigation or for public/business education. Another factor to consider is the proximity of USTs to stream sites. Streams which are located near USTs of above average age may be at particular risk to contamination. Most of the commercial areas of the City directly impact on at least one perennial stream.

The City has and will continue to work with the owners of leaking underground storage tanks and the DEQ to ensure that any existing or future contamination is properly addressed and corrected.

4.6. Above Ground Storage Tanks

The Virginia State Water Control Board in 1998 adopted the regulation, 9 VAC 25-91-10 et seq., which consolidated three repealed regulations, that is, (i) Oil Discharge Contingency Plans and Administrative Fees, 9 VAC 25-90-10 et seq. (ii) Facility and Aboveground Storage Tank Registration Requirements, 9 VAC 25-130-10 et seq., and (iii) Aboveground Storage Tanks Pollution Prevention Requirements, 9 VAC 25-140-10 et seq.

The AST regulations were revised primarily to incorporate new performance standards for certain aboveground storage tanks (1 million gallon or more AST facilities) located

in the City of Fairfax as mandated by the 2011 General Assembly (CH 884 of the 2011 Acts of Assembly). By July 1, 2021, the impacted facilities must satisfy specific requirements for strength testing, and release prevention barriers.

Individual tanks with a capacity of less than 660 gallons or multiple tanks with an aggregate capacity of less than 1,320 gallons are not currently regulated by the State or the federal government. Within the City limits, there are 65 regulated ASTs of varying capacity at 9 street addresses (Figure A 8). Of these ASTs, 62 are currently active. Most home fuel oil tanks are only 200 to 660 gallons. It is therefore the responsibility of the individual owner to ensure that leaks and spills do not occur. While individual household tanks do not pose a significant risk to the environment, the aggregate of tanks may pose a serious threat if small problems are not taken seriously. Releases from individual tanks may occur as a result of overfill or the tipping over of the tank. To reduce the risk of accidental spill, the homeowner or fuel company should inspect a tank before filling to ensure that it is sturdy and does not exhibit signs of corrosion. An owner should also have the capacity of the tank clearly marked on the tank and specifically indicate the filling cap location.

4.7. Illegal Dumping of Petroleum and Litter

The reported presence of petroleum products in City streams is a major water quality concern. Petroleum can severely damage the ecosystem by destroying plant life and killing aquatic lifeforms. While some petroleum products in the water may be attributable to leaking automobiles on nearby parking areas or leaking underground storage tanks, the most common source of petroleum is illegal dumping by do-it-yourself (DIY) automotive maintenance activities. A DIY is an individual who removes used oil from a motor vehicle, utility engine, or other piece of equipment that he or she operates as opposed to someone who takes the equipment to a lube shop or auto-mechanic.

There is a risk that DIYers may pour the oil down a storm drain or throw it out in the trash, resulting in a release of oil into the environment. For areas such as the City of Fairfax, where streams are primarily fed by residential storm drains, only a few careless instances can result in a significant degradation in water quality.

The City provides and advertises for the collection of used oil and oil filters at its

Property Yard Recycling Center, implements a storm drain marking program, and works with local civic organizations and volunteers to install storm drain markers, which state “Only rain down the storm drain”. These markers are used to educate residents that the storm drain eventually empties to the Chesapeake Bay watershed and to prevent the amount of pollution that reaches local creeks and rivers. The City may wish to consider the implementation of a public education program which not only informs residents what to do with used oil, but also tells them what to do if he/she witnesses a neighbor pouring oil down a storm drain.

4.8. Pet and Animal Wastes

Fecal coliform is a pollutant of concern in the City of Fairfax. While there are several potential sources of fecal coliforms, the most likely source is from pet waste, and particularly dog waste, which is not disposed of properly. City paths and walkways along streams (or near storm drains) provide for public access and scenic areas to walk, run, and bicycle. However, these public areas are also used by some pet owners who leave pet wastes which are then easily transported by the next storm directly into the water course.

Fecal coliform can severely impact on the viability of the City’s water resources. Control mechanisms include enforcing local animal waste control provisions, BMPs, and natural stream buffers. While BMPs and natural buffers are established as part of the City’s overall Chesapeake Bay Program, the most effective manner of control is through public education and better enforcement of the City’s animal waste control regulation. Better enforcement and education can reduce the levels of fecal coliforms and nutrients in stormwater runoff.

The City will continue to promote, and maintain, the dog waste disposal stations along the park trail. The City will also add brochure holders to each waste station that contain public education / outreach materials related to the water quality impacts of dog waste.

4.9. Air Quality as it Relates to Water Quality

Recent evidence suggests that atmospheric deposition, as a result of poor air quality, has a greater impact on water quality than previously assumed. According to the EPA, air sources contribute about one-third of the total nitrogen loads to the Chesapeake Bay by depositing onto the tidal surface waters of the

Bay and Bay watershed. Direct deposition to the Bay’s tidal surface waters is estimated to be 6 to 8 percent of the total (air and non-air) nitrogen load delivered to the Bay. Nitrogen deposited onto the land surface of the Bay’s watershed and subsequently transported to the Bay is approximately 25 to 28 percent of the total nitrogen load delivered to the Bay.

The Clean Air Act requires significant air quality planning and implementation at local, State, and regional levels. The Clean Air Act regulations and programs are expected to achieve significant decreases in air deposition of nitrogen by 2020.

Nitrogen is the primary pollutant of concern for brackish waterbodies such as the Chesapeake Bay. While very little atmospheric deposition will fall directly into the City’s streams, pollutants deposited on impervious surfaces, which make up approximately 40% of the City’s land area, will be washed into local waterways via curbs, gutters, and storm drains during storm events. This has the potential to contribute significantly to water quality problems within the City and beyond.

The City of Fairfax has already contributed to improving air quality through the establishment of pedestrian and bicycle trails

in accordance with the City's Comprehensive Plan and by keeping Cue Bus fares low to encourage ridership. The City also continues to work with George Mason University and Fairfax County to encourage alternative forms of transportation.

Many approaches to improving air quality from mobile source emissions will be implemented at the State and regional levels through transportation control measures such as increased public transportation and high occupancy vehicle lanes. Technological advances such as alternative fuel vehicles and tighter tailpipe standards are other measures whose widespread application is expected. The City of Fairfax continues to contribute to these regional efforts through participation on the Metropolitan Washington Council of Government's Air Quality Committee and The Climate, Energy and Environment Policy Committee (CEEPC).

The City of Fairfax seeks to continue its commitment to clean air by expanding its efforts and adopting policies to increase public awareness of the environmental problems associated with air pollution.

Section 5. Environmentally Sensitive Features and Constraints on Development

Land use planning that takes into account sensitive natural features and water resources has the dual benefit of enhancing quality of life through protecting the environment from degradation as well as protecting businesses and homeowners from potentially harmful environmental hazards. Although land use patterns within much of the City are well established, a few vacant parcels still have development potential. These properties deserve special consideration and should be developed in a manner which integrates the man-made and natural environments.

Most development within the City, however, will take place as a result of redevelopment. Development prior to the late 1980s took place without the benefit of many environmental protection constraints; therefore some existing development is not sensitive to the potential for water quality degradation that development brings. With recent concern

raised over environmental degradation, and particularly the effects of increased stormwater runoff on the City's streams, the City has begun to reevaluate past practices. Good planning now prescribes that when possible, development should avoid sensitive environmental features. The following section provides an overview of the sensitive natural resources within the City of Fairfax and an analysis of how these resources are currently being managed and additional management options.

5.1. Floodplains

The relatively flat or low land area adjoining a river, stream, or water course which is subject to partial or complete inundation is known as a floodplain. Encroachment on floodplains, such as artificial fill, reduces a stream's flood-carrying capacity, increases flood heights, and increases flood hazards in areas beyond the encroachment itself. In addition, floodplain soils are often unsuitable for development due to high water table, shrink-swell potential, and highly permeable and hydric soil conditions. Floodplains also provide important habitat for a range of vegetative and animal species.

In 1974, the Federal Emergency Management Agency (FEMA) conducted a study of flooding

potential and hazards in the City of Fairfax as part of its national flood insurance program. The plan was also meant to be used as a tool to assist local governments in effective floodplain management. As a result of the study, the City adopted a Floodplain regulation which establishes an overlay as part of the Zoning Ordinance in 1993. As discussed in Section 2.4, the current Floodplain regulation was adopted by the City in March, 2015. The overlay district severely limits the type and location of any development in the floodplain district. The floodplain district includes areas subject to inundation by waters of the one-hundred-year flood. The one-hundred year floodplain within the City is associated with areas along the north and central forks of Accotink Creek, Daniels Run, and some major tributaries. A denuded or improperly developed floodplain can result in erosion and a significant reduction in water quality and reduce the effectiveness of the RPA. Figure A1 delineates the approximate extent of the one-hundred year floodplain (1 percent annual chance flood event) in the City.

5.2. Geologic and Sensitive Soil Conditions

It is difficult to overemphasize the importance of geology and soils characteristics when planning for new development and

redevelopment. Development should be guided away from sensitive or unstable areas in order to protect the safety of residents, the structural soundness of buildings, and the water quality of Accotink Creek, Pohick Creek, Pope's Head Creek, Difficult Run, and eventually the Potomac River and the Chesapeake Bay.

Common constraints placed by geologic conditions or sensitive soils include but are not limited to hydric conditions, shrink-swell potential, wetness, flooding potential, depth to bedrock, and high water table. Proper management of soils will help maintain clean water and will provide areas to recharge groundwater. However, poor management of soils will choke local waterways with silt and sediments and result in the erosion of valuable topsoil as well as spoil the landscape.

According to the USDA Natural Resources Conservation Service soil survey data (2015), most of the City falls into the Wheaton-Glenelg complex soil association. This complex is a mixture of the development disturbed Wheaton soil and the natural Glenelg soil which is well suited for development. Much of the soil within the City's floodplains falls into the Codorus and Hatboro complex and Codorus silt loam soil associations. These soils

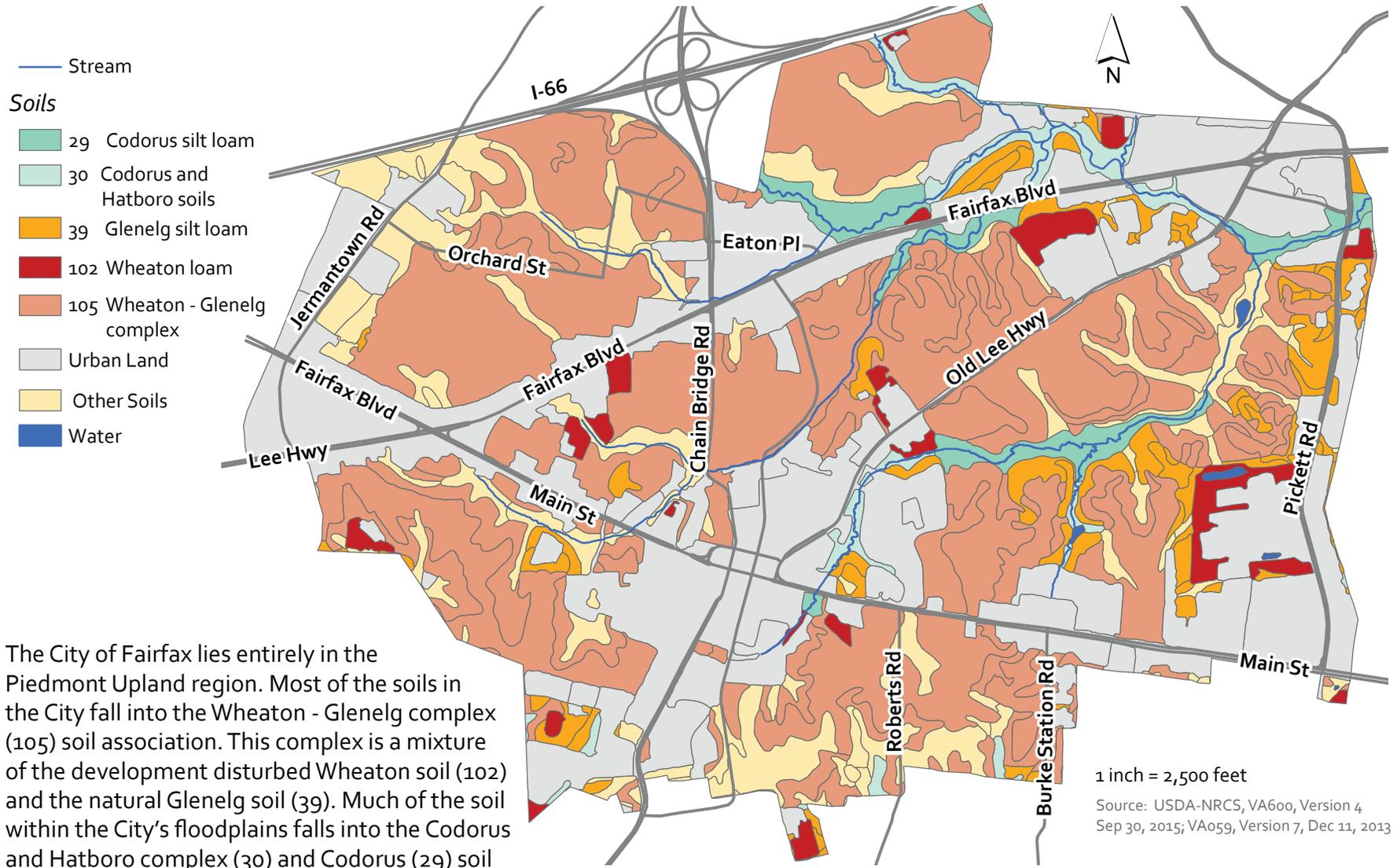
are poorly drained, subject to flooding, and not suitable for urban development. Figure A 9 presents the distribution of soil associations in the City.

The underlying geology of the City, along with climate, determines soils characteristics, which offers both constraints and opportunities for development. In order to promote soil conservation and protect water quality, as well as safeguard residents and businesses from potential hazards, including hazards such as radon, it is imperative that future development within the City takes geologic constraints into consideration. Most areas of the City are generally suitable for development purposes if a site is properly engineered. A discussion of the engineering capacity of underlying geology is inappropriate for this Plan due to its technical and detailed nature. Developers must refer to the City's Department of Public Works for more information and recommended resources.

5.3. Vegetative Buffers and Areas with Mature Tree Canopy Cover

To the maximum extent possible, the City wishes to maintain and enhance its urban tree cover. During development, provisions must be made to protect existing trees and replace trees when they are damaged or removed.

FIGURE A9 SOILS



The City of Fairfax lies entirely in the Piedmont Upland region. Most of the soils in the City fall into the Wheaton - Glenelg complex (105) soil association. This complex is a mixture of the development disturbed Wheaton soil (102) and the natural Glenelg soil (39). Much of the soil within the City's floodplains falls into the Codorus and Hatboro complex (30) and Codorus (29) soil associations.

The City's Chesapeake Bay Preservation regulation also requires that a 100-foot buffer area along perennial streams be maintained or established during development or redevelopment in order to protect streams from the adverse effects of increased impervious surfaces and resultant runoff.

Since the City is almost entirely developed, few significant vegetation stands remain. Those that still exist deserve special protection so that their aesthetic and ecological benefits to the City are not lost. The largest City-owned vegetation stand is located at Daniels Run Park. The park covers 48 acres, most of which is in a natural state. It contains deciduous vegetation with an oak canopy and a beech understory. Other tree types found there are hickory, sycamore, tulip poplar, and holly. The 20-acre Van Dyck Park is partially wooded as is the 10-acre Ranger Road Park. The 20-acre Providence Park is largely wooded, and contains many of these same tree types.

The City's concern for trees is reflected in its Arbor Day tree planting activities and its designation every year starting in 1987 as a Tree City by the National Arbor Day Foundation.

5.4. Non-Tidal Wetlands

Wetlands provide a variety of environmental and socio-economical benefits and also serve as important fish and wildlife habitat. Wetlands enhance water quality by filtering water as it passes through, thereby reducing sediments, nutrients, and chemical and organic pollutants flowing to open water. Wetlands also assist with flood control and serve as groundwater discharge and recharge areas. The U.S. Fish and Wildlife Service estimates that up to 43% of the threatened and endangered species rely directly or indirectly on wetlands for their survival.

The City has a total of 11 acres of wetlands. Figure A2 presents the City's water resources, including wetland areas. There are 8.6 acres of woody wetlands, which consist of areas where forest or shrubland vegetation accounts for 25-100 percent of the cover and the soil or substrate is periodically saturated with or covered with water. The remaining 2.4 acres of wetlands are classified as emergent herbaceous wetlands, which consist of areas where perennial herbaceous vegetation accounts for 75-100 percent of the cover and the soil or substrate is periodically saturated with or covered with water.

Pertinent law protecting non-tidal wetlands includes Section 404 of the federal Clean Water Act, which addresses dredge and fill operations and is administered through the Army Corps of Engineers, and the Virginia Water Protection Permit Act. Other programs, such as those under the Virginia Endangered Species Act and various floodplain management regulations, also serve to protect non-tidal wetlands.

Under the City's Chesapeake Bay Preservation regulation, non-tidal wetlands connected by surface flow and contiguous to tidal wetlands or water bodies with perennial flow are designated as RPAs. All other non-tidal wetlands are protected as part of the RMA. Most wetlands within the City are located contiguous to a tributary stream and within the confines of the floodplain.

5.5. Topography

Poorly designed and constructed developments on steep slopes frequently result in substantial costs to the public, either for repairs or for protective measures to prevent further damage. Increased runoff and sedimentation from denuded hillsides require increased public expenditures for flood control and stormwater management. Further, improperly planned development of hillsides affects the equilibrium of vegetation, geology, slope, and soil.

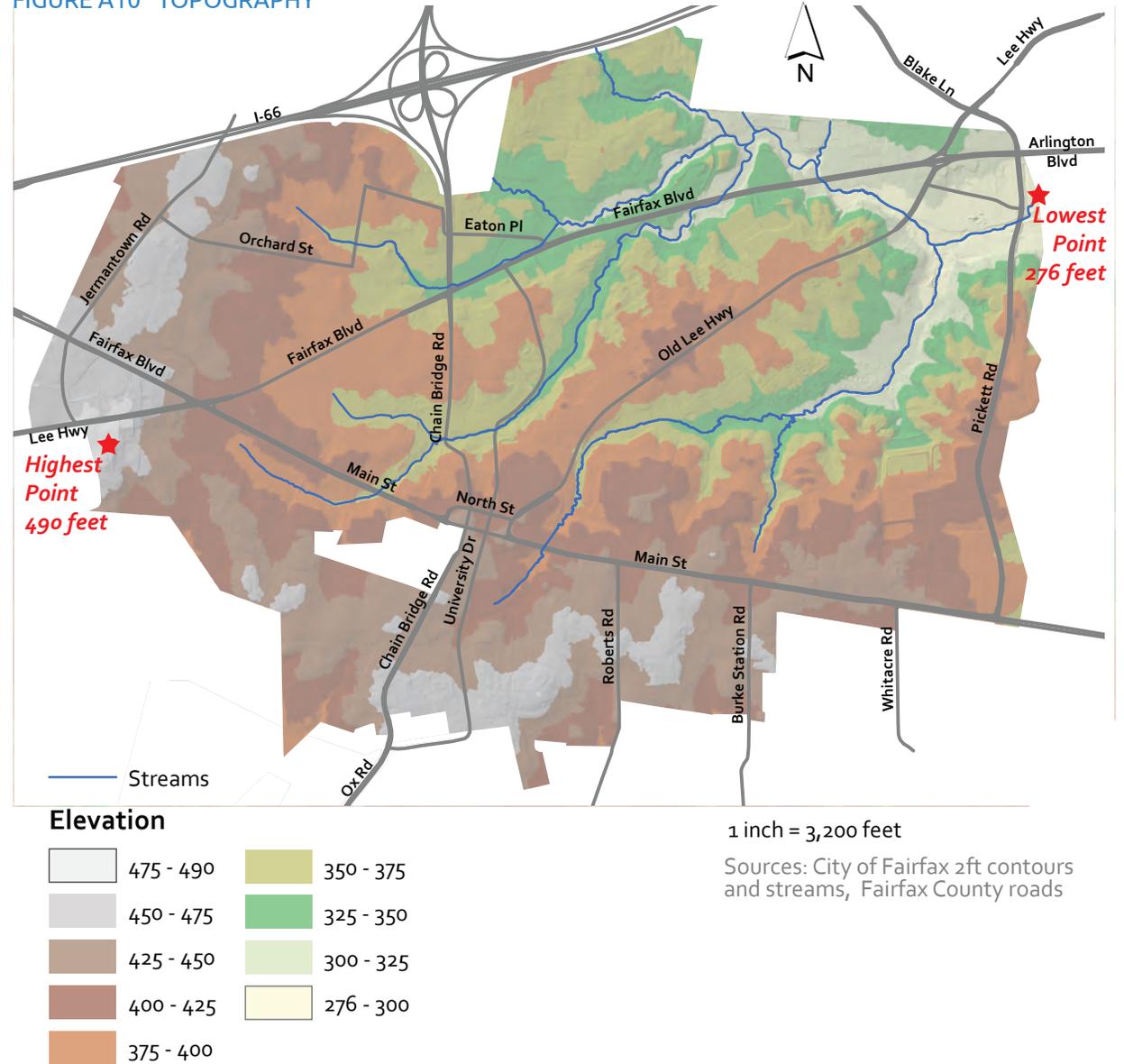
While the City of Fairfax is largely built out, any redevelopment within the City must take topographic constraints into consideration for the following reasons:

- Disturbance of hillsides can result in soil instability and increased erosion.
- Disturbances of hillside can increase runoff.
- Disturbance of hillsides can destroy a community's aesthetic resources.

Steep slopes in excess of 15 percent and slopes located along streams are susceptible to erosion and, therefore, particular care must be taken when planning to develop a site with this characteristic. In some instances, special engineering may be required to stabilize slopes. Figure A10 presents a topographic map of the City.

Only a very small portion of the City's land area has slopes of over 15%. These areas are primarily associated with reaches of Accotink Creek and Daniels Run and lie within the City-owned Van Dyck and Daniels Run Parks and in the Army Navy Country Club Property.

FIGURE A10 TOPOGRAPHY



5.6. Groundwater Protection

The importance of groundwater protection was recognized by the Commonwealth of Virginia when the General Assembly enacted the Groundwater Act of 1973 and the Groundwater Management Act of 1992. The Groundwater Management Act reads "... unrestricted usage of groundwater is contributing and will contribute to pollution and shortage of groundwater, thereby jeopardizing the public welfare, safety, and health."

Although the City now receives a treated water supply from the Potomac River and Occoquan Reservoir, protection of the City's groundwater must be a consideration during development and redevelopment. When development occurs, it affects the natural balance of the groundwater flow. Increased imperviousness as a result of development reduces the potential for groundwater recharge and should be taken into consideration when designing a site plan. Generally, high topographic areas are groundwater recharge areas and impervious surface areas in defined groundwater recharge areas should be minimized. By providing recharge areas for stormwater, groundwater equilibrium can be maintained. If recharge

areas are not taken into consideration, wells may go dry, base flow to streams is reduced, and wetlands may shrink.

Once contaminated, the usefulness of an aquifer as a resource may be limited or destroyed depending on the toxicity of the contamination and the effort, time, and money involved in clean-up. In most cases it is impractical and sometimes impossible to restore a contaminated aquifer to its original level of purity. Common sources of groundwater contamination include but are not limited to leaking underground storage tanks, antiquated sewer lines, septic systems situated on improper soils, and improperly capped wells. In addition, improperly maintained water quality best management practices may present a groundwater threat. In the City of Fairfax, the most common source of groundwater contamination on record with the DEQ, Water Division, is from petroleum leaks and spills. More stringent underground tank standards enacted in recent years should reduce the level of contamination from these sources.

Recommendations

The City of Fairfax recognizes the importance of the Chesapeake Bay as an economic and social resource and is committed to its protection through the implementation of the Chesapeake Bay Preservation Area Designation and Management Regulations. The following provides the background information and analysis necessary for the City to arrive at informed and proactive policies and goals which address the issue of water quality protection in City streams and the Chesapeake Bay.

These recommendations approach water quality protection from the viewpoint that water quality protection and healthy economic development are not mutually exclusive, but rather that both may be accomplished simultaneously and that the result is a better quality of life for all residents of the City.

Recommendation 1: Protect the quality of the City's surface water resources, the Potomac Estuary, and the Chesapeake Bay from the avoidable impacts of land development.

- **Enforce the provisions of the City's Chesapeake Bay Preservation regulation.**

The City's Chesapeake Bay Preservation regulation is the City's primary water quality protection tool. The regulation is designed to protect the overall quality of the City's water resources and the health of the Chesapeake Bay as it relates to existing and new development.

- **Enforce the City's Erosion and Sediment Control Ordinance.**

The Erosion and Sediment Control Ordinance serves to protect City streams during site development by minimizing erosion and sedimentation.

- **Maintain strong City oversight of private BMP maintenance programs.**

Review the effectiveness of the city's current BMP maintenance program and determine whether stronger inspection and maintenance measures are required. Make recommendations for how to

improve the City's maintenance program, if necessary.

- **Continue implementation of stream restoration and improvement efforts.**

Continue efforts to stabilize the physical conditions and restore the stream habitat to enable the natural restoration of the biological integrity of the streams. The City should continue to prioritize the worst stream reaches, and coordinate improvements with overall watershed strategy.

- **Ensure that development avoids where possible, or minimizes disturbance of sensitive environmental features, including problem soils.**

Improper development of sensitive environmental features, and particularly soils, may result not only in structural damage to buildings, but also to a loss of soil to erosion, a decrease in local water quality, and the loss of important habitat and aesthetic resources.

Recommendation 2: Ensure the adequacy of the City's future stormwater management system while emphasizing the need to protect tributary streams and water quality.

- **Improve the City's ability to identify sensitive environmental features.**

Readily available information concerning environmentally sensitive features will help the City to better plan for and avoid the negative environmental impacts resulting from land disturbing activities. The development and redevelopment processes often result in the generation of substantial information on environmental features. During the development process, the City should take the opportunity to collect information, generated from site plans, reports, etc. on sensitive environmental areas, and particularly on soils.

The City should arrange a protocol to compile this information to create an overlay map identifying environmentally sensitive features within the City including steep slopes, soils, wetlands, floodplains, undisturbed natural areas, and features which are unique or integral to the character of the City.

- **Continue to conduct and implement watershed management plans to allow for a holistic approach to local water resource protection.**

The City should continue to conduct watershed studies and planning to evaluate watershed conditions and identify actions that would improve watershed health. The City should also continue to assess the effectiveness of capital projects and examine long-term trends in the City's water quality.

- **Minimize exposure of the City's natural floodplains to new development.**

Natural floodplains are essential to the conveyance of stormwater in that they provide extra holding capacity during storm events. Floodplains left in their natural condition form a filter for polluted runoff from surrounding land uses. Protection of the City's floodplain is achieved through enforcement of the City's Floodplain regulation.

- **Encourage the use of shared, or regional stormwater control**

measures during development and redevelopment.

The implementation of a large number of small, site-specific stormwater quality/quantity management facilities increases maintenance costs and consumes large quantities of valuable land. The City should seek to facilitate cooperative agreements among developers to encourage the establishment of regional stormwater management facilities.

- **Continue to allocate dedicated and sustainable funding sources to guarantee the stormwater program's continued viability.**

Provide the funds necessary to meet MS4 permit and TMDL requirements and to address other important stormwater infrastructure needs, such as ensuring adequate capacity for flood control, replacing aging infrastructure, and performing preventive maintenance on all City stormwater management facilities.

Reassess the Stormwater Fund on a regular basis to ensure that revenue generated adequately covers program needs.

Recommendation 3: Reduce existing sources and prevent potential sources of point and nonpoint source pollution resulting from residential, commercial, and industrial activities within the City.

- **Continue implementation of the City’s Water Quality Monitoring Program.**

At the end of each MS₄ permit reporting period, the City prepares annual Water Quality Monitoring Reports, which are included with the City’s MS₄ Annual Report. Once appropriate amounts of sampling data have been collected under the Water Quality Monitoring Program, the City will analyze the results to determine the next steps (e.g. potentially pinpoint areas that could to be targeted for pollution prevention or source control programs).

- **Encourage the use of green stormwater infrastructure and low impact design on private and public property.**

Enhance zoning regulations and support initiatives that encourage the use of green stormwater infrastructure and low impact design on private and public property. Consider providing incentives for developers who can incorporate green infrastructure and low impact design in their plans.

- **Continue efforts to improve the region’s air quality.**

The City should continue to pursue measures to improve air quality through support of pedestrian access and mass transportation. Since air quality is regional concern, continued participation on the Metropolitan Washington Air Quality Council is necessary to achieve many air quality goals.

- **Improve the City’s ability to respond to the potential hazards of leaking underground and above ground storage tanks and pipelines.**

The City should continue to work closely with the DEQ, Water Division, to monitor and enforce clean-up of underground storage tanks.

The City should support programs to educate residents on how to safely manage above ground storage tanks and should promote policies aimed at providing opportunities to reduce reliance on above ground storage tanks through conversion to alternative forms of fuel.

- **Expand public education and outreach programs.**

Continue to develop and implement education and outreach programs to improve awareness and encourage the community to take actions to protect and improve the quality of area waters. The City will include appropriate public involvement and participation to meet MS₄ requirements and satisfy other watershed objectives.

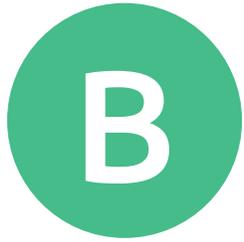
- **Continue to improve upon the City’s strong recycling program.**

A well-publicized recycling program will decrease the level of illegal disposal of materials, and particularly oil, into the City’s storm sewer system.

Recommendation 4: Protect the quality of the City’s potable water supply and safeguard the City’s groundwater resources against contamination which may adversely affect the biological ecosystem.

- **Work with the Department of Environmental Quality’s Water Division to protect groundwater from contamination from underground storage tanks.**

The primary threat to the City’s groundwater is contamination from underground storage tanks. While the City has no legal authority to regulate underground storage tanks, it should work closely with the DEQ’s Water Division to identify areas with high contamination potential and to quickly remediate areas where contamination has already occurred.



Transportation Practices & Policy

The Multimodal Transportation Chapter of the Comprehensive Plan references several innovative practices that can help the City achieve its goals in improving transportation infrastructure and services. Many of these practices require further study before the proper implementation strategy can be determined. This includes analysis new advancements in technology as they occur as well as policy priorities for the City.

Specific actions in the Comprehensive Plan refer to the Transportation Practices and Policy Appendix for more information. This appendix provides detailed information which should be used as an initial step in implementing the recommendations of the Comprehensive Plan that reference these innovative practices.

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Section 1. Best Practices/Future Trends

BIKE SHARE

The central jurisdictions of the region (Washington, D.C. and Arlington County) launched Capital Bikeshare (CaBi) in 2010 with 400 bikes and 50 stations. Since that time the system has expanded to 2,500 bikes at over 400 stations across a number of additional jurisdictions in the region, including Fairfax County. City of Fairfax stakeholders and partners expressed an interest in bringing bike share to the city, either expanding CaBi or establishing an independent system serving local travel needs.



CAR SHARING

Car sharing has been operational in the region for over a decade. Zipcar is the largest operators in the region at the present time, offering round-trip as well as point to point or one-way rental options. Round-trip car sharing requires that users return the vehicle to the same designated spot when finished with their rental period.

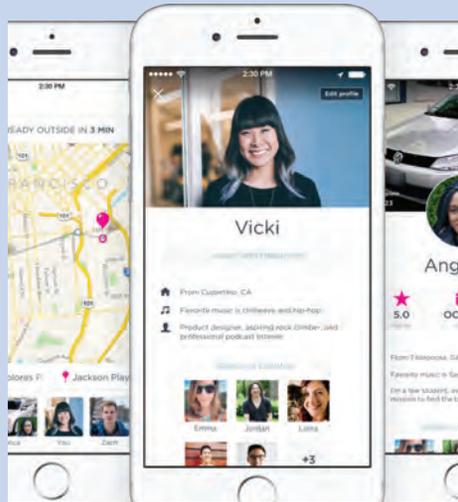
One-way car share allows a user to take the car from one point within a service area and leave it at a different legal parking space within the area. Carzgo operates within the District of Columbia and Arlington County offering one-way service. The fee for round-trip car share is typically on an hourly or daily basis while the cost for a one-way car share trip is typically calculated on a minute and distance basis.

Peer-to-peer car sharing closely mimics the round-trip car share service provided by car share companies but is instead provided by individual auto owners listing their personal car available for use to other "members" via an electronic platform.



RIDE SOURCING

Taxis are a traditional form of ridesourcing where a passenger calls into a central dispatch or hails a clearly branded vehicle to provide them with a one-way ride. Smartphones and app based services have enabled the rise of Transportation Network Companies (TNCs) such as Uber and Lyft. TNCs use an online mobile platform to connect passengers to drivers, who use their own personal vehicles. With less oversight and regulation the cost of a TNC ride at present is generally lower than a taxi trip.



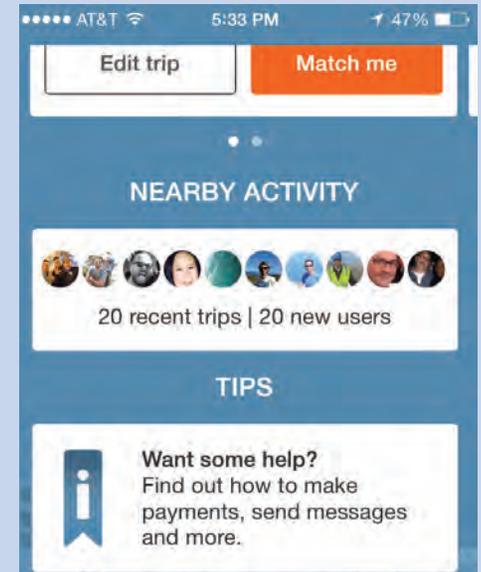
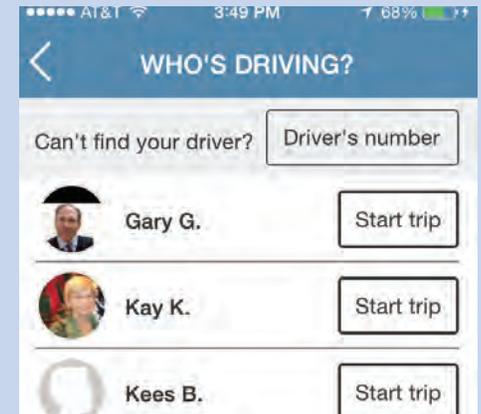
AGGREGATED RIDE SOURCING

The platforms used for ridesourcing have become progressively more sophisticated. Several TNCs now offer riders the option of sharing a ride with others traveling along their general line of travel to even further lower trip costs, concurrently increasing travel efficiency with higher vehicle occupancy within the same roadway space. Uber offers "Uber Pool" while Lyft supports "Lyft Line." These aggregated ride sourcing options pool riders, and thus lowering overall travel costs.



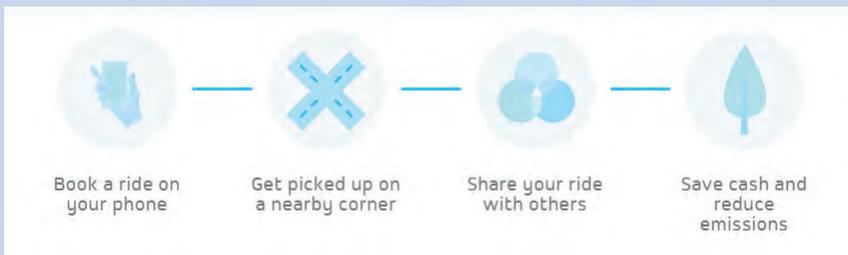
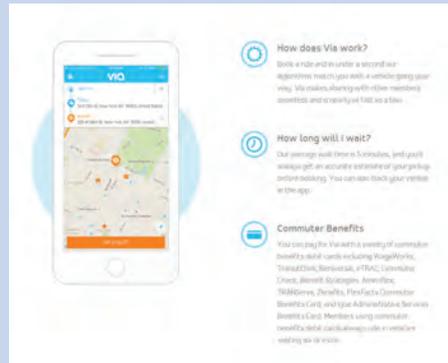
PRE-ARRANGED OR DYNAMIC CARPOOLING

Multiple web or smartphone based applications facilitate carpooling both on a regular basis (pre-arranged) or sporadically. Apps like Zimride and Ride Amigos match drivers with passengers along a pre-determined route and planned time of day. If desired, some applications permit drivers and riders to be matched across complementary characteristics such as employment or student status, gender, age, and even music preferences. Dynamic carpooling is the electronic equivalent of the traditional Washington region practice of "slugging" where drivers can spontaneously be matched with a rider in real time along their intended route. Under both models, drivers and passengers share costs and take advantage of the benefit of high occupancy lanes by capitalizing on empty seats in their vehicles.



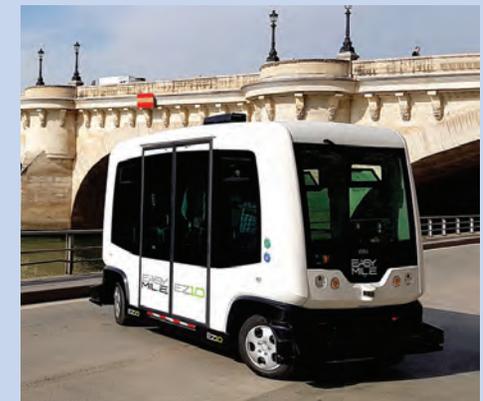
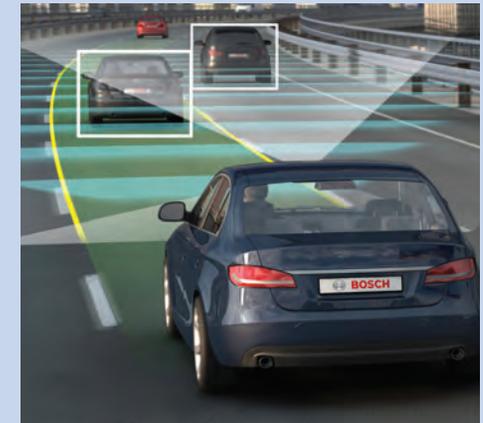
MICROTRANSIT

Microtransit follows the same principle as aggregated ride sourcing, but generally with more added efficiency. It uses online services to dynamically generate on-demand routes along an efficient travel path. Rather than picking each passenger up at their door of origin, passengers may need to walk a short distance to a collector road and arrive at the designated location shortly before the vehicle arrives. By reducing the amount of circling and the dwell time waiting for passengers, microtransit reduces travel time and delay, increases vehicle efficiency, and reduces individual travel costs.



CONNECTED + AUTONOMOUS VEHICLES

Vehicular technology continues to progress at a rapid rate, and the time is soon coming when human drivers may no longer be needed to operate passenger vehicles. Connected vehicles have the ability to communicate with one another and with the surrounding infrastructure, provided the infrastructure has “smart” capabilities. Autonomous Vehicles (AVs) can operate independently by observing cues in the built environment. Emerging vehicles will likely utilize the capabilities of both connected and autonomous technologies. Such vehicles have the ability to dramatically increase the efficiency and capacity of existing roadway facilities and decrease the need to operate and store (e.g. park) private vehicles. Thus, autonomous vehicles, with the right policy guidance, may reduce vehicle ownership, reduce the need for long-term parking, and increase accessibility and mobility across the economic spectrum in both urban, suburban, and small-city contexts like Fairfax.



Section 2. Smart Infrastructure + Real-Time Information

Improved technology in both Intelligent Transportation Systems (ITS) and better information for users provides great promise for more efficiency in mobility systems and greater predictability and control for users. The following system elements have been implemented elsewhere in the greater Washington D.C. area. Some elements may be appropriate for managing traffic and improving trip making in the City of Fairfax.



SMART SIGNALS

These signals are connected to a central control center and may be adjusted either according to a programmed algorithm or by central control. Smart signals can adjust to changing demands in the roadway network and may be used to facilitate the advancement of transit vehicles (transit signal priority or TSP), passively detect pedestrians and bicyclists, and/or meter traffic volumes to even out the flow of traffic and mitigate congestion, improving the operation and efficiency of multiple modes.

DYNAMIC SIGNAGE

Dynamic signage includes variable message boards and variable speed signs such as those found along I-66, and also includes urban signage indicating the location and availability of parking spaces. These signs provide real-time information to motorists without requiring the use of a smartphone or app. Dynamic signage at transit stops can indicate to riders the next bus anticipated to arrive and the time of arrival. Dynamic signage can help to better distribute traffic loads, minimize unnecessary circling of vehicles searching for parking, and increase user confidence with regard to transit. Dynamic signage can reduce traffic volumes by 10% to 30%, particularly in central business areas.

DEMAND-RESPONSIVE PRICING

Applying basic economic principles to encourage more efficient use of the transportation system, demand-responsive pricing uses real time and/or historical information on parking or travel demand to optimize supply and demand. When demand is high and available supply (or capacity) is low, mobility services are priced higher. During periods of low demand, the cost of travel or parking is correspondingly low. Such strategies reduce congestion, increase efficiency in the system, and ensure the availability of reliable capacity (for a price) for essential trips. When coupled with lower cost, higher capacity travel options such as transit, ridesharing/ride sourcing, and safe non-motorized options, demand-responsive pricing can appropriately meet travel needs without necessarily resulting in higher overall transportation costs to users.

TRAVEL PLANNING APPS

The best travel planning apps integrate a number of different travel options including driving (in a personal vehicle or ride-hail vehicle), transit, bicycle, walking and/or a combination of multiple modes. These apps provide users with real time information on both travel time and cost, including the probability of unexpected travel delay, while some also provide information on personal and environmental health benefits or impacts of various choices. Smart applications link directly to other applications to help the traveler arrange the mode of travel they selected, such as hailing an Uber or reserving a car share vehicle. Travel apps and mobility service payment systems are evolving such that in the near future, travelers will also be able to pay for their transit trip, bike share use, or high-occupancy tolls all from a single point of transaction. This should help to even the playing field of awareness and convenience across all travel options.

Section 3. Transportation Demand Management

Cities have traditionally approached transportation from the supply side of the equation, and this is a critical role for cities to play. Cities have significant control over how much vehicle capacity, bicycle accommodation, or parking is provided in their communities. But economists would advise cities that they must also consider, and manage the demand side of the equation as well. Managing demand requires a more nuanced approach but is, in many ways, much more effective than supply-side management alone.

Transportation Demand Management (TDM) provides information and incentives to allow travelers to make the best choices for themselves. It is also a way for jurisdictions to make the most of transportation systems they have already built and optimize investments they have made by encouraging the use of excess capacity before adding additional capacity. Excess capacity exists in the form of empty seats on buses or in cars. It exists on sidewalks, trails, and bike lanes. It exists in the 20 hours of the day outside of the peak hours of traffic congestion. And it exists in the parking spaces that remain empty when the vehicle they are intended for is at another destination.

TDM serves cities, but it also brings great benefit to users as well—often saving them money on transportation costs, improving reliability and predictability in their travel, giving them greater freedom of choice, lowering stress, and perhaps even improving personal health.

Section 4. Pedestrian Accessibility Policy

Best Practice

The best pedestrian-supportive infrastructure policies are applicable to the entire community and focus on safety and connectivity. Policies are flexible to various applications and permit different types of facilities on different street types. Policies are compliant with all applicable state and federal regulations, including the Americans with Disabilities Act (ADA) and establish a methodology for prioritization and performance evaluation.

The following are potential policies to improve pedestrian supportive infrastructure.

- Prioritize walking connections to transit stops, schools, and parks. Implement first-last mile walking connection to transit and prioritize access to transit stops.
- Support projects that improve pedestrian connectivity.
- Improve pedestrian access to destination areas in the City.
- Improve pedestrian routes that connect students to schools.
- Maintain a sidewalk inventory.
- Establish a methodology for project prioritization and performance evaluation.
- Improve pedestrian access across major roadways that create barriers to connecting the network. Comply with all state and federal regulations including the Americans with Disabilities Act (ADA).

Policy Recommendation

The following is a draft recommended policy for the City of Fairfax.

In order to promote safety and provide for the most vulnerable users in the transportation system—children, seniors, and persons with disabilities—it is the policy objective of the City of Fairfax that all streets have at least one sidewalk on both new and existing streets of all street types.

- All new streets should provide sidewalks on both sides of the street irrespective of anticipated traffic volumes, unless explicitly designed as a shared street.
- Sidewalks should be considered with every major maintenance, restoration, or street reconstruction project. Sidewalks may be constructed independent of other street projects.
- Streets with moderate to high vehicle volumes (5,000 or more vehicles per day) should have sidewalks on both sides of the street. Moderate volume streets should have a continuous sidewalk at least along one side; local streets (less than 5,000 vehicles per day) should have a sidewalk on at least one side of the street, unless specifically redesigned or actively managed as a shared street.
- Sidewalks should be a minimum of five feet wide.
- The sidewalk network should be continuous and connected. Curb ramps must be provided at street crossings.



Section 5. Complete Streets Policy

Best Practice

A Complete Streets policy should be inclusive of a community's vision for transportation, account for the many types of uses and community needs, and allow for flexible implementation.

The following are potential policies to implement Complete Streets principles:

- Approach every planned transportation improvement as an opportunity to apply the Complete Streets principles.
- Apply Complete Streets policies to all public and private projects and developments that impact the right-of-way.
- Allow Complete Streets elements to be phased over time.
- Actively identify regional, state, and federal funding for Complete Streets improvements.
- Collaborate and coordinate between other departments and transportation agencies to efficiently utilize funds.
- Identify quantifiable performance measures and report progress annually.
- Maintain an inventory of bicycle and pedestrian infrastructure to identify gaps.
- Identify and prioritize projects based on infrastructure needs.
- Train staff and decision makers on the technical content and best practices of Complete Streets principles.

Policy Recommendation

The City of Fairfax will approach all planned transportation improvements and all development project impacts within the right-of-way as an opportunity to advance the value and objective of safety and Complete Streets. It shall be the policy of the city that:

- Every street safely accommodate all users.
- Any street subject to major maintenance, rehabilitation, or reconstruction will provide safe accommodation for all users, of all abilities.
- The means of accommodation will be appropriate to the street context and developed in consultation with local community stakeholders.
- The city will actively pursue regional, state, and federal funding opportunities to support Complete Streets improvements.
- City agencies and departments will collaborate and coordinate with one another and adjacent jurisdictions to apply Complete Streets principles and provide continuous networks.
- Progress on Complete Streets will be measured in concert with the adopted measures of the City of Fairfax Multimodal Transportation Plan.

