

COMPREHENSIVE PLAN

20142019

Adopted August 26, 2014Planning Commission Working Draft

Village of Essex Junction Comprehensive Plan – 20142019

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Chapter I General Planning Background

1. What is a Comprehensive Plan?

A comprehensive plan is an official public document adopted by the local government <u>to as a policy to</u> guide decisions about the physical development or redevelopment—of the community.—The comprehensive plan outlines how the Village wishes to develop in the next <u>eight</u> years.—Policies inthe plan will guide the community in decision making deliberations.

A plan should be comprehensive, general, -and long range.-_

- __"Comprehensive:"_<u>Itmeans it</u> includes all geographic_areas of the community and all issues in the community which might affect growth-issues_
- such as transportation, storm drainage, signs, landscaping, safety and conservation.
 "General: Limeans the plan summarizes policies and proposals, and establishes general policy goals for the community's future.—Although a plan will contain some specific proposals, eEmphasis—is placed upon general policies which should leadcan lead to development of specific projects, plans, or ordinances.—

"Long Range:_"

• means the plant looks beyond current issues to the problems and opportunities—20 years in the future.

<u>However, lin</u> recent years, comprehensive plans have shifted from more general guides on community policies to a more specific strategic document that focuses on implementation and action <u>as well asand includes</u> specific policies.—The benefit of this type of comprehensive plan is that it is more results oriented and provides much more detail on how the goals and objectives will be reached.— For these reasons the

20194 comprehensive plan update will focus on both general policies and specific implementation_in addition to general policies.

2. Why Develop a Comprehensive Plan?

A Comprehensive Plan ("Plan") helps to manage or control growth, and should represent a community's goals and aspirations for the future.—There are three general justifications for development of a Plan.

- 1. To accomplish things the community wants to happen, and
- 2. to avoid or prevent things the community does not want to happen, and
- 3. to accommodate things the community expects to happen.

Therefore, a Plan is a community's best opportunity to direct positive change, to minimize negative change, and to manage expected change.—A good Comprehensive Plan, with wide-spread public support, is the best mechanism—available to manage change.—A Comprehensive Plan is not a regulation but is a "guide" and a source of information for local officials, citizens, and developers.—It documents—the historical development—of the Village as well as the future aspirations of the community. Additionally, a comprehensive plan is used in state regulatory proceedings such as Act 250 and Section 248 applications.

3. The Planning Process

The Planning Process typically involves—six distinct and identifiable steps:

1. Generalized Goals – Broad statements regarding future development_of the Village. Identification of those general topics which should be analyzed during the Planning Process.—This 20194 Plan update benefitted from the previous Heart & Soul community conversation and the Design 5 Corners processes which project which identified six-community values which have laidto lay the groundwork for the future.

- 2.
- Inventory -Identification of existing physical, social, and economic characteristics—of the Village.

 Analysis -As a result of the inventory and the community's—statements of goals, an analysis of the community's resources and opportunities—was completed. 3.

- Implementation- Mechanisms—to implement the plan were developed and include such items as zoning and subdivision—ordinances,—capital planning—and budgeting, special projects and studies, and partnerships—with community—and regional organizations,—etc.
- 5. Monitoring Upon completion this Plan should be periodically–monitored and updated to meet changing conditions or changing policies.

4. Statutory Authority

The Vermont Planning and Development—Act, Title 24 of the Vermont Statutes Annotated, Chapter 117, authorizes the Village to prepare and adopt a Comprehensive Plan.—The identified purpose of the Act is to "encourage the appropriate development of all lands...in a manner which will promote the public health, safety, morals, prosperity, comfort, convenience,—efficiency, economy and general welfare; and to provide a means and methods for the municipalities—and regions of this State to Plan... and to implement—those plans..."—In 1988, the Vermont Legislature adopted Act 200, which further refines the State's planning statute.—In 1990, the Legislature further refined this legislation by revising the goals and policies of the Act.

5. Consistency with Adjoining Town and Regional Plans

The Village borders Essex Town to the north and South Burlington and Williston to the south and east.—In general, the adjoining—town plans have compatible land uses on joint borders.—As this Plan is implemented,—adjacent municipalities—should be invited to comment on projects which may affect them.—For example, this Plan includes goals aimed at improving the Village as a safe, walkable and vibrant Village area — including appropriately managing the traffic in the Village.

This Plan is generally—consistent with the 2013_2018 Chittenden County Regional Plan (entitled the ECOS Plan), which designates—Essex Junction as an area planned for growth-including Center, Metro, Suburban, and Enterprise planning—areas.—The Village Plan's emphasis on the Village Center District is consistent with the regional plan's growth center concept.

6. Plan Format

<u>The Plan is divided into chapters.</u> The Village of Essex Junction used the standard planning process, as identified <u>described</u> in Chapter I.—<u>The Plan is divided into chapters.</u>—Chapter II defines the goals for the remainder—of the Plan.—Chapter III describes the history of the Village and current demographic trends, with an eye toward the future.

The main body of the Plan is set forth in Chapter IV which is divided into major Plan elements such as Transportation, Land Use, Housing, etc.—Therefore, someone interested only in Transportation should look to that element of the Plan.—Each Plan element includes: 1) Background information and research materials as necessary;—2) Discussion of major issues; and 3) Specific Goals and Objectives.

Chapter V discusses general implementation strategies.— More specific information may be included in the individual Plan Elements.— Also included in this chapter is a discussion—of Plan Monitoring and Review Policies.

Finally, the Appendices—include data <u>that are</u> not included—in previous chapters: Appendix A includes a list of historical resources,—Appendix B includes Underground Storage Tanks (USTs), and Appendix C includes the maps.

Commented [MN1]: Need to include more detail on how the Village' future land use plan is compatible with that of its neighbors. Specifically need to identify the uses on the borders of other towns.

Chapter II Community Vision and Strategies for Essex Junction: 2014-2019

1. Community Values, Vision Vision, and General Goals

An important stage of any Planning Process—is the identification of community values.— The values—are used—in establishing a vision—for the future—and general community goals.— Together they are used to identify what the community is striving—to become or maintain as well as the challenges and opportunities it faces.—They define the Plan and provide focus to the Planning Process. More specific goals—and actions—are identified in the chapters that follow.

Heart & Soul

In 2012 and 2013 both the Town—of Essex—and Village—of Essex—Junction engaged in an in_-depth community conversation called—Heart—& Soul of Essex.—Through Heart—& Soul of Essex, the community was engaged in multiple ways to learn what the shared values are, and a letter understanding of the community's collective hopes for the future—was gained.—Six values—established: education, the local economy, thoughtful growth, health and recreated connections, and safety. Each value is described below, through 43 neighborhed (involving almost 350 people—who live or work in the community) and a survey—compact of the future—was gained.—Six values—connections, and safety. Each value is described below, through 43 neighborhed (involving almost 350 people—who had not previously participated in a Heart—& Souled Washed each—is-followed by the General Goals—and Vision for each, the Village:

Education - Essex invests time, energy, and resources to ensure that our highly respected schools meet the needs of everyone in the community. We are proud to support learning that extends beyond the traditional classroom and includes the arts, athletics, and vocational instruction.—Community—programs, and libraries offer diverse and affordable opportunities that prepare—residents of all ages for lifelong learning and for work in an evolving economy.

Essex Junction's Vision and General Goal:—To-continue to provide_
Village_residents with a DIVERSITY_diversity of vocational and educational opportunities, and cultural and recreational amenities to ensure—lifelong—learning for all.

Local Economy - Our residents contribute to a vibrant economy—by working for and patronizing a
diverse mix of businesses, from small, locally-owned enterprises to international corporations. We are
committed_

to fostering an environment-that produces-a world class workforce and a strong economy. for years to come.

Essex Junction's Vision and General Goal: To recognize and enhance the role of Essex Junction's existing business and industrial base for both the local ECONOMY economy and the Chittenden County REGION region as a major employment and transportation center.

Thoughtful Growth- We value wide-open spaces and tight-knit neighborhoods, rural readsroads, and vibrant downtown streets.—Essex is a place where we can enjoy a beautiful view, walk in the woods, and go out to eat without ever leaving town. We support a diverse housing mix, opportunities for business development, and a transportation system with a variety of options including—a connected network of walking and biking routes.

Essex Junction's Vision and General Goal: To ensure a well-balanced and desirable COMMUNITY community with a DIVERSITY diversity of options—to live, work, and play.—With a healthy—and vibrant Village—Center—(aka—DOWNTOWN) as the focal point—including a full range of services and activities, surrounded by the Junction's highly—valuable NEIGHBORHOODS neighborhoods and connected with a network of walking and biking—routes. This—vision can only be reached by encouraging new development in commercial, industrial and multi-family districts—within the Village—while managing this new

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growthGROWTH with high standards to both protect—and improve the IDENTITY-identity of the Village's historic character, and to minimize LAND_USEland use conflicts—that may occur—from_

infill and redevelopment of underutilized properties.-

Additional General Goals include: Cultivate public and private investment options for community—improvements.— Cooperate with adjoining communities to ensure quality development;—and to protect the Village from negative impact of adjoining development.— Minimize the total economic cost of providing housing, utilities, transportation and public facilities and services—(aka COST—EFFICIENCY).

—Health & Recreation - We value public places for outdoor and indoor recreation for all ages and abilities.
We treasure Indian Brook reservoir, neighborhood parks and the chance to connect by bicycle or on_

- foot.—Community institutions provide education and programs to support healthy lifestyles.
 <u>Essex Junction's Vision and General Goal:</u> Maintain an aesthetically attractive urban <u>ENVIRONMENT environment</u> that is sensitive to the natural <u>ENVIRONMENT environment</u>.
- Community Connections—_- Our deep connections with each other make Essex special. Neighbors help
 each other during good times and bad.—We value diversity and welcome everyone. We build our sense of
 community at local events such as the Memorial Day Parade, Five Corners Farmers Market, Annual Block
 PartyParty, and Winter Carnival. Our local newspapers and online forums give us plenty of ways to stay in
 touch. Residents participate in local government and volunteer.

Essex Junction's Vision and General Goal: Encourage strong public PARTICIPATION participation in all public decisions—affecting the development—or redevelopment of the urban area.

Safety - Essex is a safe place where neighbors watch out for one another. We value an active, visible
police force and strong fire and rescue services. Upgrades to our physical infrastructure will allow us to
move about our community with comfort and security.

Essex Junction's Vision and General Goal: Establish a network of walking and biking routes.

Design 5 Corners

The community values identified during the Heart & Soul process and follow-up public engagement were used to create a large-scale design and vision of the Village's future called Design 5 Corners focused on the potential future development of the Village Center. Three key takeaways were identified during this process. Future development and redevelopment in the Village Center should: 1) Maximize space in the Village Core 2) Calm traffic, and 3) Reclaim more space for people. Several popular design elements were identified during this process and included central greenspace and pocket parks, buildings lining the streets, a pedestrianized Main Street, multistory mixed-use buildings, and additional street trees.

Creating a place where people want to be is fundamental in revitalizing the Village Center. Pedestrian volumes at the 5 Corners have been increasing since 2001 and traffic volumes have been relatively steady for the past 25 years. These factors indicate that conditions are good for implementing an approach towards the 5 Corners consistent with the community values identified in the Heart & Soul and Design 5 Corners processes. This approach is guided by the conceptual design presented in the Design 5 Corners report. While this conceptual design cannot be implemented "as is" (the Village cannot mandate privately-owned developments), it can be used as a general template for evaluating proposed development with the values of the community.

A central piece of the implementation of the Design 5 Corners is the development of the Crescent Connect to connect Main Street (VT15), Maple Street (VT117), and Park Street (VT2A). Several zones of opportunity for new public spaces become possible with the development of the Crescent Connector. In addition, the creation of the Crescent Connector adds 29 new parking spaces in the Village Center.

The Crescent Connector will also make possible the closing of one leg of the 5 Corners (Main Street). This is expected to decrease the average vehicle delay through the intersection by 40%, eliminate lost time (when no vehicles are passing through the intersection), increase the capacity of the intersection by 789 more vehicles per hour, and significantly decreasing the length of lines of vehicles waiting to pass through the intersection. The closure of Main Street will also decrease the distance (and number of lanes) that pedestrians will need to cross and allow for traffic to move concurrently with pedestrian crossing. While, on average, six vehicles park on Main Street in the area to be closed, several new spaces are expected to be added along Railroad Avenue.

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Creating a walkable environment in the 5 Corners is consistent with the identified community values and can provide a competitive advantage to local businesses.

2. Accomplished Objectives

The following is a list of planning—accomplishments from 20082014 - 20194:

- Worked to gain funding for the Crescent Connector Road, through the CIRC Alternatives process,—which will ease congestion—at the Five Corners.
- Construction of the Lincoln Street Sidewalk was completed in 2013.
- Visioning for Train Station studied potential aesthetic improvements.
- · Five Corners Farmers' Market began in 2010.
- North Street to Railroad Station Multi-Use Path-construction grant received in 2013.
- The Town and the Village engaged_in an in-depth community_conversation called Heart & Soul of Essex.__Six shared community_values were identified.
- The Village received a Bronze Walk Friendly Community—Designation due to its sidewalk_coverage,—Safe Routes to School Program, excellent pedestrian plan, and regional coordination.
- Strengthened Design Review in Village Center through amendments to the Land Development Code in March 2011 including increased historic review and level of design review.

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- Expanded the boundary of the State Designated Village Center in 2011 to increase the potential for development in the Village core.
- Secured funding (CIRC Alternatives project) for Pearl Street Road Improvements—including road widening,—bike lanes and lighting.
- Completed_traffic calming improvements_and bike lanes on Pearl Street from West Street Extension to Champlain Valley Expo.
- In 2012, a comprehensive wastewater treatment plant facility refurbishment was contracted. Work completion is expected in the Fall of 2014.
- The Old Colchester Road pump station (AKA High School pump station) was replaced in 2012with a completely new pump station.
- The Village approved a 390,000 sq.300,000-sq. ft. light industrial master plan for the Champlain Valley

<u>Technology and Innovation ParkIBM</u> campus on Maple_Street to allow for more diversity in uses.

- Construction of the new police station. broke ground in November 2013.
- The Tree Farm was acquired for recreation.— This was a joint land acquisition project between the Village and the Town.
- The West Street Dog Park was opened and the Community Gardens were expanded in 2012.
- The BMX & skateboard park were added to the Maple Street Park in 2012.
- The Vermont Land Trust, with funding assistance from the Village, purchased development rights on 271 acres of the Whitcomb Farm in March 2014.—Additional development rights are planned for purchase—on approximately 143 acres, pending funding in 2015.
- A Certificate—of Public Good was issued for a 2,200 kW solar farm project on the Whitcomb Farm in December,—2013 and was supported by the Village Trustees.—Construction is anticipated—to begin in the summer of 2014.

The Planning Challenge: Toward 2019 and Bevond

Essex Junction is a dynamic—and largely developed—community with <u>aa good</u> mix of residential, commercial,—and industrial development.— It has desirable neighborhoods, accessible parks and open space areas, and established—downtown and commercial centers.—Portions of its commercial—areas can be classified as mature urban with underutilized properties that present opportunities—for redevelopment and renewed investment.—Therefore,—the planning challenge for Essex Junction is to manage growth, encourage—reinvestment—in the existing urban environment,—protect existing neighborhoods, and ensure that redevelopment or new development—enhances the vitality and "Village" character of Essex Junction.

Land use goals <u>are_that the Village has set for itself will be detailed</u> in the chapters that follow.— However, the most important issues that are being grappled with today will define the priorities for Essex Junction for the coming five years. **Formatted:** Indent: Left: 0.1", Space Before: 0 pt, Tab stops: 0.47", Left

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Goal1: Assist and work with existing businesses to stay and grow in Essex Junction. E.

Encourage and assist-_new businesses and clean industries to invest-_in Essex Junction.

Objective 1.1: Maintain a favorable business climate in Essex Junction.

Objective 1.2: Engage in policies to make progress—on the transit specific strategies in the

Town's Economic Development—and Vision Plan including #4 (regional multi-modal improvements),—#10 (freight rail service expansion),—and #12 (transit

oriented development).

Objective 1.3: Continue efforts to revitalize the Village center and attract business through

public investment in infrastructure.

Goal2: Promote thoughtful growth.

Objective 2.1:

Objective 2.2: Objective 2.3: Objective 2.4: Objective 2.5:

Objective 2.6:

Commented [MN5]: Include thoughtful growth in action report

https://www.essexjunction.org/fileadmin/files/Planning_Zo ning/TGIAfinalreport_FINAL_Mar15.pdf Ensure that new development and rehabilitation efforts enhance and reinforce the existing architecture, design and layout along major arterials and historic neighborhoods.

Encourage mixed-income infill housing within existing developed areas in the commercial and multi-family districts.

Promote the redevelopment of underutilized properties in the Transit Oriented Development (TOD⊕) and Village Center District.

Continue improvements in the public realm for a high quality pedestrian experience.

Continue efforts to preserve and rehabilitate existing historic structures through state and federal funding programs and incentives; and encourage private investment for the same.

Hold an enhanced community discussion and design charrette to develop design standards for the Downtown.

Goal 3: Continue improving Improve access to and safety of bicycle and pedestrian

facilities, and public transit. Support the work of the Bike-Walk Advisory

Committee.

Goal_4:

Implement projects that will move traffic-more efficiently while making the Village a more welcoming place for all modes of travel.

Objective 4.1: Implement the Connector Road project. Objective 4.2: Consider pedestrianization- of Main Street.

Consider_alternatives for vehicular traffic through Five Corners,-such Objective 4.3:

as redirecting-Route 15.

Implement the Design 5 Corners demonstration project once the Connector Road is Objective 4.4:

completed

Goal <u>5</u>S:

Establish policies and manage the Village budget and assets to enhance and ensure the continuation of the high quality of life that Village residents, businesses, -and visitors value.

Objective 5.1: Increase the ratio of light industrial/commercial uses to residential uses.

Objective 5.2: Investigate-additional sources of revenue.

Keep budget increases within the rate of inflation. Objective 5.3:

Objective 5.4: Continue to investigate and implement, when appropriate, shared services

between Village and Town governments.

Think strategically about Village--owned assets to maximize the benefit to the Objective 5.5:

public.

Objective 5.6: Consider_reinstating funding to the land acquisition fund.

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Chapter III History with an Eye Toward the Future

Prior to development of specific recommendations for the future, it is important to examine the trends of the past.—This Chapter reviews the historical development—patterns within the Village and identifies recent current statistical trends.—Historical development—patterns and current trends largely dictate future growth patterns.—Many of the Goals and Objectives within this Plan are influenced by these trends.

1. <u>Historical Development Patterns</u>

Early growth in Essex Junction was focused in the vicinity of Hubbell's Falls of the Winooski River, with some agricultural settlement occurring north of the mills.—A few structures remain which represent this early growth.—A brick house built by Ezra Slater, Sr. at the corner of Park and South Streets is representative of this early settlement.—Lincoln Hall, constructed about 1820 as a tavern, is another example—of early Village growth.

Probably the single most important influence—on growth patterns in Essex Junction was the arrival of the railroad in December,—1849.—At that time, the crossroads in Essex Township was named Painesville,—in honor of the Vermont Central Railway President,—Charles Paine.—Concurrently,—the Vermont and Canada Railroad was being constructed and a railroad junction was formed.—Burlington passengers—were forced to switch trains at the Junction.—Thus, the name Essex Junction began to appear, and in the early 1890's the name was officially changed.—The nucleus of the Village Center began to form around the railroad junction.—Early buildings included additions to the Stevens Tavern, the Central House Hotel at Central and Depot Streets.—The first church was erected by the Methodists and Congregationalists in 1866.

Another major influence on development patterns within the Village was the early street pattern.—The basic network of streets was formed by 1869.—Thus, at this early date the "Five Corners" of Main, Maple, Park, Pearl, and Lincoln Streets was already established.

By 1880, Essex Junction had displaced—Essex Center as the principal Village in the Township. Numerous—shops and stores were in existence.—In 1892, The Village obtained a Charter from the Vermont Legislature as the Incorporated Village of Essex Junction.—In 1890, Essex Junction had a population of 1,141, surpassing the 1,062 residents in the remainder—of Essex Township.

During the late 1880's and first half of the 1900's, development_continued to occur within the Village. Of note was the arrival of the automobile, and the beginning of traffic conflict at the "Five Corners".

The third major event to greatly influence the development—of Essex Junction was the arrival of IBM in 1957.—The Village population rose from 2,741 in 1950 to 5,304 by 1960.—Corresponding—with the population—and employment—growth was the demand for public and commercial services.—Businesses began to expand along Pearl Street while residential development—proceeded at a rapid pace.

These historical trends had a significant effect on current growth patterns.—The railroads still limit the efficiency—of the street network.—The five major streets intersecting—at "Five Corners" create heavy traffic congestion.—Some relief from traffic congestion occurred after the first section of the Circumferential Highway opened in 1993; however,—traffic levels have since reached precircumferential—numbers.—Pedestrian volumes at the 5 Corners have been increasing since 2001 and traffic volumes have been relatively steady for the past 25 years.

Traffic associated with Village Schools appears to have a significant impact on congestion in the morning as more parents seem to be driving their kids to school. Reasons for the increase in school

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related traffic could be the breakdown of the neighborhood school system, the

lack of busing or safety concerns. Thus, historic growth patterns limit and direct the planning effects within the Village today.

1.1 <u>Historical Resources</u>

In addition to the specific buildings identified above, there are other important historical resources within the Village.—The following inventories—of historic sites exist within Vermont:

- <u>Vermont Historic Sites and Structures Survey:</u> The state's Division for Historic Preservation
 has been inventorying—historic buildings since the 1970's—and the information is found in the
 <u>Vermont Historic Sites and Structures Survey. The This</u> statewide survey identifies and
 documents historic properties and sites yielding or likely to yield archeological and
 anthropological information.— The Essex Junction inventory is dated_
- 1984.—The inventory includes concentrated developments—in groups, identified as districts—where additional information about a district's overall character and development—is provided. There are 12 districts, and 2 complexes—(Whitcomb Farm and the Champlain—Valley Fair) in Essex Junction.—There are 205 buildings identified in total within the 12 districts and the Whitcomb Farm complex.—The inventory then lists 71 buildings-some of these buildings are the same as those within the districts and others are outside of those districts.—Altogether there are a total of 244 historic sites on this survey.—These resources are listed in Appendix A and mapped on Map 2.
- There is also a State Register of Historic Places: A site can be designated an Historic Place, adesignation given after review by the
- _Vermont Advisory Council on Historic Preservation.— This designation is largely honorary, y only -though, under Act 250 review, listed sites are presumed to meet the definition of "historic site" under Criterion 8 for review of development—applications and are thus considered in the decision of whether to issue a permit.—While the State works to digitize the resources on the registry there appears to be some discrepancy—in data on what sites in Essex Junction are actually listed.
- National Register of Historic Places in Vermont: The Division for Historic Preservation—alse administers the National Register of Historic Places in Vermontthis register.—Thee national register is the nation's list of historic and archeological properties worthy of preservation.—The criteria for inclusion are the same for the National and State registers.—National register designation makes properties eligible for federal and state tax credits and offers some protection from federally funded, licensed, or permitted projects that would harm them.—However, it does not restrict what an owner may do to his property, including tearing it down.—Sites listed on the National Register are automatically listed on the State Register.—While the State & National Parks work to digitize the resources on the registry there appears to be some discrepancy—in data on what sites in Essex Junction are actually listed.

Appendix A provides an overview of these three inventories, the criteria for inclusion, the protections provided, the benefits received, and the sites within Essex Junction.—As the Village prepares for the future, these historic resources—will be analyzed—and prioritized to determine which structures should be preserved.

2. Recent Trends

Sound, reliable background_data is a prerequisite_for any long-range planning.— It provides necessary background information and provides insight for the future.—However, the comprehensive-plan should be more about shaping the future to meet community objectives than trying to respond to social, demographic and economic trends, which are difficult to predict.—This section provides some general statistical data to establish any major trends.— In many cases, additional information is provided in the individual Plan elements.

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2.1 Population Growth & Demographics

Historical growth rates for Essex Junction, Chittenden County and Vermont are provided on Table 1. As indicated by the Table, substantial growth occurred during the 1950's and 1960's, concurrent with growth at IBM.—Since 1970 the growth rate has slowed.—Within Essex Junction, the slowing of the growth rate can be attributed to several causes.

- 1) 1) Employment at IBM has been reduced
- 1)2) Global Foundries acquisition red of a portion of the IBM space.
- 32) There is limited vacant land available for new residential development.
- 43) Family sizes have been declining locally, following a national trend to smaller families.—In addition, there are an increasing number of older households.

However, in However, in the last ten years between 2000 and 2010 the rate of population growth in Essex Junction—has increased.—The most recent population—count census (2010) indicated 9,271 people living in Essex Junction, a.—This is a 7.92% increase from 2000.—Essex Junction grew more quickly from 2000 to 2010 than it did from 1990 to 2000, however this is still lower than previous decades.

-New Census data will be available after the 2020 Census is completed. To identify changes in population in the years between censuses, the Census program recommends using data from the Census Bureau's Population Estimates Program. OThe Census Bureau's Population Estimates Program produces official population estimates for Essex Junction are shown in Table 2. According to these estimates, The estimated population for the Village in

2012_2017 was 9,49810,691, persons, which represents a 14% 2.45% percent increase from 2011 ever this two year time period. It is not anticipated that this rate of growth will adversely impact the provision of services to the local community.

Table 1
Population Growth 1900-2010

	Village of Essex	% of	Chittenden	State of
	Junction	Change	County	Vermont
1900	1,141		39,600	343,641
1910	1,245	9.11	42,447	355,956
1920	1,410	13.25	43,708	352,428
1930	1,621	14.96	47,471	359,611
1940	1,901	17.27	52,098	359,231
1950	2,741	44.18	62,570	377,747
1960	5,350	94.81	74,425	389,981
1970	6,511	21.92	99,131	444,732
1980	7,033	8.01	115,534	537,361
1990	8,396	19.38	131,761	562,758
2000	8,591	2.32	146,571	608,827
2010	9,271	7.92	156,545	626,011

Sources: U.S. Census; Vermont 2000, Vermont Dept. of Health, January 2002

Table 2
Population Estimates 2011-2017

T Opulation Estimates 2011 2011		
	Population Estimates	
2011	9,338	
2012	9,477	
2013	9,651	
2014	9,832	
2015	10.065	

2016	10,386
2017	10,691
Causas IIC Ca	nove Division Deputation Estimate Discussion

Source: US Census Bureau Population Estimate Program

Over the last 20 years, the average household size in Essex Junction has been declining.—It has gone from 2.57 people in 1990 to 2.48 people in 2000 and most recently to to 2.39 people in 2010. Household size has further dropped to 2.34 (+/-.11), according to the 2013-2017 American Community Survey 5-Year Estimates. Additionally, the TAdditionally, the number of households withhouseholds with individuals—under 18 has also decreased—and continues to do so. In 2017, ACS estimates indicate that 29.9% of households had children under 18. This is down from 31.6% in 2010, 30.9% in 2000, and 52.3% in 1990.—In 1990, 52.3% of the households—had children under 18, while in 2000, 30.9% of the households had children under 18.

It is also helpful to have an understanding of the demographics of Village residents prior to development of specific recommendations for the future.—The data below includes the age (Table 23) and race (Table 34) of Village residents in 2010.—Additional information can be found throughout the chapters in this Plan, the U.S. Census website, and at housingdata.org.

Table 2

-percentage of Population by Aige

2010 percentage of P	opu at i	on DY Mgc
Total population	9,271	100
Under 5 years	565	6.1
5 to 9 years	591	6.4
10 to 14 years	610	6.6
15 to 19 years	585	6.3
20 to 29 years	1218	13.1
30 to 39 years	1239	13.4
40 to 49 years	1490	16.1
50 to 59 years	1507	16.3
60 to 69 years	742	8.0
70 to 79 years	466	5.0
80 to 84 years	157	1.7
85 years and over	101	1.1
Median age (years)	38.9	(X)

Table 3
2010 percentage of Population by Race

White	91.50%
Black or African American	1.70%
American Indian	0.40%
Asian	3.90%
Indian	1.20%
Chinese	1%
Filipino	0.20%
Japanese	0.10%

Source (for both tables): U.S. Census

<u>Table 3</u> <u>Population by Age (2017)</u>

_	<u>Total</u>	_	<u>Percent</u>	_
		Margin of		Margin of
_	<u>Estimate</u>	<u>Error</u>	<u>Estimate</u>	<u>Error</u>
Total Population	10,132	<u>+/-32</u>	_	_
<u>AGE</u>	_	_	_	_
<u>Under 5 years</u>	<u>544</u>	<u>+/-158</u>	<u>5.40%</u>	<u>+/-1.6</u>
5 to 9 years	<u>616</u>	<u>+/-150</u>	<u>6.10%</u>	<u>+/-1.5</u>
10 to 14 years	<u>671</u>	<u>+/-164</u>	<u>6.60%</u>	<u>+/-1.6</u>
15 to 19 years	<u>567</u>	<u>+/-173</u>	<u>5.60%</u>	<u>+/-1.7</u>
20 to 24 years	<u>1,024</u>	<u>+/-277</u>	<u>10.10%</u>	<u>+/-2.7</u>
25 to 29 years	<u>513</u>	<u>+/-156</u>	<u>5.10%</u>	<u>+/-1.5</u>
30 to 34 years	<u>707</u>	+/-208	7.00%	<u>+/-2.1</u>
35 to 39 years	<u>736</u>	<u>+/-182</u>	<u>7.30%</u>	<u>+/-1.8</u>
40 to 44 years	<u>657</u>	<u>+/-140</u>	6.50%	+/-1.4
45 to 49 years	<u>769</u>	+/-194	7.60%	+/-1.9
50 to 54 years	<u>965</u>	<u>+/-216</u>	9.50%	<u>+/-2.1</u>
55 to 59 years	<u>646</u>	+/-168	6.40%	+/-1.7
60 to 64 years	<u>383</u>	<u>+/-103</u>	3.80%	<u>+/-1.0</u>
65 to 69 years	<u>523</u>	+/-123	5.20%	+/-1.2
70 to 74 years	<u>206</u>	+/-91	2.00%	+/-0.9
75 to 79 years	<u>202</u>	+/-96	2.00%	+/-1.0
80 to 84 years	<u>334</u>	+/-133	3.30%	+/-1.3
85 years and over	<u>69</u>	+/-46	0.70%	+/-0.5

<u>Table 4 Race (2017)</u>

		Margin of	
_	Estimate	<u>Error</u>	Percent
Total:	<u>10,132</u>	<u>+/-32</u>	100.0%
White alone	<u>8905</u>	<u>+/-365</u>	87.9%
Black or African American alone	<u>203</u>	<u>+/-125</u>	2.0%
American Indian and Alaska Native alone	<u>0</u>	<u>+/-15</u>	0.0%
<u>Asian alone</u>	<u>719</u>	<u>+/-344</u>	7.1%
Native Hawaiian and Other Pacific Islander alone	<u>0</u>	<u>+/-15</u>	0.0%
Some other race alone	<u>51</u>	<u>+/-56</u>	<u>0.5%</u>
Two or more races:	<u>254</u>	<u>+/-159</u>	2.5%
Two races including Some other race	<u>0</u>	<u>+/-15</u>	0.0%
Two races excluding Some other race, and three or more			
races	<u>254</u>	<u>+/-159</u>	<u>2.5%</u>
Source: 2013-2017 American Community Survey 5-Year Estimates, Mar	gin of Error is	not available for p	ercent

2.2 <u>Future Trends</u>Population Projections

Vermont Statute requires that all plans shall be based upon surveys of existing conditions and probable future trends and shall be made in the-light of present and future growth and requirements (24 VSA §4302). Forecasts and projections are two types of methods for developing future demographic trends. The following includes a projection from the VT Agency of Commerce and Community Development (ACCD); and a forecast from the Chittenden County Regional Planning Commission (CCRPC).

Looking further out- t_he VT Agency of Commerce and Community DevelopmentACCD, developed population projections from 2010 to 2030 in August, 2013.—These projections use US Census data as the basis for calculations; and mortality, birth rate, and migration rate data from 1990 to 2010 as factors.—

Pt is important to note that projections are not predictions and assume predictions — "projections assume that conditions that occurred in the past will continue into the future".—<u>Therefore, While</u> projections can be a helpful planning tool, they but with the understanding that they cannot predict the future. may not be accurate. Therefore, the projections include two scenarios based on different migration assumptions — Scenario A is based on migration rates during the 1990s, and Scenario B is based on migration rates during the 2000s.—The projection report states:

"In Vermont, there is a relationship between the national economy and the direction and magnitude of migration. During the 1990s (Scenario A), the national economy was generally healthier than during the 2000s (Scenario B) and Vermont saw greater rates of net in-migration. As a result, Scenario A using 1990s migration rates generally, show higher populations than Scenario B using the migration rates of the 2000s."

In contrast, Tthe Chittenden County Regional Planning Commission's CCRPC's population forecast is a different approach from the projections described above because it does not solely rely on past trends. The forecast also involves complex modeling and statistical approaches to estimate future growth. Like projections, a forecast is a planning tool to assist with decision making. Additionally, CCRPC's forecast provides future employment and housing estimates which can be found here: https://www.ccrpcvt.org/our-work/our-plans/ecos-regional-plan/.

While the <u>projections and forecasts</u> were not calculated for Essex Junction, they were calculated for Essex and can be found in Table 4<u>5 and Table 6</u>.

Table
45
Populafton ProJections 2010 - 2030

			Scena	11	Scenario B				
	2010		%change		%change		%change		%change
	Census	2020	from	2030	from2010	2020	from	2030	from
Essex	19,587	20,556	4.90%	21,138	7.90%	20,074	2.50%	20,057	2.40%
Chittenden									

Source: Vermont PopulatiOn ProJections- 2010-2030, August, 2013.—Ken Jones, Ph.D., Economic Research Analyst, Vermont Agency of Commerce and Community Development and Lilly Schwarz, Community Based Learning Intern, Montpelier High School. Developed with the assistance of a Population Project Review Committee.

<u>Table 6</u> <u>Population Forecast</u>

	2015	2020	2025	2030	2035	2040	2045	2050
Essex	20,946	21,599	22,137	22,577	22,895	23,103	23,464	24,020
<u>Chittenden</u> County	161,382	165,803	169,580	<u>172,596</u>	<u>174,764</u>	<u>176,179</u>	<u>178,927</u>	<u>183,172</u>

Source: Chittenden County Regional Planning Commission

Chapter IV Comprehensive—Plan Elements

Introduction

If this Comprehensive Plan is to accurately address the goals and aspirations of the Village, formal and specific guidelines—for growth must be developed.—These guidelines must be general enough to encourage innovative solutions to problems, but—be specific enough to focus the actions of the Village in a consistent, workable planning approach.

Another key ingredient—of a successful Comprehensive Plan is a clear, concise physical development plan.—This Plan will direct and manage the future physical growth and redevelopment—of the Village. It encourages—orderly, planned growth and represents the community's—vision for the future.—While it is not possible to identify all issues or satisfy all concerns, the plan is intended to strive for a reasonable balance between competing interests.

The Plan Elements as presented in this Chapter are, therefore, the most important sections of this Plan.—They are the engine that will drive the future of Essex Junction.—Although each element is presented in a format to be used individually,—it should be recognized that they are interdependent. The goals, objectives, and maps in each functional element should be adhered to if the overall plan is to remain viable.

The remaining sections of this Chapter are divided into separate Plan elements.—Each individual Plan Element contains the official, adopted policies of the Village of Essex Junction.

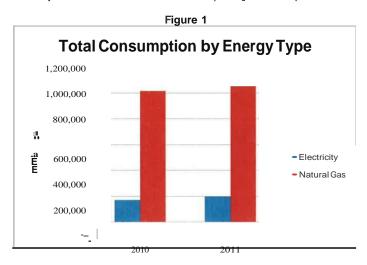
1. Energy

Energy is a core component_of community success.—The Village of Essex Junction is a jurisdiction where energy production and use are of vital concern which impact overall quality of life in the community.—Exterior lighting control is also critical from an energy, safety, and biological perspective. The State Comprehensive Energy Plan designates the current Vermont State standards, code, and goals for energy use and production as the minimum standard within Essex Junction.—Cooperation with State Officials, utilities, and energy suppliers is required to ensure the availability_of adequate supplies of energy, for a reasonable—cost and with minimal impact on the environment.

1.1 Energy Profile

For residential and commercial/industrial buildings tīhis section describes energy consumption in the Village for residential and commercial/industrial buildings. in terms of what energy sources are used, what they are used for, and how much is used. These data can also serve as a baseline for tracking progress the Village makes on implementing energy conservation actions.— In addition, the profile describes the two largest municipal electricity consumers;—and the role of land use and transportation in energy consumption.— Understanding—the Village's energy profile will also help target specific strategies available to the Village for reducing energy consumption—and—its greenhouse gas emissions.

Figure 1 below identifies how much energy is consumed <u>by-in-total for-the Village_of-Essex-Junction</u>. This includes homes, businesses,—municipal operations,—and other sectors.—The purpose of this graph is to inventory the type of energy being used within the Village <u>and how-to-begin-understanding</u> how energy consumption is changing from year to year. This <u>can-and-to-be</u> a starting point to inform policies and implementation programs that promote efficiency and the use of renewable energy resources. Although data over the last 10 years <u>areis</u> not available, total consumption between 2010 and 2011 <u>did-increaseincreased</u> for both electricity and natural gas, indicating that efficiency measures at all levels of consumption—should be prioritized.



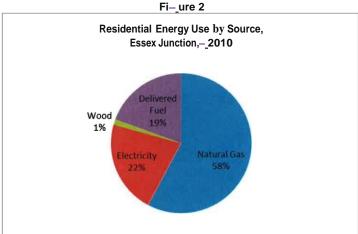
Source: VT Gas, Efficiency_VT

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Residential:

Figure 2-below shows the proportion of energy <u>sources</u> used in homes in the Village_by source.__Natural gas accounts for 58% of the energy used in the Village's homes_—and is primarily used for space heating, hot water, cooking, and drying clothes.—Electricity accounts for the second largest source of energy

in the Village at 22% and is used for appliances, lighting, home electronics, and in some cases electric vehicle charging.—The least used types of energy in Village homes are wood and delivered fuels (oil and propane), both)-primarily used for space heating.



Source: Chittenden County Regional Planning Commission, VT Gas, Efficiency VT, EIA

Strategies for how to lower residential energy use include:

./—_Provide financial incentives for renewable energy applications, thermal efficiency improvements, and electricity efficiency

Home weatherization—is the most cost effective way of modifying a building to reduce natural gas consumption and greenhouse—gas (ghg) emissions (see section 1.2 below for more information on ghg).—Weatherization includes air sealing, insulation, and upgrading heating systems and can dramatically—reduce a home's heating bills. However, the initial upfront capital to make weatherization improvements—on—a home can be difficult for some households—and businesses.—The Property Assessed Clean Energy (PACE) Program is a way for municipalities—to make—a commitment to helping residents finance weatherization projects for existing homes.—PACE financing options can also be used to install renewable energy systems like solar hot water systems or solar panels, which would reduce electricity consumed—from the grid and provide a clean source of power.—The Essex Energy Committee looked into PACE as an option for Essex, but found, at the time,—that homeowner's could get a better rate on home equity loans.—If home equity rates change in the future PACE may be a more viable option.

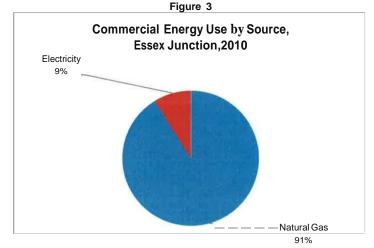
./—_Meet or exceed state energy efficiency building standards for new construction and major renovations

For new construction and building renovations,—the State of Vermont has an energy building code, the VT Residential and Commercial Building Energy Standard.—Compliance—with the energy code is necessary to ensure that new development—and alterations to existing buildings are using all types of energy efficiently.—To meet the code, the zoning administrator is responsible—for providing the energy code to land use permit applicants and must see a completed energy certificate that certifies that the applicant has complied with the code before issuing a certificate of occupancy.— Even though a certificate of occupancy may not be needed for all types of buildings, all buildings must comply with the State energy code. The Village should consider incorporating—language into zoning ordinances requiring new homes and commercial buildings to be built to code (or higher levels of efficiency) to help educate the development community on the code. An example includes the new-proposed Town and Village Police Facility: A photovoltaic solar array on the facility's roof will provide the building's energy needs and produce energy savings in an amount exceeding the projected bill for natural gas. Energy savings (the facility is capable of earning LEED Gold certification) equal-savings in operational costs.

To improve the thermal efficiency of commercial and residential buildings,—a municipality could implement—a time_-of_-sale energy retrofit ordinance for rental housing.—Time_-of_-sale retrofits target older buildings,—particularly multi-family housing, that aren't being reached by voluntary incentive programs.—Building energy retrofits offer multiple benefits that include saving money on utility bills, improved safety and maintenance,—and comfort.—TAdditionally, the money saved from doing energy improvements—also gets recirculated into the community instead of being exported out of the region.—As an example,—the City of Burlington has a time_-of_-sale energy retrofit ordinance.

Commercial/Industrial:

Figure 3 below shows the <u>proportion of energy sources used by picture</u> of commercial/industrial businesses—within the Village.—Most of the energy used in businesses is in the ferm of electricity <u>used is for lighting</u>, computers, appliances, and for operating industrial processes.



Source: Chittenden-County Regional Planning Commission, VT Gas, Efficiency VT

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Specific strategies to reduce a business's electric load include converting to renewable—sources for electricity, automating controls, switching to LED bulbs, upgrading HVAC equipment; reducing plug loads for office equipment, and monitoring efficiency of other business processes.—Weatherizing existing commercial—space will also reduce natural gas usage for space heating.—New commercial buildings are also subject to the same state energy code to improve the thermal envelope and ensure that lighting, HVAC, and other loads are efficient.

Municipal Lighting & Energy Use:

<u>TBy far the largest component</u>—of municipal electricity usage is for street lighting.—The second highest energy usage is the Waste Water Treatment Plant.—

Streetlights—in the Village are currently mercury vapor.—High-pressure—sodium lights are not allowed according to the Land Development CodeLDC.—Existing street lights in the Village should be upgraded to the most efficient technology—available as practicable.—The use of architectural—or period style lighting is encouraged.

<u>Current Village policy requires—compliance with the Regional Planning Outdoor Lighting Manual for Vermont Municipalities.—There has been some concern that there is more light than necessary on Pearl Street.—The Village should assess the situation and develop a more appropriate—standard for streetscape lighting.</u>

The Wastew Water Treatment PlantFacility has initiated two major energy management efforts:

The typical home uses 9,000 kWh/per year of electricity. The Essex Junction Wastewater facility cCo-g-Generation—system produces enough power annually to supply 50 homes (tThe typical home uses 9,000 kWh/per year). The co-generation system produces 40% of the electricity used in the wastewater treatment process. of electricity. By using this electricity generated directly on_-site, the installation maximizes the energy efficiency and the cost benefit to the community.—The Co-Generation system produces 40% of the electricity used in the wastewater treatment process.

Streetlights in the Village are currently mercury vapor. High-pressure sodium lights are not allowed-according to the Land Development Code. Existing street lights in the Village should be upgraded to the most efficient technology available as practicable. The use of architectural or period style lighting is encouraged.

Current Village policy requires compliance with the Regional Planning Outdoor Lighting Manual for-Vermont Municipalities. There has been some concern that there is more light than necessary on-Pearl Street. The Village should assess the situation and develop a more appropriate standard forstreetscape lighting.

Land Use & Transportation:

The relationship—between transportation,—land use, and energy consumption is extremely important and—is an area in which the community can have a large impact on energy consumption through development—regulations and infrastructure.— According to the Vermont Total Energy Study, "more than one third of the state's energy consumption,—and nearly half of its greenhouse—gas emissions,—are tied to the transportation sector."—Therefore,—a reduction in vehicle miles traveled by passenger vehicles can have a significant big impact on energy consumption.

 $\underline{\text{CIn-recent years-communities-_are realizing the important connection between transportation-_and land use, which impacts energy use.-_Certain land use patterns can reduce dependency-_on the automobile by providing greater transportation-_options through compact mixed use developments$

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where people can choose to walk, bike, use public transportation, or drive an automobile.

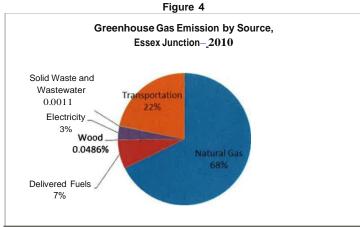
Essex Junction has a relatively unique opportunity within the county to support greater transportation choice and reduce automobile dependency. The Village —since it is a relatively compact community with an extensive sidewalk network where many local services are within walking distance to residences.—Essex Junction is also served by public transportation and rail.—Essex Junction residents have more transportation—choices than many neighboring—communities—that have a more—suburban/rural—land—use pattern.—Further support of higher density infill and redevelopment in core areas of the Village may reduce demand on energy.

1.2- Greenhouse Gas Emissions

<u>DThe use of different types of energy release causes varying amounts of different greenhouse gases</u> (ghgs), emissions to be released into the earth's atmosphere and is known to be a contributors to the changing of our climate climate change.—The State of Vermont established a goal of a 50% reduction in ghg emissions by 2028. <u>Different greenhouse gases are described in a common unit known as carbon dioxide equivalents or CO2e</u>. For different greenhouse gases, CO2e signifies the amount of CO2 which would have the equivalent impact to climate change.

Given that Essex Junction is part of the State and contributes to the statewide emissions, it is helpfulto understand the source of the Village's ghg emissions.

Figure 4 below provides an overview of the primary contributors—of ghg emissions by sector/source within Essex Junction.



Source: Chittenden County Regional Planning Commission

Within Essex Junction, ghg emissions total 86,140 metric tons of carbon dioxide equivalent <u>CO2e</u> or about

_1% of the emissions generated in the State and 7% of emissions—in Chittenden County.—Emissions from natural gas account for the largest share of ghg emissions in the Village, 68%.—Transportation emissions from on-road gas consumption are second at 22%.—Delivered fuel consumption is the third greatest source of emissions.—Electricity consumption accounts for 3% of emissions.—A small amount of emissions—are generated from solid waste decomposition—and wastewater treatment.—The Essex Junction Wastewater Treatment plant—Facility captures the methane gas (a potent ghg) to power the treatment plant equipment.

1.3- Reduce Energy Consumption, Decrease Greenhouse-Gas Emissions & Increase Renewable Energy Generation

The Village has already employed many energy strategies including methane capture at the wastewater treatment facilityplant; construction,—operation and maintenance—of facilities that support pedestrians—and bicyclists; and encouraging—higher density development in 2014, In-addition, the Whitcombs are intending to installinstalled a 3.6 megawatt peak (MWp)—a solar array-farm

Essex Junction Comprehensive Plan 20142019

on their property.—_The following list includes a variety of additional measures that can be taken to reduce energy consumption,—_decrease greenhouse-gasghg emissions,—and increase renewable—energy generation.

Given the highest contributor of ghg emissions—is from natural gas used for space heating, the Village should prioritize implementation of actions that improve the thermal efficiency of its buildings.

./__Promote Energy Efficient Programs and Emissions Reductions Campaigns

Community_campaigns_educate and motivate people and organizations_to take action._ Approaches such as community contests among residents and challenges_with other towns can be effective.

Other effective programs are door-to-door—campaigns,—phone-a-thoens, and energy parties.— Efficiency Vermont, CarShare,—Drive Electric Vermont,—and Vermontivate—all offer challenges to reduce energy use at home, at work, and in transportation.

./__Become an Electric Vehicle (EV) Ready Town

Projections for EV adoption state that by 2023 approximately—5,800 EVs will be registered in Vermont, requiring 70 charging stations in Chittenden County.— Communities—should begin to plan for the deployment—of electric vehicles and the necessary supporting infrastructure—of charging stations

A variety of tools are available for EV-ready planning.—These include zoning, parking ordinances, permitting and inspection, and partnership and procurement.

./—_Promote and provide transportation—_alternatives to driving alone to work for municipal employees and other y⊻illage employees

Encourage employees—to share rides to work and provide reserved parking for car and van pools.— Go Vermont and Go Chittenden County can help with ride matching services.—Go Vermont can help van pools obtain a van, insurance,—vehicle maintenance,—and fare collections.—Encourage employees to use public transit to get to work by offering transit discounts or passes, providing a guaranteed—ride home, and working with GCTA—Green Mountain Transit (GMT) to provide a convenient—bus stop and shelter.—Encourage employees

_to walk or bicycle to work.—_Providing shower facilities and covered bicycle parking can make this a more attractive option.—_Implement municipal fleet policies to reduce energy consumption,—_costs_ and greenhouse—gasghg emissions.

./ Bring car-share-_programs to Essex Junction

CarShare Vermont is implementing—a neighborhood-based social marketing program and assessing the viability of expansion—into new communities.— Car-sharing—programs—require a critical mass of users, and are therefore more viable in urban rather than rural areas.

./- Improve the safety and efficiency of existing roadway networks to optimize traffic flow

Optimizing traffic flow allows—will allow traffic to move more efficiently along roadways and through intersections,—decreasing—time spent idling or accelerating and thus reducing emissions from vehicles. The Crescent Connector will make possible the closing of one leg of the 5 Corners (Main Street) which is expected to decrease the average vehicle delay through the intersection by 40%, eliminate lost time (when no vehicles are passing through the intersection), increase the capacity of the intersection by 789 more vehicles per hour, and significantly decreasing the length of lines of vehicles waiting to pass through the intersection. This will have a significant impact on vehicle emissions in the Village.

Projects that improve safety and efficiency for bicycles and pedestrians—remove barriers to bike/ped-transportation to their use and reduces vehicle use for local needs.— Projects that prioritize signals for transit or provide real-time information on bus location can improve the efficiency and competitiveness of public transit.—Projects that improve efficiency can preclude (or postpone) capacity expansion—projects.

./__Locate and develop Park and Ride facilities to promote transit use and ridesharing

Park and \underline{R} ride facilities reduce highway traffic congestion, and worksite parking demand, and \underline{R} reduce highway traffic congestion, and \underline{R} ride facilities reduce highway traffic congestion.

ride facilities—can help support transit service.—Park and ride facilities should be appropriately—sized or phased, based on location, potential for transit, and potential future usage.

./ Promote renewable—energy development—that works in harmony with community goals for land use, including implementation of on-site renewable—energy in municipal buildings—and inclusion of solar standards in the <u>Land Development CodeLDC</u> for new development.

Although emissions—from electricity are account for onlyabout a bout 3% of total emissions, electricity—does accounts for about half of the energy used in the Village.—Additionally, the State of Vermont is working toward a goal of 90% of its energy from renewable—sources by 2050.—Renewable energy is energy that comes from resources that are replenished—and do not produce ghg emissions when converted to energy.—Renewable—energy typically comes from sunlight, wind, and geothermal heat.—Encouraging the installation—of solar

panels on rooftops (especially_on municipal buildings)—within the Village will support the State in meeting this goal and make the Village more resilient, independent,—and less vulnerable to power outages during storm events.

There are many ways to further development_of renewable_energy generation in the Village, including addressing_solar in the <u>Land_Development_Code_DC</u>.__Addressing_solar in the <u>Land_Development_Code_DC</u>. are placed in appropriate locations, and mitigate any potential negative impacts.

1.4- Low Income Energy Assistance

Any Village-initiated communications program should alert low-income residents about these valuable government programs.—Programs available in Vermont to assist low-income_individuals and families with heating bills include: the Vermont Department_of Children and Families (DCF), Fuel Assistance_Program, and Champlain Valley Office of Economic Opportunities (CVOEO) WARMTH program and Weatherization Program.—DCF's Fuel Assistance—Program can help pay a part of your-home heating bills if—your gross household income is equal to or less than 185% of the federal poverty level, based on household size.—The WARMTH program funds are available only in emergency—situations; that is, when the household—has exhausted their supply of fuel or faces disconnection—of utility services. Each household—is entitled to three assists during the heating season, and up to \$75 for each time they receive fuel assistance.—The Weatherization Program provides services to income-qualified households—at no charge.—The weatherization Program provides services to income-qualified households—at no charge.—The services include: an energy audit; check-up of heating systems to ensure safety, efficiency and effectiveness;—free lighting and appliance upgrades—(where applicable) through a partnership—with Efficiency Vermont;—and renovation construction.

1.5- Underground Storage Tanks

Directly associated—with the use of energy is the safe storage of fuels.—Although regulated by the State of Vermont, it is important for emergency—planning—purposes to be aware of the location of the storage facilities underground storage tanks (USTs).—Within Essex Junction, the State of Vermont reports that 50 UST's, located on 14 separate sites, are registered—and regulated.—The average UST in the Village is 6,390 gallons and is

_22.6 years old.—Almost all of the tanks are made of steel, none have double liners, and only 10% report an electronic monitoring—system.—The Village owns two tanks—<u>USTs</u> for diesel fuel at the Public

Works facility. A list of underground storage tanks USTs is included in Appendix B.

1.6- Energy Goals

Goal1: Work with the Essex Energy Committee to prioritize this list of energy goals. A cost benefit analysis could help focus efforts on the most effective and efficient strategies.

Goal2: Cooperate—with State Officials and energy—suppliers to ensure the availability of adequate supplies of energy for business and residents—at reasonable prices and with minimal impact—on the environment.

Goal3: Encourage the development of renewable energy resources to contribute to the State's—goal of 90% renewable—energy—by 2050.

Goal4: Construction of new buildings and rehab of existing residential and

commercial/industrial buildings shall comply with the current edition of Vermont Residential Building Energy Standards and Vermont Commercial Building

Energy Standards.

GoalS: Ensure that municipal equipment meet all required stationary and nonstationary equipment requirements where applicable (i.e. Vermont State, OSHA,

EPA, ANSI Standard-B71.1 or B71.4).

GoalS: Participate in green pricing programs, when available, to promote the use of

renewable energy.

Goal 7: Ensure that new and replacement street lamps—utilize the most—current and efficient energy—technology.

Objective 7.1: Continue to require energy efficient street lamps in new developments.

Objective 7.2: Use energy efficient street lamps when replacing existing lamps.

Objective 7.3: Meet or exceed the current adopted version of the Regional Planning Outdoor

Lighting Manual for Vermont Municipalities.

GoalS: Support a variety—of transportation options including walking, biking, public

transit that reduces-reliance-on the automobile.

Goal9: Continue reducing local energy demand by providing further_expansion of

sidewalks, bike paths, pPark and& Rrides and public transportation.

Goal10: Display-and distribute information to residents and businesses that will help

them save energy.

Goal11: Encourage the Brownell Library to expand and update energy publications and

publicize this source to the general public.

Goal12: Continue recycling programs at all Village buildings and facilities.

Goal13: Conduct energy_audits_for all Village Buildings.

Goal14: Continually examine the cost effectiveness to expand use of methane generated

at the Waste Water Treatment- Facility Plant as a renewable- energy resource.

Goal15: Consider fuel efficiency when purchasing new vehicles. Consider the use of

alternative fuels for new vehicles.

Goal16: Provide residents with information on heating- assistance programs on an

annual basis to make those in need, aware of the programs.

Commented [SS10]: Isn't this already done?

2. Agriculture & Community Forestry

Agriculture—is alive and strong in Essex Junction as evidenced by conservation—of the Whitcomb Farm, the thriving—Five Corners—Farmers' Market,—a waitlist for community garden plots, restaurant participation—in the Vermont Fresh Network, and Farm to School.—Refer to Map 1 for reference to prime agricultural soil.

The Whitcomb Farm provides many valuable—resources to the Village, including productive agricultural land.—The Whitcomb Farm also promotes agriculture education, open space, recreation, and wildlife habitat.—The Whitcombs—and the Village also benefit from the farm's utilization of treated biosolids from the Waste Water Treatment Plant—Facility as fertilizer a-nd in 2014 a 3.6 MWp solar array was developed on the property.—In the future the Whitcomb Farm hopesto provide a location for the production of renewable energy.

The Village Trustees provided the Whitcomb Farm with a three year tax break in 2011, securing public recreation—on the property and supporting the Whitcomb's—efforts to conserve the land.—In addition, the Village voted to use \$20,000 of the land acquisition fund toward the Vermont Land Trust's purchase—of development—rights from the Whitcomb Farm.—The purchase of development rights is planned in two phases-Phase 1 for 271 acres closed in March 2014; and Phase 2 is for approx. 143 acres and funding is not yet secured but the plan is to close in 2015.—This will effectively protect the Whitcomb Farm from development and keep it as a working farm in perpetuity.

In addition to the Whitcomb Farm, the importance of local agriculture to the residents of the Village is evidenced_by:

- the thriving Five Corners Farmers' Market the Market is open on Friday
 afternoon/evenings from June through October, and occasionally in the winter. Thirty-fivevendors participated in the 2013 market;
- restaurants—have joined the movement—by participation in the Vermont Fresh Network;
- the Village Recreation and Parks Department also run a Community Garden Program with approximately—150 garden plots at the West Street Garden and the Meadow Terrace Garden (and there are waitlists for use of these plots).—The Department also hosts gardening—classes;
- the Village adopted a chicken ordinance to allow homeowners to have chickens in their backyard.— As of December,—2013 approximately—3 to 4 chicken permits have been issued; and;
- CCSU, which serves the Essex Junction, Westford, and U46 school districts established a Farm to School Team in May of 2012.—They received a Farm to School planning grant from the Vermont Department—of Agriculture that started in February of 2013.—The Team is made up of 20 members from the schools, community, and a farmer from Waterville who is a regular vendor at the Five Corners Farmers Market.—The overall goals of the program at CCSU are to expand the amount and variety of local products in school meals, increase the opportunity—for students to learn about the nutritional, economic,—and environmental benefits of local products and healthy eating habits, and increase student understanding and appreciation of farming and food services.

Commented [MN11]: Has this occurred? Name it as a preferred site for net metering?

Commented [MN12]: Is this still ongoing?

Commented [MN13]: Needs to be updated to reflect the Essex Westford School District

Just as agriculture is important to the residents of the Village, so is community forestry.—The benefits of a healthy and robust community tree canopy are extensive.—The International Society of Arboriculture identifies, names—the following—(plusmany)

more) environmental, social, and economic benefits:

- Environmental—benefits include climate control by
 moderating the effects of sun, wind, and rain;
 improvement of air quality by removing carbon from
 the atmosphere and storing it in biomass and soils (aprocess called carbon sequestration);—conservation
 ofing water by intercepting waterand storing, storingsome of it, and reducing stormwater runoff and the
 possibility of flooding; and providing wildlife habitat
 and food.
- Social benefits include providing privacy, emphasizing views, or screening out objectionable

 – views.
- Economic benefits include energy cost savings_by_as trees can propositing evide shade in the summer (reducing_thereby lowering_summer_air conditioning billsuse) and protection from, and trees can protect-structures from wind in the winter (reducing heat loss)thereby lowering winter heat bills; increases in property values; and can help encourage

patronage to downtown retailers.

Helpful Resource:
The Vermont Urban &
Community Forestry Program
has developed—a-<u>Vermont Tree</u>
<u>Selection Guide</u> to help select
the appropriate tree based on
the purpose of the planting, site
conditions, type of maintenance

needed and best tree species for long term success.—The guide includes a tree selection worksheet and a tree list to help select the appropriate tree – there is a printed version as well as a searchable—online database that can be found here:

www.vtcommunitytrees.org.

wind thereby lowering winter heat bills; increase property values; and can help encourage patronage to downtown retailers.

Essex Junction received a 2013 Tree Steward Award from the Vermont Urban & Community Forestry Council for taking tremendous strides to improvinge the condition and quality of trees in the Village.—This includeds the completion of a tree inventory, passing a tree policy, and planting 22 trees in the Village Center—in a two year period prior to the award.—The award recognizeds the collaborative effort among multiple Village departments—and volunteers.—In addition, the Village Trustees established a Tree Advisory Committee in 2013 that works with the Village Tree Warden to promote the improvement and preservation of a healthy environment—as it relates to public trees. The committee provides a mechanism—for the planting, maintenance, protection, and removal of trees on public streets, parks, and Village-owned properties.

This Comprehensive Plan is required to meet the State planning goals established under Title 24 §4302(c).—These goals include "to encourage—and strengthen agricultural and forest industries."—It is clear that the Village is meeting this goal for their agriculture industry.—While, there is not much of a traditional forestry industry within the Village to encourage—and strengthen, the Village continues to encourage—awareness—and good forestry practices for its urban trees and community forest.

2.1 <u>Agriculture & Community- Forestry Goals</u>

Goal1: Continue to support the Whitcomb_Farm in their conservation_

efforts. Goal2: Support the Farmers Market and other local value-added

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agricultural

_businesses.

Objective 2.1: Ensure that any land use, transportation or capital plans for the Five Corners-accommodate the Farmers Market, unless an alternative site is established.

Objective 2.2: Work with Five Corners Farmers' Market to assist in finding a permanent winter-location.

Objective_2.13:-_Hold farm-to-table_community events to benefit local organizations.

	tinue support of the Community Garden Program, home gardening, and co-farming.
Objective 3.1:	Offer incentives for developments—that include community gardens and/or allow residents to have home gardens on common land.
Objective 3.2:	Strengthen-language in zoning regulations to protect topsoil during construction—so that yards are more suitable for gardening.
Objective 3.3:	Encourage_backyard composting or participation_in the compost program through the solid waste district.
Objective 3.4:	Develop a method to donate excess food from community gardens.
Objective 3.5:	Encourage the practice of edible landscaping.
Objective 3.6:	Inventory and designate additional public space for community gardens (including-roof tops and wall gardens).

Commented [SS14]: Isn't local composting going to be required soon?

Goal4: Establish a Tree Management-Plan to improve and maintain the community tree canopy within public parks and rights-of-way.

- Increase the Village tree canopy with thoughtful planning, planting and Objective 4.1: maintaining-of trees on public spaces or intruding into/onto public spaces.
- Objective 4.2: Educate residents on the value of the urban forest.
- Objective-_4.3: Establish a process for the Village Tree Advisory Committee to work with the Planning Commission to review and provide advice on development projects that include tree planting in public spaces.

3. Business/Economic- Development

Essex Junction continues to be a strong employment—center for <u>both</u> large and small, service—oriented, retail, and manufacturing—enterprises.—<u>As the host community for Global Foundries</u>(<u>formerly_IBM</u>).

-Microelectronics, the Village has a proven track record of developing business partnerships that last.—The following strengths combine to make Essex Junction a great place to locate and/or invest in a business:

The Village is strategically located within the region and has the infrastructure to support new businesses—and business expansion.—_The Village is a transportation hub, with close access to Interstate—89 and Vermont Routes 15, 2A, and 117, and Burlington International Airport. In addition, the Village is working towards the construction—of the Crescent Connector—a Circalternatives—project that wiwhich will help to mitigate traffic at Five Corners and open up areas of underutilized land in the designated Village Center to development.— The downtown transportation—terminal is a major stop for Amtrak and for Green Mountain Transit the—Chittenden—County

Transportation Authority: which provides county-wide public transportation.

- The Village has a variety of old and new, large and small business properties. The historic Village Center and Pearl Street commercial corridor have had multimillion dollar, federally funded restorations and redevelopment.
- In addition to IBM MicroelectronicsGlobal Foundries, the Village is home to the Center for Technology,—Essex, which is Vermont's largest secondary technical education facility and the Champlain Valley Exposition,—Vermont's largest indoor and outdoor exposition center.
- There are more than 200 small businesses—in Essex Junction.
- Agriculture is an important industry in Essex Junction as evidenced_by conservation of the Whitcomb Farm, the thriving Five Corners Farmers' Market, a waitlist for community garden plots, restaurant participation in the Vermont Fresh Network, and the Farm to School program._More information can be found in the Agriculture & Community Forestry chapter.
- The Village maintains an inventory of existing businesses—and available properties to help connect new or expanding—businesses—with local resources—and building space.—The inventory of businesses—can be found on the Village of Essex Junction website (http://www.essexjunction.org/business/list/).
- The Village has adequate sewer capacity for new development.
- The Village has a Commercial Tax Stabilization Policy intended to encourage economic development,—diversify the tax base, enhance the street scape and provide long-term growth in the Grand List and help maintain the vitality of the Village of Essex Junction's commercial business district.—Any for-profit or non-profit corporation, partnership,—cooperative, or proprietorship—that is existing, locating, or expanding in a commercial—zone in the Village of Essex Junction may be eligible for tax stabilization.
- Essex Junction has a State designated_Village Center District which provides tax credits for a
 variety of building repairs and improvements.
- A downtown revitalization—group has been formed Railroad Avenue Recess.—Village staff
 also works with the Essex Town Economic Development—Commission—to address Town
 wide economic development needs and services.
- The Village maintains a fair and balanced permitting process that supports local businesses and new investment.
- Numerous—housing units have been added to the Village downtown making Essex Junction a
 great place to live in close proximity to employment.
- Village residents live in comfortable,—friendly neighborhoods all within walking distance of the Village downtown.—The Village continues to increase the number of sidewalks and other facilities to support bike and pedestrian travel, making it easier for residents to visit downtown

Essex Junction Comprehensive Plan, 2014

businesses.

- The schools are consistently ranked among the best in the state.
- In addition to <u>Global Foundries IBM</u>, many Essex Junction residents are employed by Fletcher Allen Health Care, the University of Vermont, Saint Michael's College, General Dynamics,—and the State of Vermont.
- Heart & Soul participants identified the Local Economy as a community_value -the residents'
 value working at and patronizing the diversity of businesses in the community, and are committed to fostering an environment—that produces a world-class—workforce and a
 strong economy for years to come.
- In addition, the Village Center and the Pearl Street commercial—corridor have been designated
 as a Center Planning Area in the 2013 Chittenden County EGOS-ECOS Plan, which is
 intended to
 - be a regional center or traditional downtown that serves the County and beyond and contains a mix of jobs, housing, and community facilities.

Essex Junction <u>faces severaldoes face</u> business and economic—development related challenges.—
One important challenge—is ensuring the provision of adequate municipal—services while minimizing-tax increases. Also, Essex Junction's retail sector faces competition from growth in outlying surrounding communities,—as well as online retailers.—To this end, it is important to support existing business, <u>encourage new</u>encourage new light industrial and commercial development, and investigate additional sources of revenue.

While the location of Essex Junction at the confluence of three major highways,—Five Corners, is a strength of its economic—profile, managing the traffic associated from both local and regional commuters is also a challenge.—The ability to maintain and grow the economic base is balanced with the need to plan for commuter and local traffic, maintenance,—safety and law enforcement.—Other direct impacts are felt within residential neighborhoods as commuters use residential streets to avoid Five Corners.—The Village has been proactive at providing multiproviding multi-modal facilities in the downtown to provide alternatives to commuting via single occupancy—vehicles.—In addition, the Crescent Connector will help mitigate traffic at Five Corners.

3.1 Employment

As indicated on Table 5, there are a variety of businesses—within Essex Junction.—This variety is a significant factor in attracting people to the Junction and maintaining—the economic vitality of the area.

The largest private employers—in Essex Junction include Global FoundriesIBM, Flex-A-Seal,—ASK-int TAG; and niche businesses—include Champlain—Valley Expo, Harley Davidson and CVAA Age Well (the Area Agency on Aging for Addison, Chittenden,—Franklin, and Grand Isle Counties).—Information—about large employers—can be found in the Essex Town Plan along with specific information from the Essex Economic Development Vision and Plan, 2010.

While the number of employees—is not included in the Essex Junction Business

Table 5_ <u>Update</u> Businesses_by Category in Essex Junction as			
Business Classification	Estimated Total Businesses		
Auto Repair	12		
Bank	6		
Construction Services	4		
Fitness	4		
Government	4		
Industrial	6		
Medical	26		
Misc. Services	15		
Non-Profit	10		
Personal Services	19		
Professional—Services	31		
Restaurant	29		
Retail Store	52		
Total	218		

Source: Essex Junction Business List, dated 2/7/2014-information gathered from Zoning Permits and therefore not a complete inventory of the existing businesses.

List, the Essex Economic Development Commission—has access to the VT Business Magazine's Business Directory.—That is also not a complete dataset as the information is self-reported by businesses—that choose to provide the information, however that database does include full time employees if provided by the business.

Table 6
Employmentm ^Essex as Reported"mthe VTBusmess Magazme's 8usmess o₁rectory

	# of Businesses	# of Fulltime Employees
Essex (both Town and Village)	168	8,165
Village	67	5,440

Source: Essex Economic Development–Commission & the VT Business Magazine's Business Directory

Notes:

- 1. This is not a complete—census of the businesses, this is only data compiled from businesses who have chosen to provide the VTBusiness Magazine with their information.
- 2.16 out of the 67 Village businesses; and 27 out of the 101Town businesses in the Directory did not report the number of fulltime employees.
- 3. The fulltime employment numbers assume IBM-Global Foundries has 5,000 employees.

3.2 Income Characteristics & Labor Force

An important factor in the economic—health of any community—is the local household income level. The income level within any community—directly affects a community's—health in the following areas:

- Tax base to support the provision of needed community services such as streets, sewer and water facilities, libraries, etc.;
- 2) Type and cost of housing, particularly the availability of affordable housing;
- 3) Types and number_of businesses and services available; and
- 4) Ability to attract and maintain a solid commercial and industrial economic base.

Table 7 compares financial characteristics—of Essex Junction residents to those of the county.—The Median Income in Essex Junction is higher than Chittenden County, indicating the relative prosperity of Essex Junction and the surrounding communities.

Table 7
Financial Characteristics, 2007-2011

i ilianciai Characteristics, 2007-2011				
		Town of Essex	Chittenden	
	Essex Junction	(w/o Village)	County	
Median Household Income	<u>\$63,948</u>	\$73,855	<u>\$66,906</u>	
Per Capita Income	\$35,942	\$34,30 <mark>7</mark>	<u>\$36,384</u>	

Source:— U.S. Census,— American Community Survey 2007-20112013-2017 ADD MOE

The 2012-2017 total Labor Force-the population, aged 16 and over, which is employed or unemployed, including those in active military duty- for the Town of Essex is estimated at 11,99012.504.—The 2012-2017 annual unemployment rate for the Town of Essex (Essex Junction data is not available) was 32.27%- slightly lower than the County's—rate of 4.02.3%, and the State's rate of 35.0% (Source: Annual Unemployment Rate, Not Seasonally Adjusted from the Local Area Unemployment—Statistics program produced by the VT Department—of Labor, Economic & Labor Market Information).—While Vermont still holds one of the lowest unemployment rates in the country, we are vulnerable—to a lack

of market diversification- as seen by the challenges faced when <u>Global Foundries-IBM</u>-has layoffs.—This further supports the goals of this plan to support, grow, and diversify Essex Junction's local economy.

3.3 Village Center and Park Street Areas

The Village Center and Park Street area is the community's—traditional business center and home to numerous—Jocal businesses—and retail shops.—The Village is striving to capitalize on this business center, and encourage—development—that will enhance the environment.—Specifically, the Village is encouraging the development of market rate residential development,—encouraging the diversification of the mix of non-residential land use, attracting new business, marketing vacant retail properties,

and working to redevelop underutilized_properties.—_The creation of the Crescent Connector is an example of this vision, as it will revitalize underused_property and enhance the Village environment. The continuing_viability of the Village Center as a community focal point is an important consideration in this Plan.

Public improvement projects have been a central focus of the economic development—efforts in the Village Center over the past five years.—The planned development of the Crescent Connector is the largest of these projects; however there have also been numerous—smaller projects, such as the construction—of additional sidewalk on Lincoln Street and the proposed—development—of a multi-use path along the rail tracks.—The Village has continued to use the gas lamp style lighting to maintain a consistent feel to the Village Center.—Another 1.5 million dollar streetscape project was completed in 2008, which included new mast arms and traffic signals at the Five Corners, pedestrian lighting, onstreet parking, sidewalks_ and landscaping.—Plans to widen Pearl Street to accommodate—cyclists and the potential to pedestrianize—a short section of Main Street will stimulate economic activity while accommodating more efficient vehicle movements.

3.4 Pearl Street Business

The Pearl Street business corridor is an important part of Essex Junction's business and retail sector. There are significant differences in the types of businesses—located at the Village Center and those along Pearl Street.—The Pearl Street corridor contains a variety of local retail and service oriented businesses, including two shopping centers, the Champlain—Valley Exposition (CVE), fast food restaurants,—numerous—other businesses and residential uses.—New higher density housing has been introduced—which will help sustain the adjacent local businesses.

Reports reveal that Essex Junction businesses serve primarily the local market and are facing competition from recent retail and office developments—in surrounding—communities.—_.The Village plans for an economic—strategy that capitalizes—on the economic impact of CVE fair and non-fair related events, and works with property owners to develop underutilized sites for residential and mixed-use—_development.

In 20052005, the Village worked with the CVE and Saratoga Associates—on the Pearl Street Enhancement Plan.—The major focus of the plan included upgrades to the Pearl Street frontage of the CVE and recommended zoning changes to improve and promote higher density mixed-use—development and improved—design standards.—The CVE frontage was upgraded in 2011.

3.5 Champlain Valley Exposition Fairgrounds

CVE is a major <u>year roundyear-round</u> events venue.—__CVE is strategically located close to the Village Center and on a main road, <u>which createscreating</u> opportunities for local business to capitalize on the influx of people to the Village for CVE events.—Public Village representatives

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should participate in the

planning of any changes to the present use, or to the present master plan, as this will affect both the surrounding_residents and the entrance into Essex Junction.—Any new Master Plan or changes to the existing Master Plan should emphasize mixed_-use with a base of light industry and commercial uses. In addition, the Village should carefully consider and encourage businesses that support the events

at CVE such as hotels and restaurants.

3.6 Global Foundries (formerly IBM)

Essex Junction has-maintained—a strong employment—base since IBM located within the Village in in 1957.—In 2014, IBM paid Global Foundries to take over the site. IBM Global Foundries is Vermont's—second largest private employer and has a major economic—impact on the local, regional, and state economies.—While IBM-Global Foundries has decreased in size, they remain the employment "anchor" in Essex Junction, as well as within the surrounding—communities.—The demand for commercial and professional—services is largely the result of IBMGlobal Foundries.

Prior to Global Foundries acquiring IBM, the site was renamed the Champlain Valley Technology and Innovation Park (Innovation Park) and is In recent years the IBM site has become a Technology Parkwhich is attracting smaller businesses to the site.—A joint Village and IBM initiative is developing—300,000 square feet of Light Industrial space on Maple Street which will attract more employers.—Diversification—on this site will help the Village, Region and State be prepared if there are any additional significant changes at IBM-Innovation Park in the future.—As one of the State's top employers it would be beneficial to have a plan in place for potential changes (either expansion or contraction) at IBMInnovation Park.—Present uncertainties regarding the growth of IBM's—Global Foundries local site require intensification—of such efforts.—The results of this planning should be included in the next update of the Village's Plan and the County's Comprehensive Economic Development Strategy, with involvement—of Essex Junction.—The Village should support development—and infrastructure policies and investments that meet the needs of IBM-Global Foundries or their successors,—but also minimize impacts on the local residents.

3.7 Implementation Strategies from the Town's Economic Development and Vision Plan

The Village Planning Commission endorses the implementation strategies and should engage in policies to make progress on the strategies as opportunity arises.—The Village is particularly interested in maximizing—success in the transit specific strategies as identified in #4 (regional multimodal improvements), #10 (freight rail service expansion),—and #12 (transit oriented development). The following is excerpted from the Town's Town Plan: The Essex Selectboard asked the Economic Development—Committee (EDC) to prioritize the 13 implementation—strategies that were identified in the Economic Development and Vision Plan: Essex, Vermont prepared by BBP and Associates. Many of the strategy recommendations are resource expansive and intertwined,—and as a result, were prioritized by the EDC with the goal of maximizing the potential effectiveness—of strategies within the human and fiscal resources—available. The following list shows the strategies ranked in priority order, from highest to lowest, as summarized—and/or amended by the EDC:

1. Major Roadway Improvements-The Town is encouraged—to engage actively in infrastructure improvement projects, such as completion of the Circ Highway, VT Route 15 corridor improvements, and VT Route 117 improvements,—along with the Crescent Connector, (in the Village).

2. Strategic Industrial Park Evaluation-The evaluation, with regards to the Town's two industrial parks, should enable a better understanding—of what is working, what is not, and what is next.

3. Government Service Retention and Expansion—The focus would be on the retention of current government—services and the attraction and expansion—of Federal and State government—services, along with the development and submittal of projects that may not be feasible without appropriations from other governmental sources.

4. Regional Multi-Modal Improvements – Multi-modal—projects can improve both the economic climate and the quality of life in Essex, with a focus on local projects.

- 5. **Marketing Program** -A marketing program should define an Essex brand, modes to present that brand, and identify niches the Town seeks to occupy (such as outdoor recreation, "green businesses," food commerce,—and technology).
- 6. <u>Champlain Valley Technology and Innovation ParkIBM Site Initiative</u>- Communications should be established—and maintained with <u>IBM—the businesses here</u> that better_ enable local <u>government and the community</u> to understand—site opportunities—and
- enable local government_andgovernment and the community to understand—site opportunities—and future plans and challenges.
- 7. **Infill Development-** Infill should be facilitated where appropriate,—with care taken to preserve the character of neighborhoods—and surrounding areas.

 8. **Business Visit/Assistance Team**—A pilot program should be established to test the value of
- reaching—out to existing Town businesses—on a regular basis.
- 9. **Business Development Data Center-**Collecting and updating data on business status and infrastructure—is resource intensive, with the costs outweighing—potential benefits.
- 10. **Freight Rail Service Expansion-** Further investments—in freight rail infrastructure—can have a positive effect the Town"s ability to attract business, as well as providing opportunities—for expanded passenger—rail access and service.
- 11. **Local Education Resource Promotion** Promoting the high caliber local school system should be incorporated into a marketing program.
- 12. **Transit-Oriented Development (TOO)-** The Town should remain vigilant in its search for TODO opportunities—and flexible in its response.
- 13. **Green Entrepreneurial Center-** A low priority, given the estimated price (\$5.3 million) to build a green incubator space.

The EDC believes housing, particularly_affordable housing, is a critical component of an economic development strategy, though it was not included in or attached to any of the 13 implementation strategies.

3.8 Business/Economic Development Goals

Goal 1: Assist and work with existing businesses to stay and expand within Essex Junction.— Assist and work with new businesses to invest in Essex Junction.

Objective 1.1: Maintain—a favorable business climate in E	Essex Junction.
-----------------------------------------------------------	-----------------

- Objective 1.2: Encourage the development—of a diverse array of residential units in the Village Center and Pearl St. Districts.
- Objective_1.3: Consider_performing_market studies or other effort to identify and attract businesses to the Village_to_enhance_Village_life.
- Objective 1.4: Work with officials at IBMGlobal Foundries, as well as the other businesses located at the IBMInnovation Park
- Objective- 1.5 campus, to meet their future development needs.
- Objective 1.6: Develop a plan for diversifying the IBM-Innovation Park
- Objective 1.7: property. Encourage opportunities—for bandwidth

improvements.

Support efforts to create a culture and environment_that encourages

Objective 1.8: entrepreneurs and their start-ups (i.e. co-working spaces, technology training,

maker & hacker spaces).

Work with Essex Economic Development Committee to help identify underutilized structures in the Village and assist in matching the landowners with business—prospects.

Goal2: To increase the Village's relationship with the local business community-

Objective_2.1:

Look for strategic opportunities—to work with business and property owners on economic—development.

Objective 2.2: Work closely with regional businesses through active membership in such organizations—as the Greater Burlington Industrial Corporation.

Objective 2.3: Encourage—Village membership—on key and regional committees involved with business expansion—and economic development.—Continue to work with the Essex Economic Development Commission, and the Chittenden—County—Regional—Planning—Commission—CCRPC.

Objective 2.4: Promote the Village as a destination for shopping,—services, and tourism.

Provide mechanisms for increased communication between the business community—and Village Officials.

on the implementation strategies from the Economic Development—and Vision Plan: Essex.

To provide mechanisms for efficient and timely review of development

Continue work with the Town and Essex Economic-_Development-_Commission

Objective 3.1: While maintaining-environmental-standards, ensure that the local codes do

not inhibi<u>t</u>/Uprohibit local development.

Objective_3.2: Provide application_checklist of all requirements_for each stage of review.

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Goal4: To preserve and enhance the appearance and historical character of the Village of Essex Junction.

Objective 4.1: Maintain Design Review in the Village Center.

Objective 4.2: Design publicly financed improvements—to preserve the character of the Village Center.

Objective 4.3: Establish local historic districts or other mechanisms to preserve existing residential structures of significant historic village character along major arterials and in historic neighborhoods.

Objective 4.4: Create a list of noted historic sites and buildings to supplement Map 2. Continue streetscape—and landscaping efforts to attract private sector

investment.

Objective-2.6:

applications.

Goal3:

4.—Open Space- Recreation, & Natural Resources, and Reseiliency

Open Space bolsters local economies, preserves significant natural resources, provides recreational opportunities, and guides growth into appropriate areas. Through the Heart & Soul project residents put great value in their public places for outdoor and indoor recreation for all ages and abilities. Residents treasure Indian Brook reservoir, neighborhood parks, and the chance to connect by bicycle or on foot. This chapter describes the protection and management of these valued open spaces as follows: local parks, schools, and recreational facilities that provide extensive active recreational opportunities; urban amenities such as sidewalks and plazas; and natural environmental resources.

This chapter also includes a section on flood hazards and flood emergency preparedness and resiliency.natural hazards resiliency.

4.1 Local Parks, Schools, and Recreational Facilities

The provision of parks and open space for active and passive recreation is an essential and treasured urban function.—The 2007 Essex Junction Recreation and Park Master Plan identified all park lands within the Village and determined that there is sufficient parkland to serve Essex Junction's residents.—The plan also noted significant natural areas in close proximity to the Village including the Indian Brook Reservoir in the Town of Essex.

Within Essex Junction, the management of the parks, recreation programs, <u>and facilities and facilities</u> are the responsibility—of the school system under the direction of the Prudential Committee.—These include the management of all three of Essex Junction's—formal parks along with all of the school properties that contain the majority of active recreation facilities within the village.—A full-time Recreation Director administers the program.—A Recreation—and Park Master Plan for 2007-2016—sets the vision, goals, and implementation of future recreation projects and park maintenance.

Essex Junctions existing parks and open space include the following (See Map 3):

- A.—Stevens' Park:—8.2--acre neighborhood park designed for passive, nature oriented activities. Designed—walking/jogging trail system (also used by bikers).— Low-level activity area with established—play equipment.
- **B.__Cascade Park:**—_10-acre neighborhood park designed for active recreation use.—_Youth baseball field; three (3) tennis courts; one (1) basketball court; one (1) mini-basketball__court; one (1) established__play equipment__area; one (1) picnic pavilion; parking lot for 18 vehicles.
- C.—Maple St. Park: 38_-acre Community—Park, designed for active recreation use.—Facilities include one (1) lighted baseball field, two (2) lighted tennis courts; one (1) lighted basketball court; three (3) picnic pavilions; two (2) outdoor swimming pools with bath house;; two (2) multi-purpose—fields; two (2) Little League baseball fields; a trail system; one (1) skatepark; one (1) bikepark;—low level playground activity with established play equipment; parking lot for 128 vehicles.
- D.—Essex Community Educational Center:—93_-acre site housing high school complex. Outdoor facilities include: multi-use stadium; all weather running track; one (1) baseball diamond;—one (1) football field; four (4) lighted tennis courts; 400_-meter track; parking lot for 370 vehicles.

- E.—Albert D. Lawton Intermediate School: 33.5_-acre site housing middle school building.

 Outdoor facilities include:—One (1) baseball field, one (1) soft ball field, four (4) multi-purpose field areas, parking lot for 110 vehicles.
- **F.__Fleming School:__**5.44__acre site that houses elementary_school complex.__Outdoor facilities include: one (1) basketball court; high intensity playground area; one (1) youth baseball field, multi-purpose play area; parking lot for 301 vehicles.
- G.—Hiawatha School:— 15.65_-acre site that houses elementary—school complex.— Outdoor facilities include: one (1) youth baseball field; two (2) multi-purpose—fields; low level playground—activity area.
- H.—_Summit Street School: 3.7_-acre site that houses elementary school complex.— Outdoors facilities include: high intensity playground—area; large open space area.
- Park Street School: __1.29_-acre site that houses alternative school building. __ Outdoors facilities include: low-level playground—activity area.
- J.__ "Parizo Farm" Property:—_7.73 acres owned by the Essex Junction School District adjacent to the Hiawatha School.
- K.-_Fairview Farms:-_ 10 acres owned by the village; currently natural area open space
- L.—Whitcomb Heights:—9 acres designated natural area open space.
- M.__State Property at 111 West Street:__30 acres of open green space, including 98 community garden plots and the Essex Dog Park, both managed by Essex Junction Recreation & Parks.
- **N.**—**Tree Farm Recreational Facility:**—99.1 acres of green space including 13+ soccer fields which are home to a variety of soccer tournaments—and the space is available to community members for dog walking, kite flying, and bike riding.
- **0. Meadow Terrace Community_Gardens:**—24 organic community garden plots administered through Essex Junction Recreation—& Parks.
- P.—Other Available sites:—There are several facilities owned by other agencies which provide recreation opportunities to Village Residents:
 - 1.- Indian Brook Park: 577 acres, Town of Essex-Natural Park. Outdoor activities
 - 2.- Winooski Valley Overlook-Park: 4 acres, Winooski Valley Park District-Natural area
 - 3. Sixty-eight Acre Park: 58 acres, Town of Essex-natural area.
 - 4 Pearl Street Park: 14 Acres, Town of Essex-Active, athletic Park
 - 5. Champlain Valley Exposition Fairgrounds: North of Pearl Street

At Essex Junction Recreation & Parks (EJRP), significant improvements—have taken place over the past several years to accomplish master plan goals and meet community needs.—A Head of Grounds and Facilities Maintenance was hired to oversee the maintenance—and operations of the parks and facilities, a maintenance—plan is in place for the athletic fields and playgrounds,—several fields at Maple Street park have been irrigated, a court resurfacing—schedule has been established,—there is new signage at each of the three Village parks, a Bike/Walk Advisory Committee was established—by the Village Trustees, the skate park at Maple Street Park was constructed, the Essex Dog Park was

built at 111 West Street, the Bike Park at Maple Street Park was , 32constructed, 32 new garden plots were added at the Community Gardens at 111 West Street.

The only pieces of the recreation master plan related to facilities that are not yet implemented include building two sand volleyball courts at Maple Street Park, and further investigating the need for more indoor recreation space, including an indoor swimming pool.—Sand volleyball courts are currently in the FY17 capital plan, though Maple Street Park has some space constraints as much of the property is already used.—The Recreation—Advisory Council is beginning—discussions—this year about future space needs.—In addition, the Summit Street Natural Playground—Group is working to change the traditional playground into a "natural playground"—as a community resource.

In 2009, the vote for a previously established—one cent (\$.01) tax on the municipal grand list to support the Recreation and Parks Capital Replacement—Reserve Fund failed.—In a subsequent—vote.

\$75K was approved by tax payers to support the fund.—Since 2009, the annual vote continues to be on the question of \$75K and has been approved.—The difference between the one cent (\$.01) on the grand list vs. the \$75K results in \$25K less investment each year.—With increasing demands on programs, parks, and facilities, more capital funding will be required to maintain and enhance parks and facilities, especially—as the building and pools both age.

4.2 Other Urban Amenities

Essex Junction also puts great value in its downtown public streetscape,—comprehensive sidewalk network, off-road bike-paths, and several quiet residential neighborhoods where biking and walking are a common form of recreation.— Heart & Soul participants identified these resources as vital to Health, Safety, Thoughtful Growth, and Community Connections.

Essex Junction has invested significant resources towards the revitalization—of its historic downtown in the Five Corners over the last five years.—A major piece of that effort has been public streetscape and open space improvements.—A thriving—Farmers—Market has been accommodated—on Lincoln—Place.—The annual Village Block Party has been a huge success, but requires the closing of Railroad Avenue.—Noticeably absent in the downtown is a village green, a symbol of the New England Village. The development of a green in the Village Center would require demolition and redevelopment.

The Transit Oriented Development Zoning District along Pearl Street encourages the provision of passive outdoor spaces such as a plaza or green in redevelopment projects.

Sidewalks and urban street trees are critical components—of open space in an urban area.—They help to connect residents with the larger open spaces, and help to create a walkable, vibrant downtown.

In the more urban areas of the Village, such as the Village Center and Transit Oriented Development District, wider sidewalks—will be required on new streets along with benches and pedestrian amenities.—The Village has widened sidewalks—as part of the Main Street and Railroad Avenue Streetscape—Projects, and Park Street as part of the Essex Junction Redevelopment Project.

Bike paths are also critical components—of urban open space.—The Bike/Walk Committee is working to map all routes and linkages in the village and identify gaps, and is working on developing—this into a future bike and pedestrian official map.—The Committee has also developed a list for use in review of development projects.—In addition the particular type of connection should be flexible as the best solutions are site—specific.

Paths that are currently being considered include:

a dedicated multi-use path from Essex Junction to Richmon	Essex Junction Comprehensive Plan, 2014
44	

- pedestrian_link connecting the state property on West Street to Pearl Street by Harley Davison Motorcycles;
- changes to Park Street due to the Cerescent Ceonnector—road—which will include a pedestrian sidewalk, bike lane, and allow travel from Park Street to Route 15 even when the chip train is traveling through the village; (construction may be complete by summer 20/15);
- path through CVE property connecting Route 2A to Route 15;
- path connection to the tree farm off Old Colchester Road from Autumn Pond apartments and the high school. There will be a complete loop around the tree farm and the developer of Autumn Pond will maintain the path connection; and
- encourage_links with surrounding_communities.

In addition, the Village tree planting program to replenish and maintain trees in the Village right-of-way is an essential component_of the urban open space infrastructure.—This work of the Village Tree Advisory Committee—is discussed further in the Agriculture & Forestry chapter.

4.3 Natural Environmental Resources

The natural resources base within, and adjacent to a community, are important factors to consider for several reasons.— First, they may limit, or direct the type of development which will occur.—Second, they contribute to the quality of life within the community.—Third, they provide opportunities to preserve important environmental areas.—Finally, they provide important recreational opportunities for residents.—The safe, attractive and efficient utilization of land is largely dependent upon these important natural resources.—These resources all contribute to the identity of the Village as a desirable place to live and work.—Residents value these resources as reflected in the Heart and Soul values, particularly Health & Recreation and Thoughtful Growth.

Map 1_ and Map 11 identify_ies_several important natural resources within the Village, briefly described below. Protection of these resources are listed here and in several other chapters throughout the Plan.

Watersheds and Rivers – It is useful to start a natural resources discussion- with watersheds, as an integrated watershed approach to the protection of land and water resources -is key to ensuring fresh, clean water, habitats- and healthy natural resources.— There are two basin level watersheds in Essex Junction -the Winooski River, and direct discharges to Lake Champlain—(Indian Brook-discharges

in Malletus Bay).—The two waterways passing through the Village-Indian Brook and Sunderland Brook - feed these larger basins.—These rivers serve as habitat for fish and wildlife, as natural flood control features, and as an attractive scenic feature environment in which to live.—Erosion control and stormwater management are important measures to restore and protect these resources.—The Utility section of this plan describes the measures that the Village is taking on this front.—In addition, the Vermont Department of Environmental Conservation's Winooski's River and Northern Lake Champlain Direct Tactical Basin Plans provide more detailed information on the health of these watersheds as well as strategies to protect high quality water and to improve degraded water resources. The following discussion on Flood Plain and Fluvial Erosion Hazard Areas River Corridors contain further details on the mechanisms to protect river systems—and property/infrastructure from flooding and erosion.

Floodp-Plains-Floodplains are those areas that are under water during periods of high flow.—For regulatory purposes the floodplain consists of the Special Flood Hazard Area and the Floodway – as identified by the Federal Emergency Management Administration -(FEMA).—The Special Flood Hazard Area, depicted on Map 11, is the area subject to a 1% or greater chance of flooding in any given year. Thus, while on average such lands flood once every 100 years, floods can and do occur more frequently.—The Floodway means the channel of a river or other watercourse and the adjacent land

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Commented [DA18R17]: The land area covered by the floodwaters of the base flood is the Special Flood Hazard Area (SFHA) on NFIP maps. The SFHA is the area where the National Flood Insurance Program's (NFIP's) floodplain management regulations must be enforced and the area where the mandatory purchase of flood insurance applies. The SFHA includes Zones A, AO, AH, A1-30, AE, A99, AR, AR/A1-30, AR/AE, AR/AO, AR/AH, AR/A, VO, V1-30, VE, and V.

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 ${\it Essex Junction \ Comprehensive \ Plan, 2014}$ areas that must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than one foot at any point.—The floodway is the area where the fastest moving and most destructive floodwaters-will flow during the 100 year flood.-Thus, while all land within the floodplain will be wet during a 100 year flood, the most damage to property and loss of life will occur in the floodway.

Essex Junction Comprehensive Plan, 2014

Essex Junction protects its flood-plain through flood hazard zoning regulations which limits the amount of damage by limiting the amount of development and fill in flood-plains.—These development regulations—also present opportunities—to maintain natural open spaces and develop needed recreation facilities.—The largest designated Flood-Plainfloodplain lies adjacent to the Winooski River.—The second area is located in the northern section,—along Indian Brook, from the northeast corner of the Fairgrounds—across Lincoln and Main Streets to the easterly boundary of the Countryside—subdivision.

River Corridors are areas where a river or stream
naturally moves to establish equilibrium, plus adjacent
land to provide "wiggle room" for the river's
movement. River Corridors are a relatively new term,
and protection of these areas is not required by the
State, but it is strongly encouraged and incentivized
through the State's Emergency Relief Assistance Fund
(ERAF); and ANR regulates development in these areas

Reduced bank erosion with room for plants

River corridor

that go to Act 250.

When Federal Disasters are declared disasters happen, towns may receive assistance money from the ERAF to help cover the 25% of damage repair costs not covered by FEMA. Towns that protect river corridors (and meet the other four ERAF requirements) will be responsible for a lower share of the match requirement for these

funds. Essex Junction currently has an "interim" eligibility (aka "early adopter") because they protect streams and rivers through setback requirements. However, in the future the ERAF rules are anticipated to smay change and will likely require municipalities to regulate development in these areas in order toto receive the best ERAF match in accordance with this regulatory framework:

i. Adopt a River Corridor overlay for all streams and rivers draining greater than two square miles.

ii. Adopt a river corridor setback for small streams as part of their flood hazard/river corridor bylaws. The setback must be a minimum of 50' from top of bank for streams with a watershed area between 0.5 and 2 square miles3. The setback shall be regulated as the River Corridor for streams draining between 0.5 and 2 square miles.

iii. Adopt a minimum regulatory requirement for River Corridors that are at least as restrictive as those outlined in the ANR Model River Corridor bylaws in effect at the time of adoption.

While Essex Junction currently has regulations for the flood hazard area, it does not have regulations to protect the River Corridor. For the health of the river systems, protection of property and maintaining the best ERAF match in the future, the Village should review the CCRPC online river corridor map to understand the location of the river corridor boundary; work with the state to make sure it is accurate; and develop land use regulations to protect these areas.

Fluvial Erosion Hazard Areas<u>River Corridor</u>

The River corridor encompasses an area around and adiacent to the present river or stream channel where fluvial erosion, channel evolution and down-valley meander migrationare most likely to occur. While some flood losses are caused by inundation (i.e. watersrise, fill, and damage low-lying structures), most

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flood losses in Vermont are caused by "fluvialerosion". Fluvial erosion is caused by rivers and streams, and can range_ from gradual stream bank erosion to catastrophic channel enlargement, bankenlargement, bank failure, and change in course, due to naturally occurring stream channel adjustments. The areas most subject to this type of erosion are identified as the river corridor. The river corridor depicted on Map-11 has been identified and mapped in accordance with 10 V.S.A. §1422 and has been delineated by the Agency of Natural Resources in accordance with the ANR Flood Hazard Area and River Corridor Protection Procedures. River corridors have been delineated for the Winooski River and the Indian Brook. accepted state fluvial geomorphic assessment and mapping protocols. These are depicted on Map 1.

A FEH area includes the stream and the land adjacent to the stream. It identifies the area where stream processes can occur to enable the river to re establish and maintain stable conditions over time. The area boundaries also attempt to capture the lands most vulnerable to fluvial erosion in the near term, as well as the area needed by a river to maintain equilibrium. The map also provides a valuable insight into the location and nature of fluvial erosion hazards,

new development, all of the fluvial erosion areas should be monitored to see how best to-accommodate fluvial equilibrium and natural erosion processes while minimizing undue damage to-property.

Wildlife Habitat, Forest Blocks & Natural Resources: Considering Essex Junction is a growth area, this plan calls for promotion of vegetative landscaping in new development projects and municipal improvement projects to manage storm water, protect water quality and air quality, increase carbon sequestration, and establish urban place making and wildlife habitat. Secondarily this plan calls for protection of forest blocks, wildlife connectivity resources and crossings, surface waters, riparian areas, and other significant habitats (e.g. wetlands) from development and fragmentation along the undeveloped parts of the Winooski River and the Indian Brook. These resources are further described below.

Wetlands -The development on or near wetlands is strictly regulated.—In addition, wetlands provide a natural habitat for animals and preserve natural areas (described—in more detail in the following section).—They also serve important ecological functions including storm water runoff purification and ground—water recharge.—The wetland areas identified by the Vermont Significant Wetlands Inventory are indicated on Map 11.—It should be noted that there may be additional wetlands that are not currently mapped.

Significant Wildlife Habitat and Forest Integrity-Just as the southern portion of

Essex is described in the *Essex Open Space Plan 2008* and the 2011 Essex Town Plan, the Essex Junction landscape is mostly a developed—urban core which, for wildlife, presents highly fragmented—and isolated backyard,—woodlot, wetland, and streamside—environments marked by a strong human presence. This type of habitat is home to wildlife species that can live where roads, houses, industry, <u>and</u> people and their pets can be found.—Habitats of <u>particular significancesignificance</u>,—and-mapped on Map

1, include contiguous habitats and priority forest area.

The Essex Open Space Plan 2008 identifies a portion of the Winooski River riparian area in both Essex and Essex Village as a Contiguous Habitat Unit- defined as a larger, relatively continuous wildlife habitat area that has been defined and mapped based on the presence of wetlands and riparian habitat.—This area is also considered toidentified on Map 1 as being a high priority for its be a contribution to the regional network of lands and waters that provide flood protection, scenery, water quality, climate change mitigation, and biological diversity. Natural Community, defined below. The particular significance of this area is described in the sidebar-especially—the intact floodplain forest in the Winooski Valley Park District's Woodside Natural Area.

Forested Areas Integrity – Much of the land that was forested has been developed within the Village.—The State of Vermont abandoned its tree nursery operation on Old Colchester—Road and has sold the property to the Village and Town for recreational—use.—Other heavily forested

areas are located on_
the Whitcomb Farm.—
Maintaining the forested
areas on the Whitcomb Farm
along the Winooski River is
particularly critical for wildlife
habitat and flood protection.

Vermont's Act 171 calls for the protection of "forest blocks". The Agency of Natural Resources'(ANR) Vermont Conservation Design (VCD) project has completed a statewide assessment which ranks areas of the Village according to ecological function and has ranked them from high priority to priority. Some of these areas are in developed neighborhoods of the Village. As mentioned above, Essex and Essex Junction's 2008 Open Space Plan included community inventories of important natural resources, including contiguous habitat units. Essex Junction will continue to protect these resources as studied and

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mapped, rather than using the general statewide dataset. Therefore, the community will work to ascertain local choices for protecting the functional forest network identified in the VCD project to support species and connect habitats. statewide assessment which ranks areas of the Village according to ecological function and has ranked them from high priority to priority. Some of these areas are in developed neighborhoods of the Village. As mentioned above, Essex and Essex Junction's 2008 Open Space Plan included community inventories of important natural resources, including contiguous habitat units. Essex Junction will continue to protect these resources as studied and mapped, rather than using the general statewide dataset. Therefore, the community will work to ascertain local choices for protecting the functional forest network identified in the VCD project to support species and connect habitats.

Natural Communities
 Landscape Scale
 Components are identified at a larger scale than species specific habitats, and they consist of an

interacting assemblage_of plants and animals, their physical environment, and the natural processes_that affect them.—These communities are assigned a state rank that describes the rarity of the community type in Vermont.—The rank of the communities found in Essex Junction can be found on Map 1 and the State's BioFinder at biofinder.vt.gov/. These communities include wetlands, surface waters and riparian areas, and particular-typestypes of upland communities

• Rare, Threatened & Endangered Species – Species and Community Scale-A rare species only has a few populations left in Vermont and faces threats from development of their habitat, harassment, collection, and suppression—of natural processes—(such as fire).—The VT Fish and Wildlife Department uses a ranking scheme to describe—rarity in Vermont (S1 is very rare, and S5 is common and widespread)—-this information—can be found on the State's BioFinder.—Endangered and Threatened species are generally described as "species whose continued existence as a viable component—of the state's wild fauna or flora is in jeopardy" and are protected by State and Federal law (Conserving Vermont's—Natural Heritage, Vermont Fish and Wildlife Department and Agency of Natural Resources).

As Map 1 shows, there are a <u>number of several</u> these habitat locations – most, but not all, are associated with the Winooski River, Indian Brook, Sunderland–Brook and the tributaries that feed them.– Efforts to protect these habitats and species are critical to protecting and preserving– Vermont's heritage and d

can include conservation, restoration,—and management plans.—In summary, Significant Wildlife Habitat includes those natural features that contribute to the survival and/or reproduction of the native wildlife of Essex Junction.—These areas include, but are not limited to: contiguous habitat units; habitat units; habitat units; habitat for rare, threatened, and endangered—species (state or federally listed); riparian areas and

surface waters; and wetlands.

Scenic Views - Although there are many outstanding—view sheds within the Village, three areas have been particularly—identified.—First, in the northeasterly—section of the Village, between Upper Main Street and the Countryside—development,—is the highest point within the Village.—Spectacular views of Mount Mansfield and the Adirondack—Mountains are visible from this location.—Second, the river crossing on Park Street provides views of the Winooski River and serves as a scenic entrance to the Village.—Third, along the westerly end of Pearl Street there are spectacular—views of the Winooski River Valley.

Agricultural Areas – The Village is fortunate to have one active farm still in existence.—The Whitcomb Farm is in the southwest sector of the Village has been actively farmed by the Whitcombs since 1879.—The Vermont Land Trust, with funding assistance from the Village, purchased development rights on 271 acres of the Whitcomb Farm in March 2014.—Additional development rights are planned for purchase—on approximately—143 acres, pending funding in 2015——See the Agriculture—chapter for more details.

Prime-Ag Soils - Soil classifications—are another important natural characteristic—within the Village, particularly—as they pertain to prime-ag soils, whose development—potential may be limited, or mitigation required,—by the State of Vermont under Act 250.—The prime-ag soils in the Village are identified on Map 1.

Sand & Gravel -There are no sand and gravel operations or resources_in the Village.

Thrust Faults-_As noted in the 2011 Essex Town Plan there are two thrust faults running southeast to northwest through the southwest quadrant__of the Town (and therefore in the Village).—These are described in the 2011 Essex Town Plan as follows: "There is no recorded mention of movement along these faults so seismic danger is minimal.—Below the fault, however, is a deep layer of very porous carbonate which allows ready movement_of water and facilitates the aquifer recharge process.—At present, this porous layer of carbonate is protected by the upper impervious plate and/or a substantial layer of surficial material."—Analysis of these areas should be considered in order toto determine how properties along the thrust faults should be managed.

4.4 Other Natural Resource Considerations

Air Quality- Outdoor air pollution in significant concentrations—can raise aesthetic and nuisance issues such as impairment—of scenic visibility; unpleasant—smoke or odors; and can also pose human health problems,—especially for more sensitive populations like children, asthma sufferers, and the elderly.—While Chittenden County's air quality meets current National Ambient Air Quality Standards (NAAQS),—we are close to the limits for ground-level—ozone and fine particulates.— We are also subject to pollution from the mid-west that we cannot control.—If the NAAQS are revised to be more stringent—

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- or air pollutant levels increase - so that we exceed the NMQS, additional and costly environmental regulations will apply to our region (Source: 2013 Chittenden-County EGOS-ECOS Plan and http://www.anr.state.vt.us/air/).

Climate Change- Temperature—and precipitation records for the latter half of the 20eth century show that Chittenden County's climate has changed:—winters became—are warmer and summers became—are hotter.—Lake Champlain freezes—over later and less frequently—and the growing season lasts longer. While it is unknown exactly how future climate trends will specifically affect Chittenden County, precipitation—throughout the northeast is projected to increase as much as 10 percent over the century.—Climate model forecasts for the Northeast US predict that during this century temperatures

will continue to increase,—as will extreme heat days and heat waves.—Scientists overwhelmingly agree that changes in climate worldwide—are a result of human activities, mainly the burning of fossil fuels. Current and predicted changes in climate will have broad implications for environmental quality, natural communities,—public health, built environment,—and local economy.—The regional greenhouse-gasghg emissions inventory determined—that 1,193,000 metric tons of carbon dioxide—equivalentsCO2e were generated in Chittenden County in 2010.—This amount is approximately 16% of the state's 2011 greenhouse-gasghg emissions.—Transportation—accounts for 48% of county emissions;—heating fuels account for 38%.

Climate change mitigation and adaptation measures—are varied and include many strategies the Village is already undertaking—for other reasons—for example,—the Village's efforts to increase sidewalks—and bikepaths bike paths will provide residents with an alternative mode of transportation—that does not produce greenhouse—gasghg emissions.—The Chittenden County Regional Planning—Commission's CCRPC's Creating a Climate for Resilience:—Chittenden County Regional Climate Action Guide identifies priority regional strategies and actions, and provides guidance—on actions for interested

_municipalities,-_employers,-_and individuals.-_The Guide includes actions for both reducing the ways we contribute to climate change {climate mitigation} and to adapt in ways that make us more resilient to

_a changing climate (climate adaptation).

Genetically Engineered Trees – <u>GJust as we've seen in agriculture</u>, genetic engineering—is being introduced in the forestry indust<u>ryry as well</u>.—There are many reasons why geneticists have been working on this, including pest resistant trees, and the reduction of lignin which complicates the paper making process.—The effects of these new genes are unknown,—though interference—with the natural environment—is certain considering—pollen drifts.

4.5 <u>Flood Resiliency</u>Natural Hazards Resiliency

As of July 1, 2014, municipal plans are required to include a flood resiliency goal and element.—
The requirements -include 1)-identification of flood hazard_areas _ and fluvial erosion hazard_areas_and the river corridor and 2);-designates those areas to be protected.

Areas to be protected may include: These

- <u>could_includeing_floodplains</u>,
- river corridors,
- land adjacent to streams,
- wetlands, and/or
- -upland forests

to reduce the risk of flood damage to infrastructure and improved property; and recommends policies and strategies to protect these areas and mitigate risks.—This Plan calls for avoiding new development in these areas. By recommending policies and strategies to protect these areas, and eliminates—

Commented [SS21]: What does this mean? Do the modifications increase or decrease pollen drifts? I'm not sure why this paragraph is in the Plan.

Essex Junction Comprehensive Plan, 2014

exacerbation of flooding and fluvial erosion can be reduced and the potential for flood damage and risk can be reduced., encourages protection and restoration of these areas, and plans for flood emergency preparedness and response by recommending policies and strategies to protect these areas and mitigate risks.

Tidentification of the floodplain, and fluvial erosion hazard areas and, river corridor, and the areas to be protected divere described in this chapter above, and are mapped shown on Map 1, and Map 11.—The Village and Town joint All Hazards Mitigation Plan (AHMP) developed—in conjunction—with the Chittenden County Regional Planning Commission—CCRPC (adopted in 20112017, planned for update in 2016)—also identifies the most significant hazards for Essex and Essex Junction (see Table X for the list of hazards):

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Table)

Severe winter storm	Power loss	Telecommunications failure
Major transportation—incident	Key employer loss	Hazardous materials incident
Multi-structure urban fire	Flooding	Water service loss
Fluvial Erosion	Severe Rainstorm	Extreme Temperatures
Wildfire	Water Pollution	Power Loss
Invasive Species	Water Supply Loss	Sewer Service Loss
Natural Gas Service Loss	Other Fuel Service Loss	Crime
Terrorism	Civil Disturbance	<u>Epidemic</u>

PWhile the AHMP includes much more detail on these hazards, particular issues identified regarding flood risk include:

- "Parts of Essex Town and Essex Junction lie downstream of the Essex Dam #19, which is the
 only high-hazard- dam located in Chittenden County. Green Mountain Power, which owns the
 dam, has mapped the area that would be inundated in the unlikely event of a dam failure.
 Innundationinundation_maps are routinely reviewed and updated to identify new developments—that
 - might be affected by inundation.—The emergency action plan for the dam is updated annually and provided to appropriate—first-responder—organizations."
- The AHMP identifies two critical facilities, <u>(The Center for Disaster Management and Humanitarian Assistance defines critical facilities as: "Those-structures critical to the operation of a community—and the key installations of the economic—sector, ") associated with Green Mountain Power in the floodplain in Essex Junction.—However,—as Map 11 shows there are actually three critical facilities in the floodplain, including Essex Rescue.</u>
- As of 20092019, there are 5 residences and three commercial/industrial structures, including Essex Rescue, located within the 100-year floodplain in Essex Junction.
- Map 11 (and updated version of Map 3.1 in the AHMP) maps all structures, including bridges and culverts, in the floodplain. As of 2019, 28 structures are within the River Corridor, 10 structures are in the Sspecial Fflood Hhazard Aarea, and 7 structures are within both. 24 road segments are within the river corridor, 14 road segments are within the special flood hazard area, and 14 road segments are within both.
- The AHMP finds that while existing structures in the floodplain are at risk, the Village zoning restricts new development in the designated flood hazard areas. Essex Junction participates in the NFIP and has zoning bylaws to regulate development in designated flood hazard areas. As a result, little to no development is likely to take place in hazard areas.—These zoning requirements mitigate flood hazards to future structures. Additionally, the Village also regulate(s) development near other waterbodies and wetlands. As a result, little to no development is likely to take place in flood hazard areas. These zoning requirements effectively mitigate damages from flood and fluvial erosion hazards to future structures. Through the Village's proactive policies on flooding risk, the Village receives a higher rate of reimbursement in declared disasters and property owners are eligible for discounted flood insurance rates via the State's Emergency Relief and Assistance Fund (ERAF).—However—Though, the Village only has interim status for Rriver Ceorridor protection and will need to follow the State's requirements in the next few years to make this permanent.

- __The capabilities of the Departments_of Public Works to mitigate flood impacts on municipal roads are considered adequate, with the exception_of_a potential breach of the Indian Brook Reservoir_Dam.
- Repetitive loss properties are public or private buildings insured under the National Flood Insurance Program that have made at least two insurance claims of more than \$1,000 each during a ten-year period. According to the National Flood Insurance Program there are no such properties located in the Village of Essex Junction.

The AHMP also identifies a number of several actions the Village is taking to address these concerns.— For example,—the Village has an Emergency—Operations Plan that provides directive for emergency preparedness and response planning;—the Village maintains a culvert inventory and works to upgrade and maintain these culverts through the Capital Improvement—program; and the Land Development—CodeLDC protects these areas through the following mechanisms:

- Floodplain regulations- in accordance- with the National Flood Insurance Program;
- Low Impact Development (LID) is required of all developments.— Applicants must demonstrate
 why LID is not possible before being granted access to the Village stormwater system.
- Review of all development within 200' of any waterway, floodplain or wetland.—A 15 foot or
 more undisturbed buffer must be maintained adjacent to streams -this may be increased
 based on flood plain profile, slope of the land or other conditions.—A 50-foot setback is
 considered above the high water mark of the floodplain for stream meandering,—flooding, or
 other natural processes.—It is the objective of these standards to promote the establishment—
 and protection of heavily vegetated areas of native vegetation and trees along waterways in
 order to reduce the impact of stormwater—runoff, prevent soil erosion,—protect wildlife and fish
 habitat, and maintain water quality.
- The 2017 AHMP sets forth two Categories of Mitigation Actions for implementation from 2017 to early 2022. These are "Category A: Improve capabilities of existing road and stormwater management infrastructure to address identified vulnerable infrastructure" and "Category B: Operate an effective stormwater management system." Implementation of the various projects detailed in the Village's AHMP will further improve flood resiliency.

The Vermont Geological Survey is in the process of completing new landslide potential

Goal 6 below calls for maintaining—and expanding—on these flood resiliency efforts.

Commented [RM23]: This seems incomplete. Is there more to this or should it be deleted?

Commented [DA24R23]: Melanie: see landslide data

4.6 <u>Open Space/Recreation/Environmental</u>Natural Resources/Natural Hazards Resiliency Goals

Goal 1: Support the Essex Junction Recreation Department in providing a wide range of recreation and leisure opportunities for all residents of the Village.

Objective 1.1: Continue regulations which require the dedication of usable park lands and

open spaces as a requirement_of major development approval.

Objective 1.2: Support the implementation of the 2007 Essex Junction Recreation and Park

Master Plan.

Objective 1.3: Encourage increasing the annual funding of the Recreation Capital Replacement Reserve Fund to one cent (.01) of the municipal grand list.

Objective 1.4: Encourage implementation of a recreation impact fee to create a fund to

support future community-park and facility needs.

Goal2: Create urban open spaces.

Objective 2.1: Encourage the provision of plazas and other urban outdoor areas in major

redevelopment projects in the Village Center and Transit Oriented

Development Districts.

Objective 2.2: Require pedestrian and bicycle amenities in the creation of new public streets

in the Village Center and Transit Oriented Development Districts.

Objective 2.3: Consider the development of a village green within the Village Center District.

Objective 2.4: Encourage—or require the preservation—of open space in new residential

developments.- Allow for innovative design in the preservation of open space

through clustering and design techniques.

Goal3: Preserve the natural beauty indigenous to Vermont within the Village of Essex Junction.

Objective 3.1: Maintain regulations which encourage—the preservation—of trees in

new development.

Objective 3.2: Implement a program of selective planting of trees on private property adjacent

to existing road right-of-waysright-of-way.

Objective 3.3: Promote and actively participate in an annual tree planting program.

Objective 3.4: Consider_protection of the outstanding view sheds identified in this Plan

through amendments to the Land Development CodeLDC.

Goal4: Continue protection of existing natural resources identified in this chapter.

Objective 4.1:

Objective 4.2: Objective 4.3: Objective 4.4: Objective 4.5:

- Continue to enforce stormwater treatment standards in the <u>Land Development Code LDC</u> to improve water quality in impaired waters and to minimize non-point source water pollution from new development.
- Require retention of vegetation or effective re-vegetation_of areas vulnerable to erosion.
- Work with the Center for Technology Essex to develop a nursery to raise street trees for the Village and Town.
- Continue incentivizing—growth in the areas planned for growth, so that development pressures—on natural resources and open spaces are lessened. Ensure protection of the Village's significant wildlife—habitat—contiguous habitat units or high priority forest blocks resources by inventorying—the resources,—determining their current level of protection, and if

necessary define them and establish standards for protection of them in the $\frac{\text{Land-Development Code}}{\text{LDC}}$.

Objective 4.6: Coordinate with the Town, Region and State on efforts to establish air quality goals/objectives and encourage methods of air quality improvement.

Objective 4.76: Analyze the thrust faults to determine how properties in these areas should be managed for protection of aquifer recharge and minimizing undue property

damage.

Goal 5: Reduce greenhouse gas emissions contributing to climate change and adapt to become more resilient to a changing climate.

Objective 5.1: Engage in climate mitigation strategies to reduce the region's contribution of greenhouse gases. For example, continue to implement policies that promote investment in transportation options that reduce emissions – such as sidewalks and bike lanes; and implement programs to increase urban forest canopy.

Objective 5.2: Engage in climate adaptation strategies to help individuals,

<u>businesses</u> and communities <u>be able to</u> withstand and bounce back from – or even take advantage of-the impacts of climate change. For example, prepare and maintain plans for emergency operations,

example, prepare and maintain plans for emergency operations, emergency response, business continuity, and business recovery.

Goal_ Avoid new development in floodplains, fluvial erosion hazard areas river

corridors, and land adjacent to streams, wetlands, and upland forests; eliminate the exacerbation of flooding and fluvial erosion; encourage protection and restoration of these areas; and plan for flood emergency preparedness and response.

Objective 6.1: Continue to enforce the flood-plain regulations to protect flood prone areas and

minimize fluvial erosion.

Objective 6.2: Monitor the fluvial erosion hazard area south of Cascade Street that is not

currently regulated by the flood-plain regulations to determine if additional

protections are needed.

Objective 6.3: Monitor all of the fluvial crosion areas to see how best to-

accommodate40ccommodate fluvial equilibrium and natural erosion processes

while minimizing undue damage to

Objective 6.4: property.

Plan culvert replacements for any undersized culverts in conjunction with

Objective 6.5: roadway improvements.

Review the All Hazard Mitigation Plan on a regular basis and follow-up and

Objective 6.6: report progress on action steps.

Continue annual certification and update of the Local Emergency

Operations Management Plan.

Objective 6.7 Consider adopting a river corridor overlay which includes the mapped river corridor and

small streams with a drainage area of 0.5 sq.misq. mi. to maintain the natural function of waterways including fluvial equilibrium and natural erosion processes, and floodplains

and protect public/ private property from flood hazards.

Commented [MN25]: Fluvial Erosion hazard area is no longer a term being used. Should we replace this with river corridor?

See Map Viewer to understand where this is in relation to

the River Corridor.

http://map.ccrpcvt.org/rivercorrplanning/

5. Education and Child Care

The Village of Essex Junction is centrally located and has ready access to numerous colleges and universities including the University of Vermont, Champlain—College, <u>and St. Michaell's Collegeand Burlington College.</u> These facilities provide varied opportunities—for residents of the Village.

The <u>public-schoolpublic-school</u> system in the Village of Essex Junction is administered by the Essex Junction School District, an incorporated_district which was chartered by the State in 1892, and the Union School District #46, established by the voters in the Village of Essex Junction and Town of Essex in

1995.—The Essex Junction School District encompasses three elementary schools and one intermediate school.—The school district is also responsible—for the operations of the Essex Junction Recreation—and Parks department.—The Union School District #46 encompasses—one high school and one regional vocational-technical center serving the communities—of Bolton, Charlotte, Essex Junction, Essex Town, Fairfax, Grand Isle, Hinesburg, Huntington,—Jericho, North Hero, Richmond, St. George, Shelburne, South Hero, Underhill, Westford, Williston, Winooski, and the Champlain Valley and Mount Mansfield Union High Schools.

Table 8 identifies existing school sites and acreage.—Anticipated future school populations—are listed in Table 9.

Table 8
School Property Inventory

Ed Center	93.0	acres
A.D. Lawton	33.5	acres
Hiawatha	15.65	acres
Summit	3.7	acres
Fleming	5.44	acres
Park Street	1.29	acres
51 Park Street (SU Office)	0.56	acres

Management, including planning,—of the Essex Junction School District is by a five member "-"Prudential Committee" whose members—are elected from the public at large.—Management, including planning,—of the Union School District #46 is by a six member School Board, three of whose members are elected by the Village, and three of whose members are elected by the Town of Essex (outside of the Village).—The Prudential Committee's and Union School Board's functions include fiscal responsibility—and the setting of school policies and standards.—The Prudential Committee and Union School Board are responsible—for planning for the local school systems.— Specific education plans are available at the School District Offices.

Table 9:

			Es	timated	Future	Popul	lation		x Junct		hools			
Year	Births	K		1	2	3	4	5	6	7	8K-	-5 6-8	3 K	-8
199	0 23	Q.	93	132	116	114	95	107	110	108	94	657	312	969
199			118	104	136	118	111	98	116	104	108	685	328	1013
199			121	123	103	134	112	107	103	125	103	700	331	1031
199			94	125	125	107	129	114	111	105	130	694	346	1040
199			128	108	127	129	116	127	120	115	99	735	334	1069
199			122	135	104	130	133	118	144	125	119	742	388	1130
199			87	124	139	110	126	130	131	138	135	716	404	1120
199			117	96	122	138	107	128	134	132	142	708	408	1116
199	8 21	2	119	131	97	128	137	116	132	134	132	728	398	1126
199	9 23	3	90	123	125	105	123	133	118	132	148	699	398	1097
200	0 22	1	104	97	123	126	101	132	135	123	128	683	386	1069
200	1 19	9	101	114	88	129	118	99	130	135	126	649	391	1040
200	2 20	7	99	111	119	90	130	118	110	131	136	667	377	1044
200	3 23	1	98	106	105	123	87	130	125	104	131	649	360	1009
200			104	107	104	107	127	88	128	129	105	637	362	999
200			114	96	102	103	111	123	92	128	136	649	356	1005
200	6 20	4	96	115	99	107	107	106	131	99	122	630	352	982
200			101	99	119	103	106	109	105	140	103	637	348	985
200			119	100	103	113	106	106	113	105	141	647	359	1006
200			111	109	98	107	112	113	110	116	110	650	336	986
201			116	113	117	103	111	112	109	111	113	672	333	1005
201			106	114	120	115	107	111	117	109	112	673	338	1011
201			102	110	117	120	114	103	112	123	113	666	348	1014
201			112	111	113	124	117	113	112	117	124	690	353	1043
201			113	112	114	116	124	118	116	114	119	697	349	1046
201			96	113	115	117	116	125	122	119	116	682	357	1039
201 201			96 101	96 96	116 98	118 119	117 118	117 118	129 121	125 132	121 127	660	375 380	1035 1030
201			101	101	98	100	118	118	121	124	134	650 640	380	1020
201			103	101	104	100	100	120	123	125	126	631	374	1020
201			105	104	104	107	100	101	124	126	127	623	377	1000
202			105	105	107	109	107	101	104	127	128	634	359	993
202			105	105	108	110	109	108	104	106	129	645	339	984
202			105	105	108	111	110	110	111	106	107	649	324	973
202			106	105	108	111	111	111	113	113	107	652	333	985
202			106	106	108	111	111	112	114	115	115	654	344	998
202			106	106	109	111	111	112	115	117	117	655	349	1004
202			106	106	109	112	111	112	115	118	119	656	352	1008
202			105	106	109	112	112	112	115	118	120	656	353	1009
202			105	105	109	112	112	113	115	118	120	656	353	1009
203	0 205	5	105	105	108	112	112	113	116	118	120	655	354	1009

As can be seen from the above table, school populations are anticipated to remain fairly level for the next five years, then drop slightly to about 1,000 for the foreseeable future.—The school district has no plans for new schools.—However,—the Union #46 District completed a \$12.5 million renovation of several spaces within the Educational Center (high school, tech center, and rink) in 2008 and several renovations—have occurred in recent years to improve each Essex Junction school.—Single Family housing development,—which tends to have the biggest impact on school enrollment populations,—is

occurring—at a very low rate due to the scarcity of vacant land.—The increase in multi-family development in the Village is not likely to have a major impact on school enrollments.

5.1 Childcare

The availability of adequate childcare facilities for working parents is widely considered a critical ingredient—of a healthy community.—Into only is childcare an essential part of a community's—social infrastructure,—support for such facilities is increasingly—considered—an important economic development strategy.

The Essex Junction—Westford School District is a dedicated partner with the community in providing young children with high quality preschool and early care learning experiences.—The Essex Junction—Westford School District provides high quality in-house preschool instruction to approximately 30 students.—Through their agreements—with high quality private preschool providers,—that number increases to approximately 90 students total.—The Essex Junction Recreation and Parks department is one of the private preschool partners and services about 18 students (most of which are Village residents).—The department—also provides after school childcare for nearly 200 children through its Village Kids program which operates out of Fleming, Hiawatha, and Summit Street schools during the school

year.—In addition, the department provides childcare for nearly 100 children during the summer through its Camp Maple Street program which serves about 90 children for nine weeks.

Childcare—facilities are regulated by the Vermont Department for Children and Families.—Providers operating out of private homes who care for not more than six pre-school children from two or more families, in addition to not more than four school age children for four or fewer hours each day, must be registered with the state.

According to the 2010 U.S. Census, -565 Village residents are under the age of 5 (6.1%), 591 residents are 5 to 9 years old (6.4%), and 610 residents are 10 to 14 years old (6.6%). While there is no way to determine how many families need childcare for those children, we can report the capacity and vacancy for the current childcare providers .- As of February 2014, the VT Dept. for Children and Families Bright Futures Child Care Information_System reports there were 16 licensed programs (including-school programs)- and 10 registered homes providing care for children in Essex Junction. These facilities have a combined-capacity to serve 70 infants, 49 toddlers, 205 pre-school children and 393 school age children for a total of 694.—At the time of this count there were the following vacancies: __16 infant, 9 toddler, 28 pre-school, __and 16 school age for a total of 69. __It appears that the licensed programs- are licensed to serve additional students than they report for capacity so they may apply for a greater number than they are currently prepared to serve. It is important to note that the Child Care Information-System reports data as provided to them by the programs-they do not do a census count.—While there appears to be some capacity available in the existing programs, the Village appears to be adequately served by the existing childcare facilities. -_In addition, there are ample opportunities- for new facilities as childcare facilities and home daycare facilities are allowed in most areas of the village.—Map 5 identifies the locations of publicallypublicly funded childcare facilities in the village.

5.2 Education Goals

Goal 1: Provide opportunities for access to quality education for all segments of the population and promote full use of all facilities.

Objective __1.1: Coordinate __with the School District to minimize any negative impact to school resources __which results from major new residential development.

Objective 1.2: Encourage—the use of Village and school facilities during evening and weekend hours for adult education,—educational workshops and career development programs.

Cooperate_and coordinate with the School District in providing enrollment projections within the Village.

Encourage alternative access to all educational facilities through the use-

efusing sidewalks, bike paths, and mass transportation as appropriate.

Goal4: Maximize use of all public facilities, <u>Village Village</u>, and School, by utilizing the facilities for community and service_organizations during off-peak hours.

Promote an elementary school safety program to increase awareness of bicycle and pedestrian safety issues.—Continue participation in Vermont's Safe Routes

to School Program.

Continue to allow childcare facilities and home daycares in all zoning—districts that permit—schools as well as all residential zoning—districts.

Goal<u>6</u> &:

Goal2:

Goal3:

Goal5S

6. Utilities/Facilities

Community_facilities and utilities are provided by the Village, Town, or other quasi-public_entities for the health, benefit, safety, and enjoyment_of the general_public_public. They include wastewater disposal systems, public water supply, stormwater management, solid waste disposal, utilities, library services, fire protection,—and_police and rescue services. Careful planning is essential for community facilities and services if they are to meet local goals for future growth and sustainability.— While, these utilities and facilities are necessary—for helping the Village maintain all_ofall the Heart & Soul values, they are particularly important to the Safety value.—Other infrastructure—like roads and sidewalks are discussed in more detail in the Transportation—chapter.

6.1 Water Distribution System

The Village of Essex Junction receives its water from the Champlain Water District (CWO).—CWO is a water wholesale—company that maintains a network of distribution pipes and meters throughout the communities—that they service.—Water enters into the Village through three main master meters controlled by CWO.—Water leaves the Village through one meter.—With Global Foundries IBM as a major water user, water into the Village is over 5.5 MGD (Million Gallons per Day).—Village users consume 0.75 MGD the balance of the water passes through the system with bulk water billing managed by CWO and water to IBM-Global Foundries managed by the Village.

The high volume of water that passes through the community makes the Essex Junction water system one of the largest in the state by hydraulic volume.—This high volume of water is good for water quality.—With large volumes of water and meters out of the Village of Essex Junction direct control, accurate wholesale—billing and acute monitoring of the distribution system for leakage is very important for rate stability.

The Water Department—purchased—a leak detection system for constant monitoring of the water system for leaks.—Twice annually, unaccounted for water or water loss is calculated as part of the residential billing cycle.—The Village continues to maintain water loss at low level, well below industry norms.

The residential section water distribution system in the Village of Essex Junction consists of a high pressure system and a low pressure—sections.—The majority of the Village is serviced off the low pressure system.—The high pressure—system services a section located in the northeast corner of the Village, this area consists of all Countryside—Development,—Corduroy Road, Vale Drive, Mason Drive, Kiln Road, the west end of Brickyard Road, Acorn Circle, the west end of Briar Lane and the west end of Woods End Drive.—The high pressure—system also provides water to the Town of Essex at two locations in this area.—As noted earlier, water is obtained through the Champlain Water District. Village residents—are eligible to vote on measures to expand the District services.

Presently,_most of the water main transmission lines are sufficient with some exceptions.—There are areas within the Village where looping the mains would result in improved fire protection and circulation.—Other sections of the Village contain water mains that are under-sized by today's public water supply and fire protection standards.—The Water System capital plan prioritizes the identified system deficiencies.—All capital plans are working documents subject to modification due to changing priorities and opportunities—to modify schedule to combine projects.

The Village has sufficient major transmission lines available to serve future development—(Map 8). Extension of these mains to serve new development will be the responsibility—of developers and must be done to the municipal standards.— The Village Water Distribution Map is updated annually and is

available at the Village Office, Public Works, Wastewater—Treatment Facility.—The maps are now in GIS format.

6.2 Stormwater Drainage System

The Village of Essex Junction is a regulated Municipal Separate Storm Sewer System (MS4) under the EPA and State of Vermont Phase 2 stormwater permit process.—The Village is regulated as the population density exceeds 1,000 persons per square mile.— The Village began participation in this program at its inception in 2002.—As required by law, the community is required to comply with six program areas.

- 1.- Public Education-and Outreach on stormwater
- 2.- Public participation/involvement in stormwater management and decision making
- 3.- Illicit discharge-detection and elimination
- 4.- Control of construction site stormwater runoff
- 5.-_ Control of post construction-_runoff
- 6. Municipal pollution prevention and good housekeeping

The Village has implemented all required permits related to stormwater.—There remain several expired permits which will be addressed under the 2012 permit renewal when the stormwater management plan is approved by the State.—All systems are inspected at minimum,—once annually after snow melt, twice a year as specific permit conditions apply.

The Village of Essex Junction falls within the Winooski River (Basin 5) and the Northern Lake Champlain Direct (Basin 8) watersheds and has two-three waterways passing through the community; the Winooski River.—Both of these streams are impaired due to stormwater flow contributions. The streams are Indian Brook, and Sunderland Brook. Both of these streamsThese waterways—are impaired due to stormwater—flow contributions. TMDL's (Total Maximum—Daily Load) establish the allowable flow capacity for all contributing—sources at a level necessary to attain the applicable water quality standards.—TMDLs have been established for both Indian and Sunderland—Brooks.—The State of Vermont plans for water quality protection, maintenance, and enhancement through the Winooski River (Basin 8) and the Northern Lake Champlain Direct (Basin 5) Tactical Basin Plans.—Essex Junction's stormwater management permit, wastewater collection system, and zoning regulations align with the implementation actions of the tactical basin plans, as well as flow restoration plans for Indian Brook and Sunderland Brook. TMDL's (Total Maximum—Daily Load) establish the allowable flow capacity for all-contributing sources at a level necessary to attain the applicable water quality standards. TMDLs have been established for both Indian and Sunderland Brooks. The Winooski River abuts the Village of Essex Junction to the south.

A Municipal Separate Storm Sewer (MS4) Phase 2 General Permit (3-9014) was issued to the Village of Essex Junction in 2013. This permit requires the Village to improve the water quality of its stormwater impaired—watersheds—(Indian and Sunderland—Brooks) which we share is shared with the Town of Essex. As a result, the two communities—formed the Joint Stormwater Committee (JSWC) to coordinate efforts needed to meet permit requirements. The JSWC is also working to address stream flow restoration planning requirements—aimed at reducing the flow and restoring it closer to attainment or predevelopment flows (the TMDLs will be incorporated into this work).

Two Fflow Rerestoration Pplans (FRP) were filed in 2017 with the State Department of Conservation, one for Sunderland Brook and for Indian Brook. in 2017. These plans set forth potential projects and measures to be implemented so as toto meet flow restoration targets by December 5, 2032. over

The Village of Essex Junction has historically maintained_its stormwater infrastructure_to a higher standard than most communities.__ This ongoing maintenance and management of these stormwater

assets will further einsure water quality at a value price for the community.

6.3 Wastewater Collection System

The Village of Essex Junction continues to maintain and improve—its sewage collection system. These improvements included replacement—of the High School Pump Station as well as ongoing sewer line and manhole sealing.—The goal of our work is to preserve hydraulic capacity and to ensure the sanitary sewer system continues to provide this essential service for the protection of public health.—The community—continues to process improvements within capital plan updates.

Presently, the sewer transmission mains within the Village are adequate for the present flows. The gravity sewer system in the Village consists of many different types of pipe used for transmission mains (concrete, vitrified clay, asbestos cement, PVC, cast iron, and HDQPE).

There are over 16,000 feet of concrete sewer main in the Village (Map 7).—Some of this pipe has been in use for more than 60 years and is beginning to show signs of deterioration—where the soil conditions are poor.—Major improvement in the condition of pipe was accomplished—using federal stimulus funds and eliminating the significant need to rehabilitate—substantial sections of sewage collection infrastructure.— This concrete pipe will eventually need rehabilitation over the next 20 years. High priorities for evaluation continue to be the major transmission lines as well as lines under main roadways.— Assessment—uses a standardized pipeline assessment—protocol.—Recent infiltration and inflow field work will aid in prioritizing where future improvements—should be focused.—The entire system is in good standing.

Sewer mains are readily accessible—to all areas of the Village.—Detailed Wastewater—Collection System Maps are updated annually and are available at the Village Offices, Public Works, and the Wastewater—Treatment Facility.—Extensions—of lines are the responsibility—of the developer.—The use of septic systems for future development is not necessary.—There is adequate capacity to accommodate—the few remaining—septic systems still within the Village today.—A comprehensive listing of on-site septic systems is found in Section 7 of the Village of Essex Junction policies and procedures.

6.4 Wastewater Treatment Capacity

The wastewater facilityWastewater Treatment Facility was upgraded to advanced secondary—treatment in 1985.—Since then the Wastewater—Treatment Facility has completed two upgrades—for the Towns of Williston and Essex. The current facility capacity is rated at 3.3 Million Gallons per day. In 2012, a comprehensive facility refurbishment—was contracted.—Work completion is expected in the Fall of 2014.

Rated capacity for the three communities-served by the Essex Junction Wastewater-Facility

are: Essex Junction 1.17 MGD (Million Gallons per Day)

Essex Town 1.10 MGD Williston 1.03 MGD

Based on actual flows observed from the Village, there is excess treatment capacity of approximately 0.45 million gallons per day. —more or less.—There is sufficient hydraulic—capacity for the Village beyond the year

2015.—Additional capacity will be gained by wastewater—collection system work noted above.—Capital maintenance work reduces the incidence—of water infiltrating into the system from the groundwater table.—Additional capacity will be recovered—by rescission—of unused capacity allocations assigned to development projects that have not been constructed.

Total flow from the three communities serviced is at an average daily volume of 1.9 million gallons per day.—Wastewater—flows will vary based on weather conditions.—Long term flow profiles relate to development patterns in the communities served. Capital planning—with long term rate stability planning will maintain the viability of the infrastructure—long beyond its design life.

6.4.1— Pump Stations

Within the Village, there are seven sewage pump stations.—Sewage flows by gravity in lower lying areas to a central collection point where. There it is collected in a wet well (storage tank) then pumped under pressure to the Wastewater Treatment—Facility.—The Old Colchester

Road

pump station (AKA High School pump station) was replaced in 2012 with a completely new pump station.

6.4.2 Sludge

The generation of \underline{b} Biosolids (or sludge) is a natural by-product—of \underline{w} Wastewater treatment. Biosolids quality and production have always been a priority in Wastewater $\underline{\mathsf{Treatment}}$ Facility operations. Increased regulation and scrutiny by State and citizens point out the need for education and outreach. The management of \underline{b} Biosolids is accomplished—by a cooperative effort with the Chittenden—Solid Waste District $\underline{(CSWD)}$.—This consortium effort uses a subcontractor—under_

contractual agreement with CSWD for management_of this organic byproduct of the wastewater_process.

Dry weight basis is a parameter—used as a standard in the industry for measuring and tracking the efficiency of various processes. We—The Wastewater Treatment Facility currently produces 350 dry tons of solids per year. Where the solids generated—are in a liquid slurry form, the facility uses gravity thickening and high solids dewatering by centrifuge to maximize process efficiency.—A thickened feed belosolids at 5% solids is dewatered to greater than 28% solids.—Where sludge management costs are on a wet ton basis, the more water squeezed out of the Belosolids, the more efficient the disposal cost.—Dryer Belosolids results in more solids removal per ton from the dewatering operation. Liquid and dewatered solid recycling of biosolids is also performed on permitted local farms when it can be accomplished in coordination with weather and crop management objectives of the participating farmers.

Staff and CSWD continue to evaluate the most environmental—and cost effective method of recycling—or beneficial re-uses of the treatment—by-product;—Bbiosolids.—The management of Bbiosolids residuals accounts for over 25% of the annual operational budget.—Planning involves a long term evaluation of flexibility, high solids production—and long term viability of any process selected.—Presently, the use of subcontractor—services accomplished—this objective for the facility without capital improvement.

6.5 Solid Waste Disposal

The Town of Essex formerly operated a municipal landfill off VT Route 2A. By law, the landfill was closed. The closed landfill remains—on the list of active Comprehensive Environmental Response Compensation and Liability Information—System (CERCIS) sites (EPA Superfund sites) with a low rank priority relative to its potential to be a risk to the general public public. The site -which operates under an Administrative Closure Order issued in November, 1992, and in effect until 2013- is tested twice yearly and will be monitored for the foreseeable—future. The Village is a member of the Chittenden Solid Waste District (CSWD) which handles disposal of the County's. The former Town landfill is now serving as a transfer station for the district with drop-off and storage facilities.—CSWD also has identified the need for and is in the process of developing—a regional landfill site.—The Essex Town Plan indicates that the Town-firmly believes that the RPD-1 District and the abutting 1-1 District are inappropriate locations for a regional landfill. The Town is unalterably opposed to a landfill in these districts.

CSWD has established a range of programs—and facilities to manage waste through reduction, diversion,—and proper disposal. The tons of refuse disposed in Chittenden County have been declining over the last 5 years, while the amount of recycled materials has increased.—While those trends are positive, there is room for improvement.— It is estimated that 27% of the municipal solid

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waste sent to the landfill is comprised of recyclable_materials and 32% is comprised_of organic materials that could be composted (Source: CSWD Estimate of the Components of Solid Waste Disposed_for FY 2012).—A State law passed in 2012effective July 1, 2015 (Act 148) bans disposal of certain recyclables (effective July 1, 2015), yard debris, and clean wood (effective July 1, 2016), and food scraps (phased in over time) from disposal. Residents and businesses—in CSWD have been required to separate yard debris and recyclables from waste destined for disposal since 1993. The additional bans on food scraps and clean wood will have a significant impact on waste diversion in Chittenden County.

6.6 Utilities

Communications

Essex Junction is generally well served by modern communications—services and facilities.—Cellular phone service, internet, and telephone service is available throughout the Village through several providers.—Broadband technology is widely available throughout Chittenden County: as of December 2011, approximately 99% of Chittenden County residents and 99.5% of non-residential—structures (analysis included commercial,—industrial, municipal—structures) have access to Broadband.—The federal definition of broadband—is 768 kbps download/200—kbps upload speeds.—It will be important to ensure that the County and the Village remain on par with other urban areas in the realm of number

of service providers,—service tiers, and affordability—as the technology is constantly improving,—and—we must keep up.—Specifically,—the defined broadband speeds are quite slow and will need to improve.

Vermont Gas Systems

Natural gas service is provided upon request.—Expansion follows development.—The following areas currently are not yet served: Whitcomb Farm area on the Westerly portion of South Street

Green Mountain Power

Supplies electricity to the Village by means of the hydroelectric plant on the Winooski River. Adequate power is available to serve new growth within the Village.

The provision of all public utilities is regulated by the State and Federal governments.—Service to Essex Junction is adequate at present, and for the foreseeable—future.—However, the Village should continue to monitor these services and participate in public hearings on all projects which may have an impact within the Village.

Public Buildings/Offices

Local, state, and federal governments—are acknowledging the benefits of having public buildings located in historic downtowns—and village centers.—Public buildings increase the daytime population in an area through its employees and those visiting the offices.—The increase in daytime employment and activity from public offices helps keep the downtown vibrant and businesses—healthy.—In addition, public buildings in downtowns—give opportunities—for the reuse of important historic buildings and give employees—and visitors access to increase transportation choice by being located in a pedestrian friendly area that is accessible—by public transportation.—For the reasons described above, the state and federal government—both have policies requiring them to give priority consideration—to locating public buildings in downtowns—and village centers.

The Village Center has several public buildings including the Essex Junction Municipal Offices, the Brownell Library, the Fire Department,—and the Winston-Prouty Federal Building.—The Essex Town Municipal—offices are located within a half mile from the Village Center.

6.7 Brownell Library

The Brownell Library building—was built in 1926. An—historical assessment will be undertaken to determine—needed repairs and a plan for implementing—those repairs.—Both the assessment and the plan for repairs will take into consideration the necessity of avoiding jeopardizing—the historical nature of the building.—The Brownell Library has developed a Strategic Plan for 2014-2019.—The following is a very brief summary of the development of this Plan -for further information please refer to the Brownell Library Strategic Plan: 2014-2019 which can be found here: http://www.brownelllibrary.org/. The Strategic Plan provides background—information on the library and a needs assessment (including—information from two surveys conducted in 2012 to assess patron opinion about library collections—and services, and to gauge areas where the library should grow in the future).—The Plan identifies the following four4 strategic areas, also known as Service Responses,—in which to concentrate the work of the library for the next five years.—It is important to note that these Service Responses match some of the Community—Values that were identified by Heart and Soul of Essex - the Library Planning Committee felt strongly that providing consistency—and articulating congruence—between organizations—would strengthen—all of our efforts.

1.— Education

Create opportunities—for lifelong learning and exploration,—and respond to societal changes with information to help people manage and improve their lives.

- a.— Offer diverse programming opportunities—incorporating—a variety and range of literacy skills.
- b.__Collaborate__with local schools to support and extend educational__offerings in the community.
- c. Train and sustain a friendly, creative, and knowledgeable staff to engage with library users in all manner of activities throughout the library and beyond.
- d.-_ Help patrons with evolving technologies-_in a welcoming-_environment.
- e. Develop and maintain a collection reflecting community interests and needs that includes ongoing points of view and responds—to changing interests and demographics.

2.__ Community Connections

Nurture community—spirit in a safe, collaborative—and comfortable space. a.— Improve existing space to meet patrons' needs.

- b.__Engage community_members in the development and implementation of programming.
- c.- Increase publicity and awareness-of library services and programming.
- d.-_ Increase outreach efforts to reach underserved populations.
- e.-_ Collaborate-_with other libraries in all areas of library services, with emphasis on the Essex Free Library.

3.- Health and Recreation

Support healthy minds and bodies and stimulate imagination.

- a.-_ Partner with local initiatives and organizations-_to enrich community involvement-_ in health and recreation.
- b.-_ Expand our presence-_and access outside the building.
- c.-_ Provide services-_and materials to promote healthy minds and bodies. d.-_ Help patrons access health and recreation resources.

4.- Local Economy

Support the efforts of individuals and groups dedicated to improving the economic vitality of Essex Junction and its residents.

- a.— Collaborate with organizations groups and individuals—working to improve the community's— economic climate.
- b.__ Develop spaces, resources__and trainings to support small businesses and start- ups.
- c.-_ Support financial literacy for all ages.
- d.—Provide resources—concerning job opportunities and career changes. e.— Pursue funding opportunities—for special projects and initiatives

6.8 Senior Center

The Senior Center is located at Five Corners in the white annex of the Village Office Building.—It is the mission of the Essex Junction Senior Center to be a friendly gathering place for people 50 years of age and older.—Programs are provided to promote physical, intellectual, and social well-being and enhance—dignity, self-worth, and independence.—Programs include exercise, games, activities, and volunteer opportunities.—The center also handles reservations for the Senior Van.

6.9 Fire Department

The Essex Junction Volunteer Fire Department_surveys and reviews all development_proposals_ within the protection area and plans for fire protection equipment needs appropriately.

Currently, the Fire Department_operates two pumpers and one pumper/ladder: one pumper is a heavy rescue unit, and one is a utility truck.—The ladder truck is new as of 2014 and is 43.5' to accommodate_taller buildings in the Village.—If the Village were to develop all-ofall the existing property within the Department's protection area, based on the 1998 survey and subsequent development proposal reviews, the current level of equipment—would be sufficient.

In addition to equipment—and building needs, a major issue to be reviewed is the role of the Fire Department in Fire Prevention.— The lack of any full-time personnel limits the department's—capability to aggressively—promote Fire Protection—programs.— Also, the ability to inspect structures and access

fire exposure is limited by lack of personnel.— Consideration should be given to creating a limited full-time Department—as a first response—team and for initiating fire exposure and fire prevention programs.—The adoption of a Building Code for single-family dwellings—should also be analyzed as a part of an overall fire exposure—and fire prevention program.

The Fire Department recommends consideration of a new fire station in the near future. Demographics in fire service point to a change in the length of service individuals provide and retention of volunteers has been challenging.— To fill positions individuals may need to be recruited from outside Village limits.—To do that, the Fire Department would want to model a program similar to Essex Rescue,—where—you have duty shifts are—available and individuals can be housed on-site.— The current station lacks dorm facilities and showers, needed to accommodate—shift work.—The goal is to have a fire station in place in 5 – 7 years.

6.10 Police

The Town of Essex Police Department—was formed in 1980 to serve both the Town of Essex and the Village of Essex Junction. The Department—is overseen by the Police Chief who is appointed by the Town Manager. In 2013, the department—had 26.2 full-time officers, five (5) part-time officers, four (4)

full-time dispatchers,—two (2) other full-time civilian employees,—a part-time secretary and one (1) part- time dispatcher. The officer to population ratio in Essex is 1.3 officers per 1,000 residents. The national average is 2.1 officers per 1,000 residents. Neighboring—communities—of Burlington (2.1), Colchester—(1.6), South Burlington (2.1), Williston (1.9) and Winooski (2.2) presently average 2.0 officers per 1,000 residents.

A major thrust is being made to provide a proactive approach to deter crime by forming partnerships within the community. Programs such as Neighborhood Watch, robbery seminars, neighborhood meetings, and Project Northland (youth drug & alcohol education program),—have served to establish these partnerships.

In addition, the Essex Community—Justice Center (CJC) has been growing in its capacity to address low-level crime and conflict since its inception in 2003. The CJC is a community—organization where citizens can work together to prevent crime, resolve conflicts, and render justice in areas that are most important to them. It is a means for the community to take responsibility—for its quality of life by collaboratively using the principles—of restorative justice.

The demand for police services including patrol, motor vehicle enforcement,—bicycle safety training, investigation,—crime prevention, and court preparation has stretched the department's—resources to the limit. The police facility at 81 Main Street was found to be inadequate and in 2012, voters approved the purchase of a 5.8—acre parcel on Maple Street in the Village for the construction of a new 18,000 square foot facility.—The facility is expected to be complete by September 2014.

The following issues regarding—the Police Department need to be addressed—within the next five years:

- 1. Decrease the amount of time vacancies remain open.
- 2. Increased staffing to address the crime rate and the increase in traffic.
- 3. Greater community-participation-in crime prevention efforts.

Source: Section 6.10 was taken directly from the 2011 Essex Town Plan and updated.

6.11 Rescue

"Essex Rescue, Inc. was organized in 1971 as a professionally—trained, volunteer ambulance service. Service is provided by approximately—50 volunteers to individuals requiring emergency—medical treatment and transportation from Essex, Westford,—Jericho, and Underhill. With a goal of providing emergency—services 24 hours a day for 365 days a year, Essex Rescue has hired one full time and one part-time employee to assist the otherwise all volunteer staff.

Approximately—10 percent—of Essex Rescue's—operating funds are donated by the towns it serves with the rest coming from fund drives and private donations. A Subscription Plan allows a family to pay an annual fee to avoid a bill for services.

Essex Rescue, Inc. operates out of a facility near the Essex Community—Educational Center. The building is owned by Essex Rescue Inc., with no outstanding—notes—at this time, and is on leased land with a 99-year lease, which expires in 2070. Recently expanded,—the members see no need for a new building for the foreseeable—futurenear future."

Source: Section 6.11 was taken directly from the 2011 Essex Town Plan.

6.12 <u>Utilities/Facilities Goals</u>

Goal 1: Provide a Village infrastructure system that adequately ensures the availability of potable water, disburses storm and ground water runoff, reduces pollutants, and disposes of sanitary wastes in a manner which ensures community health and is environmentally sound.

Objective 1.1:	Maintain Public Works Specifications—utilizing prudent and reasonable
	technology to ensure adequate infrastructure_systems.—Include
	adequate designs to allow for peak usage and control peak flows.

- Objective 1.2: Implement—Asset management plans through capital projects that upgrade existing water, stormwater and sanitary sewer systems to insure long term rate stability.
- Objective 1.3: Utilize the available sewer capacity in a manner which will provide the most benefit to the Village of Essex Junction.
- Objective_1.4: Continue to provide improvements_or extensions to existing infrastructure systems without undue financial burden to the Village.
- Objective 1.5: Maintain the existing infrastructure systems for maximum life and use.
- Objective 1.6: Ensure new developments—have adequate services.
- Objective 1.7: Continue to identify existing areas where deficiencies in the systems occur and could potentially have a detrimental effect on safety, health, or the environment.
- Objective 1.8: Consider—leasing on a more permanent—basis basic sewer capacity in excess of potential development—in the Village.
- Objective_1.9: Implement_stormwater discharge standards to be included in the Land Development Code revisions.
- <u>Objective 1.10</u> Review the Winooski River (Basin 8) and the Northern Lake Champlain Direct (Basin 5)

 Tactical Basin Plans to identify any additional implementation actions necessary to

<u>reduce stormwater pollutants and volume.</u>

Ojective Objecti

Review the Indian Brook and Sunderland Brook Flow restoration plans to identify forth

ve 1.11

potential projects and measures to be implemented to meet flow restoration targets
by December 5, 2032.

Goal2: Participate in Public ServicePublic Utility Commission board hearings and to encourage the continued provision of a high quality of public utility services to the Village.

- Objective_2.1: Encourage__utility companies__to provide high quality services to all areas of the Village as new development_ occurs.
- Objective—2.2: Require public utilities to maintain their corridors, to remove all existing poles as part of pole replacement—projects in a timely manner, and to fix damage to Village infrastructure resulting from utilities construction projects.

Goal3: Provide the community with the best possible sidewalks for the purpose offor pedestrian travel at the most reasonable cost.

Objective_3.1: Establish a prioritized capital improvement plan for upgrading sidewalks.

Objective_3.2: Continue_to maintain assessments_and inventory on all sidewalks including handicapped accessibility,_length, widthwidth, and deficiencies (heaving,

Commented [MN26]: Has this been completed?

drainage).

Continue to provide all Village segments with the best fire protection. Goal4:

Objective_4.1: Actively recruit volunteers for the Fire Department, and consider the need for a

new fire station to assist in recruitment—and retention efforts.

Consider—establishing—a limited full-time Fire

Department. Consider—adopting building and life/safety

Objective_4.2: Objective_4.3:

codes.

Goal_ <u>\$5</u>: Provide—a high level of Library Services—to Village residents for their enjoyment and information, with <u>particular emphasisemphasis</u> on education, community connections, health and recreation, and the local economy.

Objective 5.1: Create opportunities_for lifelong learning and exploration,_and respond to

societal changes with information to help people manage and improve their lives.

Objective_5.2: Nurture community_spirit in a safe, collaborative_and comfortable space.

Objective 5.3: Support healthy minds and bodies and stimulate imagination.

Objective_5.4: Support the efforts of individuals and groups dedicated to improving the

economic_vitality of Essex Junction and its residents.

Objective_5.5 Historic aAssessment_of the Brownell Library structure will be done in the next five

years.

Goal<u>6</u>

Maintain existing public buildings and municipal functions in the Village Center unless—their function warrants an alternative location.—To encourage other public entities to give priority consideration to the Village Center for their public building(s) unless—the function warrants an alternative location such as the wastewater treatment plant—or public—works garage.

Continue to provide the Village with the best police_protection.

Goal7:

Decrease_the amount of time vacancies remain open.

Objective 7.1. Increased staffing to address the crime rate and the increase in traffic.

Objective 7.2. Greater community_participation in crime prevention efforts.

Objective 7.3.

Goal<u>7</u> S: Continue to explore funding options for burying power lines in core commercial districts and ensure—that all new developments site utilities underground.

7.—Housing

The availability and quality of housing are important determinants—of a community's quality of life. One of the six community values determined in the 2013 Heart & Soul project was Thoughtful Growth.—Participants—of the project described Thoughtful Growth in a variety of ways; two are relevant to housing: A balance of housing, business, and the preservation and maintenance of a variety of open spaces, including forests, trails, parks, and recreation fields; and and variety of housing

options including affordable housing.—A major component of this Plan is to ensure that these aspects of Thoughtful Growth are met through maintenance—of existing housing and development—of new housing.

7.1 Housing Supply

Table 10 provides a historical perspective on the housing supply in Essex Junction and comparisons to the County.—While the housing unit data from the Census is not entirely accurate it is helpful to provide trend data.

Table 10. COMPARISON OF TOTAL HOUSING UNITS: 1960-2010 Update								
			YEA	AR				
							Average	
							HouseholdUnits	
							Per Year	
	1960	1970	1980	1990	2000	2010	2000-2010	
Essex Jet. Village	-	•	2,544	3,375	3,501	4,009	50.8	
Essex Town	-	1	2,279	2,935	3,669	4,137	46.8	
Both Village &	1,944	3,053	4,826	6,310	7,170	8,146	97.6	
Town								
Colchester	(52	2.000	1500	5.022	6.707	7.104	37.7	
	652	3,088	4,566	5,922	6,727	7,104		
So. Burlington	273	2,879	3,972	5,437	6,498	8,429	193.1	
Williston	400	908	1,284	1,874	3,036	3,652	61.6	
	1				1		1	
Chittenden Co.	22,464	30,664	41,339	52,095	58,864	65,722	685.8	
Vermont	136,307	165,063	223,198	271,214	294,382	322,539	2815.7	
PERCENT OF CHITTE	NDEN COU	VTY						
Essex Jet. Village	-	1	6.15	6.48	5.95	6.10	-	
Both Essex Village	8.65	9.96	11.67	12.11	12.18	12.39		
&Town	8.03	9.90	11.07	12.11	12.18	12.39	-	
Colchester	2.90	10.07	11.05	11.37	11.43	10.81	-	
So. Burlington	1.22	9.39	9.61	10.44	11.04	12.83	-	
Williston	1.78	2.96	3.11	3.60	5.16	5.56	-	
Source: 2010 U.S. Co	ensus				•			
Bureau								

The existing housing stock in Essex Junction is mixed.— As seen in Figure 5, single family detached dwellings are the single largest housing category.— However other types of housing do exist and are increasing.—Between 2010 and 2012, the Village saw more multi-family residential development than single family development.—According to Figure 6, 66% of the housing units were built in the form of 3-unit or more projects.—The data for Figures 5 & 6 is from the CCRPC Housing database which is

gathered from e-911, assessor and zoning permit information -therefore the number of dwelling units are not the same as reported by the Census.

Group Quarters/Mobile Home.16,0%

Multi Family, 1923, 45%

Source: 2012 CCRPC Housing Database

Figure 5

To be updated

7.2-_- Characteristics of Residents

The average_household_size in 2010 was 2.39 persons_per household._This number_has gone down over the last 30 years, but now seems to be stabilizing or even on the rise._In 2010, there were 3,875 households,_and 4,009 housing_units; therefore,_134 units were vacant. The make-up_of these 3,875 households_was:

Table 11 Households in Essex Junction, 2010

Households with 2+ people:	375
Number_of families:	2,436
Number_of people living alone:	1,064
Source: U.S. Census, 2010.	

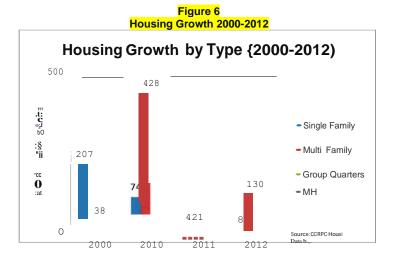
7.3 **Building Activity**

The Village has seen a decline in the development_of single-family detached housing over the last twelve years which could be linked to a diminished_land base, and since 2008, financing constraints brought on by the recession. The increase in higher density multi-family housing was made possible by zoning changes_put in place in 2000.

The intent of those zoning changes was and still is relevant.—The region had, and still has, a housing shortage, which is especially acute for affordable rental housing.—The 2001 Chittenden County Regional Plan indicated a county wide housing shortage of 1,970 units (unmet need, excluding future needs).—The current Chittenden County Regional Plan (entitled the 2013 Chittenden County EGOS Plan) also indicates an unmet need explaining a 2.6% rental housing vacancy rate in the suburban areas of the County (a healthy target may be closer to 3 to 5% for Chittenden County).—Going forward, the market is demanding—more rental housing and smaller units.

Adding housing units in areas planned for growth is the most efficient way of meeting the unmet need -rather than continuing to sprawl and spread our infrastructure—costs across a greater geographic area.—Therefore the current level of density allowed in the areas planned for growth is effective, however changes may be needed to ensure the scale, quality and design of the higher density and infill structures is what the community would consider "thoughtful growth".—In addition, it is important to note that the State Land Use planning goal includes the following: "Intensive residential development—should be encouraged primarily in areas related to community centers, and strip development along highways should be discouraged."

In light of Considering these needsneeds, the Village is working to encourage a diverse range of housing including single-family housing and to a greater degree in the last few years, multi-family housing as reflected in Figure 6.—This is discussed in more detail in Section 7.4.



7.4 Housing Cost and Affordability

Housing growth is important not only as a mechanism to provide housing that is affordable to all segments of the population, but also important for economic—stability and business retention and growth.— Essex Junction businesses rely primarily on local residents residents to support their businesses.—An increase in the number of housing units and density will increase—the market potential for local businesses.

A survey of Chittenden County employers—in 2012 found that the cost of housing was regarded as a serious problem by 74% of employers for rental housing and 62% of employers for owner housing. In fact, 83% of employers—said that the cost and availability of housing was an obstacle to economic development.

Employee turnover (i.e., the cost of lost productivity, advertising,—and the time and expense of interviewing—and training candidates) costs on average, \$13,754 per employee.—In the past three years, employers—lost an average of 2.46 recruits due to housing costs, availability, or other limitations. Employers commented that they have lost recruits and have had to spend greater sums of money in sign-on bonuses and relocation expense reimbursement—or temporary housing because there are such limited rental homes and affordable housing relative to the options candidates observed in other parts of the country.

The median value of an owner-occupied housing unit in Essex Junction in 2007 to 2011 was \$260,000 \(^1_\). The median household income was \$64,013\(^2_\). Assuming that households should not spend more than 30% of their gross income on housing costs and 5% cash is given as a down

payment, a household—would need to earn \$76,429 annually to afford a median value house in Essex Junction.—Therefore,—the median home price in Essex Junction is slightly out of reach for households earning the median income. A home that would be more affordable for the median income would be approximately—\$217,000 assuming approximately—\$18,000 cash for closing.

The median rents in Chittenden County have risen an average of 5.3% annually in the past decade, well outstripping inflation.³ As can be seen in the table below, most occupations in the area do not pay a median wage that is high enough to afford even a studio apartment. Having more than one income will help affordability;—we know that in Vermont most households—have only one, or less than one full time worker.⁴

Table 12. Chittenden—County Rental Market							
	0 bedroom	1 bedroom	2 bedroom	3 bedroom	4 bedroom		
Median rent	\$969	\$1,053	\$1,375	\$1,721	\$2,021		
Annual income needed to afford median rent	\$38,760	\$42,120	\$55,000	\$68,840	\$80,840		
Hourly wage needed to afford median rent if working full time	\$18.63	\$20.25	\$26.44	\$33.10	\$38.87		
% of workers whose occupation's—median wage is <i>less</i> than the hourly wage needed	56%	61%	75%	86%	89%		

The Village has proactively addressed—the need for affordable housing through zoning amendments and State incentive programs.— The following projects are a snapshot in time and reflect a number—ofseveral these efforts.—The following projects have been built using public funding which would require the housing to be affordable:

- 10 out of the 24 units at Village Haven at Roscoe Court (currently under construction);
- 30 units at Monarch Apartments—at 203 Pearl Street (built in 2004);

¹⁻VHFA's-Analysis of Property Transfer Tax Data

² American Community—Survey 2007-2011

³ Vermont Housing Data, Fair Market Rents 2003-2013.

⁴ US Census Bureau.

- 19 units of elderly housing at 136 West Street (built in 2005); and
- 65 units of elderly housing at 128 West Street (built in 1979).

The Roscoe Court project was approved in 2009 as a Vermont Neighborhood -the first of its kind in the State.— The Vermont Neighborhood program provides financial and permit incentives to stimulate new housing development in appropriate areas in and around designated downtowns, village centers, new town centers, and growth centers.- The benefits of the program include an exemption from Act 250 regulations for "mixed income" projects, reduced State wastewater permit fees, exemption from the land gains tax, and the conditional use permit by the local government determining that a project meets the "character of the area" criteria may not be appealed to the Environmental Court. The Roscoe Court "mixed-income"- project includes twentyfour 3 bedroom units - eighteen are detached single family homes, and 6 are duplexes for sale. The "mixed-income" requirements-include: 1. Rental Housing: 20% of the units must be allocated to people earning no more than 60% of the area median income for 30 years after construction; __and 2. Owner Occupied Housing:-_ 20% of units must be sold at a price less than 90 percent of the VHFA purchase price limits or 15 percent of owner occupied units must be sold at a price less than 85% percent_of the VHFA purchase price limits (\$275,000 in Chittenden County).—The income limits are as follows: \$70,500 for 2 or fewer persons and \$81,000 for 3 or more persons.— Participation in this program has successfully secured affordable housing in the Village.

Vermont Neighborhood Development_Program:

While the Vermont Neighborhood program is no longer offered by the State - a new and improved program titled "Neighborhood Development-Area program" is available and it "encourages municipalities- and/or developers to plan for new and infill housing in the area within walking distance of its designated downtown, village center, new town center, or within its designated growth center and incentivizes needed housing, further supporting the commercial-establishments in the designated centers."— Areas surrounding the Village Center are likely to be eligible for this program, which includes Act 250 benefits among others.- For more information_visit: http://accd.vermont.gov/strong-- co

http://accd.vermont.gov/strong— co mmunities/opportunities/revitalizat ion/vermont— neighborhoods

All of the other housing units constructed in the Village since 2000 have no requirements—to remain affordable and are subject to fluctuations in the housing market.—For example, the Riverside in the Village project was originally intended for a mix of market rate apartments, condominiums, student housing and senior housing units.—However, the project is now all market value rental apartments. The condominiums and student housing units were converted to market rate rental, and the senior housing units will not be built.

It appears the Village's decision to increase densities in 2000 and additional zoning amendments in 2011, have certainly had a positive impact on housing growth; however continued efforts for affordable housing is needed.

Essex Junction is not prepared to adopt an inclusionary—zoning ordinance at this time, but will instead focus on issues within our control that affect the affordability—of housing including housing densities, permitting,—and redevelopment. Through these efforts, the Village will work to ensure that this growth is done in a thoughtful manner—so that the existing neighborhood fabric will remain.—For example, the Village will consider zoning incentives for pocket parks and other open space amenities in housing and mixed-use—projects; and the Village will work to ensure that housing is located in areas with existing and planned support services.

7.5 Other Housing Issues

In addition to concerns regarding the balancing of the demand for housing versus regulating the impacts of new housing development,—there are a variety of other housing issues within the community—including:

- 1)- Building/fire codes
- 2)-Multi-family conversions
- 3)-_Special needs housing
- 4)-_Historic preservation
- 5)-Energy conservation
- 6)-Housing Affordability
- 7)-Preservation of neighborhood character.

All of theseThese issues are important considerations—within this Plan.—Many of these issues are included in other Plan elements.—Some areas require added studies to determine feasibility.—Specific strategies are included in the Goals section of this element.

7.6 Housing Goals

Goal 1: Provide a variety of housing opportunities for all present and future residents of the Village of Essex Junction while creating and preserving quality residential environments and existing neighborhood characteristics.

Objective1.1:	Permit innovative development strategies including commercial/residential
	developments,zero-lot lines, and transfer of developmentrights where
	appropriate— and after special review.

- Objective 1.2: Study the feasibility of adopting and enforcing uniform building and fire codes for housing.
- Objective 1.3: Promote adherence_to state energy standards and consider energy conservation_standards and alternate energy resources in all future codes.
- Objective ___1.4: Encourage__development__in established growth areas.

 Objective __1.5: Consider__zoning changes to preserve existing structures of historic village
- character along sections of major arterials and in historic neighborhoods.

 Objective 1.6: Provide a mechanism—within the Land—Development CodeLDC to encourage.
- the creation of new affordable housing.

 Objective 1.7: Maintain_allowance_for density bonuses in the Planned Residential_District for
- the construction_of affordable housing.

 Objective___1.8: Allow high density housing in major commercial_areas and maintain the R-2
- small lot single family zoning designation to allow for affordable housing.

 Objective____1.9: Compile rental registry and rental inspection program if funding is available.

 Consider zoning changes to encourage__pocket parks and other public urban

1.10: open space amenities.

Goal2: Cooperate with surrounding communities, private developers developers, and nonprofit developers to jointly create affordable housing and senior housing.

Goal3: Continue to provide adequate sites in residential areas or areas of residential character for special needs housing.

Goal4: Encourage private and public property owners of historically significant structures to maintain the historical integrity of the structures.

8. Transportation

Transportation—is an important issue to the Village of Essex Junction.—The "Five Corners" intersection presents one of the difficult traffic management problems.—The location of the railroad tracks adds to the complexity of the problem.—In addition to factors within the Village, growth in adjacent communities results in traffic increases throughout the Village.

The Village street network is essentially a grid of interconnected—streets, dead end streets make up only a small portion of local streets.—The state highways of Route 15, Route 2A, and Route 117 provide the only vehicular connections into and out of the Village.—Therefore,—they carry significant amounts of non-destination and local traffic.—The interconnected—street system allows for alternate routes to the same destination, thereby giving users of the network options for getting from point A to B.—The interconnected—local street system reduces congestion on major arterials, but increases the negative impact on local residential neighborhoods and should be discouraged.—Continuing to maintain the interconnected—street network and connect streets in new developments—is a central transportation policy within the Village.

The complexities—of the transportation—network described above require a coordinated transportation planning effort within the Village.—There are no single, simple solutions available.—It is necessary to develop a multi-stage,—multi-modal approach to transportation—planning.—Included is the street network, bicycle lanes, shared use paths, sidewalks,—the potential to pedestrianize—a short section of Main Street, the redirecting of Route 15 around the Village Center, public transit, and the possibility of rail transit.—In addition, public safety is an important consideration in any potential improvements. Such a multi-modal—approach can lead to an improved,—cost-effective—and energy-efficient transportation network.

8.1 Streets

With the exception_of the Crescent Connector,—the primary roadway network within the \(\frac{\frac{\frac{1}{1}}}{\frac{1}{1}}\) has already developed.—As new development occurs, the extension of the existing local street network will be constructed—by developers.

The primary issue, therefore, is increased traffic management,-particularly for non-destination traffic.

The influence of the first phase of the Circumferential Highway, completed in 1993, was clearly seen in reduced traffic volumes and accidents for 1995.—However, it is also clear that this reduction was temporary.—Traffic volumes at the Five Corners are increasing to levels that are higher than pre-Circumferential Highway levels.—Five Corners Traffic levels through the Five Corners are considerable as the table below reveals.—The table shows the average annual daily traffic (MDT) for state highways—that intersect there.—Many of these trips do not start or end in the Village and are considered—non-destination traffic.—New developments in adjacent communities—such as in Taft Corners in Williston contribute to the higher volumes.

Table 13. Five Corners Roadway AADT

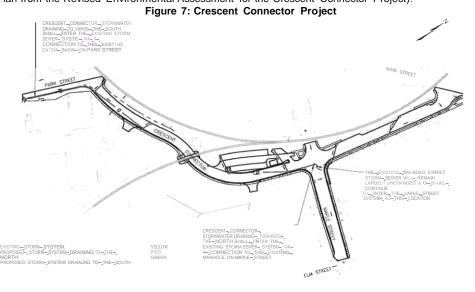
	,
Route	AADT (2010)
VT117 (Maple St)	8,000
VT15 (Main St.)	11,600
VT2A (Park St.)	16,300

Due to the growth in non-destination traffic, the Village supports alternative routes between adjacent communities along with an additional crossing over the Winooski River.—Non-destination traffic is a threat to the vitality of the Village Center where the emphasis—needs to be on local access, pedestrian mobility and safety, and aesthetics.—Increased vehicular capacity is in direct conflict with these Village Goals and therefore is not supported to the extent it would involve additional vehicle lanes and road widening.

Safety is another major concern.—The state highways of Route 15, Route 2A, and Route 117 all carry significant amounts of non-destination traffic through Essex Junction.—The high number of curb cuts along with the size and location of curb cuts contributes to safety issues, particularly—on roads with more than two lanes such as portions of Park Street near the Five Corners.—Access management is therefore an important consideration of this plan.—While the Five Corners is not a High Crash Location (HCL) as identified by VTrans' analysis, four of the five approaches are considered high crash road segments.—Only Maple Street comes in under the VTrans crash safety threshold.—See Map 4 for these high crash locations.

An important new roadway development—impacting the Five Corners is currently in design and is slated-for construction in 2015will be developed.—Called the Crescent Connector, it will link VT RT 2A south of the Five Corners northwest to Maple Street (VT RT 117) and continue across on a reconstructed—Railroad Street connecting to VT RT 15.—This new facility will improve traffic flow, provide additional parking and provide for safe walking and biking through the area. The Crescent Connector will also make possible the closing of one leg of the 5 Corners (Main Street). This is expected to decrease the average vehicle delay through the intersection by 40%, eliminate lost time (when no vehicles are passing through the intersection), increase the capacity of the intersection by 789 more vehicles per hour, and significantly decreasing the length of lines of vehicles waiting to pass through the intersection. The closure of Main Street will also decrease the distance (and number of lanes) that pedestrians will need to cross and allow for traffic to move concurrently with pedestrian crossing. While, on average, six vehicles park on Main Street in the area to be closed, several new spaces are expected to be added along Railroad Avenue.

See the sketch below for the alignment of the Crescent Connector (DuBois & King, Inc. Stormwater Plan from the Revised Environmental Assessment for the Crescent Connector Project).



An additional CIRC Alternatives—project in Essex Junction includes Pearl Street improvements from the Post Office Square intersection to the Five Corners intersection.— Essex Junction has made numerous—improvements—to Pearl Street over the past several years including completing a "road diet" project that created three travel lanes and bike lanes. These bike lanes extend from West Street to the Champlain Valley Exposition.—Improvements—considered in this study would complement—those other improvements—and further advance Pearl Street as a multimodal corridor.

8.2 Sidewalks/Bike Paths

The provision—of sidewalks and bicycle lanes and shared use paths within the Village are important transportation goals.—Essex Junction currently has 35.3 miles of sidewalk and 1.5 miles of shared use paths to maintain.—Cost and the efficient expenditure—of tax dollars on sidewalks was a major consideration in the preparation of the Sidewalk Plan and Policy in 2005 to address the existing and future sidewalk network.—The Bike-Walk Advisory Committee—is also in the process of working on a bike-walk—master plan which will help prepare for future facilities.—The Bike-Walk Advisory Committee has adopted the following vision statement:— "Essex Junction strives to be recognized as a friendly village of connected neighborhoods and destinations in which convenient—and safe bicycle and pedestrian facilities are integrated into a seamless and accessible—year-round transportation—system. This system will promote the enjoyment—and health of all citizens, a more vibrant local economy, and a cleaner environment."

The policy for the number of sidewalks—varies depending—on the road function and density.— Sidewalks will be constructed—and maintained—in the future in accordance—with the following standards:

Table 14:_Sidewalk_ Policy

Arterial Streets ________Both
Sides Collectors Both Sides
Residential Streets with a
density_greater than 4
units_per acre______Both
Sides
Residential Streets with a
density_between 1 and 4
units_per acre______One
Side
Residential Streets with a
density_of less than 1
unit
per acre
None

The Village will not actively remove sidewalks,—but would do so in association with a street or sidewalk reconstruction—project.—Several areas of the Village in low density neighborhoods would see the eventual removal of sidewalks—on one side of the street if the existing walk is no longer serviceable.—On some major arterials, sidewalks would be added.—The emphasis of the sidewalk plan and policy is to maximize—resources—while improving connections.

Bicycle facilities are another important consideration—of the transportation plan.—The Transportation Map identifies all sidewalks, shared use paths and bike lanes within the village.—The types of bike facilities include:

- Shared Use path-Independent_facility on separate right-of-way or easement, designated for the exclusive_use of non-motorized_vehicles and pedestrians.
- Cycle Track- Physically separated bicycle facility immediately adjacent to roadways.
 Can be one or two way and buffered from vehicle parking or travel way.
- 3) On Road Bicycles-_ share space with motor vehicles,-_either through shared

lane markings or a shoulder_bike lane.

Due to the built-out nature of Essex Junction it is difficult to construct a completely new shared use path.—Some combination—of all three facilities, plus sidewalks,—is necessary.—On major arterial roads such as Pearl Street the high number—of curb cuts makes a shared use path less desirable and does

not adequately address the need for local access if the path is not immediately adjacent to the street. On-street_bicycle facilities should be considered_in these areas and supported at the regional level. In addition, new recreational opportunities—will be made available to Village residents as a result.— On low density residential streets bicyclists use the road shoulder, or share the lane with vehicles, with minimal conflicts. The need for bicycle facilities is highest on major arterials where options are extremely limited for safe bicycle access.

8.3 Parking

The Village provides public parking in the Village Center District via on-street parking and off-street lots.—On-street parking is available throughout—the Main Street and Railroad Avenue area of the Village Center along with two off-street parking lots on Ivy Lane and behind the Brownell Library.—Off- street parking was added near the Park Street School_ and will be added adjacent to the Crescent Connector. In addition, the creation of the Crescent Connector will add 29 new parking spaces in the Village Center.

The Crescent Connector will also make possible the closing of one leg of the 5 Corners (Main Street). While, on average, six vehicles park on Main Street in the area to be closed, several new spaces are expected to be added along Railroad Avenue.

With the exception of Apart from the area around the train and bus station, parking within the Village Center appears adequate—at this time.—Existing public parking in the Village Center should be preserved to the greatest extent possible.

The provision of $\underline{P}_{\underline{P}}$ and $\underline{R}_{\underline{F}}$ ide lots should be considered—in the future based on regional needs.

8.4 Public Transportation

The Village of Essex Junction is served by the only Amtrak terminal in Chittenden County.—This intercity rail service consists of Amtrak's Vermonter Train, with Vermont stops in Essex Junction, Brattleboro, White River Junction, Montpelier,—Waterbury, and St Albans.—This service was established in April 1995 as a reconfiguration of the discontinued—Montrealer train from Montreal to Washington,—D.C.—The Vermonter provides one inbound and one outbound trip daily. Southbound service to New York and Washington, D.C. originates at St. Albans in the morning, returning later in the evening.—The following table provides the most recent history of ridership on this service which is experiencing rising popularity.

Table 15— AMTRAK Vermonter—Ridership, FY2005 - 2012

YEAR	2005	2006	2007	2008	2009	2010	2011	2012
RIDERS	45,207	47,307	63,299	72,655	74,016	86,245	77,783	82,086

Source: Amtrak Monthlies

The State of Vermont has been pursuing a project known as the "Albany-Bennington-Rutland-Burlington-Essex," or "ABRBE" passenger_rail project.—Reinstituting—passenger rail service connecting Rutland to Burlington was cited as the State's number two rail priority in the 2006 VTrans Rail Policy Plan (behind maintaining—the existing two Amtrak services).—However, no timetable for implementing—actual Amtrak service to Burlington from the south has been set.—More recently, restarting the passenger rail service to Montreal, suspended in 1995, has become a top VTrans priority.

Add something about the possibility of commuter rail service (Budd Cars)

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Bus service is provided by the Chittenden County Transportation Authority (CCTAGreen Mountain Transit) (GMT) on three routes. The Essex Junction route (#2) runs from approximately 6:00am to 10:00 PM with 15 minute15-minute peak hour service to Burlington from Monday to Friday, and additional service on Saturday.—This is CCTA's—GMT's highest ridership route with 1,872 average riders/weekday.—The Essex Center route (#4) runs Monday through Friday with 30-minute—headways.—This route has 94 average riders/weekday.

Commented [SS27]: Update to current stats

The Williston-Essex route (#1E) runs Monday through Friday with 30-minute peak hour headways. This route has 105 average riders/weekday.—__CCTA's_GMT's_Transit Development__Plan calls for_several-a number of improvements including:

- More evening and Sunday service
- Elements of Bus Rapid Transit on VT 15 (and US 2) including 10-minute peak service, 45-minute 15-minute midday service; enhanced shelters; transit signal priority; queue jumpers; and passenger information
- Focus on land use coordination and Transit Oriented Development/Pedestrian Oriented Design efforts
- Upgrade service to Essex Way
- · Connect Susie Wilson area with Essex Junction

The implementation of new services or enhancements—to existing services is dependent—on several factors, including available funding, community support, and projected service productivity and cost-effectiveness.—The CCTA—GMT_Board of Commissioners considers all these factors when deciding which services to advance. Because there is a local match funding requirement for all services, local community support is a key component without which it would be very difficult to implement even the most productive of services.—From a pure productivity—and cost-effectiveness—standpoint, investing resources in areas with highest density and greatest mobility needs are likely to produce the best returns in terms of ridership and revenue.—For example, when service was increased to 15-minute peak headway on the Essex Junction route, there was a 30% increase in ridership.—Expansion of service hours is likely to be the next most cost effective improvement, over extensions to new locations.

Support of the existing public transportation—system and additional improvements—to the public transportation—system are important to accomplishing other community goals.—Public transit access to places of employment—and to major shopping centers may help to alleviate traffic congestion and can contribute economic development—efforts.—New construction and reconstruction—should consider public transit access early in the design process.—To maximize the public resources already devoted to the existing public transportation—system, consideration should be given to locating new facilities

along or in close proximity to near current public transportation routes.—<u>CCTA's GMT's Transit Development</u>—Plan

(TOP) calls for coordination—with municipalities—on focused development—along transit corridors with pedestrian-oriented design.—Other important issues include the consideration of bus stops and passenger—shelters when developing—new facilities or re-developing—properties.—<u>CCTA's—GMT's_TOP</u> helps support Essex Junction's land use plan, just as Essex Junction's land use plan helps support improvements—to the <u>CCTA—GMT_service</u> through higher density and mixed uses in the Village.—The Village should continue to work with local representatives to encourage the <u>CCTA—GMT_Board</u> to pursue these issues.—The <u>CCTA—GMT_service</u> is managed—by a Board of Commissioners with one representative—from the Town of Essex.

8.5 Air Pollution/Energy Conservation

Air pollution, energy conservation and land use are important transportation_issues.—Increased use of public transit and bikeways—will reduce pollution and save energy.—Therefore, these benefits should

be considered when any improvements—to the transportation—network and land use changes are considered.—The elimination—of cars is not possible, but the elimination of unnecessary—trips and increasing transportation options are an important first step.—Reducing wait time and thus vehicle idling at congested locations'—such as the Five Corners through design improvements—such as pedestrianizing—a short section of Main Street while enabling vehicles to more—more efficiently

Essex Junction Comprehensive Plan 2014 thorough the Village Center is an important component—of any policy that aims to reduce air pollution and increase energy conservation.

8.6 Transportation Goals

Goal1: Support the completion of the Circumferential Highway.

Objective 1.1:	Provide alternate routes for non-destination traffic.
Objective_1.2:	Do not support capacity increases on state highways in the Village that involve
	additional vehicle lanes.
Objective 1.3:	Emphasize-local access, public transit, bicycle facilities, pedestrian safety and
	access, and aesthetics in future streetscape-projects.
Objective 1.4:	Reduce idling at the Five Corners by considering_pedestrianization_of a

short section of Main Street to create a crossroads—intersection.

Objective 1.5: Redirect Route 15 to Susie Wilson Road and Route 289 to reduce nonnon-

destination_traffic in the Village.

Goal2: Monitor, evaluate and implement traffic management practices on a continuing basis.

Objective 2.1:	Monitor annual traffic counts and accident data.
Objective 2.2:	Review all development proposals to minimize traffic and pedestrian safety concerns.
Objective 2.3:	Where feasible, reduce the number and size of non-conforming—curb cuts during development review
Objective 2.4:	Encourage—the use of joint access driveways—and shared parking lots when physically—possible.
Objective 2.5:	Monitor the timing and sequence of all traffic lights to optimize traffic and pedestrian safety.
Objective 2.6:	Cooperate_with adjoining communities_to develop strategies to minimize traffic increase_within the Village resulting from development_beyond the Village limits.
Objective 2.7:	When possible,—avoid dead end streets.—Connect new streets into the existing street network from at least two points.
Objective2.8:	Request that neighboring_communities_require major development_proposite include traffic impact analysis at the Five Corners and that traffic analysis

Objective 2.9: Study and consider options for managing—traffic at the high crash locations near the Five Corners indicated on the Transportation Map.

be submitted to the Village for review.

Objective_2.10: Implement_the Village Sidewalk Plan and Policy

Goal3: Facilitate the use of sidewalks as a viable transportation alternative.

Objective 3.1:	Review all development proposals for the efficient use of sidewalks.
Objective 3.2:	Consider_alternative standards for sidewalks_based upon location
	and potential usage.
Objective 3.3:	Encourage school age children to walk or ride a bike to school to reduce traffic
	congestion.— Encourage enrollment—in the Vermont Safe Routes to School
	Program.
Objective 3.4:	Utilize all traffic calming techniques—and strategies available.

Goal4: Review and implement_parking strategies_consistent with other planning purposes.

Goal 7:	Coop Corn	perate with the State of Vermont to locate air quality monitors at the Five ters.
Objective	6.5:	Continue to support elders and disabled transportation—programs.
Objective	6.4:	the CCTA_GMT to encourage—education programs on the benefits of using public transportation.
Objective Objective		Encourage the use of bus turn-offs and shelters on major streets. Encourage the State of Vermont to develop tax measures which support alternative transportation and reduce pressure on the local property tax. Cooperate with
Objective		Cooperate with <u>CCTA_GMT</u> to increase access to bus routes including higher frequencies during peak hours.
·	0.4	
Goal <u>\$6</u>	Enco	ourage increased usage of the public transportation system.
Objective	5.6:	sources and conduct bike/ped <u>estrian</u> education to encourage—safety and visibility. Encourage the donation of land, laberlabor, and monies for the implementation of the shared use paths.
Objective Objective		Include shared use paths as a component—of the Capital Budgeting process. Utilize Bike-Walk Advisory Committee to recommend—projects, pursue funding
Objective		Pursue the use of Federal and State funding for construction—of shared use paths and bicycle lanes.
Objective Objective		Consider bicycle access in the review of all development_proposals. Consider the construction_or signage of bicycle lanes on all future street construction—projects.
Goal5:	trans	note and implement strategies to encourage the use of bicycles as alternate sportation modes.
·		racks at major activity centers such as shopping centers.
Objective	4.6:	close proximity tonear the Village. Consider policies to require or encourage—the installation of bicycle parking
Objective	4.5:	which may include off-site parking, or other alternatives. Cooperate with adjacent communities to locate commuter facilities in or in-
Objective		Review all parking requirements—and develop revised parking requirements
Objective Objective		Encourage bus and pedestrian access to all parking facilities. Develop long-term strategies for parking demand within the Village Center.
Objective		Encourage quality site design and landscaping for all new parking lots.

GoalS8 Cooperate with state and regional entities pursuing efforts to establish

air Pollution Standards.

Objective 7.1:

Objective 7.2:

potential commuter—rail service and an international passenger rail connection to Montreal that will go through Essex Junction.

Require applicants with potential emissions to obtain necessary state or federal permits prior to any local approvals.

Work with state and regional officials to ensure the uniform enforcement of all

Objective 8.1: Appropriate_upgrades_to the existing station and the surrounding_areas to

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meet future needs.

9. Land Use

The livability and viability of any urban area are largely dependent—on the pattern of land uses within the community.— Transportation—efficiency (and safety), the accessibility of various activities (i.e. shopping, entertainment,—etc.), and the quality of residential neighborhoods—are determined in many cases by land use patterns.—The land use element is thus a "vision" for future development or redevelopment within the community.—The vision was refined in this Plan update to reflect the Heart & Soul values identified by the residents -with particular emphasisemphasis on Thoughtful—Growth.—This Plan supports the Thoughtful Growth value by calling for continued accommodation of tight-knit neighborhoods, a vibrant downtown, diverse housing options, and a transportation—system that includes a path network for pedestrians and bicyclists.

This Plan supports other Heart & Soul values, as well.—The Local Economy will be supported by a healthy infrastructure—and locations for existing and future businesses.—The emphasis—on tight-knit neighborhoods will foster Community Connections.—Well-marked bike and pedestrian lanes will encourage—Safety by allowing residents to comfortably—and securely navigate the community.—Parks and trails will help provide a basis for Health and Recreation,—in addition to the community's—largest open spaces in the Town.

In addition, this Plan helps support the larger regional land use goals by concentrating—new growth in areas already developed,—and thereby helping to minimize sprawl and protect the more rural areas of the County for working lands and environmental—resources.— Specifically, the *Chittenden—County EGOS Plan* includes the following strategy: Strategy 2: Strive for 80% of new development in areas planned for growth, which amounts to 15% of our land area.—The *EGOS Plan* takes a high level view of the land area in the County and therefore considers—Essex Junction in its entirety to be a growth area.—However, the concept is similar at a smaller scale within Essex Junction where the Village Center, surrounding—mixed use, commercial_—and industrial districts are areas planned for growth; the surrounding—residential areas are intended to remain at similar densities; and the Whitcomb Farm and public parks are protected (or in the process of protection) from future development.— This Plan also identifies several steps to ensure that new growth is done in a manner that will create safe and inviting streetscapes,—vibrant commercial—and residential opportunities,—and respect of the Junction's historic fabric.—For example,—the Plan calls for an enhanced—community discussion—and design charrette to develop design standards for the Village Center and surrounding—areas.

This chapter first describes the existing characteristics—throughout the Junction, and then describes the future land use goals and the specific regulations—in place to achieve those goals.—The goals also describe changes to the existing regulations where needed.

9.1 Existing Land Use

The existing generalized land use pattern within the Village is indicated on Map 9.—This existing land use pattern will, to a large degree, direct the future land use pattern.—An analysis of the existing land use pattern leads to the identification—of several areas with distinct characteristics.—Chapter III also provides a detailed summary—of historic development patterns within the village.—These generalized areas are discussed individually below:

1) Village Center-While Lincoln Hall dates from the early nineteenth century (it was originally built as an inn), most of the buildings in the commercial center of the Village date from the late nineteenth—and very early twentieth centuries.—In the commercial core of the area, the buildings are typical turn-of-the-century commercial types.—They are built to the front sidewalk lines and cover a very high percentage—of their sites.—Frequently, they share common walls

with their neighbors.—On the front facades their first floors contain glazed storefronts which add to the pedestrian sense of the area.

The buildings are predominantly—two story structures with a pronounced horizontal frieze below the cornices.—The cornices tend to be heavily decorated with brackets, dentils, etc.—In addition, the larger buildings (which tend to be brick) have a strong horizontal band at the second—floor_level.—Visually, this gives the buildings a horizontal orientation which adds a sense of scale to the area.

The wood frame buildings (such as those on the east side of Main Street) do not, or no longer, have this decorative treatment,—and have vertical orientation and a somewhat different scale.—This is partially mitigated by the fact that the lower floors have glazed store fronts and the tops of the store windows form a horizontal visual element.

In summary, the principal architectural features which create this area's sense of scale and identity are as follows:

- 1.—Zero front yard setback and high site coverage.
- 2.- Glazed storefronts- on the first floor.
- 3.- Flat roofs with a strong horizontal frieze below cornices.
- 4.- Strong horizontal band at second floor level.

Moving out slightly beyond the commercial core of the area, the architecture changes significantly.—Most buildings in this area were constructed—as residences—during the same period as the commercial—structures,—but the prevailing—residential styles at the time were variations on Victorian.—Thus, the residential buildings tend to be two-and-one-half story structures with gabled roofs, frequently with ells and other protrusions forming complex roof forms.—Where still present, roof shingling patterns are quite decorative.—Many of the buildings are oriented with gable ends towards the street.—The facades of these residential structures reflect considerable decoration,—with porches, decorative arches and supports, cutaway bay windows with brackets,—eave brackets and cornices.—Finally, the buildings tend to be set back with lawns between them and the street, and have lawns separating them from their neighbors.—Some of these structures have been converted to non-residential use while retaining their original architectural—appearance.

In summary, the architectural_features which make this area unique in the center of the Village are as follows:

- 1.-_ Modest lawn separating-_the buildings from the street and from each other.
- $2.-_$ Complex facades with porches, projecting windows,-_ells and ornamentation.
- 3. Complex roof forms with steep pitches, gables, and dormers.

Even though the commercial and residential buildings date from roughly the same era, the different architectural treatments—created a distinct delineation between what was the original commercial portion of the Village and the residential area surrounding it.—While many of the old residences—are now used for commercial activities, their areas remain qualitatively different from the commercial core of the Village.

In most <u>eases_cases</u>, there is no parking between the buildings and the street, and this adds considerably to the intimacy and pedestrian orientation of the Village Center.

The Junction also benefits from a Village Center Designation -the boundary is included on Maps 9 and 10.—With the Village Center Designation, building owners, lessees, and the municipality—are eligible for the following benefits: historic tax credits; fac;ade improvement tax credits; code improvement—tax credits; priority consideration—for HUD, CDBG, and Municipal Planning Grants; priority site consideration—by State Building and General Services when leasing or constructing—buildings;—and the option to create a special assessment—district to raise funds for both operating and capital expenses to support specific projects in the designation. This designation provides the Village and building owners with assistance in maintaining—and restoring historic structures, thereby preserving—the historic fabric of the Village- a goal identified in numerous chapters of this—Comprehensie Plan.

The designated Village Center District credits are best suited if used as part of a holistic 'package'—approach of both private and public investment.— The Village Center has seen very little private investment in the last 20 or 30 years as there has been no 'package' to attract investment.

During times of economic—constriction investment in public infrastructure—attracts private investment.— Up to now the Five Corners traffic has been a disincentive to private investment – people avoided the area rather than sought it out.— The potential to make the Village Center more pedestrian friendly via a short pedestrian section, along with the Connector Road, will alleviate private investment—concerns.— With the energy that is evident in the Village Center, current and future property owners have expressed—interest in the tax credits made available through this designation.

The designated Village Center is a critical component—of the Village's new proactive urban design approach to land use and transportation—management. Urban regeneration without the designated Village Center benefits will be extremely unlikely.—The historic Village Center has many buildings that need Code updates if they are to be developed including new sprinkler systems, emergency—access, fac;ade improvements,—etc.

The recent rebuilding and upgrade of 8 Railroad Avenue is an example of an improvement that would not have happened_without the designation credits.—Many of the other buildings in the Center are under long term ownership and only now are investors looking at properties with an eye to sustainable—development, both environmentally—and fiscally.—The recent-purchase of the Peoples United Bank at Five Corners is a sign of investment and residency coming back into the center. These 51 apartments and street level stores will be the beginning of a regeneration of the Center that will enable the Center to become vibrant onceagain.—Given the foregoing the Designation can be used to energize the whole of the Village-Center in a holistic approach that can be a model for Vermont.

In the future, there may be some benefit in extending the Village Center Designation down the Pearl Street District may be beneficial.—In addition, the Junction could build upon the Village Center Designation with a Growth Center Designation—which would provide the landowners—and municipality with additional benefits to support growth within the Village, and possibly the IBM campus-Innovation Park.

2) Summit Street to Five Corners -This area has maintained a residential character. Although some residential__structures__have been altered for business purposes, much of the original structural detail remains.__ Commercial__conversions__are limited to low traffic volume professional__offices.__The northerly__side of Pearl Street along this section of Pearl Street contains single family homes of traditional and historic value.__These structures are worth protecting against conversion to office or apartment uses.—This section of Pearl Street should be rezoned to R-2 District.

- 3) Pearl Street from Summit to Willeys Court- This area is typified by intense commercial development—with multiple curb cuts.—There is a mixture of building types, colors, materials, and signs.—The more recent construction—is dominated by increased landscaping—and more efficient site design which stands in marked contrast to the older structures.—The only area of significant historic value is the Champlain Valley Exposition Fairgrounds—which is dominated by open space and significantly different types of structures.
- 4) Susie Wilson Road to Willeys Court- This area is dominated by conversions—to small businesses,—professional—offices and apartments.— This area was recently re-zoned from HC to MF/MU-1 in recognition—of its transition from single family uses to apartments—and less intense business uses, and as an extension of the Pearl Street Corridor.
- 3) Indian Acres Area -This area is dominated by well_-maintained single family dwellings on small lots.—Several properties have been converted to duplexes or dwellings with accessory apartments.
- 4) **Warner Avenue Area-** This neighborhood has maintained a single_-family residential character.—. No multi-family—conversions—have been located.
- 5) **Prospect Street Area** This neighborhood has a mix of structures, some of historiceal significance.—Some multi-family—units and duplexes have been established.—Several large residences—help establish a unique character to the neighborhood.
- 6) Village Center Neighborhood -The areas adjacent to the Village Center have been in transition.—There is a mix of single_-family, duplex and apartment dwellings.—Many lots are large enough to be subdivided.—The type of development—which has occurred in this area may lead to pressure for further single_-family conversions.—Consider zoning changes to distinguish these residential and low intensity commercial areas from the core commercial—areas in the Village Center District.
- 7) Brickyard Area -This area is dominated by multi-family and condominium development. There is no vacant land available for future development.
- Countryside and Rivendell Both of theseBoth areas are dominated by newer residential structures on large lots.—Virtually no multi-family—conversions—have occurred.
- 9) Park Street Corridor-This area has been in a state of transition.— Properties nearest the Five Corners have been converted to multi-family—and commercial—development.— Property south and west of South Street has maintained—a single family residential character with the presence—of several large older homes.—The east side of the corridor has seen substantial conversion—to multi-family—and two-family dwellings.
- 10) Maple Street Corridor- Properties—from the Five Corners to Mansfield Avenue have been in transition with several conversions—to duplexes.— From Mansfield Avenue to the Village limits, and single-family—residential character has been maintained.—To preserve the single family—character—of this corridor, it should be rezoned from RO to R-2 from Mansfield Avenue to Elm-Street. Accordingly, further conversions of single family to multi-family in this area should not be allowed. This area is zoned R-2 and no more multi-family units are permitted.

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- 11) **Main Street Corridor-** Lower Main Street to the Village Center has largely converted to multi-family and two-family dwellings.—Some dwellings—are commercial or are used for home occupations.—The upper portion of Main Street, particularly—the westerly section, is primarily residential, and should remain as such because a primary goal of the plan is direct growth to the Village Center and commercial—and multi-family—areas.
- Lincoln Street Corridor-This area has several large lots, a mix of uses including residential, commercial,—offices and public/quasi structures.
- 13) **Fairview Farms** -A relatively new residential area, with 99 lots and 10 acres of open space.
- 14) Whitcomb Heights -276 residential units have been built on the original Whitcomb Farm. The Vermont Land Trust, with funding assistance from the Village, purchased development rights on 271 acres of the Whitcomb Farm in March 2014.—Additional development—rights are planned for purchase—on approximately 143 acres, pending funding in 2015.—Construction is anticipated to begin in the summer of 2014 on a solar energy project.

9.2 Future Land Use

Essex Junction faces the challenging task of planning in a mostly developed community.—The issues that face the community today are complex, and have been detailed throughout this Plan.—The Future Land Use Map (Map 10) is the fundamental element of the overall Comprehensive Plan.—It represents—the proposed distribution—of land uses within the Village.—While there are several changes, the Future Land Use Map generally follows existing patterns of development, but may allow for greater densities and building heights in certain core mixed-use—zoning districts.—The Plan calls for proper design so that the increase in density and height does not feel out of character with the existing fabric of the Village. This approach should be guided by the conceptual design presented in the Design 5 Corners report. While this conceptual design cannot be implemented "as is" (the Village cannot mandate privately-owned developments), it can be used as a general template for evaluating proposed development with the values of the community.

Equally important as the Land Use Map are the individual Plan elements.—These establish guidance and details necessary to achieve desired changes.—The interdependence of these elements cannot be over-emphasized in that all must be consistently adhered to if the—overall Plan is to remain viable. Thus, the Land Use Map is not just a physical depiction of desired land use, but is the culmination of detailed analysis of all factors related to the future growth and development—of Essex Junction.

This Plan Element encompasses three major sections:

- Land Use Goals -The Land Use Goals provide general guidance to the development of future land use categories.—They establish the context in which future land use categories and the Future Land Use Map are developed.
- 2) Land Use Categories -The Land Use Categories provide specific guidance to interpreting the Future Land Use Map.—They establish the intent of the various mapped area, and describe the general range of uses and provide guidance for development of implementation measures.
- 3) Future Land Use Map -The Future Land Use Map represents future land use patterns for the Village.—It is the key document—necessary for the creation of Zoning District Boundaries.

9.3 Land Use Goals

Goal 1:-_-_-Provide_sufficient locations within the Village to accommodate a variety of land uses including public, quasi-public, residential, retail, commercial and industrial uses.

Objective 1.1: Consider redefining zoning district boundaries—of the Village Center to address differences in land development—patterns between the core commercial—areas

and the residential neighborhoods.

Objective_1.2: Encourage the development of a variety of residential units in the

Village Center and Pearl Street Districts.

Objective 1.3: Study the purchase of key properties in and around the Village Center for

public use.

Goal2: Promote_responsible residential growth and encourage the growth and

maintenance of quality-residential areas.

Objective_2.1: Conserve_open space/agricultural land for future generations.

Goal3: Mitigate- negative- impacts of contiguous but different land uses.

Goal4: Ensure that quality-land planning and structural design-occur in all

commercial and industrial areas in a manner-compatible with surrounding

architecture.

Goal5\$ Coordinate land use decisions with associated public infrastructure needs

including streets, sidewalks, bicycle paths, drainage, water, sewer, schools,

recreation, and other public needs.

Provide_mechanisms which encourage innovative development while

Goal<u>6</u>& maintaining the existing urban character of the Village.

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Objective 6.1: Consider_overlay districts and development agreements, - and enact

design review as a means to \underline{to} achieve innovative—development.

Objective 6.2: Consider_the inclusion_of visuals within the Land Development_Code to

make the design standards clear for developers—and residents.—Engage the public in development of these visuals to gain consensus—on design standards

for the Village.

Objective 6.3: Promote use of the Village Center Designation_benefits.

Goal 7: Coordinate development with adjoining communities.

Objective 7.1: Initiate communication with surrounding-_communities-_to discuss

development impacts on land use and planned compatibility.

Goal8: Coordinate needed public improvements with the development review

process.

Goal 9: Prevent development of land which—is environmentally unsuitable for construction.

Goal10: Design-new street layouts to minimize both overall street length-and the

quantity of site grading required. When possible, connect new streets through

to existing streets to increase connectivity.

Goal11: Place a high priority in development review on pedestrian and vehicle

access-and safety.

Goal12: Protect and enhance sensitive and important areas.

Objective 12.1: Consider design review criteria for main corridors upon approach to the Village

Center (such as Pearl St. from CVE to 5 Corners).

Objective 12.2: Analyze and prioritize historic resources to determine which sites and

structures should be preserved.

Objective 12.3: Consider zoning changes or historic district overlay to preserve existing

residential structures of significant historic character along major arterials and

in historic neighborhoods.

9.4 Land Use Categories

9.4.1 RESIDENTIAL 1

Intent: To provide areas for large lot single family residential dwellings and accessory

residential uses.

Density: 15,000 sq. ft. lots exclusive of right-of-way.

Range of Potential Uses:

Single family dwellings,—accessory apartments, parks, non-commercial recreation facilities, public and quasi-public uses, planned residential development.—Existing public school facilities may be converted to elderly housing upon Site Plan Review. Emphasis shall be placed upon maintaining—existing open space and recreation facilities.—No more than ten percent of existing school buildings may be converted to school offices or administrative facilities.—Other public uses may be approved upon Special Review.

Other Information:

Density bonuses may be given for Planned Residential Developments—with unique design proposals.—Zero lot-line houses,—clustering, and townhouses may be permitted upon special review with a planned residential application.—No more than 30% of residential uses may be other than single-family,—detached dwellings.—Planned Developments—shall include developed—recreation facilities, bike and pedestrian paths. Projects which provide affordable housing shall be entitled to a density bonus, if long term affordability is guaranteed.

9.4.2 RESIDENTIAL 2

Intent: To provide areas for high-density single family dwellings and accessory residential

uses.

Density: 7,500 sq. ft., exclusive of right-of-way.

Range of Potential Uses:

Single family dwellings,—accessory apartments,—parks, non-commercial recreation facilities, public and quasi-public uses, planned residential development.—Existing public school facilities may be converted to elderly housing upon Site Plan Review. Emphasis shall be placed upon maintaining—existing open space and recreation facilities.—No more than ten percent of existing school buildings may be converted to school offices or administrative—facilities.—Other public uses may be approved upon Special Review.

Other Information:

Density bonuses may be given for Planned Residential Developments—with unique design proposals.—Zero lot-line houses,—clustering, and townhouses may be permitted upon special review with a planned residential application.—No more than 30% of residential uses may be other than single-family, detached dwellings.—Planned Developments—shall include developed—recreation facilities, bike and pedestrian paths. Projects which provide affordable housing shall be entitled to a density bonus, if long term affordability—is guaranteed.

9.4.3 PLANNED COMMERCIAL DEVELOPMENT

Intent: To provide a mechanism to review major commercial developments—and encourage

• innovative approaches—to commercial development.

Density: Applications may be made in any commercial zone which has development_limitations

including,-but not limited to, narrow lots, limited access,-and drainage problems.- Any proposed development,-or re-development,-which exceeds 2,500 sq. ft. of

commercial space shall require application for a Planned Commercial Development.— Waivers to this requirement—may be granted by the Planning Commission.

Range of Potential Uses:

All uses permitted within the applicable zoning district.—A mix of residential, retail and

office uses is encouraged.

Other Information:

Planned Commercial Developments—shall emphasize—innovative design.—Zoning District provisions,—including—setbacks, parking and lot coverage may be waived by the Planning Commission.—Waivers may be granted only upon review of building design, lot layout, landscaping,—setbacks, and amenities.—Joint access, landscaping—and compatible design are of particular importance.—A determination must be made that these improvements—mitigate waiver of any District standards.

Application requires—a Conceptual Site Plan Hearing.—The Planning Commission—will determine the merits of the application during Conceptual Review.—Upon approval,—a Final Site Plan is required which must be in substantial compliance—with conceptual approval.

9.4.4 MULTI-FAMILY RESIDENTIAL 1

Intent: To provide areas for multi-family—residential (townhouses,—condominium—

and apartments with 4 or more units) and accessory residential uses.

Density: 7,500 square feet for the first unit and 5,000 square feet for each additional unit in the

same structure

Range of Potential Uses:

Single family dwellings,—accessory—apartments, parks, non-commercial recreation facilities, public and quasi-public uses, planned residential development.— Existing public school facilities may be converted to elderly housing upon Site Plan Review. Emphasis shall be placed upon maintaining existing open space and recreation facilities.— No more than ten percent of existing school buildings may be converted to school offices or administrative facilities.—Other public uses may be approved upon

Special Review.

Other Information:

No new multi-family_1 areas will be established.—Current facilities may be repaired, remodeled—or replaced,—but there can be no increase in number of units.

9.4.5 MULTI-FAMILY RESIDENTIAL 2

Intent: To provide areas for construction if new multi-family residential dwellings and

accessory residential uses.

Density: One unit for the first 7,500 sq. ft. and one unit for each additional 1,500 sq. ft.

Range of Potential Uses:

Single family dwellings,—accessory—apartments,—parks, non-commercial recreation facilities, public and quasi-public—uses, planned residential development.—Existing public school facilities may be converted to elderly housing upon Site Plan Review. Emphasis shall be placed upon maintaining existing open space and recreation facilities.—No more than ten percent of existing school buildings may be converted to school offices or administrative—facilities.—Other public uses may be approved upon Special Review.

Other Information:

Five or more units may require Special Review.—Screening,—Iandscaping and parking shall be designed to minimize impact on adjacent properties.—Projects which provide affordable housing shall be entitled to a density bonus if long-term affordability is guaranteed.

9.4.6 MULTI FAMILY RESIDENTIAL 3

Intent: To provide areas for low-density_multi-family_dwellings.

Density: One unit for the first 7,500 sq. ft. and one unit for each additional 1,000 sq. ft. to a

maximum_of 4 units.

Range of Potential Uses:

Single family dwellings,—accessory—apartments, parks, non-commercial recreation facilities, public and quasi-public—uses, planned residential development.—Existing public school facilities may be converted to elderly housing upon Site Plan Review. Emphasis shall be placed upon maintaining existing open space and recreation facilities.—No more than ten percent—of existing school buildings may be converted to school offices or administrative—facilities.—Other public uses may be approved upon Special Review.

Other Information:

Single family dwellings—and accessory—apartments are permitted uses.—Duplexes, triplexes and quadraplexes may require Special Review.—Screening, landscaping, and parking shall be designed to minimize—impact on adjacent properties.—Projects which provide affordable housing shall be entitled to a density bonus, if long-term affordability is guaranteed.

9.4.7 TRANSIT ORIENTED DEVELOPMENT

Intent: The purpose of the Transit Oriented Development District (TODO) is to encourage development that supports a variety of transportation—options including public transit

(bus, rail), walking, __biking, and the automobile.

<u>In order toTo</u> achieve the desired goal of providing—greater transportation—options, development within the district shall embody the characteristics of compact urban development and pedestrian oriented design.—Mixed use buildings with first floor retail, wide sidewalks,—interconnected—streets, on-street parking, high density residential development,—pedestrian amenities, transit stations and stops, open spaces, and public or shared parking are strongly encouraged and in many cases required as a part of the standards within the TODD District.

The area within the TO $\underline{\mathbb{D}}$ \mathbb{Q} District is currently served by public bus transportation.—In addition, the TO $\underline{\mathbb{D}}$ \mathbb{Q} District is adjacent to an active rail corridor, which may be used for light rail service in the future.—A bike path is also planned for the rail corridor. Therefore,—the TO $\underline{\mathbb{D}}$ \mathbb{Q} District is in an ideal location to provide greater transportation options.

The specific objectives of the TODO District are:

- Create an environment—that is conducive—to using public transit, walking, and riding a bike
- Accommodate a mix of uses in a form that attracts pedestrians
- Integrate commercial,—institutional, and residential development into a compact development pattern arranged around a street grid
- Provide pedestrian amenities and open spaces to create a comfortable and attractive environment
- Provide public, shared parking, and/or park and rides to accommodate automobiles,—but will not detract from the pedestrian environment
- High Density Residential Development
- First Floor Retail
- Encourage—the use of Tax Increment—Financing to support public improvements in the district.

Density: No density limit.—Density will be based on ability to provide parking and meet other district requirements including lot coverage—and building height.

Range of Potential Uses:

Multi-Family, __Office, Retail, Banks, Restaurants, __Cultural Facilities, Personal Services.

Other Information:

Development and redevelopment_in the TODO District is intended to be more urban than most of the existing development patterns within the district.—The TODO District is intended to support development—patterns that are similar to those found in the Village Center District.

9.4.8 MULTI-FAMILY/MIXED-USE-1

Intent:

The Multi-Family/Mixed-Use-1 District is intended to allow high density multi-family development along low intensity commercial uses along major transportation and public transit corridors.—High Density, Mixed Use developments—and affordable housing with parking below grade or on the first floor of the building are encouraged. Development in the MF/MU District should support alternative modes of transportation, while accommodating the automobile.—Developments—within this district

should be designed in such a way as to build upon the village character found in the core areas of the Village.

Density: No density limit.—Density will be based on the ability to provide parking and meet other

district requirements-including lot coverage and building height

Range of Potential Uses:

Multi-Family,-_Office, Retail, Banks, Restaurants,-_Personal Services

Other Information:

Mixed use redevelopment including multi-family—housing is encouraged.— Commercial uses should be on a neighborhood scale and support the local residents.

9.4.9 MULTI-FAMILY/MIXED-USE-2

Intent: The Multi-Family/Mixed-Use-2 District is intended to allow high density multi-family

development along low intensity commercial—uses along major transportation—and public transit corridors.—High Density, Mixed Use developments—and affordable housing with parking below grade or on the first floor of the building are encouraged. Development in the MF/MU-2 District should support alternative modes of

transportation,—while accommodating the automobile.— Developments—within this district should be designed—in such a way as to build upon the village character found in the

core areas of the Village.

Density: 15 units per acre

Range of Potential Uses:

Multi-Family,-_Office, Retail, Banks, Restaurants,-_Personal Services

Other Information:

Mixed use redevelopment including multi-family—housing is encouraged.—_ Commercial uses should be on a neighborhood scale and support the local residents.

9.4.10 PLANNED RESIDENTIAL (where applicable)

Intent: The objective of planned residential developments—is not simply to allow exceptions to

otherwise applicable—regulations. It is instead to encourage—a higher level of design and amenity than it is possible to achieve under the usual land development requirements.—In addition, density bonuses may be granted if the development proposal preserves—natural resources, preserves solar access, renewable energy generation, preservation or donation of open space, provides recreation facilities, constructs bike path connections,—innovative design, and affordable housing in

perpetuity.

Density: Density is established by the underlying zoning district but may be increased based

upon specific criteria to be developed.

Range of Potential Uses:

Single family dwellings,—accessory—apartments,—parks, non-commercial recreation facilities, public and quasi-public uses, planned residential development.— Existing public school facilities may be converted to elderly housing upon Site Plan Review.

Emphasis shall be placed upon maintaining existing open space and recreation facilities.—No more than ten percent of existing school buildings may be converted to school offices or administrative facilities.—Other public uses may be approved upon Special Review.

Other Information:

Any proposed commercial or business uses must meet neighborhood—commercial criteria.—Multi-family uses shall not exceed 30% of the total residential uses and must be specifically approved on a case by case basis.—Zero-lot lines, cluster development and other innovative housing techniques are encouraged and must be approved on a case by case basis.—Density bonuses not to exceed thirty percent may be granted for affordable housing or elderly housing projects.—Certain street, highway and lot size requirements may be waived if alternatives are equal or superior to standard requirements.—All proposals shall consider pedestrian and bike path usage. Recreational—facilities, dedication of usable open space and park development may be required.—All development proposals must be reviewed and approved as a Conceptual Plan.

9.4.11-VILLAGE CENTER

Intent:

To provide a compact commercial center with a mix of commercial and residential uses which is compatible with existing architectural and design standards.—<u>Blt is not-anticipated any buildings</u> greater than four stories in height <u>cannot be would be built</u> in the Village Center.

Density:

Minimum lot size is 5,000 sq. ft.—Some intensive commercial uses may require larger lot sizes.

Range of Potential Uses:

Hotel, offices, retail uses, restaurants, personal services, single family, multi-family dwellings,—public and quasi-public—services and amenities.—Mixed use of structure is encouraged.

Other Information:

Creation or preservation of affordable housing within this area is encouraged. Emphasis is placed upon pedestrian and bicycle access to the commercial center. Design criteria may be developed to encourage construction similar to existing structures.—Setbacks, parking and other requirements—will be drafted to encourage development—similar to existing development.—Special Review may be required within the designated Village Center area. Site plan and design considerations—are an important aspect of our historic Village Center District.—Safety and the ability to walk and cycle in the area are increasingly important.—The ability to efficiently move traffic while creating safe pedestrian routes, vibrant commercial and residential opportunities, and appropriate parks and green space will create an environment that is welcoming—to residents and visitors alike in an area currently dominated by traffic. Additional density/waivers—may be available for proposals that incorporate public space as part of a Village Center District development application.—The public space may take the form of a discrete area, or preferably form part of a chain of public spaces that will be created over time.

9.4.12 RESIDENTIAL-OFFICE

Intent: Provide areas for small office conversions of existing residential structures while

maintaining-residential type architecture.

Range of Potential Uses:

 $Professional__offices\ with\ associated\ retail\ uses,\ photography\ shop,\ copy\ shop,\ frame$

shop, single family, art studio, residential, _multi-family residential, etc.

Density: Minimum_lot size is 7,500 sq. ft. for the first residential or office unit and 500 sq. ft. for

each additional residential unit.—However,-Iot must meet lot coverage, parking,

setback and building location criteria.

Other Information:

Single family and multi-family not to exceed 4 units are encouraged—and are permitted uses.—Multi-family—must meet parking, landscaping,—screening requirements—and must preserve—residential integrity.—Projects which preserve affordable housing, or provide joint access and joint parking with adjoining lots may qualify for development bonuses. Existing residential structures may be removed upon Special Review if proposed new structures are designed and constructed to maintain residential character and scale. Conditions—may be placed upon any Special Review approval.

9.4.13 LIGHT INDUSTRIAL

Intent: To provide areas for manufacturing, warehousing, and research and

development. Implementation of approved Master Plan subject to site plan

reviev

Density:

Minimum-lot size is 10,000 sq. ft.

Range of Potential Uses:

Research_and testing laboratories,-_warehouses, light manufacturing,-_offices.

Other Information:

Businesses—within this category shall be located and designed—so—as to minimize impact on adjacent properties.—Performance—standards may be adopted for review purposes.—Special Review may be required for some uses within this category.

9.4.14 HIGHWAY-ARTERIAL

Intent: To provide areas for retail, wholesale, __commercial, __service and

professional businesses while minimizing-negative impacts due to increased

traffic.

Density:

Minimum_lot size is 10,000 sq. ft._Lot must meet lot coverage, parking, setback and building location criteria.__Commercial space which exceeds 2,500 sq. ft. shall require

application-for a Planned Commercial Development.

Range of Potential Uses:

Multi-family,—retail stores, wholesale distribution,—restaurants, commercial,—recreation facilities, offices, vehicle repair facilities,—gas stations.—Mixed use of

Essex Junction Comprehensive Plan 2014

structures is encouraged.

Other Information:

The intensity of this category requires special standards to mitigate the impact of Heavy Commercial development.— Landscaping, building appearance,—building location, and access are of prime importance.—Traffic safety, parking facilities and vehicular access is of concern.—Consideration—of pedestrian and bicycle access is required.

9.4.15 COMMERCIAL MIXED USE

Intent:

To provide areas for mixed use development in locations that have adequate public infrastructure—and compatible surrounding—land uses.—A mix of residential, retail and office use is encouraged.— Light industrial uses area allowed as a conditional use. Commercial—and light industrial space greater than 2,500 sq. ft. shall require application for a Planned Commercial Development.

Density:

Minimum lot size of 15,000 sq. ft.—Lot must meet lot coverage, parking, setback and building criteria.

Range of Potential Uses:

Retail stores, restaurants,—office complexes,—multi-family,—light industrial, schools, warehouses, and manufacturing.

9.4.16 PLANNED EXPOSITION

Intent:

To provide an area for special events and exposition facilities while minimizing adverse traffic, noise, and visual impact.— Implementation of approved Master Plan subject to site plan review.

Density: Minimum 120 acres.

Range of Potential Uses:

Agricultural—shows and sales, educational workshops,—concerts, antique shows and sales, temporary accessory—sales, group sales, special events and festivals, picnics, reunions,—carnivals,—circuses,—recreation facilities, pedestrian and bike paths.

Other Information:

If a new plan differs from the approved Master Plan, the Planned Exposition land use category will require review and approval of a Conceptual Plan at a Public Hearing. The Conceptual—Plan identifies locations and types of uses.—Emphasis is to be placed on landscaping,—parking, traffic circulation and noise mitigation efforts.—A Final Development Plan will identify location or relocation of any structures or physical improvements.—Change in location of uses or substantial changes in types of uses, will require a new Conceptual—Plan.—A new Final Development Plan or Master Plan may be required if changes in physical improvements—are proposed.

Uses within the Planned Exposition Land Use Category are divided into four types of reviews:

Permitted Use-No Special Review required unless projected attendance,
 noise or other factors exceed performance—standards as developed.—Examples of

- permitted uses may include agriculture exhibitions, educational workshopsworkshops, and reunions.—Prior notification of all events may be required.
- 2)—Temporary Uses-Special administrative review is required to determine if Special Review is necessary.—Temporary use permits are to be issued by staff within a specified time period.—Staff review is limited to type of event, location of event, and performance—standards as developed.—Examples of uses may include temporary sales (accessory—to a permitted event), antique sales and shows, dog shows, car shows, boat shows and temporary group sales (i.e. retail associations, car dealerships,—clearance—sales, etc.).—Temporary use permits may be granted on an annual basis based upon a submitted schedule.—Events not included shall be reviewed on an individual application basis.
- 3)—Major Uses Special Review is required for major uses and may include public meeting.—Major uses are those uses which may generate substantial levels of traffic, neisenoise, or other adverse impacts.—Examples may include major concerts, events which last 5 or more days and other uses denied by staff as Permitted
 - Uses or Temporary Uses.—Staff shall make the initial determination—on a major use application within a specified period of timeperiod.—If staff determines there may be substantial traffic, noise, odor, or other impacts, further Special Review shall be required and the applicant—shall be immediately notified.
- 4)— Champlain—Valley Exposition—Annual Fair-The Planning Commission may choose to review the Fair on an annual basis.—The Planning Commission—shall notify the Champlain—Valley Exposition—in writing by November—30th of the year before the Fair that they wish to review.—The Champlain Valley Exposition shall then submit a permit application for review by January 31st of the following year.—Review shall be conducted at a public hearing.
 - A)—Permitted Uses-Daily shows (other than grandstand concerts), education workshops,—product demonstrations,—food services, booths, carnivals,—and any activities within enclosed structures are not reviewed on an individual basis and are uses by right.
 - B)_Cumulative_Uses -The cumulative effect of all fair activities may be reviewed in cooperation_with the Fair Board to develop traffic control, parkingparking, and noise plans.
 - C)—Special Events-Special events including,—but not limited to, concerts, demolition derbies, tractor pulls and other similar events may be reviewed for compliance with noise standards, dust control, <a href="mailto:parking: parking: par

9.4.17 PLANNED AGRICULTURAL

Intent:

To provide areas for active agricultural uses and provide mechanisms to ensure the long_-term viability of agricultural uses.—Prime agricultural land shall be preserved whenever possible through transfer of development—rights to agriculturally

unproductive—areas.—Property used for agricultural purposes shall be deemed the predominant—use and shall be protected from adverse urban development.

The entire area shall be subject to a Master Plan.—No changes that involve any new development or change of use shall be permitted until a Master Plan for the entire Planned Agricultural district has been approved by the Planning Commission.—Such a Master Plan shall ensure adequate infrastructure,—roads and public amenities before additional development is approved.

Density:

Standards for density may be developed—or may be part of a Master Plan approval provided, however,—that no development may be approved on lots of less than 15,000 sq. ft. without Planned Development approval—utilizing the techniques specified in this land use category.

Range of Potential Uses:

Farms, and all related activities including—involvement—in the local food movement (i.e. farm to school initiative), farm structures,—farm housing, single family dwellings, multi- family dwelling, public and quasi-public—uses, recreation, and solar renewable energy systems.

Other Information:

The Planned Agricultural land use shall be designated only on active farm land and land held in farm ownership.—Uses other than agricultural may be approved only as a part of a Master Plan for the entire parcel or specific application for one or more phases or parcels within sections of this District which clearly meet the intent of this land use category and utilizes techniques—to save agricultural land.—Transfer of development rights, land trust, purchase/lease-back and other innovative approaches to save prime agricultural lands and open lands are strongly encouraged.

9.4.18 FLOOD-PLAIN

Intent:

To promote the public health, <u>safetysafety</u>, and general welfare, to prevent increases in flooding and to minimize losses due to floods.

Minimum-_Lot Size:

Not applicable.— All areas designated—by the Federal Emergency—Management Administration shall be designated Flood—Pplain.

Range of Potential Uses:

Agriculture, - conservation - areas, recreation facilities.

Other Information:

All uses within this category require Special Review.—Certain uses, or waiver requests may require Public Hearings and submittal of detailed hydrologic—and engineering data.

Chapter VI Implementation

In order to connect the vision, goals and objectives of this plan with reality, it must be implemented. Action is required and funding is necessary. Therefore, a detailed implementation plan is a key-component of the comprehensive planning process.

Implementation will occur through a mix of policy adoption, planning_studies, regulatory changes, public/private_partnerships, education, and capital projects._ In many cases funding sources will be identified.

This chapter first describes an overview of finances for the Village; and then Table 14 lists the goals and objectives of the plan, the department that is primarily responsible for implementation,—a timeline for implementation and potential funding sources.—The timeline will be identified as follows:

Short Term-1-2 Years Mid Term-2-3 Years Long Term -4-5+ Years

Ongoing - No definitive timeframe; may be ongoing policy

1. Government Finance

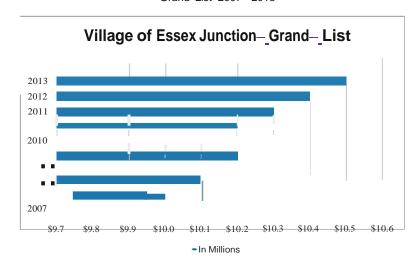
Local government is primarily financed through property tax revenue.—Thus, consideration of the local tax effort is an important issue.—It gives some indication of economic growth within the community—as well as an indication of the community's ability to pay for improvements which may be required in the future.—In addition, it is an important indicator of a community's ability to manage basic services while minimizing—tax increases.—Figure 7 tracks the Village Grand List increase from 2007-2013.—Figure 8 provides more detail on the taxes generated,—the distribution of taxes within the Village, and other sources of revenue.—Figure 9 illustrates the distribution of the revenue collected to the services provided by the Village to its residents and businesses—through the General Fund.

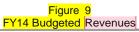
The Village has invested much time and effort to address issues of responsible financial management.—A reappraisal was completed in 2007.—Essex Junction's elected officials and voters are conscious of the need for responsible financial management and have successfully kept Village budgets to an average increase—of 3.7% since 2007.—However,—while conservative budgeting keeps tax increases—at a minimum,—it does not allow capacity for new programs—or significant investment in Village infrastructure—and business—development.—Therefore, any goals and objectives established in this plan should be weighed against the resources needed to accomplish the goal.—For every goal and objective, the village should ask itself, "at what cost?" and whether or not the initiative will be supported by adequate resources.

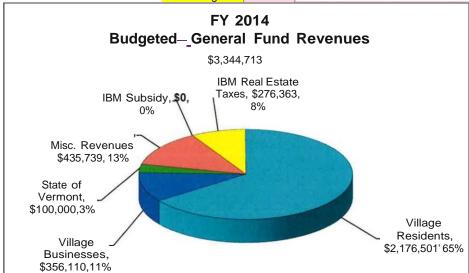
<u>Itt is important to note that the data included herein are for the Village of Essex Junction taxes only.</u> Residents are also required to pay school taxes and Town of Essex taxes.—<u>Both the school system and Town are totally independent taxing agencies over which the Village has no control.—<u>Residents should contact the Town of Essex and the School District for information regarding their tax rates.</u></u>

FY2014 is the final year of an agreement—with IBM to gradually—eliminate a subsidy that replaced the taxes on IBM's machinery—and equipment.—The agreement—started in 2001 and the last year the Village received the subsidy was FY2013.—The Village is pursuing ways to reduce its budget by sharing services with the Town.—The 1st step in the process was contracting with the Town to share the Town Manager position which was completed in XXX.—Studies and efforts to share other services are under way.

Figure 8 Grand List 2007 - 2013



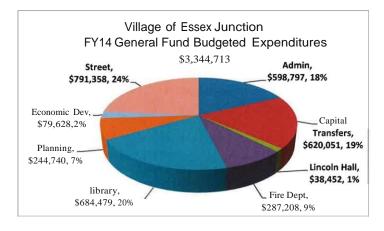




Commented [MN29]: Need data from the Village

Figure 10 FY 14 Budgeted Expenditures

Commented [MN30]: Need data from the village



2. Funding Sources

Local Funding:

For current fund balances for the following programs-please refer to the Annual Reports.

Planning Department—Budget - Other Professional Services:—These funds are used for general planning activities including—matching grant funds, planning studies, and design assistance.

Capital Fund: The Village Capital Fund is used for public works projects including road and sidewalk reconstruction,—village buildings,—and streetscape projects.

 $\label{localized_conomic_development-budget} Economic Development: $$ _$ The Village has an annual economic-_development-budget which is used for the annual block party; and general economic development activities including market studies, marketing, business retention and other activities to support a thriving business community. $$ _$ The economic-_development component-_has been expanding-_to encourage private investment in the Village through outreach and education.$

Public Works Streetscape—Budget: The Public Works Department has an annual budget for streetscape improvements and maintenance.—The money can be used for streetscape plantings as well as landscaping—installation—and maintenance,—and includes funds allocated to the Tree Advisory Committee.

Land Acquisition Fund: The Village has a land acquisition fund.—The fund was set up to purchase village properties for public use or economic—development.

Water and Wastewater_Revenue_Funds: Funding may be available from the Water, Wastewater and Sanitation capital funds for capital projects involving sewer and water infrastructure.

Village Owned Assets: Think strategically about Village owned assets to maximize the benefit to the public.

Regional/State/Federal Funding:

All grant funds are listed as of 2014.

Municipal Planning Grants: The Vermont Department of Housing and Community Development provides an annual planning grant program for municipalities—to promote community planning, revitalization—and development activities that maintain Vermont's land use goal of compact settlements—separated by rural lands.—In FY14 the maximum grant amount was \$20k with a cash match required.—Projects requesting \$8,000 or less do not require a match.

Vermont Agency of Transportation—— Transportation Alternatives:—This program replaced the former Enhancement Grants Program.—This annual grant program provides funding for seeping studies or construction—of local transportation improvements.—Applicants may apply for up to \$300k with a required match of 20% for construction—projects, and 50% for seeping studies.

Chittenden—County Regional Planning Commission—(CCRPC): The CCRPC annual work program (aka Unified Planning Work Program - UPWP) is the mechanism to achieve the vision, mission and goals for the region as outlined in the ECOS Plan (www.ecosproject.com) and also helps municipalities fulfill their local plans.—The UPWP provides funding assistance for a range of project types including transportation—and land use, transportation—services, GIS and Data Development,—and other non-transportation planning—(emergency—management,—brownfields planning, technology planning).—In addition, CCRPC manages the Transportation—Improvement Program (TIP) which is a prioritized, fiscally-constrained, and multi-year list of federally-funded, multimodal projects in the region.—This includes dedicated funds for the sidewalk grant program for preliminary—engineering—and sidewalk construction (\$300,000—available in the FY15 program).

Historic Preservation:—_There are three State historic preservation grant programs: Historic Preservation Grants for repair and maintenance—of a historic building owned by a municipality—or nennon—profit; Historic Preservation Barn Grants for repair and maintenance of historic agriculture buildings; and Certified Local Government—grants to help municipalities—integrate historic preservation concerns with local planning decisions.— For more information visit: http://accd.vermont.gov/strong_communities/preservation/grants

There are also Federal and State tax credit programs.— For more information visit: http://accd.vermont.gov/strong— communities/opportunities/funding/downtown—village—tax—credit.— The specific credits available are listed here:

Buildings listed on the National Register of Historic Places are eligible for a 30% tax credit for qualifying rehabilitation_projects (20% federal, 10% state).__The funds may be used to improve accessibility,_ life safety or interior or exterior renovations.

A 25% building fac;ade tax credit, which is not available for buildings eligible for the 30% tax credit above.—The credit is available for buildings in the designated—village center district.—Maximum—award of \$25k per building.

A 50% code improvement_tax credit to assist in bringing buildings up to state code, to abate hazardous_materials or contamination. It includes a maximum_award of \$12,000 for a platform lift.

\$50,000 for sprinkler systems, \$50,000 for elevators, and \$25,000 for the combined costs of all other



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Essex Junction Comprehensive Plan 2014

Appendix A - Historic Resources

Historic Inventories	Criteria for Inclusion	Protections	Benefits	Sites in Essex_Junction*
Vermont Historic Sites and Structures Survey	Identifies and documents historic properties and sites yielding or likely to yield archeological and anthropological information	None	If in a State Village Center designation owners renovating historic buildings are eligible for tax benefits.	The 1984 inventory includes 12 districts, and 2 complexes (Whitcomb Farm and the Champlain Valley Fair)- and 205 buildings within them.—The inventory then lists 71 buildings (some within the group of 205), for a total of 244 (or 243) historic sites.
State Register of Historic Places	The quality of significance in American history, architecture, archeology, engineering, and culture is present in districts, sites, buildings,—structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and: a.—That are associated with events that have made a significant contribution—to the broad patterns of our history; or b.—That are			Downtown Essex Junction Commercial Historic District. More—research is needed to determine if there—are more districts listed.
National Register of Historic Places	associated with the lives of persons significant in our past; or c.—That embody the distinctive characteristics—of a type, period, or method of construction,—or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or d.—That have yielded, or may be likely to yield, information important in prehistory or history.	Being listed does not, in itself, impose any obligation on the property owner, or restrict the owner's basic right to use and dispose of the property as he or she sees fit.—Though the designation offers some protection from federally funded, licensed, or permitted projects that would harm them. However, it does not restrict what an owner may do to his property, including tearing it down.	Properties eligible	Downtown Essex Junction Commercial Historic District. More—research is needed to determine if there—are more districts listed.
Vermont Archeological Inventory	Preliminary information about the potential locations of prehistoric Native American archeological sites.	Development—projects that are subject to Act 250 or recipients of federal funding are required to address the developmen project's impact on archeological resources.		More_research is needed to determine where these sites are located.

^{*} Wh1le the State and Nat1onal Reg 1stnes are berng-being d1g1t1zed and brought on fine there IS some d1screpancy in the data regarding what Sites/structures are listed.

Local Historic Preservation Programs that—provide for benefits and authorize local protection of historic buildings:

- 1. Local Historic Preservation Commissions:—Can encourage preservation—activities through education, advice and/or regulation.—One type is a Local Certified Government—which is set up as a partnership with the state's Division for Historic
- 2. Design Control District: A zoning overlay district that creates planning and design criteria to protect historic or other valued resources in a designated area.
- 3. Local Historic District (or Design Review District): an ordinance that specifies certain design review criteria and a commission to review projects.

Source of Information: Vermont Land Use Planning and Implementation—Manual, April 2007.—Topic Paper 11: Historic Preservation.—Vermont Land Use Education & Traning Training Collaborative Other information:

http://accd.vermont.gov/strong communities/preservation/resources/state register

http://accd.vermont.gov/strong-communities/preservation/resources/national-register

http://accd.vermont.gov/strong-communities/preservation/resources/state-register/criteria

Map 2 Vermont Historic Sites an	d Structures Survey Cross Reference Information:	
Districts	Vermont Historic Sites_and Structures Survey Site#	Building Numbers within Each District (Map#)
School Street-Park_Terrace		
Historic District	0405-39	68, 81, 86, 94, 97, 95, 88, 84, 72, 78, 83, 74
Pearl Street Historic District	0405-40	171, 163,155, 151, 142, 132, 128, 122, 98, 101, 102, 109, 116, 120, 129
School Street Historic District	0405-41	140, 152, 164, 167, 176
Lincoln Street Historic District	0405-42	106, 144, 150, 154, 161, 169, 177, 200, 206, 212, 216, 222, 228, 219, 201, 187, 182
Commercial Center Historic		
District	0405-43	162, 159, 156, 148, 139, 126, 114,108, 119
Central Street Historic District	0405-44	191, 185, 188, 192, 195, 199, 203, 184, 194, 186, 196, 202
Main Street NeighborhoodHistori	q	
District	0405-45	178, 190, 193, 197, 205, 208, 204, 198, 189, 183, 179, 172, 165, 158, 146, 138

Pleasant Street Historic District	0405-46	181, 175,166, 157,170,149, 143,137, 125,107,-100,90, 89,124, 133,113,118, 130, 134,141, 147, 153,168, 174					
Church Street Historic District	0405-47	145, 135, 131, 123, 117, 115, 112, 103,93, 87, 82, 73, 79, 85, 91, 104, 111, 121, 136					
Oak Street Historic District	0405-48	59,65, 71, 75,63,58, 52	59,65, 71, 75,63,58, 52				
Maple Street Historic District	0405-49	77, 76, 70, 69, 67, 64, 62, 57, 53, 49, 45, 41, 37, 33, 32, 31, 28, 26, 22, 27, 34, 38, 43, 44, 47, 50,54,60					
Park Street Historic District	0405-50	1, 3, 4,5,6,2					
Whitcomb Farm Complex	0405-51	29, 48, 56, 61, 51					
Champlain Valley Fair Grounds							
Complex	0405-52	242					
Other Buildings		Map Reference #	Notes made on the survey over the years				
Magee House, 86 Pearl St	0405-53	224	Notes made on the survey over the years				
88 Pearl St	0405-54	227					
5 Roscoe Ct	0405-55	210					
7 Roscoe Ct	0405-56	207					
7 NOSCOE CI	0405-50	201					
Wilson House, 12 Hillcrest Road	0405-57	226					
Morris House, 3 Prospect St	0405-58	217					
Johnson House, 5 Prospect St	0405-59	218					
6-8 Prospect St	0405-60	211					
10-12 Prospect St	0405-61	214					
O'Grady House, 16 Prospect St	0405-62	221					
Jenkins House, 22 Prospect St	0405-63	230					
Essex Junction Graded School,	0405-63	230					
Prospect St	0405 64	234					
17 Grove St	0405-64 0405-65	213					
19 Grove St	0405-66	215					
29 Grove St	0405-67	220					
McGinnis House, 30 Grove St	0405-68	225					
Farley House, 37 Grove St	0405-69	236					
10 North St	0405-70	223					
Wayne-Blanchard House, 11	0403-70	223					
North St	0405-71	229					
Remington House, 15 North St	0405-72	233					
Remington House, 13 North St	0403-72	255					
Culver-Newell House, 16 North St	0405-73	231					
Villamil House, 18 North St	0405-74	232					
Blanchette House, 28 North St	0405-75	237					
38-40 North St	0405-76	239					
43 Central St	0405-77	209					
lincoln Hall, 1 Pearl St	0405-78	110					
Kolvord, Olson, Wilson Law							
Offices, 3 Main St	0405-79	96	demolished				
H.K. Drury House, 88 Main St	0405-80	238	· ·				
Williams and Haves and Adolf Addition	0405.04	044					
Williamson House, 116 Main St	0405-81 To 405-80	241					
Gregory House. 121 Main St	0405-82	240					
140 Main St	0405-83	243					
The Brickyard Offices, 15	0.405.04	005					
Brickyard Rd	0405-84	235					
Accent Travel Agency, 2-4	0.405.05	107					
Railroad St	0405-85	127					
12 Railroad St	0405-86	105					
14 Railroad St	0405-87	99					

0 1/4 14 15 1 0/6 16	T	T	ı	<u></u>
Guilfoy Medical Office, 16				
Railroad St	0405-88	92		
Park Street School, 21 Park St	0405-89	55		
Bartlett House, 40 Park St	0405-90	21		
50 Park St	0405-91	15		
Discovery Museum,51 Park St	0405-92	18		
Prabhu House, 52 Park St	0405-93	14		
57 Park St	0405-94	13		
56-58 Park St	0405-95	11		
59 Park St	0405-96	12		
67 Park St	0405-97	8		
Johnson House, 2 South St	0405-98	7		
Driscoll House, 9 South St	0405-99	9		
Menior House, 11 South St	0405-100	10		
Trombley House, 60 South St	0405-101	16		
Whitcomb Property, 77 Cascade				
St	0405-102	244		
Stevens House, 3 Elm St	0405-103	46		
Blanchette House, 6-8 Elm St	0405-104	39		
Warehouse,11 Maple St	0405-105	40	Set way back from N	Maple Table
Vermont Maple Orchards, Inc. 1				
Jackson St	0405-106	24	Flexible Seal	
Railroad Warehouse	0405-107		Bldg is gone, not ma	apped
Emery House, 22 Jackson St	0405-108	23		
Bechtel House, 27 JacksonSt	0405-109	19		
Sourdiff House, 33 Jackson St	0405-110	17		
LeClair House, 3 Grant St	0405-111	30		
Basic House, 4 Grant St	0405-112	25		
Lawrence House, 10 Grant St	0405-113	20		
Corbin House, 2 Arlington St	0405-114	180		
4 Arlington St	0405-115	173		
5 Arlington St	0405-116	160		
6 Mansfield Ave	0405-117	36		
Mason House, 8 Mansfield Ave	0405-118	42		
O'Brien House, 15 Mansfield Ave	0405-119	35		
McGuire House, 29 Mansfield Ave	0405-120	66		
5 Waverly St	0405-121	80		
· · · · · · · · · · · · · · · · · · ·	IT TO			l .

Appendix B Underground Storage Tanks in Essex Junction

		Hazardous		
	Facility ID#	Sites	Facility Name	Facility— Address
	102		Abrams' Sunoco	142 Pearl Street
1	222	900593	Fairgrounds- Beverage	99 Pearl Street
I	384	900595	Robinson's Inc.	Park Street
	385		Sunoco Gasoline Station	16 Maple Street
	365 411	931476	Agway/McEwing Fuels	134 Main Street
	565	931476	0,	56 Pearl Street
			Champlain Farms Gulf Stannard Residence	5 Warner Avenue
	856 922	000570		11 Jackson Street
1		900573	Essex Junction Public Works Garage	1000 River Street
	1166	770012		
	1122		Corporation Global	1 Maplewood_Lane
	1223		Foundries Keenan Residence Dietzel	6 Hillcrest Road
Ţ	1226		Office	11 Maplewood Lane 7 River Street
	1228			
	1233		Reed Residence	4 Warner Avenue
	1249		Triangle Auto Body	2 Upland Road
	1258		Hamel Residence	15 Upland Road
	1301		Dietrich Residence	6 Woods End Drive
	1760		Seiple Residence	111 West Street
	1905	961961	Mcintyre Residence	2 Park Street
	1996		VT State Tree Nursery	2 Educational Drive
	2687		Simon's Five Corner Store	11 Lincoln Street
	8783536		Essex Community Education Center	30 Main Street
	8784309		Winston Prouty Federal Building	45 Lincoln Street
1	8785745		Sunoco Gasoline Station	39 Main Street
l	8799559		Dave Whitcomb's—Service Center	141 Pearl Street
			First Congregational Church	
			Corner Gas Store	

Source:

Underground Storage Tank Program
Waste Management Division
Vermont Department-_of Environmental Conservation

Appendix C Maps

- Map 1: Natural Resources
 Map 2: Historic Resources
 Map 3: Recreational Facilities/Open Space
 Map 4: Transportation
 Map 5: Community Facilities
 Map 6: Non-Motorized Transportation
 Map 7: Wastewater Distribution System
 Map 8: Water Distribution System
 Map 9: Existing Lane Use
 Map 10: Future Land Use
 Map 11:—Flood Hazard Areas

Appendix C Maps

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Map 5: Community Facilities
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Map 8: Water Distribution System
Map 9: Existing Lane Use
Map 10: Future Land Use
Map 11:—Flood Hazard Areas

Planning Commission Reporting Form for Municipal Plan Amendments

This report is in accordance with 24 V.S.A.§4384(c) which states:

"When considering an amendment to a plan, the planning commission shall prepare a written report on the proposal.—The report shall address the extent to which the plan, as amended, is consistent with the goals established in §4302 of this title.

Summary of the proposed 2014 Comprehensive Plan changes:

The entire Comprehensive Plan was updated.—The Plan does not include any changes to the designation of the land area, as the land use strategy remains generally the same as the previous Plan.—"The planning challenge for Essex Junction is to manage growth, encourage reinvestment in the existing urban environment, protect existing neighborhoods and ensure that redevelopment or new development enhances the vitality and village character of Essex Junction." Most of the chapters were expanded to include additional information or further detail on the proactive steps the Village has undertaken to meet the Plan's goals.—The Heart and Soul values were incorporated throughout the Plan.—More specifically the changes include:

Chapter II – Incorporation of the Heart and Soul values into the community vision. Accomplished Objectives were updated for the previous 5 years.—The priority goals for the next five years have been updated.

Chapter III – Historical Resources have been better defined, however more work is needed following adoption of the Plan to analyze and prioritize to determine which structures should be preserved.—Population growth and demographics have been updated. Chapter IV:

- 1.— Energy A significant energy profile was added to the Plan, as well as a discussion on greenhouse gas emissions.
- 2.—Agriculture & Community Forestry Status of the Whitcomb Farm was updated including the latest land conservation efforts and solar generation farm.—The variety of agriculture related efforts the Junction has been taking was added including the thriving Farmers Market.—Community Forestry efforts were added as well.
- 3.— Business/Economic Development The Village's strengths were added.—Employment and income data was updated.—Strategies from the Town's Economic Development and Vision Plan was added.
- 4.– Open Space Recreation & Natural Resources The Natural Environment Resources section was expanded significantly.—Other additional sections include Climate Change and Flood Resiliency.
- 5.— Education and Child Care Data was updated, and the child care section was expanded.
- 6.— Utilities/Facilities All utility and facility updates were noted.—The Library strategies were updated according to their Strategic Plan.—The following sections were added: Senior Center, Police and Rescue.
 - 7.— Housing Data was updated.—Information on the Vermont Neighborhood and Vermont

Neighborhood Development program was added.

- 8.— Transportation Data was updated.—Circ Alternative projects were added.—CCTA GMT service was expanded.—Bike/Ped efforts were expanded including adding the work of the Bike-Walk Advisory Committee.
- 9.— Land Use Intro was re-worded to reinforce the Plan's goal of concentrating new growth in areas already developed with specific emphasis on 'thoughtful growth'.— The Village Center Designation and its benefits were included.— The Land Use Categories were clarified.

Chapter V, Implementation – The Government Finance data was updated.—Funding sources were clarified.—The Implementation Schedule was updated to reflect all of the updated goals and objectives, and relationship to the Heart & Soul values and ECOS Strategies were added. Appendix A, Historic Resources – This was added and includes cross references to the historic sites listed on Map 2.

Maps – all maps were updated.—Map 11 was added for the new Flood Resiliency section.

See the attached spreadsheet, Essex Junction Draft 2014 Comprehensive Plan – Goal and Element Review, for how the Plan is consistent with the goals established in §4302.

Appendix A, CCRPC Guidelines and Standards for Confirmation of the Municipal Planning Processes and Approval of Municipal Plans

		Guideline Questions	Yes/No	Location	Comments
	Consistent with General Goals in Sec. 4302(b)				
	(1) To establish a coordinated, comprehensive planning process	Are municipal decisions guided by a coordinated,	Yes		
1	and policy framework to guide decisions by municipalities,	comprehensive planning process and policy			
•	regional planning commissions, and state agencies.	framework?			
	(2) To encourage citizen participation at all levels of the planning		Yes		
2		planning process?			
	local level possible commensurate with their impact.				
	(3) To consider the use of resources and the consequences of	Is consideration being given to the use of resources	Yes		
3	growth and development for the region and the state, as well as	and the consequences of growth and development?			
	the community in which it takes place.	, , , , , , , , , , , , , , , , , , , ,			
	(4) To encourage and assist municipalities to work creatively	Is the municipality working creatively together with	Yes		
4	together to implement and develop plans.	other municipalities to develop and implement plans?			
	Requirement	Guideline Questions	Yes/No	Location	Comments
	Consistent with Specific Goals in Sec. 4302(c)				
		Do the land use patterns proposed in the Land Use	Yes	Priority Goals in Chapter II and the	
5		chapter of the Plan support this goal? If so, are		Land Use Chapter	
•		proposed densities higher within or adjacent to			
		village/downtown/growth areas?			
		Does the plan ensure that intensive residential	Yes	Land Use Chapter	
		development is encouraged primarily in areas related			
		to village/downtown/growth areas?	NI.	Landle Observa	
		· · · · · · · · · · · · · · · · · · ·	No	Land Use Chapter	
	A. Intensive residential development should be encouraged	uses outside of designated village/downtown/growth			
6	primarily in areas related to community centers, and strip	areas? If so, are these areas that already have historic strip-	Yes	Land Use Chapter & Transportation	
	development along highways should be discouraged.	type development? Is the town making an effort to	165	Chapter	
		incorporate more multi modal land uses?		Chapter	
		If so, is strip development limited to areas that are	Yes	Land Use Chapter	Development limited to areas that are already
		already developed as strip developments or is the		'	developed.
		community encouraging new strip development?			
			Yes	Business/Economic Chapter	
		growth areas, or employed to revitalize existing			
		village and town urban centers, or both?			
Ь					

		Does the plan discuss where economic growth is to be	Yes	Business/Economic Chapter	
		located? Are the types of uses described of a scale and type	Yes	Business/Economic Chapter and Land	
1 _			165	Use chapter	
վ 7	grammar and any arrangement ar	that they will have little or no impact on the rural		Ose chapter	
Ш		countrvside?— (such as home businesses) Does the plan discuss the need to locate most	Yes	Business/Economic, Utility/Facility and	
			165	Land Use chapters	
		municipal or public buildings within the economic		Land Ose chapters	
		core of the community? Does the proposed transportation system encourage	Yes	Business/Economic & Transportation	
			165		
		economic development in existing village		Chapters	
-		centers/arowth areas/downtowns?	Yes	Business/Economic, Utility/Facility and	
		1 - ,	165		
		expansion of infrastructure, planned to reinforce the		Land Use chapters	
		general character and planned growth patterns of			
		the area?	Voc	Business/Economic, Utility/Facility and	
		1	Yes		
	C. Public investments, including the construction or expansion of	needs?	Yes	Transportation Chapters Business/Economic, Utility/Facility and	
١,		t to the state of	res		
8	-	infrastructure will be needed?	Voc	Transportation Chapters	
	planned growth patterns of the area.	1, , , , , , , , , , , , , , , , , , ,	Yes	Utility/Facility and Transportation	
		does the plan make this clear?	No	Chapters	
			INO		
		use chapter likely to lead to forced infrastructure			
		improvements and increased services due to			
		increases in density? (such as high density			
<u> </u>		development on rural roads)			
		Does the plan have an economic development	Yes	Business/Economic	
		chapter?			
	2. To provide a strong and diverse economy that provides	Does the plan discuss its position in terms of regional	Yes	Business/Economic	
		employment? (i.e. is it an employment center, is it a			
9	,·,	bedroom community, etc.)			
ľ		Does the plan discuss unemployment or lack thereof?	Yes	Business/Economic	
	capita incomes.				
	capita meomes.	Does the plan discuss the balance of improving the	Yes	Business/Economic, Open Space -	
		economy and maintaining environmental standards?		Natural Resources and Land Use	
				chapters	
		Does the plan discuss adult education?	Yes	Education, Utility/Facility and	
		Does the plan discuss where educational	Yes	Education Chapters	
	3. To broaden access to educational and vocational training	opportunities are and might be found?			

10	opportunities sufficient to ensure the full realization of the abilities of all Vermonters.	Is the town working with the local school district or the community to provide educational opportunities in schools and in other community settings?	Yes	Education and Recreation Chapters	
	4. To provide for safe, convenient, economic and energy	Is the proposed land use plan coordinated with the transportation network? Does it discuss the connection between land use and transportation efficiency? The following ought to be considered:	Yes	Transportation chapter	
11	efficient transportation systems that respect the integrity of	o Access management	Yes	Transportation chapter	
11	the natural environment, including public transit options and	o_ Discouraging new roads in outlying areas	Yes	Transportation chapter	
•	paths for pedestrians and bicyclers.	Does the Transportation chapter discuss and	Yes	Transportation chapter	
		encourage multi-modal transportation?			
		Does the Transportation chapter discuss and	Yes	Transportation chapter	
		encourage public transit?			
			Yes	Transportation chapter	
		connections between smaller towns and centers of			
		employment?	Yes	Transportation shorter	
		In the development of the transportation system,	res	Transportation chapter	
	(A) Highways air rail and other means of transportation should	does the plan use good resource management and			
12	(A) Highways, air, rail and other means of transportation should be mutually supportive, balanced and integrated.	minimize or reduce negative impacts to the natural environment?			
	be mutually supportive, balanced and integrated.	If the community has rail or air transportation, is it	Yes	Transportation chapter	
		discussed?	103	Transportation chapter	
		Does the community consider other modes of	Yes	Transportation chapter	
		transportation when discussing expansion of			
		transportation infrastructure?			
13	5. To identify, protect and preserve important natural and				
13	historic features of the Vermont landscape, including:				
		Does the plan identify significant natural and fragile	Yes	Open Space - Natural Resources	
		areas? (Note to planners: does the plan include			
		criteria for what makes an area "significant"? Towns			
		should be encouraged to move in this direction so			
		that the maps and future regulations are legally			
		defensible).			
14	(A) significant natural and fragile areas;	If identified, does the plan clearly (not vaguely) discuss how they should be preserved?	Yes	Open Space - Natural Resources	Calls for inventorying the resources, determining current level of protection and additional protection measures if necessary.
		If identified, is land use proposed in such a fashion	Yes	Open Space - Natural Resources	
L		that these areas will be protected?			

		Does the plan discuss alternative (non-regulatory)	Yes	Open Space - Natural Resources	
		7,	103	Open opace - Natural Resources	
		ways to protect these areas (other than through land			
-		use regulations)?	Vaa	Onen Chase Matural Descures	The term "eutotending" is not used
			Yes	Open Space - Natural Resources	The term "outstanding" is not used.
		including lakes, rivers, aquifers, shorelands and			
		wetlands? (Note to planners: does the plan include			
		criteria for what makes a resource "outstanding"?			
		Towns should be encouraged to move in this direction			
		so that the maps and future regulations are legally			
15	(B) outstanding water resources, including lakes, rivers, aquifers,	defensible).			
'	shorelands and wetlands.	If identified, does the plan clearly (not vaguely)	Yes	Open Space - Natural Resources	
		discuss how they should be preserved?			
		If identified, is land use proposed in such a fashion	Yes	Open Space - Natural Resources	
		that these areas will be protected?			
		Does the plan discuss alternative (non-regulatory)	Yes	Open Space - Natural Resources	
		ways to protect these areas (other than through land			
		use reaulations)?			
			Yes	Open Space - Natural Resources	
		views? (Note to planners: does the plan include			
		criteria for what makes a scenic resource			
		"significant"? Towns should be encouraged to move			
		in this direction so that the maps and future			
		regulations are legally defensible).			
16	(C) significant scenic roads, waterways and views;	If identified, does the plan clearly (not vaquely)	Yes	Open Space - Natural Resources	Could be stronger
		discuss how they should be preserved?			o sala as an oliga.
			Yes	Open Space - Natural Resources	Could be stronger
		that these areas will be protected?			3.
			Yes	Open Space - Natural Resources	
		ways to protect these areas (other than through land			
		use regulations)?			
			Yes	Chapter III	The plan calls for further analysis and
		districts, archaeological sites and archaeologically			prioritization.
		sensitive areas? (Note to planners: does the plan			
		include criteria for what makes a site "important"?			
		Towns should be encouraged to move in this direction			
		=			
	(D) important historic structures sites, or districts,	so that the maps and future regulations are legally			
17	archaeological sites and archeologically sensitive areas.	defensible). If identified, does the plan clearly (not vaguely)	Yes	Chapter III & Land Use Chapter	
	archideological sites and archeologically sensitive areas.	1	100	Chapter III & Land Ose Chapter	
		discuss how they should be preserved?			

		If identified, is land use proposed in such a fashion that these areas will be protected?	Yes	Chapter III & Land Use Chapter	
		Does the plan discuss alternative (non-regulatory) ways to protect these areas (other than through land	Yes	Chapter III & Land Use Chapter	
		use reaulations)?			
18	6. To maintain and improve the quality of air, water, wildlife				
	and land resources.			0 11 15	
		Is there a complete inventory/map of existing water	Yes	Open Space - Natural Resources, Map	Calls for inventorying the resources, determining
		resources, wildlife habitat, mineral resources and		1	current level of protection and additional
		other land resources?			protection measures if necessary.
		Does the plan discuss air quality? If so, does it	Yes	Open Space - Natural Resources,	
		describe measures to maintain and improve its quality?		Energy and Transportation	
		Does the plan discuss water quality? If so, does it	Yes	Open Space - Natural Resources, and	
		describe measures to maintain and improve its		Utility/Facility chapters	
		quality? Recommendation: Include watersheds -			
		could be a good way to present/organize this			
	L	information.			
	(A) Vermont's air, water, wildlife, mineral and land resources	Does the plan discuss wildlife resources? If so, does	Yes	Open Space - Natural Resources	Calls for inventorying the resources, determining
19	should be planned for use and development according to the	the plan describe measures to maintain and improve			current level of protection and additional
	principles set forth in 10 V.S.A 6086(a).	its quality?			protection measures if necessary.
		Does the plan discuss floodplain protection? If so,	Yes	Open Space - Natural Resources, Map	
		does the plan describe measures to maintain and		& 11	
		improve its quality? Recommendation: Also include			
		Fluvial Erosion Hazard maps and information.			
		Does the proposed land use pattern maintain or	Yes	Open Space - Natural Resources &	
		improve the quality of the resources listed above?	103	Land Use Chapters	
		Recommendation: Include reference to the All	Yes	Open Space - Natural Resources	
		_	103	Open opace - Natural Nesources	
		Hazards Mitigation Plan & Emergency Operation			
		Plans. Do these plans call for any changes that			
-		should be addressed in the Town Plan?	Yes	Energy & Transportation Chapters	
		Does the town recognize the connection between	165	Energy & Transportation Chapters	
		energy, transportation and land use?	Yes	Energy Chapter	
		Does the energy chapter of the plan discuss energy	165	петду спаркег	
		efficiency and renewable energy? Recommendation:			
		Reference the VT State Residential Building Energy			
		Code & the Commercial Building Energy Standards.			

20	7. To encourage the efficient use of energy and the	Does the plan contain policies and recommendations that encourage energy efficiency?	Yes	Energy Chapter	
20	development of renewable energy resources.		V	Faranco Objection	
		Does the plan contain policies and recommendations	Yes	Energy Chapter	
		that encourage the development of renewable			
		energy resources?	Yes	Energy & Land Use Chapter	
		Does the pattern of land use proposed in the	165	Energy & Land Ose Chapter	
		community appear to encourage the efficient use of			
		energy either through the proposed location of			
		development in relation to community services, or in terms of lot layout and desian?			
		Does the plan discuss recreation and identify	Yes	Open Space - Recreation	
		important recreational areas?		Spen Space Modreamen	
21	8. To maintain and enhance recreational opportunities for Vermont residents and visitors.	Does the land use plan encourage development that	Yes	Open Space - Recreation and Land	
	vermont residents and visitors.	protects or harms access to or the availability of		Use Chapter	
		recreational activities?			
22	(A) Growth should not significantly diminish the value and			Open Space - Recreation and Land	
	availability of outdoor recreational activities.			Use Chapter	
	(B) Public access to noncommercial outdoor recreational			Open Space - Recreation and Land	The Bike/Walk Advisory Committee is in the
23	opportunities, such as lakes and hiking trails, should be identified, provided, and protected wherever appropriate.			Use Chapter	process of developing a map to identify additional opportunities.
	9. To encourage and strengthen agricultural and forest	Does the plan discuss agriculture and forestry?	Yes	Agriculture & Community Forestry	opporturities.
24	industries.	, ,			
		Does the plan discuss the protection of agriculture	Yes	Agriculture & Community Forestry	
	(A) Strategies to protect long-term viability of agricultural and	and silviculture? If not, does it legitimately discuss			
25	forest lands should be encouraged and should include	why it does or cannot?			
	maintaining low overall density.	Do proposed densities of development appear to	No	-	The Whitcomb Farm is being preserved by the
	,	negatively impact the availability of workable land?		Land Use Chapters	Vermont Land Trust and the rest of Essex
\vdash		Does the plan discuss the economic value of	Yes	Agriculture & Community Forestry and	Junction is largely built out already.
	(B) The manufacture and marketing of value-added agricultural	agriculture and forestry?	165	Business Chapters	
26	and forest products should be encouraged.	If so, does it have viable policies and	Yes	Agriculture & Community Forestry	
	2	recommendations on how to encourage them?		I giramana a community i croomy	
27	(C) The use of locally grown food products should be	Is the availability of locally produced food	Yes	Agriculture & Community Forestry	
21	encouraged.	encouraged in the plan?			
	(D) Sound forest and agricultural management practices should	Does the plan discuss methods of	Yes	Utility/Facility and Open Space -	This could be stronger - though it is there
28	be encouraged.	agriculture/silviculture and their potential impact on		Natural Resources chapters	between floodplain protection and stormwater
		the environment?			management efforts.

	(E) Public investment should be planned so as to minimize	Does the plan direct public investments such as roads	Yes	Agriculture & Community Forestry	
29	development pressure on agriculture and forest land	and sewer systems and other infrastructure away			
	10 T	from agricultural and forest land?			
	10. To provide for the wise and efficient use of Vermont's		No	Open Space - Natural Resources	The plan indicates that there are none of these
30	natural resources and to facilitate the appropriate extraction o earth resources and the proper restoration and preservation o	earth resources?		chapters	resources in the Junction.
	the aesthetic qualities of the area.				
	<u> </u>	Does the plan inventory the types and costs of	Yes	Housing Chapter	
		housing in the community?	103	Tiousing Griapier	
		Do the proposed land use patterns or public	Yes	Housing Chapter & Land Use Chapter	
31	11. To ensure the availability of safe and affordable nousing for	investments in the plan support the resident's ability	1.00	Troubing Oriaptor & Zaria 500 Griaptor	
		to have safe and affordable housing?			
		Does the plan adequately discuss housing and	Yes	Housing Chapter & Land Use Chapter	
		housing density throughout the community?			
		Does the plan have a housing section that	Yes	Housing Chapter	Though VHFA encouraged less emphasis on
32	diversity of social and income groups in each Vermont	encourages low income housing and housing for the			elderly specific housing.
32	community, particularly for those citizens of low and moderate	elderly?			
	income.				
	(B) New and rehabilitated housing should be safe, sanitary,		Yes	Housing Chapter	
33	located conveniently to employment and commercial centers,				
	and coordinated with the provision of necessary public facilities				
	and utilities. (C) Sites for multi-family and manufactured housing should be		Yes	Housing Chapter	
	readily available in locations similar to those generally used for		165	Housing Chapter	
34	single-family conventional dwellings.				
	• , •	Does the plan discuss accessory apartments?	Yes	Housing Chapter	
	residences which provide affordable housing in close proximity	Does the plan discuss the availability of health care	Yes	Housing Chapter & Utility/Facility	Though not healthcare.
35	to cost-effective care and supervision for relatives or disabled or	and elderly services?	103	Tiousing onapter & othicy/r acting	Though not healtheare.
	elderly persons should be allowed.	una elaerry services:			
		Does the plan discuss future public facility	Yes	Utility/Facility, Transportation Chapters	
		investments, or at least acknowledge that none are			
		needed?			
			Yes	Utility/Facility, Transportation and	
		financed and how they will meet the needs of the		Implementation Chapters	
		public?			
	nublic facilities and services to meet future needs	Does the plan discuss how it provides services to the	Yes	Utility/Facility, Transportation Chapters	
		community and whether or not they are meeting the			
		community's needs?			

		In	Vaa	I With /Feeilite Transportation Charters	
			Yes	Utility/Facility, Transportation Chapters	
		Budget outlining timing and funding for necessary			
		public investments to ensure efficiency and			
		coordination in their provision?			
1		Are fire, police, emergency medical services, schools,	Yes	Utility/Facility Chapter	
		water supply, sewage and solid waste disposal			
37		discussed adequately in the plan? Recommendation:			
"	(A) Public facilities and services should include fire and police	Identify how stormwater is being managed in the			
	protection, emergency medical services, schools, water supply	municipality as well, use of low impact development			
	and sewage and solid waste disposal.	practices, etc.			
		Does the plan ensure that high density development	Yes	Land Use and Implementation	
		occurs only where urban public facilities and services		Chapters	
		exist or can be reasonably made available?			
		Does the plan discuss growth in relation to the	Yes	Land Use and Implementation	
38	(B) The rate of growth should not exceed the ability of the	provision of services and facilities adequately?		Chapters	
1 ~	community and the area to provide facilities and services.	Does the plan speak clearly about how growth might	Yes	Land Use and Implementation	
		impact these services and facilities?		Chapters	
		Does the plan discuss how they will control growth in	Yes	Land Use and Implementation	
		a manner that allows them to phase upgrades in		Chapters	
		facilities and the expansion of services at a rate that			
		is sustainable?			
	13. To ensure the availability of safe and affordable child care	Within the childcare element of the plan, is there a	Yes	Education and Child Care Chapter	
	and to integrate child care issues into the planning process,	discussion about the availability of childcare related			
30	including child care financing, infrastructure, business	to the needs of the community? Note: Child Care			
"	assistance for child care providers, and child care work force	Resource can be a good source of data.			
	development.	Does the plan discuss how the town can make	Yes	Education and Child Care Chapter	
	·	childcare more available?			
40	14. To encourage flood resilient communities. Note: this will				
	take effect on July 1, 2014.				
	(A) New development in identified flood hazard, fluvial erosion,	Is new development discouraged in these areas?	Yes	Open Space - Natural Resources	
41	and river corridor protection areas should be avoided. If new			Chapter	
	development is to be built in such areas, it should not				
	exacerbate flooding and fluvial erosion.		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	(B) The protection and restoration of floodplains and upland	Is protection and restoration of these areas	Yes	Open Space - Natural Resources	
42	forested areas that attenuate and moderate flooding and fluvial	encouraged?		Chapter	
	erosion should be encouraged.		V	On an Orange National Bases	
43	(C) Flood emergency preparedness and response planning	Is flood emergency preparedness and response	Yes	Open Space - Natural Resources	
	should be encouraged.	planning encouraged?		Chapter	

	Requirement	Guideline Questions	Yes/No	Location	Comments
	Contains 11 Required Elements in Sec. 4382(a)				
	1. A statement of objectives, policies and programs of the		Yes	Chapter II and Land Use Chapter	
44	municipality, to guide the future growth and development of				
7*	land, public services and facilities, and to protect the				
	environment.				
	A LAND HEE BLAN AND AND AND AND AND AND AND AND AND A	Does the plan include future and prospective land	Yes	Land Use Chapter and Maps 9 & 10	
	2. A LAND USE PLAN, consisting of a MAP and statement	uses - both descriptions and locations on a map?			
	present and prospective land use, indicating those areas				
	proposed for forests, recreation, agriculture, (using 6 VSA	Does the plan collectively indicate appropriate timing	Yes	Utility/Facility, Transportation, Land Use	
	Section 8), residence, commerce, industry, public and semi-	or sequence of land development in relation to		and Implementation Chapters	
45	public uses and open spaces reserved for flood plain, wetland	facilities and services?			
	protection, or other conservation purposes; and setting forth				
	the present and prospective location, amount, intensity and				
	character of such land uses and the appropriate timing or				
	sequence of land development activities in relation to the				
	provision of necessary community facilities and services.				
\vdash		Does the plan include an inventory of existing roads	Yes	Transportation Chapter and Maps 4 & 6	
	3. A TRANSPORTATION PLAN, consisting of a MAP and a		162	Transportation Chapter and Maps 4 & 6	
	statement of present and prospective transportation and	and other transportation facilities?	V	Transport of the Ohani	
	circulation facilities showing existing and proposed highways	*	Yes	Transportation Chapter	
	and streets by type and character of improvement, and where	problems in the community and the relative			
46	pertinent, parking facilities, transit routes, terminals, bicycle	seriousness of those problems?		T	
	paths and trails, scenic roads, airports, railroads and port	If relevant, does the plan include possible solutions	Yes	Transportation Chapter	
	facilities, and other similar facilities or uses, with indications of	that the community can work toward, as specified by			
	I	this element?	Vaa		
	priority of need.	Is the plan consistent with the currently adopted	Yes		
<u> </u>		Metropolitan Transportation Plan? Does the plan indicate the location, character, and	Yes	Utility/Facility and Open Space -	
	4. A UTILITY AND FACILITY PLAN, consisting of a MAP and	•	163	Recreation chapters, and Maps 3, 5, 7	
	statement of present and prospective community facilities and	capacity of existing community facilities and public		& 8	
	public utilities showing existing and proposed educational,	utilities as referenced in this element?			
	recreational and other public sites, buildings and facilities,	Does the plan describe how changes in population	Yes	Utility/Facility, Transportation, Open	
47	including hospitals, libraries, power generating plants and	will affect the need for services and facilities,		Space - Recreation, Land Use and	
7′	transmission lines, water supply, sewage disposal, refuse	indicating the priority of need?		Implementation Chapters	
	disposal, storm drainage and other similar facilities and	Does the plan indicate the recommended prospective	Yes	Utility/Facility, Transportation, Open	
	activities, and recommendations to meet future needs for	facilities to meet future needs, indicating their		Space - Recreation, Land Use and	
	community facilities and services, with indications of priority of	estimated costs and methods of financing?		Implementation Chapters	
	need, costs and methods of financing.				

48	irreplaceable natural areas, scenic and historic FEATURES AND RESOURCES.	Does the plan include one or more policy statements that document the community's commitment to take steps to ensure the preservation of the rare and irreplaceable features and resources in keeping with the goals of 24 VSA 4302? Recommendation: Include features from surrounding municipalities on your natural resource maps (and other maps if it makes sense to)?	Yes	Open Space - Natural Resources Chapter	
		Does the plan include statements and maps that collectively indicate the location, character and capacity of existing and prospective educational facilities?	Yes	Education Chapter and Map 5	
49	statement of present and projected uses and the local public school system.	Does the plan describe the ability of the local public school systems to meet the needs of children and adults, with specific reference to attendance trends, school facilities, and future needs?	Yes	Education Chapter and Map 5	
		While not required, it is encouraged that this element be written in conjunction with local school boards.	Yes	Education Chapter	The school was involved in the writing of this chapter and came to talk to the Planning Commission about it.
50		Does the plan include statements that identify programs the municipality expects to use to address the objectives in the plan?	Yes	Implementation Chapter	
30	objectives of the development plan.	When known funding, timeframe and responsible party can be helpful within the implementation element.	Yes	Implementation Chapter	
	trends and plans for ADJACENT MUNICIPALITIES, areas and the	Does the plan include statements that collectively indicate that the municipality examined and considered development trends for the municipality, adjacent municipalities and the region?	Yes	Chapter I	
	9. An ENERGY PLAN, including an analysis of energy resources,	Does the plan include an analysis of energy resources, needs, scarcities, costs and problems within the municipality?	Yes	Energy Chapter	
	needs, scarcities, costs and problems within the municipality, a statement of policy on the conservation of energy, including programs, such as thermal integrity standards for buildings, to	Does the plan include an energy conservation policy and programs to implement that policy?	Yes	Energy Chapter	
52	implement that policy, a statement of policy on the	Does the plan include a policy on the development and use of renewable energy resources?	Yes	Energy Chapter	

		Does the plan include a policy on how future development in the municipality can support energy conservation — both in terms of individual buildings and general land use patterns?	Yes	Energy Chapter
	10. A HOUSING ELEMENT that shall include a recommended program for addressing low and moderate income persons' housing needs as identified by the regional planning commission pursuant to Section 4348a (a) (9) of Title 24.	Does the plan include an inventory of the existing housing stock that identifies the number of housing units in each major type of housing in the community based on recent data?	Yes	Housing Chapter
		Does the plan compare the existing housing stock with recent population trends (such as changes in total population, households, and household size?	Yes	Housing Chapter
33		Does the plan assess the ability of municipal residents to reasonably afford safe, well-constructed, and efficient housing?	Yes	Housing Chapter
		Does the plan identify progress and/or implementation steps toward Regional Plan strategies and actions regarding housing? (NOTE: this will not come into effect until the new Regional Plan (aka ECOS Plan) is adopted)	Yes	Housing Chapter
		Does the plan identify present economic conditions	Yes	Business/Economic Development
١.,	l:	and the location, type and scale of desired economic		Chapter
	1	development, and identifies policies, projects, and programs necessary to foster economic growth?		
55	(12)(A) A flood resilience plan that: Note: this will take effect on July 1, 2014.			
56	Resources pursuant to 10 V.S.A. § 1428(a) or maps recommended by the Secretary, and designates those areas to be protected, including floodplains, river corridors, land adjacent	Does the plan identify flood hazard and fluvial erosion hazard areas, and designate these areas to be protected (including floodplains, river corridors, land adjacent to streams, wetlands, and upland forests) for the purposes of reducing the risk of flood damage to infrastructure and improved property?	Yes	Open Space - Natural Resource Chapter and Maps 1 and 11

57	identified and designated under subdivision (12)(A)(i) of this subsection and to mitigate risks to public safety, critical	Does the plan recommend policies to protect these areas and mitigate risks to public safety, critical infrastructure, historic structures and municipal investments?	Yes	Open Space - Natural Resource Chapter and Maps 1 and 11	
58	mitigation plan approved under 44 C.F.R. § 201.6.	Does the municipality have an existing local hazard mitigation plan approved under 44 C.F.R. § 201.6, and if so is it referenced in the Plan?	Yes	Open Space - Natural Resource Chapter and Maps 1 and 11	
		Guideline Questions	Yes/No	Location	Comments
	Compatible with the Current Regional Plan, Chap 117, Sec 4	4350(b)(1)(B)			
59	Planning areas		Yes	Map 10 and Land Use Chapter	
60	Goals and strategies		Yes	Implementation Schedule	
		Guideline Questions	Yes/No	Location	Comments
	Compatible with Plans in other municipalities, Chap 117, Sec	c 4350(b)(1)(C)			
	WILLISTON				
61	Land use		Yes	Map 10	Both municipalities have similar land use designations on both sides of the Winooski River-mostly residential along Route 2A and Floodplain & Industrial to the East.
62	Goals and objectives		Yes		
	SOUTH BURLINGTON				
61	Land use		Yes	Map 10	Both municipalities have similar land use designations on both sides of the Winooski River-Floodplain & Conservation.
62	Goals and objectives		Yes		
	ESSEX TOWN				

61	Land use				There are a variety of land use designations along the borders of the Junction and the Town. Both include mixed uses along Route 15; both include a variety of residential and open space between Route 2A and 15; the Junction is largely residential from Route 15 to Route 117 while the Town includes mixed use PUD, residential and a small section of mixed use land uses; and finally both the Junction and the Town have industrial south of Route 117. While there are some differences, it appears to be compatible.
62	Goals and objectives		Yes		
		Guideline Questions	Yes/No	Location	Comments
	Confirm planning process, Chap 117, Sec 4350(a)				
63	Continuing planning process resulting in approved plan		Yes		PC public hearing will take place on June 26th.
64	2. Maintaining efforts to provide local funds for municipal & regional planning				