#### **RESOLUTION NO. 1017**

A RESOLTION OF THE CITY OF UNIVERSITY PLACE, WASHINGTON, ADOPTING THE UPDATED SECTIONS 2 AND 5 OF THE REGION 5 ALL-HAZARD MITIGATION PLAN. 2020-2025 EDITION. AND THE CITY OF UNIVERSITY PLACE ADDENDUM TO THE REGION 5 HAZARD MITIGATION PLAN

WHEREAS, the Federal Disaster Mitigation Act of 2000 requires that for all disasters declared on or after November 1, 2004, applicants for sub-grants following any disaster must have an approved Natural Hazard Mitigation Plan in accordance with 44 CFR 201.6 prior to receipt of Hazard Mitigation Grant Program project funding; and

WHEREAS, the Federal Disaster Mitigation Act of 2000 requires that for Pre-Disaster Mitigation grant program project funding on or after November 1, 2003, applicants must have an approved Natural Hazard Mitigation Plan in accordance with 44 CFR 201.6 prior to receipt of project funding; and

WHEREAS, the All-Hazard Mitigation Plan Update represents the commitment of the City of University Place along with other surrounding government entities to reduce the risks from natural, manmade and technological hazards, serving as a guide for decision makers as they commit resources to reducing the effects of hazards; and

WHEREAS, the City of University Place has updated Sections 2 and 5 of the Hazard Mitigation Plan which includes an updated risk assessment that provides the factual basis for activities proposed in the mitigation strategies to reduce losses and vulnerabilities;

NOW, THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF UNIVERSITY PLACE, WASHINGTON, AS FOLLOWS:

Section 1. Region 5 All-Hazard Mitigation Plan 2020-2025 Edition. Updates to Section 2 and Section 5 of the University Place Addendum to the Region 5 All-Hazard Mitigation Plan, 2020-2025 Edition, are hereby adopted as set forth in substantially the format on file with the City Clerk.

Section 2. Effective Date. This resolution shall take effect immediately upon signing.

ADOPTED BY THE CITY COUNCIL ON S	SEPTEMBER 5, 2023.
	Steve Worthington, Mayor
ATTEST:	
Emelita J. Genetia, City Clerk	
APPROVED AS TO FORM:	
Matthew S. Kaser, City Attorney	

## **SECTION 2**

# REGION 5 ALL HAZARD MITIGATION PLAN 2020–2025 EDITION CITY OF UNIVERSITY PLACE PROFILE SECTION

# **Table of Contents**

TABLE OF CONTENTS	
MISSION STATEMENT	2
MISSION STATEMENT	2
GEOGRAPHY	2
GEOLOGY	2
CLIMATE	3
HISTORY	4
SERVICES SUMMARY	7
GEO-POLITICAL SUMMARY	7
POPULATION SUMMARY	
DEMOGRAPHICS	9
DEMOGRAPHIC ANALYSIS	
Land Use	
INFRASTRUCTURE SUMMARY	
GENERAL	
RESOURCE DIRECTORY	20
RegionalNational	
ENDNOTES	21

PAGE 2-1
REGION 5 ALL HAZARD MITIGATION PLAN – 2020-2025 EDITION
CITY OF UNIVERSITY PLACE ADDENDUM

## **Mission Statement**

### The Vision of the City of University Place is as follows:

University Place is a safe, attractive city that provides a supportive environment for all citizens to work, play, obtain an education and raise families. Children and youth are nurtured and encouraged to develop into competent, contributing citizens in a changing world. The physical and mental well-being and health of all individuals is valued. Violence is not tolerated. A cooperative community spirit and respect for each other – our commonalities and differences – foster a diverse cultural, spiritual and ethnic life and prepares us for future challenges.

# Geography

Located just to the southwest of Tacoma, University Place is Pierce County's fourth largest city (behind Tacoma, Lakewood and Puyallup). The City was developed on land lying just south of the Tacoma Narrows between the Cities of Lakewood, Fircrest, and Tacoma and the very northwest corner of the Town of Steilacoom.

Located along the shoreline of south Puget Sound, at latitude 47.235N and longitude 122.549W, the City encompasses approximately 8.4 square miles and covers two distinct geographic areas. The City's most prominent geographic feature is the approximately 5 miles of shoreline and hillside rising from it running from NE to SW along the west side of the City. The rest of the City lies on the plateau formed by the deposition of material left by the glacial advances which covered Western Washington up until approximately 10,000 years ago.

The main business portions of the City lie along a few main arterials. Running north and south through the City, Bridgeport Way forms the core of the business section and includes the town center. Towards the north end of Bridgeport, 27<sup>th</sup> Street West forms an east/west corridor from its intersection with Fircrest to Grandview on the west. Elevation in University Place can range from sea level to above 420 feet above sea level (see University Place Base Map).

No major state highways connect the City to surrounding jurisdictions. Rather a series of arterials connect the City to Fircrest, Tacoma, Lakewood and Steilacoom.

University Place contains 99.29 acres of parkland distributed in seventeen parks. These range in size and development. The smallest is a small section of undeveloped land just north of the west end of the Day Island Bridge containing 0.15 acres. At the other extreme is Cirque/Bridgeport Park which contains 22.5 acres. In addition to this, Pierce County owns 950 acres of land listed as the Chamber Creek Properties. This land located along the southwest portion of the City contains the County's wastewater treatment plant and the Chambers Bay golf course. In addition, there are playfields and other park facilities on the property.

# **Geology**

The geology of University Place is characterized by sediments laid down during Quaternary periods of glacial advance and retreat.

The Fraser glaciation was the last major glacial period and lasted about 10,000 years. During this period the advance of Cordilleran ice sheet from British Columbia into the Puget Sound area reached its maximum extent around 15,000 years ago. The ice sheet split into the Juan de Fuca and Puget ice lobes as it encountered the Olympic Mountains. The Puget ice lobe moved south through what is now Pierce County, covering the area that is now University Place and extending south into Thurston County. During this time the ice sheet had numerous smaller advances and retreats. One of these was the Vashon Advance. Although short-lived the Vashon Advance had a major effect on the eventual topography of University Place. Overlaying older deposits Vashon drift and Vashon till make up the surficial geology of University Place and the rest of Fire District 03. When major climatic changes occurred about 10,000 years ago, the Fraser glaciation ended, leaving University Place much as we know it today.

Vashon till makes up most of the City underlying the central and northern portions, coming almost as far south as New Tacoma Cemetery on the west and nearly as far south as Chambers Creek Road to the east of the cemetery. This material is characterized by a mixture of gray, unsorted, unstratified, highly compacted mixture of clay, silt, sand, gravel, and boulders deposited directly by glacier ice.<sup>1</sup>

Vashon Drift make up the southern portions of the City with an arm extending northward along the course of Leach Creek. This material contains undifferentiated chiefly recessional and proglacial stratified outwash sand and gravel.

Approximately 13,600 years ago the ice sheet had receded into a single lobe located in the northern Puget lowlands. During this glacial retreat, glacial damming formed large temporary lakes. The Vashon Drift material shows evidence for this in containing lacustrine deposits, silt, and clay.

## **Climate**

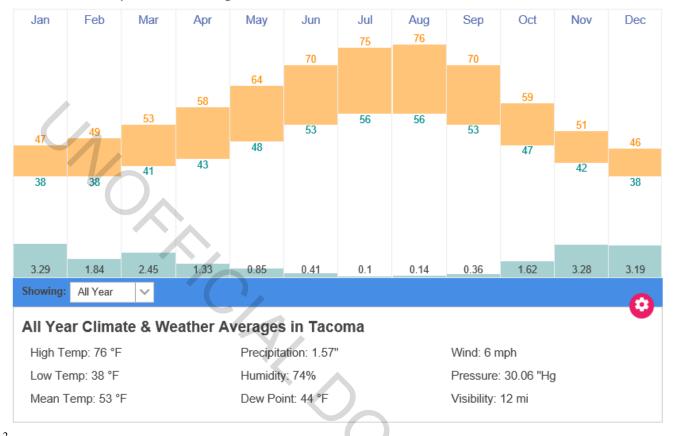
The City experience a typical maritime climate of mild, wet winters and relatively cool, dry summers. Definite seasons are evident, with the rainy season generally from October through April. Precipitation is usually in the form of rain with occasional snow during the winter.

Climate data collected for 30 years from the area around the Tacoma Narrows Airport shows an average annual precipitation rate of approximately 1.57 inches, with average temperatures ranging between a minimum of 38 degrees in December and a maximum of 76degrees in August.

### **Annual Weather Averages Near Tacoma**

Averages are for Tacoma Narrows Airport, which is 7 miles from Tacoma.

Based on weather reports collected during 1985-2015.



With the cooler temperatures in November through March, snow or ice can occasionally be found in University Place although there may be none close to Puget Sound along Sunset Beach or Day Island. Generally, with the temperate maritime climate, any problems, transportation or otherwise, with ice or snow are of a short duration, lasting from a few hours to a couple of days.

# **History**

The first Indigenous Peoples living throughout the coastal areas of Pierce County were the Squaxin, Puyallup, and Nisqually Tribes; all close relatives of other Coast Salish tribes within Puget Sound and lived within the general vicinity surrounding the area which is now University Place. The Indigenous Peoples lived along both the southern portions of Puget Sound and the rivers entering it.

The first known contact between Indigenous Peoples in the region and Westerners was in 1792 when Captain George Vancouver spent time in Pierce County exploring and surveying the southern portions of Puget Sound. The first European to traverse the region was 21-year-old Dr. William Fraser Tolmie who passed through in 1833.

PAGE 2-4
REGION 5 ALL HAZARD MITIGATION PLAN – 2020-2025 EDITION
CITY OF UNIVERSITY PLACE ADDENDUM

In 1841 Lt. Charles Wilkes spent 3 months exploring the Puget Sound area giving names to many of the features he found around the Sound. On his map of that time he names Day, Fox, McNeil, and Anderson Islands. He also named the Narrows, Point Fosdick and Toliva Shoal which sits off the coast of University Place. His map of the area shows the area encompassing University Place as being within the influence of the Nisqually nation. However, many of the areas along the coast were used by more than one Indigenous People's group. Early records reveal that Day Island was initially used by Indigenous Peoples from both Steilacoom and Wollochet Bay as a temporary camp for fishing and duck hunting.<sup>3</sup>

By the 1850s settlers had begun to move into the area. Many if not most of these were discharged workers from the Hudson's Bay Company at Fort Nisqually.

Fort Nisqually, the first European settlement on Puget Sound was named after the Nisqually Tribe in whose territory it was built. It was established by Archibald McDonald of the Hudson's Bay Company (HBC) of London in the spring of 1833 initially as a store house and later as a trading post. The original site was on the beach and plains above the Nisqually River delta a few miles to the south of University Place in the present town of DuPont, Washington. It provided a focal point for settlers moving into the areas which later became Pierce and Thurston Counties and later yet University Place. Later after the transfer to the United States of land in Washington State, Fort Steilacoom was started on the grounds of what is now Western State Hospital, just south of University Place.

During this period there began to be a greater influx of settlers from the United States. The first of these trekked over land, crossing Naches Pass in the Cascades in the fall of 1853. The impetus for this movement was the Oregon Land Law that had been passed by Congress in 1850. It allowed a single man to claim 320 acres or a married man 640 acres.

In 1856, settlement began to expand throughout the County. Later in the 19<sup>th</sup> century, in the area to the north of Fort Steilacoom, the early industry revolved around logging and slightly later a fruit and berry agriculture developed. Eventually as a wealth began to flow into Pierce County summer cottages began to dot the landscape overlooking the Sound.

One of the early business ventures was the Sunset Beach Hotel, built in 1890. Access to the hotel was either down a carriage road from the plateau above or by steamer that pulled into the dock bringing passengers from Tacoma or Olympia. The hotel eventually burned down in 1904 and was never rebuilt. In 1911 slightly to the north of Day Island at Titlow beach the Hotel Hesperides was built. Today a portion of it still stands as the Titlow Lodge. The next major enterprise to move through the area was the railroad which built a line along the coast and through the Pt. Defiance tunnel. However, there were no stops along the route from Olympia until it reached Tacoma.

The small portion of University Place called Day Island was originally deeded to Anthony Roberts Williamson as part of his homestead which ran along the coast to the south of where the Day Island Bridge is currently situated.

University Place, located just west and southwest of Tacoma on Puget Sound, was named for the projected campus of Puget Sound University which was to be built there near the turn of the century. The Methodist Church had acquired 420 acres of land near present day Lemons Beach and Parkway Loop, 60 for the planned campus and the rest for lots, the sale of which they planned to use to fund the construction of the University. The area was platted by the University Land Company on September 23, 1895. However, the financial panic of 1893 had devalued the land and it was eventually forfeited for non-payment of taxes and sold in 1901.

In November 1994 proponents interested in improving public services, making capital improvements to the community and establishing local control over development, succeeded in passing a ballot measure which established 7.86 square miles of unincorporated Pierce County into the City of University Place.

Over the next nine months all the requirements toward meeting the deadlines associated with legally establishing a new city and providing municipal services were met. Council members were elected, an interim city manager selected, and start-up staff hired. This led to its incorporation as a city on August 31, 1995.

#### Significant Events Since Incorporation of University Place

#### 1996

- City contracts with Pierce County for police services. Response times reduced dramatically.
- City annexes into Fire District 03.
- City transportation planning effort to rebuild and improve Bridgeport Way.

#### 1997

- First roundabout in the State installed on Grandview Drive.
- City buys Homestead Park and Cirque Bridgeport Park.

#### 1999

• Fircrest Acres annexation.

#### 2000

• I-695 passes, reducing city general fund by approximately 25%.

#### 2001

• Fire District builds new Public Safety Building near City Hall.

#### 2002

• City drafts first town center plan, setting standards for commercial development in the city's primary business district.

#### 2006

• Cirque/Bridgeport Park and Ballfields are opened.

#### 2007

· Chambers Bay Golf Course opens to the public.

#### 2008

• The Great Recession results in over a 30% staff reduction in force.

#### 2015

• City hosts the 2015 U.S. Open at Chambers Bay.

#### 2019

- City Hall moves to the Civic Building.
- The final phase of the Bridgeport Improvement project is completed, capping a 23-year effort which resulted in a 60% reduction in accidents in the corridor.

#### 2020

Worldwide COVID-19 Pandemic.

#### 2023

 Proposition No. 1 - Levy Lid Lift for dedicated law enforcement funding is approved by voters.

# **Services Summary**

The City of University Place was incorporated in August of 1995. The City provides the following services through their own capabilities:

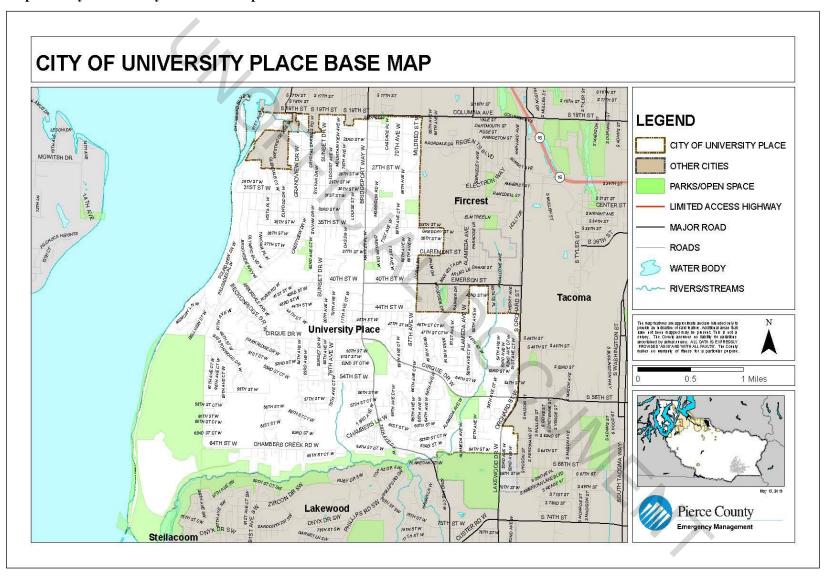
Table 2-1 City Services<sup>4</sup>

	CITY S	ERVICES	
Service		Service	
Mayor/City Manager	Yes	Municipal Airport	No
City Attorney	Yes	Municipal Court	Yes
City Clerk	Yes	Public Works/Improvements	Yes
City Treasurer		Comprehensive Planning	Yes
Sheriff or Police	Contract	Parking Meter Revenue	Yes
Parks Commissioners	Yes	Construction and Operation of Boat Harbors, Marinas, Docks, etc.	No
City Council	Yes	Issue Bonds and Levies of General Tax	Yes
License and Tax Fees	Yes	Fire Department/EMS	No
Non-Polluting Power Generation	No	Parking, Off-street Facilities	Yes
Hydroelectric Resources	No	Sanitary Landfill/Refuse Service	Franchise
Radio Communications	No	Sidewalks	Yes
Streets	Yes	Storm Drains	Yes
Wastewater Treatment	No	Streets/Alleys	Yes
Water Utility	No	Parks and Parkways	Yes
Public Transportation Systems	No	Water Pollution Abatement	Yes
Residential Care Facilities	No	Local Improvement Districts	No
Child Care Facilities	No		
Geo-Political Summary			
Table 2-2 Geo-Political Summary <sup>5</sup>		Regional Part	ners
Area Elevation		Acgioliai I ai t	11013

# **Geo-Political Summary**

Area Elevation		Elevation		Regional Partners		
Jurisdiction	(sq mi)	Range (ft.)	Major Water Features	Shared Borders	Land Use Authorities	
City of University Place	7.03	0-400	<ul> <li>Chambers Clover Watershed</li> <li>2-Chambers Bay Basin</li> <li>18-Tacoma West Basin</li> <li>Puget Sound</li> </ul>	<ul><li>Fircrest</li><li>Tacoma</li><li>Lakewood</li><li>Steilacoom</li></ul>	<ul> <li>University Place</li> <li>Lakewood</li> <li>Fircrest</li> <li>Tacoma</li> <li>Unincorporated Pierce County</li> </ul>	

**Map 2-1 City of University Place - Basemap** 



PAGE 2-8
REGION 5 ALL HAZARD MITIGATION PLAN – 2020-2025 EDITION
CITY OF UNIVERSITY PLACE ADDENDUM

# **Population Summary**

## Demographics

Table 2-3 Population<sup>6, 7, 8, 9</sup>

Jurisdiction	Population	Population Density (people/sq mi)	Population Served	Projected Year 2022 Population Change (%)	Projected Population Density	Projected 2022 Population Served
City of University Place	33,090	4,209	33,090	2%	4,292	33,738
Region 5	795,225	440	795,225	-18.39%	359	648,895

# **Special Populations**

Special Populations<sup>10</sup>

Special 1 Spaintions					
Jurisdiction	Population	Population 65 Plus	% of Total	Population Under 20	% of Total
City of	29,025	4,055		9,690	
University	(2010	(2010	14%	(2010	33%
Place	Census)	Census)		Census)	
Region 5	795,225	87,770	11%	220,351	28%

## **Demographic Analysis**

As of April 1, 2019, University Place's population estimate was 33,090. The largest growth has been the result of residential development. There is a limited ability for the city to expand its population base. University Place's Urban Growth Area extends only to the City boundaries. Since it is bordered almost totally by Tacoma, Fircrest, Lakewood and Steilacoom there is essentially no ability to expand geographically.

# **Economy**

Historically the economic mainstay of University Place has been comprised of a mixture of small business. There are no large industrial areas. The closest thing to large industry was the gravel mining operation run by Glacier Northwest that went on along the southwestern coast of the community. The land it was on was leased to it by the County and it finally closed its doors in the summer of 2003.

There is no airport inside University Place. The closest, Tacoma Narrows Airport, lies across the Tacoma Narrows on the Kitsap Peninsula. In addition, it is eight miles from the Port of Tacoma. Neither of the railroads, Burlington Northern or Union Pacific, make stops in University Place. While tracks run along the coast on the western boundary of the City, they transport containers and general freight through the City without stopping. Passenger train service is the same, traveling along the edge of the City and stopping in Tacoma to the east. While the coast makes

up a large portion of the University Place boundary, there are no port facilities or ferry terminals and only one small marina by Day Island. All goods must then be brought in by truck from distribution centers located elsewhere.

Early lumbering initially cleared much of the land and while homesteading went on and eventually many homes were built, it was not until incorporation that there be began to be more of an emphasis on business development. Since incorporation, steady growth in urbanization has occurred in the heart of the City, especially along Bridgeport Way. In 2017, Council adopted the University Place Regional Growth Center Subarea Plan thereby creating a 465-acre commercial, multi-family and mixed-use area within the center of the City. The adoption of the plan will bolster an already growing economic core which houses both national and local boutique retail outlets.

<b>Table 2-4: 2018 Top Ten M</b>	ajor Employers <sup>11</sup>
U.P. School District	530 employees
CHI Franciscan Health	335 employees
Fred Meyer Stores *	259 employees
West Pierce Fire and Rescue	185 employees
Whole Foods	165 employees
Pierce County Government	153 employees
Charles Wright Academy	143 employees
Kemper Sports	126 employees
University Place Care Center**	157 employees
Safeway	88 employees

Today major retail, healthcare, government, and the school district employ the majority of those who work in University Place. The University Place School District, CHI Franciscan Health, and Fred Meyer are the largest employers with 530, 335, and 259 employees respectively. Taxable retail sales were \$349.96 million in 2018. The business economy is distributed with retail trade forming 40.6%, contracting 18.4%, services 19.6%, transportation and utilities 6.1%, wholesale trade 4.0%, finance, insurance, and real estate 3.3%, manufacturing 1.5%, government 1.6%, and other 4.8%. 12

# Economic Summary Table 2-5 Fiscal Summary<sup>13</sup>

Jurisdiction	Operating Costs (per month)	Operating Budgeted Revenues <sup>14</sup>	Operating Budgeted Expenditures <sup>15</sup>	Fund Balance as % of Operating Cost	Avg Fund Balance (5 yrs)
City of University Place	2,362,042	43,489,473	28,344,498	53.43%	16,159,677

Economically the citizens of University Place closely mirror the trends found in both Pierce County and the State. Those living at or below the poverty line have seen an increase since 2000. University Place's percentage of 11.3% of the population at or below poverty compares to Pierce County at 12.2% and Washington State with 12.2 % (Id. Footnote 14).

The 2017 American Community Survey shows the median value of housing to be \$319,900 (Id. Footnote 14). This is over an 80% increase from the 2000 census. The Puget Sound region far outpaced the national average in home sale prices after the Great Recession.

<sup>\*</sup> Head count, FTE not available

<sup>\*\*</sup>Unresponsive to survey, indicates at least 100 employees

The issue of affordable housing and the continued stasis of low interest rates helped fuel the phenomenon increasing housing costs in the greater Seattle area.

While the market shows signs of stabilization, there is a continued demand for affordable housing that may or may not be wholly met by current construction rates. The 2018 assessed value for the City is \$3.8 billion. The economic core of the City lies along Bridgeport Way and development will continue to expand in that area. A new City Hall and recently

Table 2-6. Income: 2017 Census Comparison of						
University F	University Place with Pierce County and Washington State <sup>16</sup>					
	University Place	Pierce County	Washington State			
	2017	2017	2017			
Median Household Income	\$64,883	\$63,881	\$66,174			
Median Family Income	\$82,476	\$76,671	\$80,233			
Median Per Capita Income	\$35,257	\$31,157	\$34,869			

added Fire Station act to anchor the area as a developing core.

### Land Use

University Place currently has both developed and undeveloped land creating just over 120 acres. These can be seen in Table 2-7 Park Lands.

University Place is now built out at urban density. Any growth the City expects to have from this point forward will be through infill development.

**Table 2-7 Park lands in University Place** 

Property	Acres	Property	Acres
Adrianna Hess Wetland Park	2	Homestead Park	5.5
Brookridge Trail Easement	1.5	Kobayashi Park	5.5
Brookside Park	2.6	Leach Creek Conservation Park	13
Chambers Crest Wildlife Habitat	7.5	Paradise Pond Park	9.5
Cirque/ Bridgeport Park	27	Pemberton Creek Open Space	5.0
Colegate Park	12	Riconosciuto Park	5.0
Colegate Play Area	1	Senior Center	0.5
Conservation Park	1.5	Sunset Terrace Park	2.25
Creekside Park	15	UPP Play Area	1
Curran Apple Orchard	7.3	Woodside Pond Nature Park	3.59
Day Island SWM Open Space	2.5	Total	125.24

Table 2-8 University Place Land Use Designations and Implementing Zones			
Land Use Designations	Implementing Zones		
Single Family Residential (R1)	Residential 1 R1		
Provides for primarily single-family	Provides for primarily single-family		
neighborhoods. Enhances and protects the	neighborhoods. Enhances and protects the		
character of single-family neighborhoods by	character of single-family neighborhoods by		
disallowing inappropriate uses, limiting traffic	disallowing inappropriate uses, limiting traffic		
impacts, requiring design standards, preserving	impacts, requiring design standards, preserving		
and protecting the environment and providing	and protecting the environment and providing		
recreational facilities. Allows densities	recreational facilities. Allows densities		
ranging from 4 to 6 dwelling units per acre.	ranging from 4 to 6 dwelling units per acre.		
Two Family Residential (R2)	Residential 1 R2		
Provides for a mix of housing types and	Provides for a mix of housing types and		
densities while maintaining healthy residential	densities while maintaining healthy residential		
neighborhoods. Enhances and protects the	neighborhoods. Enhances and protects the		
character of neighborhoods by disallowing	character of neighborhoods by disallowing		
inappropriate uses, limiting traffic impacts,	inappropriate uses, limiting traffic impacts,		
requiring design standards, preserving and	requiring design standards, preserving and		
protecting the environment and providing	protecting the environment and providing		
recreational facilities. Allows densities	recreational facilities. Allows densities		
ranging from 6 to 8 dwelling units per acre.	ranging from 6 to 8 dwelling units per acre.		
Multi-Family (MF)	Multi-Family Residential MF		
Provides for higher density residential	Provides for higher density residential		
development along major arterials and transit	development along major arterials and transit		
routes, close to shopping, public facilities and	routes, close to shopping, public facilities and		
services. Allows densities ranging from 10 to	services. Allows densities ranging from 10 to		

12 dwelling units per acre.

12 dwelling units per acre.

### Mixed Use-Office (MU-O)

Serves as a transition zone providing separation between more intense commercial activities and residential areas and between the Neighborhood Commercial and Town Center land use designations. Uses include community and cultural services, administrative government services, minor utility facilities, multi-family and single-family housing. Allows densities ranging from 10 to 12 dwelling units per acre.

### **Mixed Use-Office MU-O**

Serves as a transition zone providing separation between more intense commercial activities and residential areas and between the Neighborhood Commercial and Town Center land use designations. Uses include community and cultural services, administrative government services, minor utility facilities, multi-family and single-family housing. Allows densities ranging from 10 to 12 dwelling units per acre.

### Mixed Use (MU)

Provides areas for compatible residential and commercial uses along major arterial streets. Serves as a transition between the more intense Town Center zone and Single-Family Residential zone. Encourages a mix of retail, personal services, offices and residential use within developments. Allows densities ranging from 10 to 12 dwelling units per acre.

### Mixed Use MU

Provides areas for compatible residential and commercial uses along major arterial streets. Serves as a transition between the more intense Town Center zone and Single-Family Residential zone. Encourages a mix of retail, personal services, offices and residential use within developments. Allows densities ranging from 10 to 12 dwelling units per acre.

### **Neighborhood Commercial (NC)**

Provides for small compact centers with a mix of neighborhood scale retail shopping, services, banks, professional offices, public parks, community and cultural services, government and safety services that serve the daily needs of local residents and businesses. Single-family dwellings are permitted.

### **Neighborhood Commercial NC**

Provides for small compact centers with a mix of neighborhood scale retail shopping, services, banks, professional offices, public parks, community and cultural services, government and safety services that serve the daily needs of local residents and businesses. Single-family dwellings are permitted.

### **Town Center (TC)**

Serves as a focal point for the city and provides a sense of community and civic pride. Encourages pedestrian oriented development and discourages drive through establishments. Provides area for a mix of public facilities and services, retail stores personal services, professional offices, restaurants, entertainment and other mixed uses. Allows densities ranging from 10 to 12 dwelling units per acre.

### **Town Center TC**

Serves as a focal point for the city and provides a sense of community and civic pride. Encourages pedestrian oriented development and discourages drive through establishments. Provides area for a mix of public facilities and services, retail stores personal services, professional offices, restaurants, entertainment and other mixed uses. Allows densities ranging from 10 to 12 dwelling units per acre.

### Commercial (C)

Allows concentrated commercial development in locations which best serve the community and protect existing residential areas. This designation is primarily auto oriented with customers drawn from more than just adjacent neighborhoods but encourages pedestrian friendly development.

### **Commercial C**

Allows concentrated commercial development in locations which best serve the community and protect existing residential areas. This designation is primarily auto oriented with customers drawn from more than just adjacent neighborhoods but encourages pedestrian friendly development.

## **Light Industrial-Business Park (IB)**

Encourages clean light industrial and business park uses in appropriate location. Provides the opportunity for local employment by attracting a variety of businesses.

### **Light Industrial-Business Park IB**

Encourages clean light industrial and business park uses in appropriate location. Provides the opportunity for local employment by attracting a variety of businesses.

### **Public Facility (PF)**

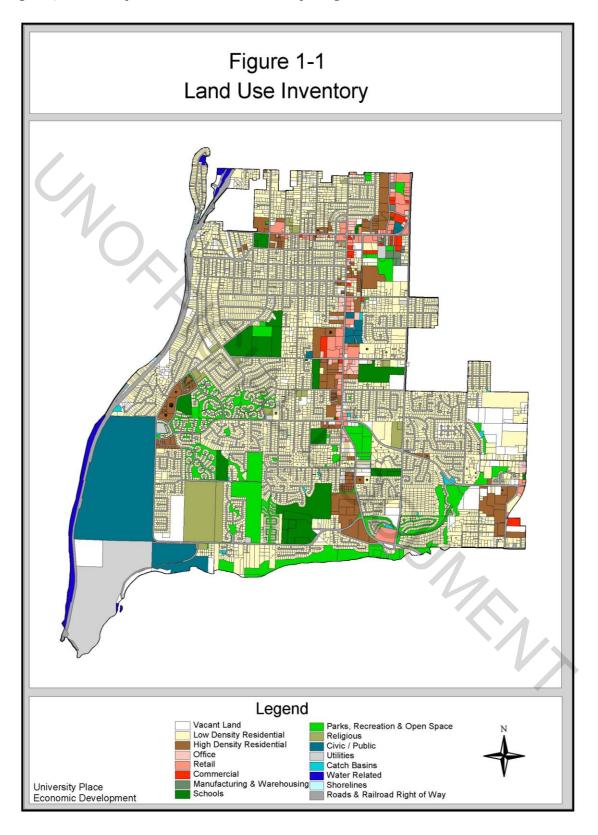
Includes property currently owned or operated by a public entity including fire stations, public schools and parks.

### **Public Facility PF**

Includes property currently owned or operated by a public entity including fire stations, public schools and parks.

Map 2-2, University Place Land Use, gives an overview of the land use in the City. At this time visually, there is little undeveloped space left within the City boundaries.

Map 2-2, University Place Land Use Intensity Map<sup>18</sup>



The development of University Place as a City has allowed them to focus resources in certain areas where they had not been in the past. The development of a core area along Bridgeport Way associated with commercial enterprise and the development of a town center with public facilities are two of the changes the City has pursued these last 10 years and will continue to pursue for the foreseeable future.

The development of the Leach Creek area will be an integrated approach looking at the surrounding densities and types of use as well as the steepness of the slopes along the creek, and its associated wetlands. This area contains the greatest potential for non-tidal flooding in the City and this will need to be taken into consideration as well. The City's comprehensive plan addresses the Leach Creek area specifically. The overriding goal for Leach Creek is "Establish a plan for future integrated development of the Leach Creek area...Ensure public facilities and services including sewers and public roads adequately serve the area. Determine uses and densities, which are appropriate considering surrounding densities, land uses, steep slopes, Leach Creek, and wetland areas."<sup>20</sup> One of the policies

Table 2-9 - Existing Land Use in University Place<sup>19</sup>.

		1
Type of Use	Acres	% <sup>2</sup>
Residential		
R1	3,675	75
R2	393	8
Multi-family	265	5
Residential Total	4,333	88
Commercial		
MU-O	30	.6
MU	66	1.4
C	25	.5
NC	52	1.0
Commercial Total	173	3.5
Other Land Use Categories		
TC	90	1.7
IB	62	1.3
PF	217	4.5
Other Land Use Total	369	7.5
Total All Uses	4,875	100
Vacant Land		
Residential	614	24
Commercial	37	1.5
Industrial	0	0
Open space/Other	888	35
Buildable Total	1,539	60.5
Unbuildable Critical Areas (slopes>40% & wetlands, etc.)		
UnbuildableTotal	982	39.5
Column Total	2,521	100

coming from this is to consider the steep slopes and the associated wetlands. This would include clustering and using low impact development techniques to mitigate the problems.

# **Infrastructure Summary**

## General

Table 2-10 Parcel Summary<sup>21</sup>

Jurisdiction	risdiction # Parcels		Average Land Value	Improved Value	Average Improved Value			
City of University Place	11,155	2,091,615,600	187,504	3,118,666,800	279,575			
Region 5	328,831	\$55,032,560,799 \$167,358 \$82,766,510,038		\$251,699				

Jurisdiction	Total Assessed Value	Average Assessed Value				
City of University Place	4,648,894,522	416,754				
Region 5	\$137,799,070,837	\$419,057				

Table 2-11 Housing Summary<sup>22</sup>

<b>Jurisdiction</b>	# Houses	Housing Density	Avg Year Built	Avg Year Built (%)
City of University Place	12,888	1,640	<ul> <li>&lt;1939: 328</li> <li>1940 – 1979: 6,630</li> <li>1980 – 2009: 5,861</li> <li>2010&gt;: 249</li> </ul>	<ul> <li>&lt;1939: 2%</li> <li>1940 – 1979: 51%</li> <li>1980 – 2009: 45%</li> <li>2010&gt;: 2%</li> </ul>
Region 5	291,983	162	<ul> <li>&lt;1939: 34,368</li> <li>1940 – 1979: 126,363</li> <li>1980 – 2004: 139,894</li> <li>2005&gt;: 22,830</li> </ul>	<ul> <li>&lt;1939: 10.6%</li> <li>1940 – 1979: 39%</li> <li>1980 – 2004: 43.2%</li> <li>2005&gt;: 7.1%</li> </ul>

## Jurisdiction Infrastructure

The following table shows the overview of infrastructure owned by the City of University Place. The infrastructure is categorized according to the infrastructure sectors as designated by the Department of Homeland Security. This table is intended as a summary only.

For further details on Department of Homeland Security infrastructure sectors, please see the Process Section 1.

Table 2-12 Owned Infrastructure<sup>23</sup>

Fotal structure	Emerg. Services	Tele- comm	Transpor -tation	Water	Energy	Govern- ment	Comm -ercial	Total Value (\$)
121	0	0	0	0	0	121	0	\$29,150,200

Table 2-13 Employment Profile<sup>24</sup>

Employment Category (SIC)	City of University Place	Pierce County
Construction/Res	359	24,297
Finance, Insurance, and Real Estate (FIRE)	277	13,640
Manufacturing	63	17,239
Retail	1,051	34,957
Services	3,285	132,801
Warehousing, Transportation, and Utilities (WTU)	157	30,278
Government	459	34,915
Education	820	24,382

Table 2-14 City of Unemployment Rate<sup>25</sup>

	nemployment Rate <sup>23</sup>
Jurisdiction	<b>Unemployment Rate</b>
City of University	4.3%
Place	
Region 5	7.5%
WA State	8.4%
	· ( )

Table 6-15 North American Industry Classification System (NAICS)Table Key

2-DIGIT NAICS RATING	NAICS CATEGORIES
11	Agriculture, Forestry, Fishing and Hunting
21	Mining
22	Utilities
23	Construction
31-33	Manufacturing
42	Wholesale Trade
44-45	Retail Trade
48-49	Transportation and Warehousing
51	Information
52	Finance and Insurance
23	Real Estate and Rental and Leasing
54	Professional, Scientific and Technical Services
55	Management of Companies and Enterprises
56	Administrative and Support and Waste Management and Remediation Services
61	Educational Services
62	Health Care and Social Assistance
71	Arts, Entertainment and Recreation
72	Accommodation and Food Services
81	Other Services (except Public Administration)

Table 6-16 North American Industry Classification System (SIC)Table Key Major sector categories combine NAICS categories as follows

SECTOR INDUSTRY COMBINED (SIC)	
Construction and Resources (Const/Res): 11,21,23	
Finance, Insurance and Real Estate (FIRE): 52,53	
Manufacturing: 31-33	
Wholesale Trade	
Services: 51, 54-56, 61 (private-sector portion), 62,71,72,81	
Wholesale Trade, Transportation, and Utilities (WTU): 22, 42, 48,	
Government: Public-sector employment, excluding education	
Education: 61 (public-sector portion)	

# **Resource Directory**

## Regional

- **City of University Place** http://www.cityofup.com/
- **Pierce County Government** https://co.pierce.wa.us/
- Pierce County DEM https://www.co.pierce.wa.us/104/Emergency-Management
- **Pierce County Planning & Public Works** https://www.co.pierce.wa.us/4999/Planning-Public-Works
- **Municipal Research & Services Center of Washington (MRSC)** http://www.mrsc.org/

### **National**

**US Census** www.census.gov/

## **Endnotes**

<sup>&</sup>lt;sup>1</sup> Geologic Map of the south half of the Tacoma Quadrangle, Washington, compiled by Timothy J. Walsh, Washington Division of Geology and Earth Resources, Open File Report 87-3, 1987, p.4.

<sup>&</sup>lt;sup>2</sup> https://www.timeanddate.com/weather/usa/tacoma/climate

<sup>&</sup>lt;sup>3</sup> Telephone conversation with Marcia Willoughby Tucker, historian and author of Day Island: a Glimpse of the Past.

<sup>&</sup>lt;sup>4</sup> Information from survey completed by the City.

<sup>&</sup>lt;sup>5</sup> Information from Pierce County GIS application, County View Pro (October 2019).

<sup>&</sup>lt;sup>6</sup> "Population" from Census 2010, Office of Financial Management, Information from Pierce County GIS application, CountyView Pro 10/4/2019.

<sup>&</sup>lt;sup>7</sup> "Projected Population Change (%)" from Pierce County Buildable Lands Report, Dec. 2007.

<sup>&</sup>lt;sup>8</sup> "Projected Population Density" is based on an assumption of the jurisdiction maintaining the same geographic area and boundaries. It does not consider changes in annexation, district mergers, etc.

<sup>&</sup>lt;sup>9</sup> "Projected 2022 Population" from Pierce County Buildable Lands Report, Dec. 2007.

<sup>&</sup>lt;sup>10</sup> "Special Population" from Census 2010, Office of Financial Management Information from Pierce County GIS application, CountyView Pro 10/4/2019.

<sup>11</sup> Economic Development Board Tacoma-Pierce County Major Employers Publication, 2018.

<sup>&</sup>lt;sup>12</sup> Comprehensive Annual Financial Report for the year ended December 31, 2018, City of University Place, Washington, Table 11.

<sup>&</sup>lt;sup>13</sup> 2019 - Budgeted Amounts (from Ord. 718, Exhibit A-1), and 2015-2018 CAFR.

<sup>&</sup>lt;sup>14</sup> Non-Capital

<sup>&</sup>lt;sup>15</sup> Non-Capital

<sup>&</sup>lt;sup>16</sup> https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?src=CF

<sup>&</sup>lt;sup>17</sup> http://mrsc.org/Home/Explore-Topics/Finance/Economic-and-Population-Data/Population-Property-and-Sales-Tax-Archive.aspx

<sup>&</sup>lt;sup>18</sup> University Place Development Services

<sup>&</sup>lt;sup>19</sup> 2005 information from David Swindale, Planning Manager, University Place Development Services

<sup>&</sup>lt;sup>20</sup> City of University Place Comprehensive Plan, p 1-13, 12/06/04.

<sup>&</sup>lt;sup>21</sup> Information from Pierce County GIS application, County View Pro 10/4/2019.

<sup>&</sup>lt;sup>22</sup> Information from Census 2010, Office of Financial Management.

<sup>&</sup>lt;sup>23</sup> Information provided by the City of University Place based from the Department of Homeland Security (DHS) Infrastructure sectors.

<sup>&</sup>lt;sup>24</sup> I Information from Puget Sound Regional Council based on 2018 data. https://www.psrc.org/covered-/WW. employment-estimates.

<sup>&</sup>lt;sup>25</sup> Information from Census 2010, Office of Financial Management.

(This page left blank intentionally)



## Section 5

# **Mitigation Strategy Requirements**

### Mitigation Strategy---Requirement §201.6(c)(3):

The plan **shall** include a strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.

### Local Hazard Mitigation Goals---Requirement §201.6(c)(3)(i):

[The hazard mitigation strategy **shall** include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

 Does the new or updated plan include a description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards?

#### Identification and Analysis of Mitigation Actions---Requirement §201.6(c)(3) (ii):

[The mitigation strategy **shall** include a] section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.

Identification and Analysis of Mitigation Actions: National Flood Insurance Program (NFIP) Compliance---Requirement §201.6(c)(3)(ii):

[The mitigation strategy] must also address the jurisdiction's participation in the National Flood Insurance Program (NFIP), and continued compliance with NFIP requirements, as appropriate.

- Does the new or updated plan identify and analyze a **comprehensive range** of specific mitigation actions and projects for each hazard?
- Do the identified actions and projects address reducing the effects of hazards on new buildings and infrastructure?
- Do the identified actions and projects address reducing the effects of hazards on existing buildings and infrastructure?
- Does the new or updated plan describe the jurisdiction(s) participation in the NFIP?
- Does the mitigation strategy identify, analyze and prioritize actions related to continued compliance with the NFIP?

#### Implementation of Mitigation Actions---Requirement: §201.6(c)(3) (iii):

[The mitigation strategy section **shall** include] an action plan describing how the actions identified in section (c)(3)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization **shall** include a special emphasis on the extent to which benefits are maximized according to a cost benefit review of the proposed projects and their associated costs.

- Does the new or updated mitigation strategy include how the actions are prioritized? (For example, is there a
  discussion of the process and criteria used?)
- Does the new or updated mitigation strategy address how the actions will be implemented and administered, including the responsible department, existing and potential resources and the timeframe to complete each action?
- Does the new or updated prioritization process include an emphasis on the use of cost-benefit review to maximize benefits?
- Does the updated plan identify the completed, deleted or deferred mitigation actions as a benchmark for progress, and if activities are unchanged (i.e., deferred), does the updated plan describe why no changes occurred?

## **SECTION 5**

# REGION 5 ALL HAZARD MITIGATION PLAN 2020-2025 EDITION CITY OF UNIVERSITY PLACE MITIGATION STRATEGY SECTION

# **Table of Contents**

MITIGATION STRATEGY REQUIREMENTS	1
TABLE OF CONTENTS	2
MITIGATION MEASURE OVERVIEW	4
PRIORITIZATION OF MEASURES	
STARTUP MITIGATION MEASURES	ε
Existing Mitigation ActionsPlan Maintenance	8 8
HAZARD MITIGATION FORUM	
PIERCE COUNTY HAZARD MITIGATION FORUM	10
CITY GOVERNMENT MITIGATION MEASURES	
Capability Identification and Evaluation City of University Place Recovery Plan. Critical Facilities – City: Auxiliary Power Preventative Maintenance Plan. Essential Records Protection Emergency Vehicle Access & Response. Shelter Development. Critical Facilities – Others: Auxiliary Power Risk Assessment: Hazard Modeling Underground Utilities LIDAR Mapping.	
WINDSTORM MITIGATION MEASURES	19
Tree Maintenance Program	
EARTHQUAKE MITIGATION MEASURES	
CITY CRITICAL FACILITIES AND STRUCTURES: SEISMIC EVALUATION  NON-STRUCTURAL RETROFITTING FOR REMODEL PROJECTS  OTHER CRITICAL FACILITIES: SEISMIC EVALUATION	21

FLOOD MITIGATION MEASURES	23
CITY CRITICAL FACILITIES AND STRUCTURES: PROTECTING ROADS AND THOROUGHFARES  STRUCTURAL RETROFITTING FOR REMODEL PROJECTS  FLOODPLAIN REGULATION	23
DAY ISLAND WARNING SYSTEM AND EVACUATION ROUTE  SURFACE WATER REDUCTION: CONTROL STANDARDS	25 25
NATURAL RESOURCE PROTECTION	27 27
LANDSLIDE MITIGATION MEASURES	29
RISK ASSESSMENT: LANDSLIDE EVALUATION OF DEVELOPMENT	29
PUBLIC EDUCATION MITIGATION MEASURES	30
CONTINUE AND EXPAND PC-NET, CERT AND CODE RED PROGRAM IN CITY	
PUBLIC EDUCATION: HAZARD INSURANCE INFORMATION	31
CONTINUE HAZARD RELATED TRAINING FOR CITY STAFF AND ELECTED OFFICIALS	
HAZARD RELATED EDUCATION/TRAINING FOR THE ECONOMIC DEVELOPMENT COMMUNITY	32
EARTHQUAKE HOME RETROFIT PROGRAM	
ENDNOTES	34

# **Mitigation Measure Overview**

The measures having been identified, defined, and evaluated; the rest of the process involved prioritization. The process relied upon the identified risks and vulnerabilities, the planning team's local expertise, public participation, each organization's needs and capabilities, a cost/benefit review, and input from the chief elected officials. To promote implementation of the measures, they were grouped based on the level at which they would be implemented, as described in the Plan Maintenance Section. These levels were:

- **Startup Mitigation Measures:** Those mitigation measures already in existence within the organization and including the maintenance of the Mitigation Plan.
- Hazard Mitigation Forum (HMF): Multi-organizational implementation mechanism.
- Organization-Wide Mitigation Measures: Mechanism depends on organization.
- Public Education Mitigation Measures: Localized level based on targeted communities and their needs and vulnerabilities.

The measures are prioritized within each implementation category. To provide consistency, the evaluation process including the eight categories, was used as the basis for the prioritization of measures. This allows for emphasis on the extent to which each measure is cost-effective.

The planning team members from each organization prioritized their organization's potential mitigation measures based on goals addressed with special attention paid to the measure's benefit-cost review, its ability to be implemented, and the extent to which it would mitigate one or multiple relevant hazards.

# **Prioritization of Measures**

The list was prioritized based on the ongoing work and projects within the City of University Place. Development is occurring at a rapid pace within the city and the inevitable growth that follows helps and hinders some of the projects and mitigation strategies. We based the city's mitigation measures on what seemed reasonable, possible, and plausible given the abilities and time of the city and its staff members."

**Table 5-1 City of University Place Mitigation Strategy Matrix** 

Table 5-1 City of University					P	lan	Goa	ls	
Implementation Mechanism	Mitigation Measure (Hazard(s)) <sup>1</sup>	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Life and Property	Operations Continuity	Partnerships	Natural Resources	Preparedness	Sustainable Economy
Startup -	1. Existing Mitigation Actions (E, L, T, V, D, F, SW, MM)	City	Ongoing	✓	✓	✓	✓	✓	✓
<u>Startup</u>	2. Plan Maintenance (E, L, T, V, D, F, SW, MM)	City	Ongoing	✓	✓	✓		✓	✓
<u>HMF</u>	1. Pierce County Hazard Mitigation Forum (E, L, T, V, D, F, SW, MM)	PC DEM, City, WPEMC	Ongoing	✓	✓	✓	✓	✓	✓
	1. Capability Identification and Evaluation - (E, L, T, V, D, F, SW, MM, WUI)	City, WPEMC	2 years	✓	<b>√</b>			✓	✓
	2. City of University Place Recovery Plan (E, F, D, T, V, SW, L, MM)	City	2 years	✓	✓			✓	✓
	3. Critical Facilities – City: Auxiliary Power (E, F, D, T, V, SW, L, MM)	City	3 years	✓	✓			✓	
	4. Preventative Maintenance Plan (E, F, D, T, V, SW, L, MM)	City	Ongoing	✓	✓			✓	
	5. Essential Records Protection (E, F, D, T, V, SW, L, MM)	City: City Clerk, I.T.	Ongoing		✓			✓	✓
City Government	6. Emergency Vehicle Access & Response (E, F, D, T, V, SW, L, MM, WUI)	City: Engineering Services, Public Works, Police, and Fire District	6 years	<b>✓</b>				✓	
City Government	7. Shelter Development (E, F, D, T, V, SW, L, MM, WUI)	PC DEM, WPEMC	Ongoing	<b>✓</b>		<b>√</b>		✓	
	8. Critical Facilities – Others: Auxiliary Power (E, F, D, T, V, SW, L, MM)	City, U.P. School District, WPEMC	6 years	✓	<b>✓</b>			✓	✓
	9. Risk Assessment: Hazard Modeling and Mapping (E, L, T, V, D, F, SW, WUI)	City, WPEMC, PC DEM, Development Services, FEMA, USGS, NOAA	Ongoing	✓				✓	✓

					P	lan	Goa	als	
Implementation Mechanism	Mitigation Measure (Hazard(s)) <sup>1</sup>	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Life and Property	Operations Continuity	Partnerships	Natural Resources	Preparedness	Sustainable Economy
	10. Underground Utilities and Utility Protection Measures (E, F, V, SW)	Local utility providers, City: Development Services, Engineering Services	Long-term 20+	✓	<b>✓</b>			✓	<b>✓</b>
	11. LIDAR Mapping (V, E, L, F)	Pierce County and USGS	Ongoing	<b>✓</b>				<b>✓</b>	
	12. Tree Maintenance Program (SW)	City: Public Works and Parks, Development Services, Puget Sound Energy	Ongoing	~			<b>✓</b>	<b>✓</b>	
	13. City Critical Facilities and Structures: Seismic Evaluation (E)	City: Engineering Services, Developmental Services	5 years	✓	✓			✓	<b>✓</b>
	14. Non-Structural Retrofitting for Remodel Projects (E)	City: Engineering Services, Development Services	5 years	✓				✓	
	15. Other Critical Facilities: Seismic Evaluation (E)	City: Engineering Services, Development Services, Public Works	5 years	✓	<b>✓</b>	✓		<b>√</b>	<b>✓</b>
	17. Structural Retrofitting for Remodel/Reconstruction/Construction Projects (E, F)	City: Engineering Services, Development Services	TBD	<b>✓</b>			<b>✓</b>		
	18. Day Island Warning System and Evacuation Route (E, F, T)	City, PWEMC	Complete	✓				✓	
	19. Evacuation Routes (E, F, T)	City: Engineering Services, Development Services	TBD	<b>✓</b>				<b>✓</b>	

				Plan Goals					
	Mitigation Measure (Hazard(s)) <sup>1</sup>	Lead Jurisdiction(s) / Department(s)	Timeline (years)	Life and Property	Operations Continuity	Partnerships	Natural Resources	Preparedness	Sustainable Economy
	20. Floodplain Regulation (F)	City: Development Services	Ongoing	✓			✓	✓	✓
	21. Surface Water Reduction: Control Standards (F)	City: Development Services	TBD	✓			✓		
	22. Natural Resource Protection (F)	City: Development Services	Ongoing				✓		
	23. Surface Water Reduction: Low Impact Developments (F)	City: Development Services	Pilot (TBD)	✓		✓	✓	<b>✓</b>	
	24. FEMA Flood Insurance Rate Maps (F)	City: Development Services, Pierce County Water Programs	Complete	<b>✓</b>		✓	<b>✓</b>	<b>✓</b>	
	25. Risk Assessment: Landslide Evaluation of Development (L)	City: Development Services	Ongoing	✓			✓	<b>✓</b>	
	1. Continue and Expand PC-NET, CERT and Code Red Program in City (E, F, D, T, V, SW, L, MM, WUI)	City: Public Safety and PCDEM	Ongoing	✓				✓	
	2. Public Education: Hazard Insurance Information, especially NFIP (E, F, T, V, L)	HMPT, Insurance Industry, PC DEM	2 years	<b>✓</b>				<b>✓</b>	
Public Education	3. Continue Hazard Related Training for City Staff and Elected Officials (E, F, D, T, V, SW, L, MM)	City: Human Resources	Ongoing	<b>✓</b>	✓			<b>✓</b>	
	4. Create and Publish Hazard Articles in the City's Enewsletter (E, F, D, T, V, SW, L, MM)	City: Public Safety, Communications/I.T.	Ongoing	✓				✓	✓
	5. Hazard Related Education/Training for the Economic Development Community (E, F, D, T, V, SW, L, MM)	City: Economic Development	1 year	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	✓
	6. Earthquake Home Retrofit Program (E)	City	Ongoing	✓	✓	✓		✓	

# **Startup Mitigation Measures**

## **Existing Mitigation Actions**

Hazards: E, F, D, T, V, SW, L, MM

The City of University Place will integrate the hazard mitigation plan into existing plans, ordinances, and programs to dictate land uses within the jurisdiction. Further, University Place will continue to implement existing programs, policies, and regulations as identified in the Capability Identification Section of this Plan. This includes such actions as updating the Critical Area Regulations and any ensuing land use policies with best available science. It also includes continuing those programs that are identified as technical capabilities.

- 1. Goal(s) Addressed = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
- 2. Cost of Measure = TBD
- 3. Funding Source and Situation = Funding could be accomplished with local budgets or grants.
- **4.** Lead Jurisdiction(s) = City of University Place
- **5. Timeline** = Ongoing
- **6. Benefit** = City-Wide
- 7. Life of Measure = Perpetual
- **8. Community Reaction** = the proposal is likely to be endorsed by the entire community.

Status Update: 2020 – 2025 Edition

Complete	Ongoing	Partially Complete	Deferred	
	X			
		Comments		

Origin

Previous Plan	Current Plan
X	X

### Plan Maintenance

Hazards: E, F, D, T, V, SW, L, MM

University Place will adopt those processes outlined in the Plan Maintenance Section of this Plan.

- 1. Goal(s) Addressed = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
- 2. Cost of Measure = TBD
- 3. Funding Source and Situation = Funding could be obtained through local budget.
- 4. Lead Jurisdiction(s) = City of University Place
- **5. Timeline** = Ongoing

- **6. Benefit** = City-Wide
- 7. **Life of Measure** = Perpetual
- **8.** Community Reaction = the proposal is likely to be endorsed by the entire community.

Status Update: 2020 – 2025 Edition

Complete	Complete Ongoing Partially Complete Deferred				
	X				
	Comments				

The City Council was provided an update on May 20, 2019, and provided an oversight of the plan, plan timelines, and future considerations. Council was presented updates to Section 2 and 5 for consideration on September 5, 2023.

Origin

X X	Previous Plan	Current Plan
	X	X

# **Hazard Mitigation Forum**

## Pierce County Hazard Mitigation Forum

Hazards: E, L, V, D, F, WUI, SW<sup>1</sup>, MM

University Place will work in conjunction with the County through the Pierce County Hazard Mitigation Forum (HMF). The Forum will continue as a means of coordinating mitigation planning efforts among all jurisdictions within the County that have completed a mitigation plan. This ensures efficient use of resources and a more cooperative approach to making a disaster resistant county. The HMF meets annually, every November. This is addressed in the Plan Maintenance Section of this Plan.

- 1. **Goal(s)** Addressed = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Increase Public Preparedness for Disasters; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
- 2. Cost of Measure = Minor
- 3. Funding Source and Situation = Funding could be obtained through local budget.
- 4. Lead Jurisdiction(s) = PC DEM; City of University Place
- 5. Timeline = Ongoing
- **6. Benefit** = Regional
- 7. **Life of Measure** = Perpetual
- **8.** Community Reaction = the proposal is likely to be endorsed by the entire community.

Status Update: 2020 – 2025 Edition

Status opuater 202	-0 2023 L	ancion				
Complete	Ongoing	Partially Complete	Deferred			
	X					
	Comments					
The City participate	The City participated and will continue to participate annually with the County.					

Origin

Previous Plan	Current Plan
X	X
	`///

# **City Government Mitigation Measures**

# Capability Identification and Evaluation

Hazards: E, F, D, T, V, SW, L, MM, WUI

University Place will develop a consistent and replicable system for evaluating the City's capabilities. A comprehensive evaluation will lead to specific policy recommendations to achieve disaster resistant communities more effectively. Further, a capability evaluation involves measurable variables so that capabilities may eventually be tracked in conjunction with the implementation of all mitigation measures. This is a key component in evaluating the success of the City's overall mitigation strategy.

- 1. **Goal(s)** Addressed = N/A. Goals addressed are contingent upon the mitigation measures resulting from this priority.
- 2. Cost of Measure = TBD
- 3. Funding Source and Situation = Funding could be obtained through local budget or grants.
- 4. Lead Jurisdiction(s) = City of University Place
- 5. Timeline = 2 years
- **6. Benefit** = City-Wide
- 7. **Life of Measure** = Perpetual
- **8.** Community Reaction = the proposal is likely to be endorsed by the entire community.

Status Update: 2020 – 2025 Edition

Complete	Ongoing	Partially Complete	Deferred		
		X			
Comments					

The City is currently reviewing its COOP and EOP plans in addition to reviewing the mini update for the Hazard Mitigation Plan. Additionally, the City is a part of the West Pierce Emergency Management Coalition (WPEMC) and provides support in reviewing and drafting plans. The partnership was approved by all governing boards in the Fall of 2019 and this work began in 2020.

Oriain

<u>- J</u>	
Previous Plan	Current Plan
X	X

# City of University Place Recovery Plan

Hazards: E, F, D, T, V, SW, L, MM

The City will develop a comprehensive Disaster Recovery Plan. This will be a pre-event plan for post-disaster recovery and reconstruction, composed of policies, plans, actions and responsibilities. It will include an element of business resumption and long-term economic sustainability. There will be an emphasis on the integration of mitigation into the recovery phases after an emergency or disaster.

- 1. Goal(s) Addressed = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
- 2. Cost of Measure = TBD
- **3.** Funding Source and Situation = Funding could be obtained through local budget, PDM and Economic Development Administration (US Chamber of commerce) grants.
- 4. Lead Jurisdiction(s) = City of University Place
- 5. Timeline = 2 years
- **6. Benefit** = City of University Place
- 7. **Life of Measure** = Perpetual
- **8.** Community Reaction = the proposal is likely to be endorsed by the entire community.

Status Update: 2020 - 2025 Edition

otatao opaate. 201					
Complete	Ongoing	Partially Complete	Deferred		
		X			
		Comments			
The City began wor	The City began working on this with the WPEMC beginning in the Summer of 2020,				

The City began working on this with the WPEMC beginning in the Summer of 2020, and has made updates which should be complete by 2025.

Origin

Previous Plan	Current Plan
	X

# Critical Facilities - City: Auxiliary Power

Hazards: E, F, D, T, V, SW, L, MM

The City will install and/or improve backup power generation capability for any City-owned critical facility to be operational within 72 hours of an event to maintain essential functions.

- 1. Goal(s) Addressed = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
- 2. Cost of Measure = TBD
- 3. Funding Source and Situation = Funding could be obtained through local budget and grants.
- **4.** Lead Jurisdiction(s) = City of University Place
- 5. Timeline = 3 years
- **6. Benefit** = Facility Specific, City-Wide Services
- 7. **Life of Measure** = Life of unit
- 8. Community Reaction = the proposal is likely to be endorsed by the entire community.

Status Update: 2020 – 2025 Edition

Complete	Ongoing	Partially Complete	Deferred	
	X			
Comments				

The City's main emergency is powered via a backup generator for both the Public Works Shop and the main Civic Building. Current capacity provides lighting and some elevator use. The City would like to bolster current capacity to provide more equipment usage

during an emerg	encv.

#### Oriain

Previous Plan	Current Plan
X	X

### Preventative Maintenance Plan

Hazards: E, F, D, T, V, SW, L, MM

The City will develop a plan to ensure the proper functioning of its disaster response equipment and supplies. This will ensure that the necessary resources used in response activities are properly functioning and fresh if they are needed.

- 1. Goal(s) Addressed = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Preserve or Restore Natural Resources; Establish and Strengthen Partnerships for Implementation.
- 2. Cost of Measure = TBD
- 3. Funding Source and Situation = Funding could be obtained through local budget or grants.
- 4. Lead Jurisdiction(s) = All departments active in disaster response and recovery
- 5. Timeline = 2 years
- **6. Benefit** = City of University Place
- 7. **Life of Measure** = Perpetual
- **8. Community Reaction** = the proposal is likely to be endorsed by the entire community.

#### Status Update: 2020 – 2025 Edition

etatas opuator 2020 2020 2010011				
Complete	Ongoing	Partially Complete	Deferred	
	X			
Comments				
Staff will test various response equipment and audit supplies on an annual basis.				

#### Oriain

Previous Plan	Current Plan
X	X

### **Essential Records Protection**

Hazards: E, F, D, T, V, SW, L, MM

The City will ensure that all essential records are protected and/or provided with safe on and off site back up. All City departments will develop essential records protection schedules and a records disaster prevention, response, and recovery plan.

- 1. **Goal(s)** Addressed = Protect Life and Property; Promote A Sustainable Economy; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation.
- 2. **Cost of Measure** = TBD

- 3. **Funding Source and Situation** = Funding could be obtained through local budget.
- **4. Lead Jurisdiction(s)** = City of University Place: City Clerk, Communications/I.T.
- 5. Timeline = Ongoing
- 6. **Benefit** = City of University Place and other Regional Partners
- 7. **Life of Measure** = Perpetual
- 8. **Community Reaction** = the proposal is likely to be endorsed by the entire community.

Complete	Ongoing	Partially Complete	Deferred
	X		
Comments			
The City has an electronic backup records program that stores critical documents on-site			

The City has an electronic backup records program that stores critical documents on-site and off-site and is backed up. Older items are being archived with the State Archives department.

#### Origin

Previous Plan	Current Plan
X	X

## **Emergency Vehicle Access & Response**

Hazards: E, F, D, T, V, SW, L, MM, WUI

The City has some street ends that can be made into through streets. In some cases, this lack of connection significantly increase emergency vehicle response times and limits the ability to access areas if existing accesses are block by fire, congestion or debris. Working with the Police Department and the Fire District the City's Public Works Department has identified and prioritized these connections.

- 1. **Goal(s)** Addressed = Protect Life and Property, Ensure Continuity of Operations, Establish and Strengthen Partnerships for Implementation, Promote a Sustainable Economy.
- 2. Cost of Measure = TBD
- **3. Funding Source and Situation** = Funding could be obtained through local budget or grants.
- **4. Lead Jurisdiction(s)** = City of University Place: Engineering Services, Public Works, Police, and Fire District
- 5. Timeline = 6 years
- **6. Benefit** = City-wide
- 7. Life of Measure = Perpetual
- **8.** Community Reaction = the proposal would be somewhat controversial.

Status Update: 2020 – 2025 Edition

Complete	Ongoing	Partially Complete	Deferred	
	X			
Comments				

The City has completed three of these connections. The City has also acquired the right-of-way needs for the 57<sup>th</sup> Avenue extension. Design work for 57<sup>th</sup> Ave will be completed in the Spring of 2024 with construction beginning in the fall/winter of 2024.

Previous Plan	Current Plan	
X	X	

## Shelter Development

Hazards: E, F, D, T, V, SW, L, MM, WUI

The City will continue to incorporate designated shelters into the Critical Facility Section of this Plan.

- **1. Goal(s) Addressed** = Promote A Sustainable Economy; Establish and Strengthen Partnerships for Implementation.
- 2. Cost of Measure = Minor
- 3. Funding Source and Situation = Funding could be obtained through local budgets or grants.
- **4. Lead Jurisdiction(s)** = Pierce County DEM, Lakewood/West Pierce Fire/University Place Emergency Management Interlocal group, American Red Cross
- 5. Timeline = Ongoing
- **6. Benefit** = Facility Specific, City-Wide Services
- 7. Life of Measure = TBD
- **8.** Community Reaction = the proposal is likely to be endorsed by the entire community.

Status Update: 2020 – 2025 Edition

Complete	Ongoing	Partially Complete	Deferred
	X		
Comments			

As a potential receiving location for any emergency event, but with special emphasis on lahar, earthquake, or flooding, the City will continue to work with the County and the WPEMC to identify potential sheltering facilities within the community and neighboring communities for both short-term and long-term options.

Origin

Previous Plan	Current Plan	
X	X	

## Critical Facilities – Others: Auxiliary Power

Hazards: E, F, D, T, V, SW, L, MM

The City will work with other critical facilities in the city including schools and churches that provide emergency shelter to determine the need for backup power generation capability of a 72-hour period during a disaster to maintain operations. Once identified, the City will work with these facilities to provide needed equipment.

- 1. **Goal(s)** Addressed = Protect Life and Property; Ensure Continuity of Operations, Establish and Strengthen Partnerships for Implementation.
- 2. Cost of Measure = TBD

- 3. Funding Source and Situation = Funding could be obtained through local budget or grants.
- **4. Lead Jurisdiction(s)** = City of University Place, School District, Lakewood/West Pierce Fire/University Place Emergency Management Interlocal group
- 5. Timeline = 6 years
- **6. Benefit** = Facility Specific, City-Wide Services
- 7. **Life of Measure** = Life of the unit
- **8.** Community Reaction = The proposal is likely to be endorsed by the entire community.

Complete	Ongoing	Partially Complete	Deferred	
	X			
Comments				
The City will be working with partnership groups, like the school district, to look for				
joint opportunities t	o implement	this need (i.e., grant opportunitie	es, letters of support,	
etc.).	_			

#### Origin

Previous Plan	Current Plan
X	X

## Risk Assessment: Hazard Modeling and Mapping

Hazards: E, L, T, V, D, F, SW

The City will work with other county jurisdictions and state and local agencies to model hazard events using existing hazard modeling software. It will provide updated vulnerability assessments, can be used to evaluate mitigation strategies, and aid response and recovery efforts. The City will work to find climate change modeling to assist with future climate change hazards and its effects. Climate change risk maps will be added to Section 4 (hazard maps). As software becomes available for other hazards it will be incorporated into the City's risk assessment. Current software includes:

- HAZUS Used for mapping potential economic impacts of earthquakes, floods and wind events. Loss estimation data is based on probabilistic hazard scenarios.
- LAHARZ Used for modeling lahar hazards.
  - Goal(s) Addressed = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
  - 2. Cost of Measure = \$0
  - 3. Funding Source and Situation = n/a
  - 4. Lead Jurisdiction(s) = FEMA, USGS, NOAA
  - 5. **Timeline** = 2 years
  - 6. **Benefit** = City of University Place
  - 7. **Life of Measure** = Perpetual
  - 8. **Community Reaction** = the proposal would be endorsed by the entire community.

otatao opaate. 20.	reaces operates 2020 2020 2010		
Complete	Ongoing	Partially Complete	Deferred
	X		
Comments			

#### Origin

Previous Plan	Current Plan
X	X

## **Underground Utilities and Utility Protection Measures**

Hazards: E, F, V, SW

The City will encourage the placement of all utilities (i.e., power lines) underground. This will limit the potential damage to infrastructure as well as damage the infrastructure could cause to life and property. Where not economically feasible for the utility provider, homeowners could have the option to have their utilities placed underground through an individualized rate structure. Additionally, the City will work with utility providers to harden/raise/protect utilities in flood prone areas such as Day Island and Sunset Beach.

- 1. **Goal(s)** Addressed = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Promote a Sustainable Economy.
- 2. Cost of Measure = TBD
- **3. Funding Source and Situation** = Funding could be obtained through local budgets, grants or utility companies.
- **4. Lead Jurisdiction(s)** = Local utility providers, City of University Place: Development Services, Engineering Services
- 5. Timeline = Long-term 20+
- **6. Benefit** = City of University Place; Tacoma Public Utilities
- 7. **Life of Measure** = Varies
- **8.** Community Reaction = the proposal is not controversial.

Status Update: 2020 – 2025 Edition

Complete	Ongoing	Partially Complete	Deferred
	X		
Comments			

#### Origin

Previous Plan	Current Plan
X	X

# LIDAR Mapping

Hazards: V, E, L, F

The City will utilize LIDAR (Light Detection and Ranging) mapping as part of the evaluation and development of its vulnerability assessment. LIDAR improves the accuracy of topographical maps dramatically and on the Kitsap Peninsula has revealed the existence of

previously unknown fault scarps. LIDAR mapping can effectively reveal the existence of similar faults in the University Place area, or conversely, help confirm that they are not present, improving the City's ability to assess geologic hazards for both land use management and emergency management purposes.

- 1. Goal(s) Addressed = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
- 2. Cost of Measure = TBD
- **3. Funding Source and Situation** = Funding could be obtained through local budget, Orthophoto Partnership Fund.
- 4. Lead Jurisdiction(s) = Pierce County and USGS
- 5. Timeline = Ongoing
- **6. Benefit** = City of University Place
- 7. **Life of Measure** = TBD (contingent upon best available science and technology)
- **8. Community Reaction** = the proposal would be endorsed by the entire community.

Status Update: 2020 – 2025 Edition

Status Opuate. 2020 – 2023 Eutitori				
Complete	Ongoing	Partially Complete	Deferred	
	X			
Comments				
The City has contracted with Pierce County to update the LIDAR mapping of the City				
and is incorporated into the county's GIS system				

Oriain

Previous Plan	Current Plan
X	X

# **Windstorm Mitigation Measures**

## Tree Maintenance Program

Hazards: SW

The City conducts windshield surveys of trees along City streets and properties during daily maintenance operations to identify signs of distress and potential safety hazards. The City evaluates the health and safety of any tree identified in this manner as well as any tree reported by the public as a concern. Trees that are dead, diseased, dying, or otherwise present a safety concern are removed or trimmed as needed. The City may expand the program to work with gardening centers, Master Gardeners, and the Extension Service to develop a continuing program to assist the public with preventing storm damage through the proper use of vegetation and trimming of dangerous limbs.

- 1. **Goal(s)** Addressed = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
- 2. Cost of Measure = TBD
- 3. Funding Source and Situation = Funding could be obtained through local budget.
- **4. Lead Jurisdiction(s)** = City of University Place: Public Works and Parks, Development Services, Puget Sound Energy
- 5. Timeline = Ongoing
- 6. **Benefit** = City-Wide
- 7. **Life of Measure** = TBD
- 8. **Community Reaction** = the proposal would be somewhat controversial.

Status Update: 2020 – 2025 Edition

Complete	Ongoing	Partially Complete	Deferred
	X		
Comments			

Oriain

Previous Plan	Current Plan
X	X

# **Earthquake Mitigation Measures**

City Critical Facilities and Structures: Seismic Evaluation

#### Hazards: E

The City will evaluate City-owned critical facilities not meeting current code to determine their earthquake structural integrity. This requires preparation of information to allow budgeting for renovation of those facilities that are not up to current code or have structural deficiencies that have developed over the years. Two of the City's bridges have been identified as structurally deficient (the Day Island bridge and the Lower Chambers Creek bridge). Replacement or retrofitting of these bridges will be necessary to bring them up to current standards. A cost estimate to replace the Day Island Bridge has been completed and funds have been secured to conduct preliminary design work. The city will continue to apply for grants and make congressional and legislative funding requests for the replacement construction of the bridge. The Lower Chambers Creek Bridge will be studied and reviewed for preliminary engineering design and construction pending grant funding.

- 1. Goal(s) Addressed = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
- 2. Cost of Measure = TBD (\$18M for Day Island)
- 3. Funding Source and Situation = Funding could be obtained through Federal and State grants.
- 4. Lead Jurisdiction(s) = City of University Place: Engineering Services, Developmental Services
- 5. Timeline = 5 years
- **6. Benefit** = Facility Specific, City-Wide Services
- 7. **Life of Measure** = Life of undamaged/unaltered structure
- **8.** Community Reaction = The proposal would be endorsed by the entire community.

Status Update: 2020 – 2025 Edition

Complete	Ongoing	Partially Complete	Deferred
	X		
Comments			

The study of the Day Island Bridge was completed in 2022. In 2023, State funding was provided to design the Day Island Bridge replacement. Staff continue to search for grant funding for the replacement construction of both bridges. The Lower Chambers Creek Bridge will be done in partnership with Pierce County.

Previous Plan	Current Plan	
X	X	

## Non-Structural Retrofitting for Remodel Projects

#### Hazards: E

The City will evaluate nonstructural seismic retrofitting of city facilities, structures and equipment.

- 1. Goal(s) Addressed = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
- 2. Cost of Measure = TBD
- 3. Funding Source and Situation = Funding could be obtained through local budget.
- **4.** Lead Jurisdiction(s) = City of University Place: Engineering Services, Development Services, Public Works
- 5. Timeline = 5 years
- **6. Benefit** = City of University Place
- 7. Life of Measure = Life of nonstructural action
- **8.** Community Reaction = The proposal would be endorsed by the entire community.

Status Update: 2020 - 2025 Edition

Complete	Ongoing	Partially Complete	Deferred
	X		
Comments			

Origin

Previous Plan	Current Plan
X	X

## Other Critical Facilities: Seismic Evaluation

#### Hazards: E

The City will encourage owners of other critical facilities in the City to evaluate their critical facilities not meeting current code to determine its earthquake structural integrity. This may require preparation of information on how to renovate those facilities that are not up to current code or have structural deficiencies that have developed over the years.

- 1. Goal(s) Addressed = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
- 2. Cost of Measure = TBD
- 3. Funding Source and Situation = Funding could be obtained through local budget.
- **4. Lead Jurisdiction(s)** = City of University Place: Engineering Services, Development Services, Public Works
- 5. Timeline = 5 years
- **6. Benefit** = Facility Specific, City-Wide Services
- 7. Life of Measure = Life of undamaged/unaltered structure
- **8.** Community Reaction = The proposal would be endorsed by the entire community.

Status Update: 2020 - 2025 Edition

Complete	Ongoing	Partially Complete	Deferred
	X		
Comments			
		·	

Previous Plan	Current Plan
X	X

# **Flood Mitigation Measures**

## City Critical Facilities and Structures: Protecting Roads and Thoroughfares

#### Hazards: F

The City will evaluate City-owned critical facilities, namely roads, that may need to be protected in some way (i.e., raised) in the future due to repetitive flooding in flood prone areas. This requires preparation of information and studies to determine which roads are at most risk and may require construction or other mitigation factors to protect the infrastructure.

- 1. Goal(s) Addressed = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
- 2. Cost of Measure = TBD
- 3. Funding Source and Situation = Funding could be obtained through local budget.
- 4. Lead Jurisdiction(s) = City of University Place: Engineering Services, Developmental Services
- 5. Timeline = 5 years
- **6. Benefit** = Facility Specific, City-Wide Services
- 7. Life of Measure = Life of undamaged/unaltered structure
- **8.** Community Reaction = The proposal would be endorsed by the entire community.

Status Update: 2020 - 2025 Edition

Status opaate: 2020 2025 Edition				
Complete	Ongoing	Partially Complete	Deferred	
	X			
Comments				
Day Island South Spit Road has experienced two flooding events since the adoption of				
the plan.				

#### Origin

Previous Plan	Current Plan
	X

## Structural Retrofitting for Remodel Projects

#### Hazards: F

The City will evaluate structural retrofitting of facilities, structures and equipment, such as the raising of structures, that may have been damaged due to flooding and to mitigate future damage.

- 1. **Goal(s)** Addressed = Protect Life and Property; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
- 2. Cost of Measure = TBD
- **3. Funding Source and Situation** = Funding could be obtained through federal or state mitigation grants or homeowners' insurances.
- 4. Lead Jurisdiction(s) = City of University Place: Development Services
- **5. Timeline** = Ongoing

- **6. Benefit** = City of University Place (Esp. Day Island and Sunset Beach)
- 7. Life of Measure = Perpetual
- **8. Community Reaction** = The proposal would be somewhat controversial.

Status opuater 202	status opuatei 2020 2025 Laition			
Complete	Ongoing	Partially Complete	Deferred	
	X			
Comments				

Oriain

Previous Plan	Current Plan	
	X	

## Floodplain Regulation

#### Hazards: F

The City will continue to administer UPMC 14.15 Flood Damage Prevention and UPMC 17.30 Flood Hazard Areas, which regulate all development in regulated floodplains in accordance with the National Flood Insurance programs. This will reduce likelihood of flood damage to new businesses and homes and associated property value losses. Properties with repeat flooding damages will be evaluated for land purchase mitigation. Specifically, Day Island and Sunset Beach are areas with limited access and homes located within the 100- year flood plain. With the growing threat of climate change impacts increasing the likelihood of severe and/or repetitive loss flooding a future study may be conducted to determine a cost benefit analysis to purchase property in repetitive flood prone areas.

- 1. **Goal(s)** Addressed = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
- 2. Cost of Measure = TBD
- 3. **Funding Source and Situation** = Funding could be obtained through federal or state mitigation grants.
- **4.** Lead Jurisdiction(s) = City of University Place: Development Services
- **5. Timeline** = Ongoing
- 6. **Benefit** = City of University Place (Esp. Leach Creek Basin, Day Island and Sunset Beach)
- 7. **Life of Measure** = Perpetual (contingent upon FIRM updates and Comprehensive Plan review schedule).
- 8. **Community Reaction** = The proposal could be controversial.

Status Update: 2020 – 2025 Edition

Complete	Ongoing	Partially Complete	Deferred	
	X	X		
Comments				
In 2017, the City updated both UPMC 14.15 and UPMC 17.30 for consistency with CFR				
44.59.60.3(d, e).				

Previous Plan	Current Plan
X	X

## Day Island Warning System and Evacuation Route

Hazards: E, F, T

Day Island and Sunset Beach are areas with limited access and homes located within the 100-year flood plain. Residents will be encouraged to download CodeRed, the City's emergency messaging system to provide warnings and alerts, if possible. Residents will also be encouraged to form their own PC-NET. City staff and the WPEMC have determined contacts for emergency messaging with each of the neighborhoods (Day Island and Sunset Beach). Working with WPEMC the City will work with the communities to create evacuation routes for residents of Day Island and Sunset Beach and search for funding that may be used to study the need and potentially construct a walking evacuation route or assist with a water evacuation plan for residents in flood prone areas (namely Day Island and Sunset Beach).

- 1. **Goal(s)** Addressed = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters.
- 2. Cost of Measure = Minor for warning system, TBD for evacuation route
- 3. Funding Source and Situation = Funding could be obtained through local budget or grants.
- 4. Lead Jurisdiction(s) = City of University Place: Public Safety, Development Services, Public Works
- 5. Timeline = Varies
- **6. Benefit** = Day Island, Sunset Beach
- 7. Life of Measure = Perpetual
- **8.** Community Reaction = the proposal would be somewhat controversial.

Status Update: 2020 – 2025 Edition

Complete	Ongoing	Partially Complete	Deferred
	X	X	
Comments			

Origin

Previous Plan	Current Plan
X	X

#### Surface Water Reduction: Control Standards

#### Hazards: F

The City will enforce stormwater control standards for new development. This will help to reduce peak flow impacts commonly associated with increased impervious cover.

1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters;

- Promote A Sustainable Economy.
- 2. **Cost of Measure** = City's Surface Water Management Utility Fee, REET funds. Funding could be obtained through local budget or grants.
- 3. **Funding Source and Situation** = Funding could be obtained through local budget.
- **4.** Lead Jurisdiction(s) = City of University Place: Development Services
- 5. Timeline = 4 years
- 6. **Benefit** = City of University Place
- 7. **Life of Measure** = TBD
- 8. **Community Reaction** = the proposal would be endorsed by the entire community.

Complete	Ongoing	Partially Complete	Deferred
	X		
Comments			
The City has adopted both the King County Surface Water Design Manual and the			

The City has adopted both the King County Surface Water Design Manual and the Department of Ecology stormwater manual as standards for controlling development runoff.

Origin

Previous Plan	Current Plan
X	X

#### **Natural Resource Protection**

#### Hazards: F

The City has identified areas of wetland that should be protected from development in perpetuity to provide flood storage capacity. These wetlands and other natural flood-water storage areas should be purchased or otherwise held from development. This is being accomplished through the implementation, and enforcement of critical areas regulations related to wetlands and floodplains and site development regulations, and property acquisitions.

- 1. **Goal(s)** Addressed = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
- 2. **Cost of Measure** = TBD
- 3. **Funding Source and Situation** = City's Surface Water Management Fund, Acquisitions by others, local grants.
- 4. **Lead Jurisdiction(s)** = City of University Place: Development Services
- 5. **Timeline** = Ongoing
- 6. **Benefit** = City of University Place (especially Leach Creek)
- 7. **Life of Measure** = Perpetual
- 8. **Community Reaction** = The proposal would be somewhat controversial.

Status Update: 2020 – 2025 Edition

otatas opaate. 201	reaction of diator 2020 2020 2010011			
Complete	Ongoing	Partially Complete	Deferred	
	X			
Comments				

The City has secured easements and acquired property around both the Leach Creek corridor and the Paradise Pond watershed to ensure these natural landscapes, and areas are protected.

Previous Plan	Current Plan	
X	X	

## Surface Water Reduction: Low Impact Developments

#### Hazards: F

The City has adopted Low-Impact Development Standards and encourages Low-Impact Development for all developments in the City. This will help to reduce peak flow impacts commonly associated with increased impervious cover.

- 1. **Goal(s)** Addressed = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
- 2. Cost of Measure = TBD
- 3. **Funding Source and Situation** = City's Surface Water Management Fund, REET funds. Funding could be obtained through local budget or grants.
- 4. **Lead Jurisdiction(s)** = City of University Place: Development Services
- 5. **Timeline** = Long-term
- 6. **Benefit** = City of University Place
- 7. **Life of Measure** = Pilot (TBD)
- 8. **Community Reaction** = The proposal would be endorsed by the entire community.

Status Update: 2020 – 2025 Edition

Status opuater Lor	status opaatei 2020 2025 2aition			
Complete	Ongoing	Partially Complete	Deferred	
	X			
Comments				

Origin

Previous Plan	Current Plan
X	X

## FEMA Flood Insurance Rate Maps

#### Hazards: F

The City has adopted the updated Flood Insurance Study and Flood Insurance Rate Maps. The City will continue to adopt the latest versions of these studies and maps as new information becomes available. This leads to more accurate floodplain regulations and an opportunity to increase public awareness.

- 1. **Goal(s) Addressed** = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
- 2. Cost of Measure = TBD
- 3. **Funding Source and Situation** = FEMA Map Modernization Program.

- 4. **Lead Jurisdiction(s)** = City of University Place: Development Services, Pierce County Water Programs
- 5. **Timeline** = On-going
- 6. **Benefit** = City of University Place
- 7. **Life of Measure** = Life of flood Insurance Study
- 8. **Community Reaction** = The proposal would be endorsed by the entire community.

Complete	Ongoing	Partially Complete	Deferred
	X	X	
Comments			

In February of 2017 the City adopted revisions to UMPC 14.15 (Flood Damage Protection) and UMPC 17.30 (Flood Hazard Areas). In these revisions, the City adopted the latest versions of the Flood Insurance Study and Flood Insurance Rate Maps and updated our regulations for consistency with CFR 44.59.60.3(d, e).

Previous Plan	Current Plan
X	X
( ' '	

# **Landslide Mitigation Measures**

## Risk Assessment: Landslide Evaluation of Development

#### Hazards: L

The City will continue to evaluate all development and require geotechnical studies based on landslide history, slope stability and slope angle as detailed on landslide potential maps or other information.

- 1. **Goal(s)** Addressed = Protect Life and Property; Establish and Strengthen Partnerships for Implementation; Preserve or Restore Natural Resources; Increase Public Preparedness for Disasters; Promote A Sustainable Economy.
- 2. Cost of Measure = TBD
- 3. **Funding Source and Situation** = Funding could be obtained through local budget or grants.
- 4. Lead Jurisdiction(s) = City of University Place: Development Services
- **5. Timeline** = Ongoing
- 6. **Benefit** = City of University Place
- 7. **Life of Measure** = Perpetual
- 8. **Community Reaction** = The proposal would be somewhat controversial.

Status Update: 2020 – 2025 Edition

Status Opuate: 2020 2025 Edition				
Complete	Ongoing	Partially Complete	Deferred	
	X			
Comments				

Previous Plan	Current Plan
X	X

# **Public Education Mitigation Measures**

## Continue and Expand PC-NET, CERT and Code Red Program in City

Hazards: E, F, D, T, V, SW, L, MM, WUI

University Place will continue and expand the PC-NET (Pierce County Neighborhood Emergency Teams), Community Emergency Response Teams (CERT) and Code Red in the City. Additionally, the City has worked with WPEMC to implement IPAWS and IPAWS training for designated emergency communication staff.

PCNET and CERT are neighborhood/community-oriented approaches to emergency preparedness and homeland security. It is based on the belief that a cooperative effort between a county and its citizens is the only sure way to protect a neighborhood and to prepare for a major disaster. The program helps individuals and their neighborhoods prepare to mutually assist each other so that lives can be saved, property can be spared, and emergency services can be freed to respond to the most devastated areas. This will be accomplished by organizing block groups into a variety of disaster response teams, each of which has a simple one-page list that clearly outlines necessary tasks. No special skills or equipment are required to participate—and only a minimal time commitment is needed. Such programs are critical to reminding the public of the hazards in Pierce County, and of the necessity of having on hand the supplies and materials to survive independently for a minimum of 72 hours. These programs will be continued and expanded upon.

Code Red is the City's communication outreach tool for employees and the City at large.

- 1. **Goal(s)** Addressed = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
- 2. Cost of Measure = Approximately \$7,000
- 3. Funding Source and Situation = Funding could be obtained through local budget.
- 4. Lead Jurisdiction(s) = City of University Place: Public Safety, WPEMC and PCDEM
- 5. Timeline = Ongoing
- **6. Benefit** = City of University Place, residents, businesses and regional partners
- 7. Life of Measure = Varies
- **8.** Community Reaction = the proposal is likely to be endorsed by the entire community.

Status Update: 2020 - 2025 Edition

Complete	Ongoing	Partially Complete	Deferred
	X	X	•
Comments			

Oriain

Previous Plan	Current Plan
X	X

#### Public Education: Hazard Insurance Information

Hazards: E, F, T, V, L

The City will partner with the WA Office of the Insurance Commissioner (OIC) and FEMA to help increase public awareness of natural hazard insurance options and the benefits of carrying various hazard insurance, such as NFIP (a requirement for some FEMA grants). This will entail dissemination of an FAQ list regarding hazard insurance topics including how to obtain and understand specific hazard insurance (i.e., flood).

- 1. Goal(s) Addressed = Protect Life and Property; Ensure Continuity of Operations; Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters.
- 2. Cost of Measure = Minor
- 3. Funding Source and Situation = Funding could be obtained through local budget.
- 4. Lead Jurisdiction(s) = City, HMPT, WPEMC, Insurance Industry, PC DEM, FEMA
- 5. Timeline = 1-3 years
- **6. Benefit** = City of University Place residents
- 7. Life of Measure = Varies
- **8.** Community Reaction = the proposal is likely to be endorsed by the entire community.

Status Update: 2020 - 2025 Edition

Status opuater 20	Status Opaater 2020 2023 Eartion				
Complete	Ongoing	Partially Complete	Deferred		
	X				
Comments					

Origin

Previous Plan	Current Plan
X	X

## Continue Hazard Related Training for City Staff and Elected Officials

Hazards: E, F, D, T, V, SW, L, MM

University Place will continue the hazard related training for City staff and elected officials. Classes will involve EOC trainings, NIMS, ACT-20, run/hide/fight, CPR/AED, etc.

- 1. Goal(s) Addressed = Protect Life and Property; Ensure Continuity of Operations, Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote a Sustainable Economy.
- 2. Cost of Measure = Minimal
- 3. Funding Source and Situation = N/A
- **4.** Lead Jurisdiction(s) = City of University Place: Human Resources
- 5. Timeline = Ongoing
- **6. Benefit** = City of University Place
- 7. **Life of Measure** = Perpetual
- **8.** Community Reaction = the proposal is likely to be endorsed by the entire community.

Status Update: 2020 – 2025 Edition

Complete	Ongoing	Partially Complete	Deferred
	X		
Comments			

Previous Plan	Current Plan	
	X	

## Create and Publish Hazard Articles in the City's E-newsletter

Hazards: E, F, D, T, V, SW, L, MM

University Place will create articles to educate the public about a variety of hazards to be put out in the e-newsletter.

- 1. Goal(s) Addressed = Protect Life and Property; Ensure Continuity of Operations, Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote a Sustainable Economy.
- 2. Cost of Measure = Minimal
- 3. Funding Source and Situation = N/A
- **4.** Lead Jurisdiction(s) = City of University Place: Public Safety, Communications/I.T.
- 5. Timeline = Ongoing
- **6. Benefit** = City of University Place
- 7. **Life of Measure** = Perpetual
- **8.** Community Reaction = the proposal is likely to be endorsed by the entire community.

Status Update: 2020 - 2025 Edition

Complete	Ongoing	Partially Complete	Deferred	
	X			
Comments				
Articles will be drafted to coincide with national and local emergency planning				
campaigns, the recency of occurrences within the City, and as time/space allows.				

Oriain

Previous Plan	Current Plan	
	X	

# Hazard Related Education/Training for the Economic Development Community

Hazards: E, F, D, T, V, SW, L, MM

University Place will create articles/emails/promotion of local trainings to educate the business community about a variety of hazards that may affect them for the short-term or during recovery.

- 1. Goal(s) Addressed = Protect Life and Property; Ensure Continuity of Operations, Establish and Strengthen Partnerships for Implementation; Increase Public Preparedness for Disasters; Promote a Sustainable Economy.
- 2. Cost of Measure = Minimal
- 3. Funding Source and Situation = N/A
- **4.** Lead Jurisdiction(s) = City of University Place: Economic Development Department
- 5. Timeline = 1 year
- **6. Benefit** = City of University Place

7. Life of Measure = 1 year

**8.** Community Reaction = the proposal is likely to be endorsed by the entire community.

Status Update: 2020 - 2025 Edition

Complete	Ongoing	Partially Complete	Deferred
	X		
		Comments	
During the 2020 ve	ar an educati	onal campaign will be created the	rough the Economic

During the 2020 year an educational campaign will be created through the Economic Development Department to educate the business community on risks and recover considerations.

Origin

Previous Plan	Current Plan
	X

# Earthquake Home Retrofit Program

#### Hazards: E

University Place will continue to educate its property owners building contractors, and real property partners on methods to retrofit homes to mitigate damage in case of an earthquake. The City should encourage the insurance industry to distribute home retrofit information to owners/occupants of pre-1970 University Place homes, especially when homeowners are seeking hard to obtain earthquake insurance. This will reduce the total amount of uninsured damages due to earthquakes.

- 1. Goal(s) Addressed = Protect life and property; Ensure Continuity of Operations; Increase Public Preparedness; Increase and Strengthen Partnerships; Protect the Environment; Increase Public Preparedness
- 2. Cost of Measure = TBD
- 3. Funding Source and Situation = TBD
- 4. Lead Jurisdiction(s) = City of University Place
- 5. Timeline = Ongoing
- **6. Benefit** = City-wide; Residential
- 7. Life of Measure = TBD
- **8.** Community Reaction = the proposal is likely to be endorsed by the entire community.

Status Update: 2020 – 2025 Edition

Complete	Ongoing	Partially Complete	Deferred
	X		
		Comments	

Previous Plan	Current Plan
X	X

## **Endnotes**

<sup>1</sup> Hazard Codes:

Where necessary, the specific hazards addressed are noted as follows:

vnere nece	ssary, the specific hazards addressed are noted as follows:
A:	Avalanche
E:	Earthquake
F:	Flood
D:	Drought
T:	Tsunami
(L OR	Volcanic (lahar or tephra-specific)
T):	
SW:	Severe Storm (wind-specific)
L:	Landslide
WUI:	Wildland/Urban Interface Fire
MM:	Manmade to include terrorism
ALL:	All hazards, including some man made. Where only natural hazards are addressed, it is noted.